Exelon Generation Company, LLC LaSalle County Station 2601 North 21<sup>st</sup> Road Marseilles, IL 61341-9757 www.exeloncorp.com

RA08-070

10 CFR 50.55a

Exel

Nuclear

December 17, 2008

U.S. Nuclear Regulatory Commission Attn: Document Control Desk Washington, DC 20555

> LaSalle County Station, Units 1 and 2 Facility Operating License Nos. NPF-11 and NPF-18 NRC Docket Nos. 50-373 and 50-374

Subject: Submittal of Third 10-Year Inservice Testing (IST) Interval Program Plan

In accordance with the American Society of Mechanical Engineers (ASME) Code for Operation and Maintenance of Nuclear Power Plants (OM Code), Subsection ISTA-3200 (a), "Administrative Requirements," attached for your information is a copy of the Third 10-Year Interval Inservice Testing (IST) Program Plan for LaSalle County Station (LSCS), Units 1 and 2. The third interval of the LSCS, Units 1 and 2 IST Program complies with the 2001 Edition through 2003 Addenda of the ASME OM Code.

Should you have any questions concerning this letter, please contact Mr. Terrence Simpkin at (815) 415-2800.

Daniel J. Enright

Site Vice President LaSalle County Station

Attachment: LaSalle County Station (LSCS), Units 1 and 2 Third Inservice Testing (IST) Interval Program Plan

cc: Regional Administrator – NRC Region III NRC Senior Resident Inspector – LaSalle County Station

# **LaSalle County Station**

COMBINED UNITS 1 & 2 INSERVICE TESTING PROGRAM FOR PUMPS AND VALVES

3<sup>rd</sup> 10-Year IST Interval





Nuclear

2443 Warrenville Road Suite 500 Lisle, IL 60532

800.417.3921 Telephone 630.955.5642 Fax www.hsbglobalstandards.com

Authorized Nuclear Inservice Concrete (ANIC) Inspector detailed Re: review of the Third Ten-Year Interval InService Testing (IST) Program, Revision Zero - LaSalle County Station (LSCS) Units 1 and 2.

September 28, 2007

Byron Ginter, Engineering Programs Manager

Per the requirements of the "American Society of Mechanical Engineers" (ASME) Code, Section XI of the 2001 Edition with 2003 Addendum, Paragraph IWA-2110 (a) (b); the Inspector shall do a detailed review of the Program Plan.

The IST Program details the requirements for the examination and testing of ASME Code Class pumps and valves. The Program provides the requirements for the performance and administration of assessing the operational readiness of pumps and valves whose specific functions are required in the shutting down the reactor to cold shut down condition, in maintaining the cold shut down condition, or in mitigating the consequences of an accident condition. The Program was developed in accordance with the requirements of 10 CFR 50,55a and the ASME Code.

Note: The transition of the IST Program to the Third 120-Month Interval of the requirements of the ASME Code, the Authorized Inspection Agency is removed from verification of IST. Third party inspection services are no longer mandated.

Respectively submitted,

Rochy W. White Rocky W. White, LaSalle County Station - ANIC

Cc: Rodney Vickers, IST Engineering Programs JoAnn M. Shields, IVVI Engineering Programs

# LaSalle County Station Units 1 & 2

# Inservice Testing Program Plan Third Ten-Year Interval Revision 2

**Commercial Service Dates:** 

Unit 1 – January 1, 1984 Unit 2 – October 17, 1984

LaSalle County Station 2601 N. 21<sup>st</sup> Rd Marseilles, Illinois 61341

APPROVALS:	
Prepared By: Rochney Vickas	Date: 10/24/08
Station IST Coordinator	
Reviewed By:	Date: 10 /24/08
Corporate IST Engineer	
Approved By:	Date: 10/247/08
Station/Engineering Programs Manager	, .
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Revision Date: 10/24/08

IST-LAS-PLAN

# **REVISION LOG**

Effective Date	Revision Description	Prepared; IST Program Engineer	Date	Approved; Engr. Programs Manager	Date
10/12/07	Revision 0 – Original Issue for Third Ten-Year IST Interval	Rodney Vickers	10/11/07	Andrew Kochis for Byron Ginter	10/11/07
06/12/08	Revision 1 – Revised Attachment 2 and Pump Relief Request RP-02 to add NRC Approval Date	Rodney Vickers	06/12/08	Byron Ginter	06/12/08
10/24/08	Revision 2 – Revised Technical Position TP-06 and Attachment 15 to reflect change in pump category (from Group A to Group B) for 1(2)E12- C002C. Revised Technical Position TP-08 and Attachment 17 to reflect changes made to valve categories under EC 363056.	Rodney Vichers	10/24/08	Bj-fo	10/24/05

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- 3.2 Valve Plan Table Description

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## 1.0 **INTRODUCTION**

#### 1.1 **Purpose**

To provide requirements for the performance and administration of assessing the operational readiness of those pumps and valves with specific functions that are required to:

- Shutdown the reactor to the safe shutdown condition,
- Maintaining the safe shutdown condition, or
- To mitigate the consequences of an accident.

The LaSalle County Station was designed and licensed to operate with the Cold Shutdown condition defined as the "safe" shutdown condition.

#### 1.2 Scope

The IST program plan has been prepared to meet the requirements of the American Society of Mechanical Engineers (ASME) OM Code 2001 Edition through 2003 Addenda (ASME OM Code 2001/2003a). Mandatory Appendix I of the ASME OM Code 2001 Edition through 2003 Addenda will be used for pressure relief device testing activities. Mandatory Appendix II of the ASME OM Code 2001 Edition through 2003 Addenda (as modified by 10CFR50.55a(b)(3)(iv)(A), (B) and (C)) will be used for check valve condition monitoring activities. Motor operated valve testing is based on the requirements of ASME Code Case OMN-1 for selected valves (as modified by 10CFR50.55a(b)(3)(ii) and Relief Request RV-02).

• ASME OM Code 2001/2003a, Subsection ISTA, "General Requirements"

ISTA contains the requirements directly applicable to inservice testing including the Owner's Responsibility and Records Requirements.

• ASME OM Code 2001/2003a, Subsection ISTB, "Inservice Testing of Pumps in Light-Water Reactor Nuclear Power Plants"

ISTB establishes the requirements for inservice testing of pumps in lightwater reactor nuclear power plants. The pumps covered are those provided with an emergency power source that are required in shutting down of the reactor to a safe shutdown condition, in maintaining the safe shutdown condition, or in mitigating the consequences of an accident. • ASME OM Code 2001/2003a, Subsection ISTC, "Inservice Testing of Valves in Light-Water Reactor Nuclear Power Plants"

ISTC establishes the requirements for inservice testing of valves in light-water reactor nuclear power plants. The valves covered include those which provide overpressure protection and are required to perform a specific function, either actively through the changing of valve obturator position or passively by effectively maintaining required obturator position in shutting down a reactor to the safe shutdown condition, in maintaining the safe shutdown condition, or in mitigating the consequences of an accident.

 ASME OM Code 2001/2003a, Mandatory Appendix I, "Inservice Testing of Pressure Relief Devices in Light-Water Reactor Nuclear Power Plants"

Provides the requirements for performance testing and monitoring of nuclear plant pressure relief devices. Methods, intervals, and record requirements for monitoring and testing are established, as well as guidelines for the evaluation of results. The Appendix applies to safety valves, safety relief valves, pilotoperated pressure relief valves, power-actuated pressure relief valves, nonreclosing pressure relief devices and vacuum relief devices, including all accessories and appurtenances.

• ASME OM Code 2001/2003a, Mandatory Appendix II, "Check Valve Condition Monitoring Program"

Provides an alternative to the testing or examination requirements of ISTC-3510 through ISTC-5221. The purpose of this program is both to improve valve performance and to optimize testing, examination, and preventive maintenance activities in order to maintain the continued acceptable performance of a select group of check valves.

 ASME OM Code Case OMN-1, Rev. 0, "Alternative Rules for Preservice and Inservice Testing of Certain Electric Motor-Operated Valve Assemblies in Light-Water Reactor Power Plants"

Provides an alternative to the valve testing requirements of subsection ISTC for certain electric motor operated valves. The purpose of these alternative requirements are to provide a program to both improve valve performance and to optimize testing and examination activities, thus eliminating unnecessary testing that provides minimal information about the MOV's operational readiness.

The LaSalle County Nuclear Power Station Third Ten-Year Pump and Valve Inservice Testing Plan will be in effect as follows:

0	Unit One: Start <sup>(1)</sup> :	October 12, 2007	End:	October 11, 2017
•	Unit Two: Start <sup>(1)</sup> :	October 12, 2007	End:	October 11, 2017

(1) The start date for the Third Ten-Year IST Interval reflects a one (1) year extension of the Second Ten-Year IST Interval on Unit 1 and an extension of less than one (1) year of the Second Ten-Year IST Interval on Unit 2 as allowed by paragraph IWA-2430(d) of ASME Code Section XI (1989 Edition). This extension is discussed in the letter dated October 16, 2006 from LaSalle County Station to the U.S. Nuclear Regulatory Commission (ref. Regulatory Assurance Letter RA06-063). This extension shall not cause successive intervals to be altered by more than one (1) year from the original pattern of intervals.

## 2.0 **INSERVICE TESTING PLAN FOR PUMPS**

## 2.1 **Pump Inservice Testing Plan Description**

This testing program for pumps meets the requirements of the ASME OM Code 2001 edition through 2003a, Section ISTB "Inservice Testing of Pumps in Light-Water Reactor Nuclear Power Plants". Where these requirements have been determined to be impractical, specific requests for relief were written and are included in Attachment 3. NRC Generic Letter 89-04 and NUREG 1482, Revision 1 have been used as guidance in the development of the IST Program.

#### 2.2 **Pump Plan Table Description**

The pumps included in the LaSalle County Nuclear Power Station IST Plan are listed in Attachment 15. The information contained in these tables identifies those pumps that are required to be tested to the requirements of Subsection ISTB of the ASME OM Code 2001 Edition through 2003 Addenda, along with their applicable tests, and test frequencies. The Pump Plan Table is divided into sections based upon Plant System. The headings for the pump tables are delineated below.

Pump EPN

The unique Equipment Part Number (EPN) for the pump. Each EPN is preceded with a Unit designator for the pump:

0	Common Unit
1	Unit 1
2	Unit 2

<u>Pump Name</u> The descriptive name for the pump.

<u>P&ID</u> The Piping and Instrumentation Drawing on which the pump is represented.

<u>P&ID Coor.</u> The P&ID Coordinate location of the pump.

IST Group Pump Group as defined in ISTB-2000

Group A	Continuous or routinely operated pumps
Group B	Standby pumps not operated routinely
N/A	Not Applicable (Skid-mounted)

## 2.2 **Pump Plan Table Description (Cont'd)**

The ASM	E Code classification of the pump
1	Class 1
2	Class 2
3	Class 3
NC	Non-Code, Safety Related
NS	Non-Safety Related

Pump Type

Safety Class

The type of pump.

CCentrifugalPDPositive DisplacementVLSVertical Line Shaft

Pump Driver

The type of pump driver.

MotorMotor drivenTurbineSteam turbine drivenEngineCombustion Engine

Revision Date: 10/12/07

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# 2.2 Pump Plan Table Description (Cont'd)

<u>Test Type</u>	Measured	test parameters.
	S <sup>(1)</sup>	Pump Speed (Measured only for variable speed pumps).
	dP <sup>(1)</sup>	Differential Pressure as calculated by subtracting the suction from the discharge pressures or obtained by direct measurement.
	DIS-P <sup>(1)</sup>	Discharge Pressure (Measured only for positive displacement pumps).
	Q <sup>(1)</sup>	Flow Rate as measured using a rate or quantity meter installed in the pump test circuit.
	$\mathbf{V}^{(1)}$	Vibration (Pump bearing).
• ·	SKID	Parameter(s) as determined by LaSalle County Station are verified through the testing of the item's parent/major component.
· ·	<sup>(1)</sup> Followi parent criteria	ing the specification of each 'Test Type', within hesis will be noted which of the following test a will be applied:
	a b c	- Denotes a Group A Pump Test - Denotes a Group B Pump Test - Denotes a Comprehensive Pump Test
<u>Test Freq.</u>	The freque	ency for performing the specified inservice test.
	M3 CS RF Y2 OP	Quarterly (92 Days) Cold Shutdown Refueling Two Years (Biennially) Operating Parameter

## 2.2 **Pump Plan Table Description (Cont'd)**

Relief RequestA relief request number is listed when a specific Code<br/>requirement is determined to be impractical.Deferred Just.Reference either a Cold Shutdown or Refueling<br/>Justification Evaluation by its specific justification number.

Tech. Pos.Reference a Technical Position by its specific number. A<br/>Technical Position is written to document how Code<br/>requirements are being implemented at the station when the<br/>requirement(s) of the Code are not easily interpreted.

## 3.0 INSERVICE TESTING PLAN FOR VALVES

#### 3.1 Valve Inservice Testing Plan Description

This testing program for valves meets the requirements of the ASME OM Code 2001 edition through 2003a, Section ISTC "Inservice Testing of Valves in Light-Water Reactor Nuclear Power Plants"; Mandatory Appendix I "Inservice Testing of Pressure Relief Devices in Light-Water Reactor Nuclear Power Plants"; Mandatory Appendix II Check Valve Condition Monitoring Program" with the limitations imposed by 10 CFR 50.55a(b)(3)(iv)(A), (B) and (C); and ASME Code Case OMN-1 with the limitations imposed by 10 CFR 50.55a(b)(3)(ii). Where these requirements are determined to be impractical, specific requests for relief have been written and are included in Attachment 4.

Where the frequency requirements for valve testing have been determined to be impractical, Cold Shutdown or Refuel Outage Justifications have been identified and written. These justifications are provided in Attachments 7 and 9 respectively.

#### 3.2 Valve Plan Table Description

The valves in Attachment 17 list all ASME Class 1, 2, 3 and NC Valves that have been scoped in the IST Program and have been assigned Valve Categories. Valves exempt per ASME OM Code ISTC-1200 are not listed. The Valve Plan Table is divided into sections by Plant System. The following information is included for each valve:

<u>Valve EPN</u> A unique identifier for the valve. Each EPN is preceded with a Unit designator for the valve:

0	Common Unit
1	Unit 1
2	Unit 2
The description	on of the valve.

The Piping and Instrumentation Drawing (P&ID) number on which the valve appears. (If the valve appears on multiple P&IDs, the primary P&ID will be listed.)

<u>P&ID Coor.</u> The drawing coordinate location on the P&ID for the valve.

Valve Name

P&ID

#### 3.2 Valve Plan Table Description (Cont'd)

Code Class	The ASM	IE Classification of the valve.
	1	ASME Code Class 1
	2	ASME Code Class 2
	3	ASME Code Class 3
	NC	Non-Code, Safety Related
	NS	Non-Safety Related

IST Category

The category(s) assigned to the valve based on the definitions per ASME OM Code ISTC-1300. The following categories are defined in the Code:

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

Category B – Valves for which seat leakage in the closed position is inconsequential for fulfillment of their function(s).

Category C – Valves that are self-actuating in response to some system characteristic, such as pressure (relief valves) or flow direction (check valves) for fulfillment of their function(s).

Category D – Valves that are actuated by an energy source capable of only one operation, such as rupture disks or explosive-actuated valves.

N/A – Valves that have been included into the IST Program as the result of a commitment.

More than on Category may be specified if more than one distinguishing Category characteristic is applicable.

Valve Size

The nominal size of the valve, in inches.

3.2	Valve Plan Table	Descriptio	on (Cont'd)
	Valve Type	The value of the v	alve body design as indicated by the following iation.
		3W	3-Way Valve
		4W	4-Way Valve
		ANG	Angle
		BAL	Ball Valve
		BTF	Butterfly Valve
		CK	Check Valve
		DAM	Damper
		DIA	Diaphragm Valve
		GA	Gate Valve
		GL	Globe Valve
		PCV	Pressure Control Valve
		PLG	Plug Valve
		PLT	Pilot Valve
		PPT	Poppet Valve
		RPD	Rupture Disk
		RV	Relief Valve
		SCK	Stop Check Valve
		SHR	Shear Valve/SQUIB Valve
		SV	Safety
		XFC	Excess Flow Check Valve
	ACT. Type	The act	tuator type abbreviation.
		40	Air Organiza
		AU	Air Operator
		EAP	Explosive Actuator Hudroulio Operator
		HU	Monucl
		MO	Manual Motor Operator
		NIC	Solf A structure
		SA	Self-Actuating
		SAF SO	Solenoid Operator
	Active/Passive	Active accorda	or Passive function determination for the valve in ance with ISTA-2000.

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P Passive

N/A Not Applicable (Non-Safety Related Valves)

IST Program Plan
LaSalle County Station Units 1 & 2, Third Interval

Normal Position The normal position of the valve during normal power operation. If the valve's system does not operate during power operation, then the normal position is the position of the valve when the system is not operating.

С	Closed
LC	Locked Closed
D	De-energized (3-way and 4-way valves)
E	Energized (3-way and 4-way valves)
0	Open
LO	Locked Open
SYS	System Condition Dependent

Safety Position

The valve's safety function position(s). For valves that perform safety functions in the open and closed positions more than one safety function position may be specified.

С	Closed
D	De-energized (3-way and 4-way valves)
E	Energized (3-way and 4-way valves)
D/E	De-energized or Energized
0	Open
O/C	Open or Closed
N/A	Valve has no Safety Related Position
	(Augmented)

IST Program Plan LaSalle County Station Units 1 & 2. Third Interval						
3.2	Valve Plan Tab	ole Description (Cont'd)				
	<u>Test Rqmt</u>	The test(s) of ASME abbreviation	The test(s) that will be performed to fulfill the requirements of ASME OM Code ISTC. The definitions and abbreviations are identified below:			
		CC	Exercised Closed – Check Valve <sup>1</sup>			
		CO	Exercise Open – Check Valve <sup>1</sup>			
		СР	Partial Exercise Open– Check Valve <sup>1</sup>			
		DT .	Rupture Disk / Explosive Valves			
		ET	Full Exercise without stroke timing			
		FS-C	Fail Safe Test Closed			
		FS-O	Fail Safe Test Open			
		LT-J	Leakage Rate Test (Appendix J)			
		LT-S	Leakage Rate Test (Seat, ISTC-3630)ME			
		OPR	Operator Rounds (condition monitoring)			
		OMN-O	Open Test per OMN-1 Criteria			
		OMN-C	Closed Test per OMN-1 Criteria			
		PIT	Position Indication Test			
		RVT	Relief Valve Test			
		ST-C	Stroke Time Closed			
		SD	Solenoid De-energize			
		SE	Solenoid Energize			
		ST-O	Stroke Time Open			

<sup>1</sup> Three letter designations are used for Check Valve Condition Monitoring tests to differentiate between the various methods of exercising check valves. The letter following "CC" or "CO", or "CP" is "A" for acoustics, "D" for disassembly and examination, "F" for flow indication, "M" for magnetic, "R" for radiography, "T" for break away torque, "U" for ultrasonic, or "X" for manual exercise.

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#### 3.2 Valve Plan Table Description (Cont'd)

Test Freq.

The test frequency abbreviation.

AppJ	Appendix J
CM	Condition Monitoring <sup>1</sup>
CS	Cold Shutdown
M3	Quarterly
OP	Operating Activities <sup>2</sup>
RR	Refuel Outage
S2	Explosive Charge Sample
SA	Check Valve Disassembly Sample <sup>3</sup>
Y2	2 years
Y5	5 years
Y10	10 years
JOG	Per the MOV Program, not to exceed 10
	years

Relief Request

Deferred Just.

The applicable Relief Request as it applies to the subject test.

Deferred Test Justification. This field provides reference to either an applicable Cold Shutdown Justification or Refuel Outage Justification.

A Cold Shutdown Justification is a document that provides a justification as allowed by ISTC-3510 to extend the applicable testing frequency to that which coincides with the plant's "Cold Shutdown" frequency. A Cold Shutdown Justification is identified by its unique number identifier which has a "CS" prefix. Cold Shutdown Justifications are contained in Attachment 7 of this document.

A Refuel Outage Justification is a document that provides a justification as allowed by ISTC-3510 to extend the applicable testing frequency to that which coincides with the plant's "Refuel Outage" frequency. A Refuel Outage Justification is identified by its unique number identifier that has a "RJ" prefix. Refueling Outage Justifications are contained in Attachment 9 of this document.

<sup>&</sup>lt;sup>1</sup> Frequency is as indicated in respective Condition Monitoring Plan for that valve group.

<sup>&</sup>lt;sup>2</sup> Satisfied i.a.w. Exelon IST Program Technical Position, TP-05, "Check Valves in Regular Use."

<sup>&</sup>lt;sup>3</sup> Used for check valve disassembly/inspection per ISTC requirements or to indicate Condition Monitoring frequency (refer to respective Condition Monitoring Plan for that valve group).

Tech. Pos.

A Technical Position is a document that is used by the utility/Owner to clarify their interpretation of Code requirements when it is felt by the utility or Owner that either the requirements of the code are not easily interpreted or when they simply want to document how a Code requirement is being implemented at the station. Technical Positions are identified by their unique number identifier that contains a "TP" prefix. Technical Positions are contained in Attachment 13 of this document.

This column also identifies the applicable Check Valve Condition Monitoring Program group as contained in Attachment 11, where applicable.

#### 4.0 ATTACHMENTS:

Attachment 1 System and P&ID Listing

Attachment 2 Pump Relief Request Index

> Attachment 3 Pump Relief Requests

Attachment 4 Valve Relief Request Index

Attachment 5 Valve Relief Requests

Attachment 6 Cold Shutdown Justification Index

> **Attachment 7** Cold Shutdown Justifications

Attachment 8 Refuel Outage Justification Index

**Attachment 9** Refuel Outage Justifications

Attachment 10 Check Valve Condition Monitoring Plan Basis Index

Attachment 11 Check Valve Condition Monitoring Plan Basis

> Attachment 12 Station Technical Positions Index

**Attachment 13** Station Technical Positions

Attachment 14 Inservice Testing Pump Table Index

Attachment 15 Inservice Testing Pump Table

Attachment 16 Inservice Testing Valve Table Index

Attachment 17 Inservice Testing Valve Table

**Revision Date:** 10/12/07

## **ATTACHMENT 1**

## SYSTEM AND P&ID LISTING

<u>System</u> CM	<u>System Name</u> Containment Monitoring	<u><b>P&amp;ID</b></u> M-156-1, -2, -3, -4, M-158-1, -2, -3, -4
DG	Diesel Generator	M-83-1, -2, -3, -4
DO	Diesel Fuel Oil	M-85-1, M-132
FC	Fuel Pool Cooling	M-98-1, M-144-1
FW	Feedwater	M-57-1, M-118-1
HG	Containment Combustible Gas Control	M-130-1, -2
HP	High Pressure Core Spray	M-95, M-141, M-2095-1, M-2141-1
IA	Instrument Air	M-81-2, M-81-17
IN	Instrument Nitrogen	M-66-1, -2, -3, -4, -7, -8
LP	Low Pressure Core Spray	M-94, M-140, M-2094-1, M-2140-1
MC	Clean Condensate Storage	M-75-2, -4
MS	Main Steam	M-55-1, -2, -3, -7, -8, M-116-1, -2, -3, -7, -8, M-2055-4, -5, -6, -7, M-2116-4, -5, -6, -7
NB	Nuclear Boiler	M-139-1, -2, -3, -4, -5
NR	Neutron Monitoring	M-774-1, -4
PC	Primary Containment	M-92-2, M-138-2
RD	Control Rod Drive	M-100-2, -3, -4, -5, M-146-2, -3, -4, -6
RE	Reactor Building Equipment Drains & Floor Drains	M-91-3, -4, M-137-3, -4

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RH	Residual Heat Removal	M-96-1, -2, -3, -4, M-87-1, -2, -3, M-134-1, -2, -3, M-142-1, -2, -3, -4, M-2096-4, -5, M-2142-4, -5
RI	Reactor Core Isolation Cooling	M-101-1, -2, M-147-1, -2, M-2101-1, M-2147-1
RR	Reactor Recirculation	M-93-1, -2, -3, -4, -5, M-2093-1, -2, -3, -4, -8, M-2139-1, -2, -3, -4, -8
RT	Reactor Water Cleanup	M-97-1, M-143-1, M-2097-1, -2, M-2143-1, -2
SA	Service Air	M-82-3, -5
SC	Standby Liquid Control	M-99, M-145
VG	Standby Gas Treatment	M-89
VP	Primary Containment Chilled Water	M-86-1, M-133-1
VQ	Primary Containment Purge	M-92-1, -2, M-138-1, -2
VR	Reactor Building Ventilation	M-1455-1 M-1456-1
WR	Reactor Building Closed Cooling Water	M-90-2, M-136-2

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## ATTACHMENT 2

## PUMP RELIEF REQUEST INDEX

<b>Designator</b>	Description	Approval Date
RP-01	Water Leg Pump Flow Test	Rev. 0: 9/26/07
RP-02	Water Leg Pump Comprehensive Testing	Rev. 1: 5/07/08

## **ATTACHMENT 3**

## **PUMP RELIEF REQUESTS**

**Revision Date: 10/12/07** 

IST-LAS-PLAN

## Pump Relief Request - RP-01 Water Leg Pump Flow Test (Rev. 0) (Page 1 of 3)

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

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

Pump	Description	Class	Category	Unit
1E22-C003	HPCS Water Leg Pump	2	Group A	1
1E21-C002	LPCS Water Leg Pump	2	Group A	1
1E12-C003	RHR Water Leg Pump	2	Group A	1
1E51-C003	RCIC Water Leg Pump	2	Group A	1
2E22-C003	HPCS Water Leg Pump	2	Group A	2
2E21-C002	LPCS Water Leg Pump	2	Group A	2
2E12-C003	RHR Water Leg Pump	2	Group A	. 2
2E51-C003	RCIC Water Leg Pump	2	Group A	2

#### 1. <u>ASME Code Component(s) Affected</u>

#### 2. <u>Applicable Code Edition and Addenda</u>

ASME OM Code 2001 Edition through 2003 Addenda

#### 3. Applicable Code Requirement

ISTB-5121, Table ISTB-3000-1; Group A pump quarterly flow tests

#### 4. <u>Reason for Request</u>

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The primary purpose of these pumps is to maintain the HPCS, LPCS, RCIC, and RHR pump discharge lines filled to limit the potential for water hammer upon associated pump initiation. Once the supported pump (e.g. HPCS, RHR, etc.) is in operation, the associated water leg pump serves no further safety related function. The amount of flow delivered by each water leg pump is dependent upon each supported systems leakage rate. Each water leg pump is capable of delivering approximately 50 gpm. None of the listed water leg pumps have instrumentation installed in their discharge lines for measuring flow rates.

#### Pump Relief Request - RP-01 (Rev. 0) (Page 2 of 3)

While flow measurement instrumentation is provided downstream of the water leg pumps branch connection to its associated support system, during power operation the water leg pump is unable to generate sufficient pressure to flow through the associated flow element into the reactor vessel. Even if the water leg pump was capable of developing a head sufficient to inject into the reactor vessel during power operation, the flow measurement instrumentation, which is designed to measure flow developed by either a HPCS (0-8000 gpm), LPCS (0-10,000 gpm), RHR (0-10,000 gpm) or RCIC (0-700 gpm) pump is not capable of measuring such small flows developed by a water leg pump (i.e. approximately 50 gpm).

The application of temporary flow instrumentation (ultrasonic) cannot be utilized as there does not exist a run of piping long enough that would allow for an accurate measurement. System modifications to provide test measuring locations places undue burden on the licensee without demonstrating any increase in the level of plant safety. These pumps are in continuous operation and pump performance is continuously monitored by a low-pressure alarm on each HPCS, LPCS, RHR and RCIC pump discharge header.

#### 5. Proposed Alternative and Basis for Use

LaSalle Station will continue to monitor the subject pumps for degradation by measuring and recording pump inlet pressure, discharge pressure, (from which differential pressure is calculated), and vibration. The differential pressure and vibration data will be trended. These measurements are taken quarterly during normal plant operation, when the supported system's pump is not in operation and RCS pressure is greater than the water leg pumps discharge pressure. Measurement and trending of these parameters under these stated conditions will provide satisfactory indication of operational readiness as well as the ability to detect potential degradation. In addition, the main ECCS pump headers each have a low pressure sensor which continuously monitors the operability of the respective water leg pump and alarm upon reaching their low setpoints. Station Technical Specification Surveillance Requirements (i.e., TS 3.5.1.1, 3.5.2.3, 3.5.3.1) also verify operability of the water leg pumps by verifying flow through a high point vent on a monthly basis.

Vibration measurement will continue to be obtained under normal operating conditions and evaluated in accordance with ISTB-5121(d) and (e). The differential pressure across the pump will also continue to be determined quarterly through plant procedures utilizing each pumps minimum flow line in accordance with ISTB-5121(c) and (e). Differential Pressure and vibration will continue to be trended. In addition, LaSalle County Station verifies operability of these pumps through the continuous monitoring of the HPCS, LPCS, RHR and RCIC pump discharge line pressures that are monitored in the control room by alarm.

## Pump Relief Request - RP-01 (Rev. 0) (Page 3 of 3)

#### 6. <u>Duration of Proposed Alternative</u>

This proposed alternative will be utilized for the entire third 120 month interval.

#### 7. Precedents

This relief request was previously approved for the second ten-year interval at LaSalle County Station Units 1 and 2 as Relief Request RP-01, documented in a Safety Evaluation and Letter dated July 6, 1998.

#### 8. <u>Approval</u>

This relief request was approved for the third 120 month interval by letter from U.S. NRC to C.M. Crane (Exelon Generation Company, LLC), "Relief Requests for the LaSalle County Station, Units 1 and 2, Third 10-Year Pump and Valve Inservice Testing Program", dated September 26, 2007.

## Pump Relief Request - RP-02 Water Leg Pump Comprehensive Test (Rev. 1) (Page 1 of 4)

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

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

Pump	Description	Class	Category	Unit
1E22-C003	HPCS Water Leg Pump	2	Group A	1
1E21-C002	LPCS Water Leg Pump	2	Group A	1
1E12-C003	RHR Water Leg Pump	2	Group A	1
1E51-C003	RCIC Water Leg Pump	2	Group A	1
2E22-C003	HPCS Water Leg Pump	2	Group A	. 2
2E21-C002	LPCS Water Leg Pump	2	Group A	2
2E12-C003	RHR Water Leg Pump	2	Group A	2
2E51-C003	RCIC Water Leg Pump	2	Group A	.2

#### 1. ASME Code Component(s) Affected

#### 2. Applicable Code Edition and Addenda

ASME OM Code 2001 Edition through 2003 Addenda

#### 3. <u>Applicable Code Requirement</u>

ISTB-5123, Table ISTB-3000-1; Comprehensive pump flow tests

#### 4. Reason for Request

ISTB-5123 requires the performance of Comprehensive pump testing of the parameters listed in Table ISTB-3000-1. Table ISTB-3000-1 includes the measurement of flow, and there are no existing flow instruments associated with these pumps. Installation of flow instruments would be a hardship or unusual difficulty without a compensating increase in the level of quality and safety.

The primary purpose of these pumps is to maintain the High Pressure Core Spray (HPCS), Low Pressure Core Spray (LPCS), Reactor Core Isolation Cooling (RCIC), and Residual Heat Removal (RHR) pump discharge lines filled to limit the potential

## Pump Relief Request - RP-02 Water Leg Pump Comprehensive Test (Rev. 1) (Page 2 of 4)

for water hammer upon associated pump initiation. Once the supported pump (e.g., HPCS, RHR, etc.) is in operation, the associated water leg pump serves no further safety related function. The amount of flow delivered by each water leg pump is dependant upon each supported systems leakage rate. Each water leg pump is capable of delivering approximately 50 gpm. None of the listed water leg pumps have instrumentation installed in their discharge lines for measuring flow rates.

While flow measurement instrumentation is provided downstream of the water leg pumps branch connection to its associated support system, during power operation the water leg pump is unable to generate sufficient pressure to flow through the associated flow element into the reactor vessel. Evan if the water leg pump was capable of developing a head sufficient to inject into the reactor vessel during power operation, the flow measurement instrumentation, which is designed to measure flow developed by either a HPCS (0-8000 gpm), LPCS (0-10,000 gpm), RHR (0-10,000 gpm) or RCIC (0-700 gpm) pump is not capable of measuring such small flows developed by a water leg pump (i.e., approximately 50 gpm.)

The application of temporary flow instrumentation (ultrasonic) cannot be utilized, as there does not exist a run of piping long enough that would allow for an accurate measurement.

Quarterly Group A testing as modified by LaSalle Pump Relief Request RP-01 will continue to be performed during the stipulated conditions that the RCS pressure is greater than the discharge pressure of the associated water leg pump, and that the supported system pump is not in operation during the testing of the associated water leg pump.

Comprehensive Pump testing prescribes that pump parameters are measured while the pump is operating at a flowrate within 20% of the pumps design flow. These water leg pumps do not have a safety related design flow rate. These pumps operate in a "keep ready" mode, maintaining the supported systems piping pressurized with water, which is dependent upon each individual systems leakage rate.

The remaining differences then between Comprehensive Pump Testing and Group A testing is the accuracy of the instruments used in measuring the differential pressure (Table ISTB-3500-1) as well as the acceptance criteria associated with the pumps differential pressure (Table ISTB-5100-1).

These water leg pumps are tested quarterly by isolating them from their support system piping and measuring their pressure and vibration parameters as they flow through their minimum flow line, through a minimum flow orifice. As there is no flow

## Pump Relief Request - RP-02 Water Leg Pump Comprehensive Test (Rev. 1) (Page 3 of 4)

measurement taken as a result of system configuration, variation of the system resistance is not used.

The utilization of more accurate test instrumentation and acceptance criteria under these conditions would only result in hardship without a compensating increase in the level of quality or safety.

#### 5. Proposed Alternative and Basis for Use

LaSalle Station will continue to monitor the subject pumps for degradation by measuring and recording pump inlet pressure, discharge pressure, (from which differential pressure is calculated), and vibration. The differential pressure and vibration data will be trended as directed by ISTB-5121 (Group A Test Procedure), as amended by Relief Request RP-01. These measurements are taken quarterly during normal plant operation, when the supported system's pump is not in operation and RCS pressure is greater than the water leg pumps discharge pressure. Measurement and trending of these parameters under these stated conditions will provide satisfactory indication of operational readiness as well as the ability to detect potential degradation. In addition, the main ECCS pumps discharge headers each have a low pressure sensor which continuously monitors the operability of the respective water leg pump and alarms upon reaching their low setpoints. Technical Specification Surveillance Requirements (i.e., SR 3.5.1.1, SR 3.5.2.3 and SR 3.5.3.1) also verify operability of the water leg pumps by verifying flow through a high point vent on a monthly basis.

Vibration measurement will continue to be obtained under normal operating conditions and evaluated in accordance with ISTB-5121 (d) and (e), (Group A testing). The differential pressure across the pump will also continue to be determined quarterly through plant procedures utilizing each pumps minimum flow line in accordance with ISTB-5121(c) and (e). Differential Pressure and vibration will continue to be trended. In addition, LaSalle verifies operability of these pumps through the continuous monitoring of the HPCS, LPCS, RHR and RCIC pump discharge lines pressures that are monitored in the control room by alarm.

Comprehensive testing is not applicable as these pumps do not provide a safety related function beyond providing for the readiness of their supported system's pump and thus have no acceptance criteria for a comprehensive test.

#### 6. Duration of Proposed Alternative

This proposed alternative will be utilized for the entire third 120 month interval.

## Pump Relief Request - RP-02 Water Leg Pump Comprehensive Test (Rev. 1) (Page 4 of 4)

## 7. <u>Approval</u>

This relief request was approved for the third 120 month interval by letter from U.S. NRC to C.G. Pardee (Exelon Generation Company, LLC), "LaSalle County Station, Units 1 and 2 – Request for Relief from ASME OM Code for the Third 10-Year Pump and Valve Inservice Testing Program Interval – RP-02", dated May 7, 2008.

## ATTACHMENT 4

## VALVE RELIEF REQUEST INDEX

<b>Designator</b>	Description	Approval Date
RV-01	Main Steam Line Safety Relief Valves	Rev. 0: 9/26/07
RV-02	Motor Operated Valves	Rev. 1: 9/26/07

*Revision Date:* 10/12/07

## **ATTACHMENT 5**

## VALVE RELIEF REQUESTS

**Revision Date:** 10/12/07

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## <u>Valve Relief Request - RV-01</u> <u>Main Steam Line Safety Relief Valve Post Installation Actuation</u> (Rev. 0) (Page 1 of 4)

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

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

## 1. ASME Code Component(s) Affected

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Valve	Description	Class	Category	Unit
1B21-F013C	C Main Steam Line Safety Relief Valve*	1	С	1
1B21-F013D	B Main Steam Line Safety Relief Valve*	1	C	1
1B21-F013E	C Main Steam Line Safety Relief Valve*	1	C	1
1B21-F013F	B Main Steam Line Safety Relief Valve	1	С	1
1B21-F013H	D Main Steam Line Safety Relief Valve	1	С	1
1B21-F013K	B Main Steam Line Safety Relief Valve	1	С	1
1B21-F013L	C Main Steam Line Safety Relief Valve	1	С	1
1B21-F013M	B Main Steam Line Safety Relief Valve	1	С	1
1B21-F013P	A Main Steam Line Safety Relief Valve	1	С	1
1B21-F013R	C Main Steam Line Safety Relief Valve*	1	С	1
1B21-F013S	B Main Steam Line Safety Relief Valve*	1	С	1
1B21-F013U	D Main Steam Line Safety Relief Valve*	1	С	1
1B21-F013V	A Main Steam Line Safety Relief Valve*	1	С	1
2B21-F013C	C Main Steam Line Safety Relief Valve*	1	С	2
2B21-F013D	B Main Steam Line Safety Relief Valve*	1	С	2
2B21-F013E	C Main Steam Line Safety Relief Valve*	1	С	2
2B21-F013F	B Main Steam Line Safety Relief Valve	1	С	2
2B21-F013H	D Main Steam Line Safety Relief Valve	1	С	2
2B21-F013K	B Main Steam Line Safety Relief Valve	1	С	2
2B21-F013L	C Main Steam Line Safety Relief Valve	1	С	2
2B21-F013M	B Main Steam Line Safety Relief Valve	1	C	2
2B21-F013P	A Main Steam Line Safety Relief Valve	1	С	2
2B21-F013R	C Main Steam Line Safety Relief Valve*	1	С	2
2B21-F013S	B Main Steam Line Safety Relief Valve*	1	С	2
2B21-F013U	D Main Steam Line Safety Relief Valve*	1	С	2
2B21-F013V	A Main Steam Line Safety Relief Valve*	1	С	2

\* - Indicates that the subject valve is also equipped with an Automatic Depressurization System (ADS)
## Valve Relief Request - RV-01 (Rev. 0) (Page 2 of 4)

### 2. Applicable Code Edition and Addenda

ASME OM Code 2001 Edition through 2003 Addenda

### 3. <u>Applicable Code Requirement</u>

Mandatory Appendix I, I-3410(d), that each valve that has been removed for maintenance and testing and reinstalled shall be remotely actuated at reduced or normal system pressure to verify open and close capability of the valve before resumption of electric power generation.

### 4. <u>Reason for Request</u>

Currently, approximately 50% of the Main Steam Line Safety/Relief Valves (S/RVs), with Automatic Depressurization System (ADS) and approximately 50% of the S/RV's, without ADS, are removed from the plant and setpoint tested during each refueling outage. The setpoint testing program includes the manual actuation of the S/RV valves and actuators through the bench-test valve control system. Prior to June 15, 2001, after re-installation into the plant, each valve was actuated a second time by the plant installed remote manual actuation equipment per Code requirements.

Prior to June 15, 2001, experience at LaSalle County Station, Unit 1 and Unit 2, as well as else where in the nuclear industry, had shown that repeated manual actuation of the S/RVs can lead to valve through seat leakage during plant operation. During previous operating cycles for LaSalle Unit 1 and Unit 2, approximately 18% (i.e., 5 of 28) of the valves that were subjected to a single insitu open/close cycle developed undesirable through seat leakage, whereas, approximately 57% (i.e., 12 of 21) of the valves that experienced more than one insitu open/close cycle developed undesirable through seat leakage. During power operation, S/RV through seat leakage is directed to the primary containment suppression pool resulting in either the need for increased cooling of the suppression pool or a plant shutdown in order to fix the leaking valve.

Since December 13, 2001, when the NRC initially approved this Relief Request, LaSalle Unit's 1 and 2 have not had a single instance of through seat leakage that has resulted in the need for immediate corrective actions that involved a loss of operating capacity.

## Valve Relief Request - RV-01 (Rev. 0) (Page 3 of 4)

### 5. Proposed Alternative and Basis for Use

The remote actuation of the Main Steam S/RVs, which have previously been removed for maintenance or refurbishment and replaced, shall be performed in two separate steps. The manual actuation of each valve by its actuator will be performed by the bench-test valve control system of the setpoint testing program. This will verify the opening and closing of the valve by it's actuator. The plant installed manual actuation equipment will then be tested after valve has been reinstallation into the plant, with the valve stem uncoupled from the actuator. This will allow for the testing of the plant installed manual actuation electrical circuitry, manual actuation solenoid and air control valve, and the actuator without causing the valve to open.

As a result, all the components of the S/RV, both with and without ADS, will continue to be tested.

This uncoupled actuator test will also be performed following any maintenance activity performed on the control circuitry/equipment that could affect the relief mode of the associated S/RV or ADS valves.

As originally stated in NUREG-1482, "Guidelines for Inservice Testing at Nuclear Power Plants", section 4.3.4, Revision 0, and NUREG-0626, "Generic Evaluation of Feedwater Transients and Small Break Loss-of-Coolant Accidents in GE-Designed Operating Plants and Near-Term Operating License Applications," the NRC staff recommends reducing the number of challenges to the ADS valves.

NUREG-1482, Rev. 1, section 4.3.2.1 references how several licensees have determined that in situ testing of the S/RVs can contribute to undesirable seat leakage of the valve during subsequent plant operation.

Safety/Relief Valve (with or without ADS), which were either maintained or refurbished in place, will continue to be tested per the requirements of I-3410 (d).

### 6. **Duration of Proposed Alternative**

This proposed alternative will be utilized for the entire third 120 month interval.

### 7. Precedents

This relief request was previously approved for the second ten-year interval at LaSalle County Station Units 1 & 2 as Relief Request RV-11, documented in Safety Evaluation and Letter dated 12/13/2001.

## Valve Relief Request - RV-01 (Rev. 0) (Page 4 of 4)

## 8. <u>Approval</u>

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This relief request was approved for the third 120 month interval by letter from U.S. NRC to C.M. Crane (Exelon Generation Company, LLC), "Relief Requests for the LaSalle County Station, Units 1 and 2, Third 10-Year Pump and Valve Inservice Testing Program", dated September 26, 2007.

## Valve Relief Request - RV-02 <u>Utilization of ASME Code Case OMN-1</u> (Rev. 1) (Page 1 of 6)

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

#### **Alternative Provides Acceptable Level of Quality and Safety**

### 1. ASME Code Component(s) Affected

All ASME Class 1, 2 and 3 Motor Operated Valves (MOV) scoped into the LaSalle County Station Inservice Testing Program subject to diagnostic testing per Generic Letter (GL) 96-05, "Periodic Verification of Design-Basis Capability of Safety-Related Power-Operated Valves," and can not be classified as Skid Mounted.

#### 2. Applicable Code Edition and Addenda

ASME OM Code 2001 Edition through 2003 Addenda

#### 3. <u>Applicable Code Requirement</u>

ISTC, excluding ISTC-3600, Testing of Valves, including MOVs

#### 4. Reason for Request

Pursuant to 10 CFR 50.55a, "Codes and Standards", paragraph (a)(3), relief is requested from the requirements of ISTC-3521 and ISTC-5120. The proposed alternative would provide an acceptable level of quality and safety.

#### 5. Proposed Alternative and Basis for Use

In the 2006 issuance of 10 CFR 50.55a, 10 CFR 50.55a(b) states in part, that Regulatory Guide 1.192, "Operating and Maintenance Code Case Acceptability, ASME OM Code," (June 2003), has been approved for incorporation by reference by the Director of the Office of the Federal Register pursuant

## Valve Relief Request - RV-02 (Rev. 1) (Page 2 of 6)

to 5 U.S.C. 552(a) and 1 CFR part 51. In Regulatory Guide 1.192, it states within Table 2, "Conditionally Acceptable OM Code Cases," that the alternative rules of ASME Code Case OMN-1 Revision 0, when applied in conjunction with the provisions for leakage rate testing in ISTC-3600, may be applied with the following provisions:

- 1. The adequacy of the diagnostic test interval for each valve must be evaluated and adjusted as necessary, but not later than 5 years or three refueling outages (whichever is longer) from initial implementation of ASME Code Case OMN-1.
- 2. When extending the exercise test intervals for high risk MOVs beyond a quarterly frequency, licensees must ensure that the potential increase in core damage frequency and risk associated with the extension is small and consistent with the intent of the Commission's Safety Goal Policy Statement.
- 3. When applying risk insights as part of the implementation of OMN-1, licensees must categorize MOVs according to the their safety significance using the methodology described in Code Case OMN-3, "Requirements for Safety Significance Categorization of Components Using Risk Insights for Inservice Testing of LWR Power Plants," with the conditions discussed in this regulatory guide or use other MOV risk-ranking methodologies accepted by the NRC on a plant-specific or industry-wide basis with the conditions in the applicable safety evaluations.

This conditional acceptance of OMN-1, per Regulatory Guide 1.192 is applicable in lieu of the provisions for stroke-time testing in Subsection ISTC of the 1995 Edition up to and including the 2000 Addenda of the ASME OM Code.

LaSalle County Station proposes to use the requirements of Code Case OMN-1 for MOV stroke time testing and position indication testing.

The LaSalle County Station MOV testing program has been developed utilizing GL 89-10, "Safety Related Motor Operated Valve Testing and Surveillance," and GL 96-05, "Periodic Verification of Design Basis Capability of Safety Related Motor Operated Valves." The continued implementation of OMN-1 will continue to reconcile and consolidate testing within the IST program and eliminate unnecessary testing that provides minimal information about MOV operational readiness.

As part of LaSalle County Station's commitment on MOV Periodic Verification Testing made in response to GL 96-05, LaSalle is participating in the Joint Owners Group (JOG) Program for MOV Periodic Verification. This program is described in Topical Report MPR-1807, Revision 2 and was endorsed by the NRC in an October 1997 Safety Evaluation.

## Valve Relief Request - RV-02 (Rev. 1) (Page 3 of 6)

LaSalle County Station implementation and compliance with the above-identified provisions (Items 1-3) of Code Case OMN-1 are detailed below.

- 1. LaSalle County Station MOV test frequencies identified in the IST program do not exceed three refueling cycles (i.e., a nominal 6 years). Therefore, the expectation that frequency of testing be evaluated and adjusted within five years or three refuel outages, whichever is longer, of OMN-1 implementation will be satisfied.
- 2. LaSalle will exercise medium and low safety significant MOVs at least once every refuel cycle as required in Code Case OMN-1 Section 3.6.1. Initially, LaSalle County Station commits to continue to test high risk MOVs quarterly (where it is not practicable to exercise a valve during plant operations, the valve will be exercised in cold shutdown or in refuel outages per OMN-1 Section 3.6.3). When extending the exercise test intervals for high risk MOVs beyond a quarterly frequency, LaSalle County Station shall ensure that any potential increase in the core damage frequency and risk associated with the extension is small and consistent with the intent of the Commission's Safety Goal Policy Statement. Upon extension of these frequencies, the IST Program will be appropriately revised.
- 3. LaSalle County Station has performed differential pressure testing practicability reviews for GL 89-10 that evaluated the benefits of performing a particular test against the potential adverse effects placed on the valves or systems caused by this testing. The evaluation included an assessment of potential component (valve or pump) damage or system availability concerns that may outweigh benefits of dynamic testing for some MOVs. As a result, some MOVs are not subject to differential pressure testing, but are justified for design basis performance by analysis. This methodology has previously been accepted by the NRC by their approval of LaSalle County Station's initial OMN-1 Relief Request VR-14 for the second IST Interval, approved on November 21, 2002.

#### **Exceptions to OMN-1**

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With LaSalle County Station compliance with the above provisions as stipulated in RG 1.192, LaSalle County Station requests relief from the following OMN-1 section and proposes the following alternative.

## Valve Relief Request - RV-02 (Rev. 1) (Page 4 of 6)

- OMN-1 Section 3.3(b) requires inservice tests to be conducted in the as-found condition.
- OMN-1 Section 3.4, "Effect of MOV Replacement, Repair, or Maintenance," requires deviations between the previous and new inservice tests values to be identified and analyzed.
- OMN-1 Section 6.3, "Evaluation of Data," requires evaluations to determine the amount of degradation in functional margin that occurred over time.

LaSalle County Station proposes not to perform as-found testing in all situations. Not performing as-found testing is justified by the manner in which we determine MOV functional margin and test interval. Unlike the example for determining test interval given in OMN-1 Section 6.4.4, LaSalle County Station uses a process which is less dependent on as-found testing. When pre-service testing is performed, a degradation factor is applied to extrapolate the appropriate test frequency based on a calculated decline in functional margin over time. Random selections of valves are as-found tested, and test results are used to validate degradation assumptions per JOG guidelines. This sample as-found testing is applied to computational methods used to ensure that the functional margin is adequate over the testing interval. Therefore, LaSalle County Station requests relief from the requirement to always perform as-found testing, and will follow the commitments to GL 96-05 to perform some as-found tests.

A comparison of GL 96-05 program to the IST program has identified a number of LaSalle County Station MOVs that have IST requirements but are not subject to diagnostic testing. LaSalle County Station will continue to stroke time test and position indication test these identified MOVs in accordance with ISTC requirements.

### **Technical Position**

The following positions describe how LaSalle County Station interprets and complies with the various requirements of OMN-1.

1. OMN-1 Section 3.1 allows the use of testing that was conducted prior to the implementation of OMN-1 if it meets the requirements of the Code Case. LaSalle County Station intends to utilize the testing performed under GL 89-10 to satisfy the requirement for a one-time test to verify the capacity of each MOV to meet its safety-related design basis requirements.

## Valve Relief Request - RV-02 (Rev. 1) (Page 5 of 6)

- 2. OMN-1 Section 3.2 requires that each MOV be tested during the preservice test period or before implementing inservice inspection. LaSalle County Station intends to utilize the testing performed under GL 89-10 to satisfy this requirement. LaSalle County Station will perform a new preservice test when an MOV undergoes maintenance or modification that could affect its performance.
- 3. OMN-1 Section 3.3(b) states that maintenance activities, such as stem lubrication, shall not be conducted if they might invalidate the as-found condition for inservice testing. At LaSalle County Station the frequency of stem lubrication and periodic MOV verification testing differ considerably, and the times at which these activities are optimally performed often do not coincide. As part of our GL 96-05 program, as-found data has been collected for a sample population of MOVs under various lubrication conditions. The results from this as-found data was used to create stem factor variability assumptions that are used to estimate the effect of stem lubrication on stem performance over the entire lubrication cycle. As described above, Relief has been requested from OMN-1, section 3.3(b) as it applies to inservice testing being conducted in the as-found condition. With this Relief, if testing were to occur directly following maintenance activities such as a stem lube, test results would not be invalidated as methods used to analyze the test results take into consideration testing under these circumstances. Therefore the intent of OMN-1, section 3.3(b), that testing is performed under conditions that will not hinder the ability to determine applicable functional margins and determine operational readiness is maintained utilizing the methods previously described.
- 4. OMN-1 Section 3.3(c) requires the inservice test program to include a mix of static and dynamic MOV performance testing. LaSalle County Station will utilize the JOG program's mix of static and dynamic MOV performance testing to satisfy this requirement. Additionally, LaSalle County Station will utilize the existing engineering standards, which are consistent with the JOG standards, to conduct evaluations to alter the mix of required MOV performance testing, when applicable, in order to meet this requirement.
- 5. OMN-1 Section 3.3.1(b) requires MOV inservice testing to be conducted every 2 refueling cycles or 3 years (whichever is longer), until insufficient data exists to determine a more appropriate test frequency. LaSalle County Station has sufficient MOV testing data to justify its current testing frequencies, and therefore meets this requirement.
- 6. OMN-1 Section 6.4.4 requires calculations for determining MOV functional margin to be evaluated to account for anticipated time related changes in performance. LaSalle County Station will utilize the JOG process for setting test

## Valve Relief Request - RV-02 (Rev. 1) (Page 6 of 6)

frequencies, which is based on margin and safety significance to meet this requirement.

7. According to Table 2 of Regulatory Guide 1.192, the only testing that is described within ISTC that will need to continue to be performed with the adoption of OMN-1 is that of leakage testing as described by ISTC-3600. Therefore Position Indication Testing (PIT) as described by ISTC-3700 need not be specifically identified or performed per the requirements of ISTC. LaSalle County Station will however continue to perform position indication testing at a frequency consistent with JOG guidelines during MOV diagnostic testing.

#### 6. Duration of Proposed Alternative

This proposed alternative will be utilized for the entire Third Ten-year IST Interval.

#### 7. <u>Precedents</u>

This relief request was previously approved for the Second Ten-year IST interval at LaSalle County Station Units 1 & 2 as Relief Request RV-14, documented in Safety Evaluation and Letter dated November 21, 2002.

#### 8. Approval

This relief request was approved for the third 120 month interval by letter from U.S. NRC to C.M. Crane (Exclon Generation Company, LLC), "Relief Requests for the LaSalle County Station, Units 1 and 2, Third 10-Year Pump and Valve Inservice Testing Program", dated September 26, 2007.

## **ATTACHMENT 6**

## **COLD SHUTDOWN JUSTIFICATION INDEX**

Description **Justification** No. **CS-01 Recirculation Flow Control Valves CS-02** Reactor Water Cleanup Isolation Valves **CS-03** Inboard and Outboard MSIVs **CS-04** Drywell Instrument Valves **CS-05** IN Regulated Header Drywell Isolation Valves ADS N2 Supply to DW Isolation Valves **CS-06** Feedwater Check Valves **CS-07** Main Steam Relief Valve Vacuum Breakers **CS-08 CS-09** Feedwater Outboard Testable Check Valves **CS-10** Shutdown Cooling Testable Check Valves **CS-11** SBLC System Injection Check Valves **RCIC** Turbine Exhaust Check Valves **CS-12 CS-13 RCIC** Injection Testable Check Valves **CS-14** ADS Accumulator Inlet Check Valves **CS-15** Reactor Recirc Loop Process Sampling Inbd Bypass Check Valve **CS-16** Inboard and Outboard Accumulator Check Valves **CS-17** HPCS, LPCS and RHR Injection Check Valves SRV Accumulator Inlet Check Valves **CS-18 CS-19** Drywell Instrument Nitrogen TIP Indexer Purge Valves

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**Revision Date: 10/12/07** 

Cold Shutdown

## **ATTACHMENT 7**

### **COLD SHUTDOWN JUSTIFICATIONS**

**Revision Date:** 10/12/07

## <u>Cold Shutdown Justification - CS-01</u> (Rev. 0)

(Page 1 of 2)

<u>Valve Number</u>	System	<u>Class</u>	<u>Category</u>	<u>Unit</u>
1B33-F338A	RR	2	B	1
1B33-F338B	RR	2 ·	В	1
1B33-F340A	RR	2	В	1
1B33-F340B	RR	2	В	· 1
1B33-F342A	RR	2	B ·	. 1
1B33-F342B	RR	2	В	1
1B33-F344A	RR	2	В	1
1B33-F344B	RR	2	В	1
1B33-F339A	RR	2	В	1
1B33-F339B	RR	2	· <b>B</b>	1
1B33-F341A	RR	2	В	1
1B33-F341B	RR	2	В	1
1B33-F343A	RR	2	В	1
1B33-F343B	RR	2	В	1
1B33-F345A	RR	. 2	В	1
1B33-F345B	RR	2	В	1
2B33-F338A	RR	2	В	2
2B33-F338B	RR	2	В	2
2B33-F340A	RR	2	B	2
2B33-F340B	RR	- 2	В	2
2B33-F342A	RR	2	B	2
2B33-F342B	RR	2	В	2
2B33-F344A	RR	2	В	2
2B33-F344B	RR	2	В	2
2B33-F339A	RR	2	В	2
2B33-F339B	RR	2	В	2
2B33-F341A	RR	2	В	2
2B33-F341B	RR	2	В	2
2B33-F343A	RR	2	В	2
2B33-F345B	RR	2	В	2

### Function

These valves are the inboard containment and outboard containment isolation for the Reactor Recirculation Pump hydraulic control lines. These valves are normally open during plant operation to allow hydraulic fluid from the flow control valve hydraulic power unit to position the reactor recirculation line flow control valve in response to electrical signals from the recirculation flow control system.

These valves also have an automatic closure function (Group 2) to isolate primary containment to mitigate the consequences of an accident.

## Cold Shutdown Justification - CS-01 (Rev. 0) (Page 2 of 2)

### **Justification**

It is impractical to full or part-stroke exercise these valves closed on a quarterly (nominal 92 days) basis during plant operation. The reactor recirculation system provides forced circulation of water through the reactor core. The recirculation system in conjunction with the recirculation flow control system, provides a means of controlling reactor power over a limited range by adjusting the flow of coolant through the core. Between 65 - 100% power, with the correct control rod pattern, a change in core flow will also result in a change in reactor power.

Each reactor recirculation flow control valve is controlled by a remote hydraulic power unit (HPU) located outside primary containment. The HPUs supply the high pressure fluid used to position the flow control valves. The individual hydraulic lines penetrate the primary containment and are each equipped with both an inboard and outboard isolation valve. Full-stroke closure testing of the subject valves to the closed position will cut off the hydraulic oil required to provide remote operating capability of the FCV. This could result in a loss of the ability of plant operators to appropriately respond to changing plant conditions that require the regulation of core flow and reactor power.

#### **Alternative Frequency**

These valves will be full-stroke exercised Closed during Cold Shutdown per ISTC-3521(c) and (f).

#### **References**

In the LaSalle Second 10-Year IST Interval, this Cold Shutdown Justification was identified as CS-03.

## Cold Shutdown Justification - CS-02 (Rev. 0) (Page 1 of 2)

<u>Valve Number</u>	<u>System</u>	<u>Class</u>	<b>Category</b>	<u>Unit</u>
1G33-F001	RT	1	A	1
1G33-F004	RT	1	Α	1
2G33-F001	RT	1	Α	2
2G33-F004	RT	1	А	2

#### **Function**

These valves are the inboard containment and outboard containment isolation for the Reactor Water Clean Up System. These valves are have a function to be open during normal plant operation to provide a path for reactor coolant to flow to and from the reactor water cleanup system to maintain high water purity. This is not a safety function.

These valves have a safety function to close and limit leakage from the primary containment in the event of an accident. 1(2)G33-F001 and 1(2)G33-F004 automatically close as a result of a Group 5 isolation signal. 1(2)G33-F004 also automatically close as a result of a standby liquid control system actuation.

#### **Justification**

These valves are tested per the requirements of OMN-1 as modified by LaSalle County Station Relief Request RV-02, and are assigned a risk ranking of "High", which corresponds to a quarterly test frequency.

It is impractical to full or part-stroke exercise these valves to the closed position on a quarterly (nominal 92 days) basis during plant operation. As stated in section 5.4.8.2 of the UFSAR, the RWCU system continuously purifies reactor water. Closure of any of the subject valves would require that the entire RWCU system be shutdown.

Additionally, closure of either 1(2)G33-F001 or 1(2)G33-F004 during normal system operation will also automatically shutdown all of the cleanup recirculation pumps. This will cause an unnecessary thermal transient on the cleanup recirculation pumps and other system components possibly leading to their premature failure.

## <u>Cold Shutdown Justification - CS-02</u> (Rev. 0) (Page 2 of 2)

System operation is generally maintained during power operation to maintain reactor water chemistry stable.

As a condition of relief to implement Code Case OMN-1, LaSalle Station has committed to continue to exercise high risk MOVs quarterly (where practicable, otherwise in cold shutdown, or in refuel outages per OMN-1, Sections 3.6.3(b) and (c)).

It is not practicable to full or part-stroke exercise the RWCU Isolation valves to the closed position nominally every 3 months per the requirements of OMN-1, Section 3.6.3(a) during normal plant operation.

### Alternative Frequency

These valves will be full-stroke exercised during cold shutdown per OMN-1 Section 3.6.3(b).

#### **References**

In the LaSalle Second 10-Year IST Interval, this Cold Shutdown Justification was identified as CS-05.

## Cold Shutdown Justification - CS-03 (Rev. 0)

(Page 1 of 2)

<u>Valve Number</u>	<u>System</u>	<u>Class</u>	Category	<u>Unit</u>
1B21-F022A	MS	1	A	1
1B21-F022B	MS	1	Α .	1
1B21-F022C	MS	1	Α	1
1B21-F022D	MS	1	Α.	1
1B21-F028A	MŠ	. 1	Α	1
1B21-F028B	MS	1	A	1
1B21-F028C	MS	1	Α	1
1B21-F028D	MS	1	A	1
2B21-F022A	MS	1	Α	2
2B21-F022B	MS	1	Α	2
2B21-F022C	MS	1	Α	2
2B21-F022D	MS	1	Α	- 2
2B21-F028A	MS	1	Α	2
2B21-F028B	MS	1	А	2
2B21-F028C	MS	1	Α	2
2B21-F028D	MS	1	A	2

### **Function**

These valves are the Main Steam inboard and outboard containment isolation valves. These valves are normally open and must be open to provide a steam flow path from the reactor, through the containment to the turbine and auxiliary loads to support plant operation. This is not a safety related function.

The subject valves have a safety function to close on a Group 1 primary containment isolation signal (PCIS).

#### Justification

It is impractical to full stroke exercise or fail-safe test these valves to the closed position on a quarterly (nominal 92 days) basis during plant operation. The MSIVs are partial stroked exercised on a quarterly basis in order to meet the MSIV scram functional test requirements identified in Technical Specification Requirement 3.3.1.1.9 and Technical Specification Table 3.3.1.1-1 Item 5.

## <u>Cold Shutdown Justification - CS-03</u> (Rev. 0) (Page 2 of 2)

As identified in UFSAR section 5.4.5.4, the performance of a full-stroke exercise to the Closed position of individual MSIVs can be performed during power operation if reactor power is reduced sufficiently to avoid a scram as a result of reactor overpressure or high flow through the stream line flow restrictors. However, NUREG-1482, Rev. 1, "Guidelines for Inservice Testing at Nuclear Power Plants" identifies in section 2.4.5 that impractical conditions justifying test deferrals may include those situations that could result in an unnecessary plant shutdown, cause unnecessary challenges to safety systems, place undue stress on components, cause unnecessary cycling of equipment, or unnecessarily reduce the life expectancy of the plant systems and components. Therefore, the full stroking of these MSIVs is practical during power operation.

#### Alternative Test

These valves will be full-stroke exercise tested to the closed position and fail-safe tested during cold shutdowns per ISTC-3521(c) and (f).

#### References

In the LaSalle Second 10-Year IST Interval, this Cold Shutdown Justification was identified as CS-08.

<u>Cold Shutdown Justification - CS-04</u> (Rev. 0) (Page 1 of 2)					
Valve Number	System	<u>Class</u>	Category	Unit	
1IN074	IN	2	Ā	1	
1IN075	IN	2	А	1	
2IN074	IN	2	А	2	
2IN075	IN	2	А	2	

#### **Function**

The subject valves are the Drywell Instrument Nitrogen Purge Containment Isolation Valves. These valves have a safety function to close to isolate the primary containment penetrations M-60 (Unit 1) and M-54 (Unit 2) to mitigate the consequences of an accident. 1(2)IN074 and 1(2)IN075 automatically isolate on a Group 10 Containment Isolation signal.

The subject valves have a non-safety related function to open to allow the Drywell Pneumatic System (IN) gases to flow to support the proper operation of pneumatically controlled or operated loads.

#### **Justification**

It is impractical to perform a full or part-stroke exercise of the subject valves during plant operation. None of the subject valves have part-stroke closure capability. The purpose of the IN system is to supply instrument quality compressed gas for the continuous operation of pneumatically controlled or operated loads mainly in the drywell during plant operation. The distribution of the compressed gas is via two headers. The regulated header supplies all of the system requirements in the drywell (MSIVs, main steam safety relief valves (SRVs), reactor recirculation sample valves, recirculation pump seal water control valves and RHR, RCIC, HPCS and LPCS testable check valves) with the exception of the ADS valves. The ADS valve accumulators are supplied by the unregulated header. Additionally there are safety related nitrogen bottles connected to the unregulated header outside of containment which will makeup gas to the unregulated header when pressure drops below 160 psig.

## <u>Cold Shutdown Justification - CS-04</u> (Rev. 0) (Page 2 of 2)

It is impractical to perform a full-stroke exercise of 1(2)IN074 and 1(2)IN075 during power operation. The closure of either of these valves would isolate the purge path for all of the IN system air dryers and the relief paths for numerous system relief valves to the drywell. There are two desiccant type air dryers for each compressor. The dryers are used to ensure that the moisture content of the compressed gas will not adversely impact the operation of the components served (MSIVs, SRVs (including ADS valves), and etc.). Closure of either valve could adversely affect the moisture quality of the IN system air. Additionally, there are numerous IN system relief valves that use the dryer purge path as a relief path for IN system gas. Closure of either valve could prevent the relief valves from relieving system pressure as required to prevent overpressurization of the system or damage to system equipment.

#### **Alternative Test**

These valves will be full-stroke exercised closed during cold shutdowns per ISTC-3521(c) and (f).

#### **References**

In the LaSalle Second 10-Year IST Interval, this Cold Shutdown Justification was identified as CS-19.

LaS	IST Prog alle County Station U	ram Plan Jnits 1 & 2. Third	Interval	
<u>C</u>	old Shutdown Ju (Re (Page	<u>ustification - C</u> v. 0) 1 of 2)	<u>S-05</u>	
<u>Valve Number</u> 11N017 2IN017	<u>System</u> IN IN	Class 2 2	<u>Category</u> A A	<u>Unit</u> 1 2

### **Function**

These valves are the Drywell Instrument Nitrogen Regulated Header Supply Containment Isolation Valves. These valves have a safety function to close to isolate the primary containment penetration M-60 (Unit 1) and M-54 (Unit 2) to mitigate the consequences of an accident. These valves automatically isolate on a Group 10 Containment Isolation signal. These valves have a non-safety related open function to provide a flow path for Nitrogen to the Main Steam Safety Relief Valve accumulators.

### **Justification**

The purpose of the IN system is to supply instrument quality compressed gas for the continuous operation of pneumatically controlled or operated loads mainly in the drywell during plant operation. The distribution of the compressed gas is via two headers. The regulated header supplies all of the system requirements in the drywell (MSIVs, main steam safety relief valves (SRV's), reactor recirculation sample valves, recirculation pump seal water control valves and RCIC testable check valves) with the exception of the ADS valves.

The MSIVs are operated by air operated pistons to cause the valves to open or assist spring pressure in closing the valves. The flow of instrument air is controlled by solenoid operated pilot valves in the air supply line. The solenoids are energized to open the MSIV. If both solenoids are deenergized, the air will be vented from the operating piston and air pressure (with spring assist) will close the valve.

It is impractical to perform a full-stroke exercise of 1(2)IN017 during power operation. The closure of 1(2)IN017 would isolate the pneumatic supply to the inboard Main Steam Isolation Valves. Loss of pressure between the Inboard MSIV Accumulator Inlet check Valve and the MSIV with this valve closed will cause the MSIV to close and the reactor to SCRAM.

#### **Alternative Test**

These valves will be full-stroke exercised closed during cold shutdowns per ISTC-3521(c) and (f).

## Cold Shutdown Justification - CS-05 (Rev. 0) (Page 2 of 2)

## **<u>References</u>**

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In the LaSalle Second 10-Year IST Interval, this Cold Shutdown Justification was identified as CS-24.

Cold Shutdown Justification - CS-06 (Rev. 0) (Page 1 of 2)						
System	Class	Category	Unit			
IN	2	B	1			
IN	2	В	1			
IN	2	В	2			
IN	2	В	2			
	<u>Cold Shutdown Ju</u> (Re (Page <u>System</u> IN IN IN IN	Cold Shutdown Justification - C (Rev. 0) (Page 1 of 2)SystemClass 2IN2IN2IN2IN2IN2IN2IN2	Cold Shutdown Justification - CS-06 (Rev. 0) (Page 1 of 2)SystemClassCategoryIN2BIN2BIN2BIN2BIN2BIN2BIN2BIN2B			

#### **Function**

These valves are the ADS Accumulator Unregulated N2 Header Drywell Containment Isolation Valves. These valves have a safety function to close to isolate the primary containment penetration, (Unit 1, penetrations M-55 and M-60, Unit 2, Penetrations M-55 and M-61), to mitigate the consequences of an accident, post-LOCA. These valves do not receive an automatic Containment Isolation signal but can be aligned post-LOCA by the control room if required. These valves exist to satisfy the requirements of 10CFR50 Appendix A, GDC 57. The ADS valves are designed, analyzed and tested to perform their required safety functions on a total loss of pneumatic supply pressure by the pressure retained in the individual accumulators by their respective check valves. This backup pressure source provides the option of using the ADS valves for long term accident mitigation.

These valves have an open safety function to allow for the supply of instrument nitrogen from either the Instrument Nitrogen System or nitrogen bottle banks to allow for the operation of the ADS valves following an accident via continuous supply to the two groups of ADS accumulators. [Ref. USAR Table 7.5-1, Note 6]

#### **Justification**

The purpose of the IN system is to supply instrument quality compressed gas for the continuous operation of pneumatically controlled or operated loads mainly in the drywell during plant operation.

It is impractical to perform a partial stroke of these valves because they are solenoid valves and do not have the ability to partially stroke. It is also impractical to full-stroke exercise of these valves to the closed position during plant operation. The closure of 1(2)IN100 or 1(2)IN101 would isolate the pneumatic supply to the individual ADS valve accumulators. This may have adverse affect on the system capability to maintain the ADS valves in the open position.

## <u>Cold Shutdown Justification – CS-06</u> (Rev. 0) (Page 2 of 2)

### **Alternative Test**

These valves will be full-stroke exercised closed during cold shutdowns per ISTC-3521(c) and (f).

### **References**

In the LaSalle Second 10-Year IST Interval, this Cold Shutdown Justification was identified as CS-26.

## <u>Cold Shutdown Justification – CS-07</u> (Rev. 0) (Page 1 of 2)

Valve Number	<u>System</u>	<u>Class</u>	Category	Unit
1B21-F010A	FW	1	A/C	1
1B21-F010B	FW	1	A/C	1
2B21-F010A	FW	1	A/C	2
2B21-F010B	FW	1	A/C	2

### **Function**

These valves are the Feedwater Check Valves located inside Containment, which also function as Containment Isolation Valves. These valves have a safety function to close (self-actuation) to isolate the primary reactor containment (penetration M-5 and M-6 respectively). Additionally, these valves have a safety function to close (self-actuation) to isolate the Reactor Coolant Pressure Boundary whenever normal feedwater flow becomes unavailable.

These valves have a non-safety function to open during normal plant operation to provide a path for feedwater flow to the reactor vessel to maintain the desired water level. Open functional testing to satisfy the bi-directional testing requirement of ISTC-5221(a) is satisfied through Operator observation performed upon transition from Cold Shutdown to power operation following the performance of a closed test.

### **Justification**

It is not practical to full-stroke these valves to the closed position on a quarterly (nominally every 3 months) basis during plant operation. The feedwater system serves as the main source of makeup water to the reactor vessel during plant operation. Closure of either of the subject valves would induce a plant transient due to reduced feedwater flow to the reactor vessel, unnecessarily challenge the plant operators and could subsequently cause a plant scram.

The only practical method to verify the full-stroke closure capability of these valves utilizing flow is by seat leakage testing. As described above, all of the subject check valves have a seat leakage limiting function as primary containment isolation valves. Therefore, these valves are individually leakage rate tested in accordance with the requirements of 10 CFR 50 Appendix J and Technical Specification Surveillance Requirement 3.6.1.1.1.

### <u>Cold Shutdown Justification – CS-07</u> (Rev. 0) (Page 2 of 2)

In order to manipulate the test connections and block valves to their proper position to perform a leakage rate test of the subject valves, an entry into the drywell is required. This is not practical during plant operation or cold shutdowns when the atmosphere in containment is inerted. The drywell at LaSalle County Station is inerted during plant operation as required by Technical Specification 3.6.3.2 to protect against a burn or explosion of hydrogen gas generated by the reactor core metal-water reaction as a result of a loss of coolant accident. Entry into the drywell during plant operation or cold shutdowns for the sole purpose of performing these leakage rate tests would require that the drywell be deinerted. Section 3.1.1.3 of NUREG-1482, Rev. 1, identifies that de-inerting during cold shutdowns for the sole purpose of performing these tests is impractical because the time and effort needed to de-inert, re-inert and replace the lost nitrogen gas could delay the return to power.

#### **Alternative Test**

These valves will be full-stroke exercised closed during cold shutdown if the drywell has been de-inerted for reasons other than Inservice Testing, or during refueling outages per ISTC-3522(b) and ISTC-3522(c). [Reference Technical Position TP-12]

#### **References**

In the LaSalle Second 10-Year IST Interval, this Cold Shutdown Justification was identified as RJ-01.

# Cold Shutdown Justification – CS-08 (Rev. 0)

(Page 1 of 3)

Valve Number	<u>System</u>	<u>Class</u>	Category	Unit
1B21-F037C1	MS	3	<u> </u>	. 1
1B21-F037C2	MS	3	С	1
1B21-F037D1	MS	3	С	1
1B21-F037D2	MS	3	С	1
1B21-F037E1	MS	3	С	1
1B21-F037E2	MS	. 3	С	1
1B21-F037F1	MS	3	С	1
1B21-F037F2	MS	3	С	1
1B21-F037H1	MS	3	С	1
1B21-F037H2	MS	3	С	1
1B21-F037K1	MS	3	C	1
1B21-F037K2	MS	3	С	1
1B21-F037L1	MS	3	С	1
1B21-F037L2	MS	3	С	1
1B21-F037M1	MS	3	С	1
1B21-F037M2	MS	3	С	1
1B21-F037P1	MS	3	С	1
1B21-F037P2	MS	3	С	. 1
1B21-F037R1	MS	3	С	1
1B21-F037R2	MS	3	С	1
1B21-F037S1	MS	3	С	1
1B21-F037S2	MS	3	С	1
1B21-F037U1	MS	3	С	1
1B21-F037U2	MS	3	С	1
1B21-F037V1	MS	3	$\mathbf{C}^{*}$	. 1
1B21-F037V2	MS	3	С	1
2B21-F037C1	MS	3	С	2
2B21-F037C2	MS	3	С	2
2B21-F037D1	MS	3	С	2
2B21-F037D2	MS	3	С	2
2B21-F037E1	MS	3	С	.2
2B21-F037E2	MS	3	C	2
2B21-F037F1	MS	3	С	2
2B21-F037F2	MS	3	. C	2
2B21-F037H1	MS	3	С	2
2B21-F037H2	MS	3	С	2
2B21-F037K1	MS	3	С	2
2B21-F037K2	MS	3	С	2
2B21-F037L1	MS	3	С	2
2B21-F037L2	MS	3	С	2

## Cold Shutdown Justification – CS-08 (Rev. 0)

(Page 2 of 3)

(continued)				
<u>Valve Number</u>	<u>System</u>	<u>Class</u>	<b>Category</b>	<u>Unit</u>
2B21-F037M1	MS	3	C	2
2B21-F037M2	MS	3	С	2 -
2B21-F037P1	MS	3	С	2
2B21-F037P2	MS	3	С	2
2B21-F037R1	MS	3	С	2
2B21-F037R2	MS	3	С	2
2B21-F037S1	MS	3	С	2
2B21-F037S2	MS	3	C	2
2B21-F037U1	MS	3	C	2
2B21-F037U2	MS	3	С	2
2B21-F037V1	MS	3	С	2
2B21-F037V2	MS	3	С	2

### **Function**

These valves are the Main Steam Relief Valve Vacuum Breakers and have a safety function to open to alleviate any vacuum that could develop within the SRV discharge line following SRV actuation. This prevents water from the suppression pool from being drawn into the affected discharge line, which could result in a serious water hammer condition upon subsequent re-actuation of the SRV.

The subject valves also have a safety related close function to prevent discharge of the SRV from being directed into the drywell.

These check valves are not "capacity certified" and are therefore only required to meet the requirements of ISTC-3522 as provided in Note 4 to Table ISTC-3500-1.

#### **Justification**

It is impractical to perform a full stroke exercise of the subject valves during plant operation or during cold shutdowns when the drywell is inerted. The only practical method available to perform a full-stroke exercise of these valves is by manually exercising the valve disk to its full open and full closed position while visually verifying valve obturator (disk) position. Access to the disk is gained from the intake port of the valve body.

### <u>Cold Shutdown Justification – CS-08</u> (Rev. 0) (Page 3 of 3)

In order to perform this test, access to the drywell area is required. Access to the drywell area is not practical during plant operation or cold shutdowns when the atmosphere in containment is inerted. The drywell at LaSalle County Station is inerted during plant operation as required by Technical Specification 3.6.3.2 to protect against a burn or explosion of hydrogen gas generated by the reactor core metal-water reaction as a result of a loss of coolant accident. Entry into the drywell during plant operation or cold shutdowns for the sole purpose of performing the exercise tests for the subject valves would require that the drywell be de-inerted. Section 3.1.1.3 of NUREG-1482, Rev. 1, identifies that de-inerting during cold shutdowns for the sole purpose of performing the sole purpose of performing these tests is impractical because the time and effort needed to de-inert, re-inert and replace the lost nitrogen gas could delay the return to power.

#### Alternative Test

These valves will be manually full-stroke exercised open and closed during cold shutdown if the drywell has been de-inerted for reasons other than Inservice Testing, or during refueling outages per ISTC-3522(b) and ISTC-3522(c). [Reference Technical Position TP-12]

#### **References**

In the LaSalle Second 10-Year IST Interval, this Cold Shutdown Justification was identified as RJ-02.

Cold Shutdown Justification – CS-09
(Rev. 0)
(Page 1 of 2)

Valve Number	<u>System</u>	Class	<b>Category</b>	<u>Unit</u>
1B21-F032A	FW	1	A/C	1
1B21-F032B	FW	1	A/C	1
2B21-F032A	FW	1	A/C	2
2B21-F032B	FW	1	A/C	2

### **Function**

The subject valves are the Feedwater Line Outboard Testable Check Valves that also function as Containment Isolation Valves. These valves have a safety related function to close (Group 2 Primary Containment Isolation System - PCIS) to isolate the primary reactor containment (penetration M-5 and M-6). Additionally, these valves have a safety related function to close (self-actuation) to isolate the Reactor Coolant Pressure Boundary whenever normal feedwater flow becomes unavailable.

These valves are equipped with a spring to assist in the valve's closure during no flow conditions. During normal operation, air is applied to the spring in order to compress the spring, preventing the spring from forcing the disk into the flow of feedwater. Upon an isolation signal, air is applied to assist the spring in driving the disk into the valve's seat. Note that the strength of the air/spring combination is not sufficient to fully close the valve during feed flow. [Reference Ops. Feedwater Training Description]

These valves have a non-safety related function to be open during normal plant operation to provide a path for feedwater flow to the reactor vessel to maintain the desired water level.

#### Justification

It is not practical to full-stroke these valves to the closed position on a quarterly basis during plant operation. The feedwater system serves as the main source of makeup water to the reactor vessel during plant operation. Full closure of either of the subject valves would induce a plant transient due to reduced feedwater flow to the reactor vessel, unnecessarily challenge to the plant and could subsequently result in a plant scram.

As identified in NUREG 1482, Rev. 1, section 4.1.5.4, if the closure of these valves on cessation or reversal of flow is required to accomplish a safety-related function, closure must be verified by reverse flow testing or such other positive means as acoustic monitoring or radiography.

### <u>Cold Shutdown Justification – CS-09</u> (Rev. 0) (Page 2 of 2)

The only practical method to verify the full-stroke closure capability of these valves utilizing flow is by seat leakage testing. As described above, all of the subject check valves have a seat leakage limiting function as primary containment isolation valves. Therefore, these valves are individually leakage rate tested in accordance with the requirements of 10 CFR 50 Appendix J and Technical Specification Surveillance Requirement 3.6.1.1.1.

In order to manipulate the test block valves to their proper position to perform a leakage rate test of the subject valves, an entry into the drywell is required. This is not practical during plant operation or cold shutdowns when the atmosphere in containment is inerted. The drywell at LaSalle County Station is inerted during plant operation as required by Technical Specification 3.6.3.2 to protect against a burn or explosion of hydrogen gas generated by the reactor core metal-water reaction as a result of a loss of coolant accident. Entry into the drywell during plant operation or cold shutdowns for the sole purpose of performing these leakage rate tests would require that the drywell be de-inerted. Section 3.1.1.3 of NUREG-1482, Rev. 1, identifies that de-inerting during cold shutdowns for the sole purpose of performing these tests is impractical because the time and effort needed to de-inert, re-inert and replace the lost nitrogen gas could delay the return to power.

#### Alternative Test

These valves will be full-stroke exercised to the open and closed position during cold shutdown if the drywell has been de-inerted for reasons other than Inservice Testing, or during refueling outages per ISTC-3522(b) and ISTC-3522(c). [Reference Technical Position TP-12]

#### References

In the LaSalle Second 10-Year IST Interval, this Cold Shutdown Justification was identified as RJ-18.

## Cold Shutdown Justification – CS-10 (Rev. 0)

### (Page 1 of 2)

Valve Number	<u>System</u>	<u>Class</u>	<b>Category</b>	<u>Unit</u>
1E12-F050A	RH	1	A/C	1
1E12-F050B	RH	1	A/C	1
2E12-F050A	RH	1	A/C	2
2E12-F050B	RH	1	A/C	2

### **Function**

These values are the RHR Shutdown Cooling Return Check Values, which also function as Pressure Isolation Values (PIV). These values have a safety related function to close to protect the low pressure RHR piping and components from reactor coolant and are considered pressure isolation values (PIV).

These values have a non-safety related function to open to allow for flow from the RHR system to the vessel during the normal shutdown cooling mode.

These normally closed testable check valves serve as the first isolation valve in the event of a system line break.

### **Justification**

It is not practical to perform a full-stroke exercise of these subject valves to the closed position during plant operation or cold shutdowns when the atmosphere in containment is inerted. The RHR Pump does not produce adequate head to flow into the vessel during power operation so these valves cannot physically be exercised during those conditions. For conditions to exist that allow for these valves to be exercised, the plant must be in either Modes 4, 5 or defueled.

The only practical method to verify the full-stroke closure capability of these valves utilizing flow is by seat leakage testing. As described above, all of the subject check valves are PIVs that have a seat leakage limiting function as reactor coolant boundary pressure isolation valves. As a result, these valves are individually leakage rate tested in accordance with the requirements of Technical Specification Surveillance Requirement 3.4.6.1.

*Revision Date:* 10/12/07

### <u>Cold Shutdown Justification – CS-10</u> (Rev. 0) (Page 2 of 2)

In order to manipulate the necessary block and test connection valves to perform a leakage rate test entry into the drywell is required. This is not practical during plant operation or cold shutdowns when the atmosphere in containment is inerted. The drywell at LaSalle County Station is inerted during plant operation as required by Technical Specification 3.6.3.. Entry into the drywell during plant operation or cold shutdowns for the sole purpose of performing these leakage rate tests would require that the drywell be de-inerted. Section 3.1.1.3 of NUREG-1482, Rev. 1, identifies that de-inerting during cold shutdowns for the sole purpose of performing these tests is impractical because the time and effort needed to de-inert, re-inert and replace the lost nitrogen gas could delay the return to power.

#### Alternative Test

The subject valves shall be full-stroke exercised to the closed position during cold shutdown if the drywell has been de-inerted for reasons other than Inservice Testing, or during refueling outages per ISTC-3522(b) and ISTC-3522(c). [Reference Technical Position TP-12]

#### **References**

In the LaSalle Second 10-Year IST Interval, this Cold Shutdown Justification was identified as RJ-19.

**Revision Date: 10/12/07** 

## <u>Cold Shutdown Justification – CS-11</u> (Rev. 0)

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Valve Number	System	<u>Class</u>	<b>Category</b>	Unit
1C41-F006	SC	1	C	1
1C41-F007	SC	1	A/C	1
2C41-F006	SC	1	С	2
2C41-F007	SC	1	A/C	2

### **Function**

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These valves are the Stand By Liquid Control (SBLC) Injection Line Inboard and Outboard Check Valves. These valves have the safety related function to open to provide a flow path for the injection of the SBLC inventory of sodium pentaborate, a neutron absorber, into the reactor which will stop the nuclear chain reaction in response to an Anticipated Transient Without Scram (ATWS) event.

These valves have a safety function to close to isolate containment penetration M-34 once either of the explosively actuated Squib Valves [i.e. 1(2)C41-F004A and B] is actuated.

### **Justification**

It is impractical to perform a full-stroke exercise of the subject valves to the open or closed position nominally every 3 months during plant operation. In order to perform a full-stroke exercise of the subject valves to the open position, the SBLC system must inject fluid into the reactor vessel. This requires actuation of at least one of the explosively actuated injection (squib) valves. (Testing procedures allow for the injection of demineralized water in lieu of the injection of the sodium pentaborate solution).

These squib valves (1(2)C41-F004A/B) are single use type valves that serve as a leakage seal between the SBLC and reactor coolant system and act as primary containment isolation valves. Once actuated, these valves's spent explosive charges and inlet chamber plug must be replaced which necessitates a system lineup that would render the SBLC system inoperable. Technical Specification 3.1.7 requires that the SBLC system be operable during Modes 1 and 2.

The injection of the sodium pentaborate solution during plant operation would cause an unnecessary negative reactivity excursion of the reactor possibly causing a plant shutdown. Injection of the sodium pentaborate solution during cold shutdowns would delay plant startup to restore the reactor coolant system water chemistry to the proper conditions.

### <u>Cold Shutdown Justification – CS-11</u> (Rev. 0) (Page 2 of 2)

Testing is achieved through the injection of cold demineralized water in lieu of the sodium pentaborate solution. Still, the injection of cold demineralized water during plant operation could cause a positive reactivity excursion of the reactor possibly causing a plant shutdown. In both injection scenarios, the explosive activation of a squib valve would result in entry into TS 3.1.7 while in either Mode 1 or 2 in order to perform subcomponent replacement.

In order to perform a closure test of the subject valves, boundary valve 1(2)C41-F008 must be isolated. This valve is located inside of the drywell. The drywell at LaSalle Country Station is inerted during plant operation as required by Technical Specification 3.6.3. Entry into the drywell during plant operation or cold shutdowns when the atmosphere in containment is inerted for the sole purpose of isolating this valve to perform a closure test of the subject valves would require that the drywell be de-inerted. Section 3.1.1.3 of NUREG-1482, Rev. 1, identifies that de-inerting during cold shutdowns for the sole purpose of performing these tests is impractical because the time and effort needed to de-inert, re-inert and replace the lost nitrogen gas could delay the return to power.

The Cold Shutdown testing at a frequency corresponding to that of TSR 3.1.7.8 for the open exercise testing is justified by ISTC-3522(a), which states that open and close tests need only be performed at an interval when it is practicable to perform both tests.

It is therefore impractical to perform a full stroke exercise test in either an open or closed direction during plant operation.

#### **Alternative Test**

These valves will be full-stroke exercised to the open and closed position during cold shutdown if the drywell has been de-inerted for reasons other than Inservice Testing, or during refueling outages on a frequency that corresponds to 24 month staggered test frequency associated with TSR 3.1.7.8 per ISTC-3522(b) and ISTC-3522(c). [Reference Technical Position TP-12]

#### **References**

In the LaSalle Second 10-Year IST Interval, this Cold Shutdown Justification was identified as RJ-26.

# Cold Shutdown Justification – CS-12 (Rev. 0)

## (Page 1 of 1)

<u>Valve Number</u>	<u>System</u>	<u>Class</u>	<b>Category</b>	<u>Unit</u>
1E51-F040	RI	2	A/C	1
2E51-F040	RI	. 2	A/C	2

### **Function**

These values are the RCIC Turbine Exhaust Check Values. These values have a safety related function to open to allow exhaust steam from the RCIC turbine to be quenched in the Suppression Pool.

These valves also have a safety related function to close for containment isolation (Penetration M-76). These valves also have a non-safety related closure function to prevent backflow from the suppression pool into the RCIC Pump turbine in the event that either 1(2)E51-F080 or 1(2)E51-F086 is closed following shutdown of the RCIC System.

### **Justification**

The RCIC system is designed to assure adequate core cooling in the event of reactor isolation from its primary heat sink and the loss of feedwater flow to the reactor vessel without actuation of any of the Emergency Core Cooling System equipment. RCIC is required to be operable whenever the plant is in Modes 1-3 when reactor pressure exceeds 150 psig in accordance with Technical Specification 3.5.3.

Closure verification of the subject valves can only be performed utilizing a leakage type test when the RCIC system is isolated and shutdown (inoperable).

It is therefore impractical to perform a full-stroke exercise of these valves to the closed position during plant operation.

#### **Alternative Test**

These valves will be full-stroke exercised to the open and closed position during cold shutdown if the drywell has been de-inerted for reasons other than Inservice Testing, or during refueling outages per ISTC-3522(b) and ISTC-3522(c). [Reference Technical Position TP-12]

#### **References**

In the LaSalle Second 10-Year IST Interval, this Cold Shutdown Justification was identified as RJ-28.

## <u>Cold Shutdown Justification – CS-13</u> (Rev. 0) (Page 1 of 2)

Valve Number	<u>System</u>	<u>Class</u>	Category	<u>Unit</u>
1(2)E51-F065	RI	1	A/C	1
1(2)E51-F066	RI	1	A/C	1
1(2)E51-F065	RI	1	A/C	2
1(2)E51-F066	RI	1	A/C	2

### **Function**

These valves are the RCIC Injection Inboard and Outboard Testable Check Valves. These valves have a safety related function to open to allow RCIC injection flow to enter the Reactor Vessel to mitigate the consequence of an accident.

These valves also have a safety related function to close to act as reactor coolant system pressure isolation valves.

### **Justification**

The RCIC system is designed to assure adequate core cooling in the event of reactor isolation from its primary heat sink and the loss of feedwater flow to the reactor vessel without actuation of any of the Emergency Core Cooling System equipment. RCIC is required to be operable whenever the plant is in Modes 1-3 when reactor pressure exceeds 150 psig in accordance with Technical Specification 3.5.3.

These valves are located in the main injection line to the reactor vessel. Closure verification of the subject valves can only be performed utilizing a leakage type test when the RCIC system is isolated and shutdown (inoperable). In order to safely (from both the standpoint of equipment and personnel safety) perform this leakage test, the reactor must be shutdown and at atmospheric pressure, (i.e. Mode 4 or 5) and a blind flange installed in the main injection line between 1(2)E51-F066 and the reactor vessel (inside the drywell). Additionally, performance of this test requires the installation of test equipment and the opening of various vent connections.

The drywell at LaSalle County Station is inerted during plant operation as required by Technical Specification 3.6.3. Entry into the drywell during plant operation or cold shutdowns for the sole purpose of performing a closure test of the subject valves would require that the drywell be de-inerted. Section 3.1.1.3 of NUREG-1482, Rev. 1, identifies that de-inerting during cold shutdowns for the sole purpose of performing these tests is impractical because the time and effort needed to de-inert, re-inert and replace the lost nitrogen gas could delay the return to power.
## <u>Cold Shutdown Justification – CS-13</u> (Rev. 0) (Page 2 of 2)

These valves are located in the main RCIC injection line to the reactor vessel downstream of the injection line isolation valve (i.e. 1(2)E51-F013). In order to perform a full-stroke open exercise 1(2)E51-F065 and 1(2)E51-F066, the RCIC pump must be started, the RCIC injection isolation valve opened, resulting in flow to the reactor vessel. The injection of RCIC system flow into the reactor vessel during power operations would inject large amounts of relatively cold water into the reactor vessel which could cause a reactivity excursion, level control problems and possible subsequent reactor scram. While this test could be performed during Modes 2- 3 conditions, per ISTC 3522(a) open and closed tests need only be performed at an interval when it is practicable to perform both tests.

It is therefore impractical to perform a full-stroke exercise of these valves to either the open or closed position during plant conditions other than Modes 4, and 5 when the drywell is deinerted.

#### Alternative Test

These valves will be full-stroke exercised to the open and closed position during cold shutdown if the drywell has been de-inerted for reasons other than Inservice Testing, or during refueling outages per ISTC-3522(b) and ISTC-3522(c). [Reference Technical Position TP-12]

#### **References**

In the LaSalle Second 10-Year IST Interval, this Cold Shutdown Justification was identified as RJ-29.

## Cold Shutdown Justification – CS-14 (Rev. 0)

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<u>Valve Number</u>	System	<u>Class</u>	Category	<u>Unit</u>
1B21-F040C	IN	2	A/C	1
1B21-F040D	IN	2	A/C	1
1B21-F040E	IN	2	A/C	1
1B21-F040R	IN	2	A/C	1
1B21-F040S	IN	2	A/C	1
1B21-F040U	IN	2	A/C	1
1B21-F040V	IN	2	A/C	1
2B21-F040C	IN	2	A/C	2
2B21-F040D	IN	2	A/C	2
2B21-F040E	IN	2	A/C	2
2B21-F040R	IN	2	A/C	2
2B21-F040S	IN	2	A/C	2
2B21-F040U	IN	2	A/C	2
2B21-F040V	IN	2	A/C	2

#### **Function**

These values are the ADS Accumulator Inlet Check Values. These values have a safety related function to close to permit the ADS values to be operated in the event of a loss of the drywell pneumatic system gas supply.

These values also have a safety related function to open to allow pressurized gas to flow to the ADS value accumulator from the safety related nitrogen bottle banks to support the operation of each values respective ADS value.

#### **Justification**

The safety function of the SRVs is to prevent overpressurization of the reactor coolant system, which could lead to failure of the reactor coolant pressure boundary.

In order to open exercise these valves to the position required to fulfill their safety function, the supported ADS valve's actuator must be stroked open, after which would necessitate the recharging of the associated ADS accumulator. Opening an ADS/SRV when at full operating pressure would cause a significant challenge to the plants operation. Such actions would result in a significant decrease in reactor pressure and result in a reduction in reactor water inventory, which could result in a plant scram. Even opening the ADS/SRV under Mode 4 conditions would result in needing to recharge the affected ADS accumulators, which would result in a delay to the resumption of power generation.

## <u>Cold Shutdown Justification – CS-14</u> (Rev. 0) (Page 2 of 3)

Based upon the following, it is also impractical to exercise these check valves during power operation for the following reasons:

As described in Relief Request RV-01, the stroking of the ADS/SRV valves in place can lead to valve through seat leakage during plant operation, as based upon industry experience and experience at LaSalle. In the previous operating cycles for Unit 1 and Unit 2 prior to the institution of RV-01, approximately 18% (i.e., 5 of 28) of the valves that were subjected to one open/close cycle developed leakage, whereas, approximately 57% (i.e., 12 of 21) of the valves that experienced more than one open/close cycle developed through seat leakage. The SRV and ADS valve leakage is directed to the pool of water in the primary containment suppression chamber causing a need to increase cooling to the pool or a plant shutdown to fix the leaking valve. Therefore, the operation of these ADS/SRVs for the sole purpose of performing an open exercise test of these check valves is not practical.

The decoupling of the ADS actuator from the SRV however would allow for actuation of the ADS without the actual opening of the SRV, thus removing the unnecessary introduction of actions that could result in potential through seat leakage of the SRV. However it must be recognized that the drywell at LaSalle County Station is inerted during plant operation as required by Technical Specification 3.6.3. To decouple the ADS actuator from the SRV, a drywell entry would be required, which would necessitate de-inerting. Section 3.1.1.3 of NUREG-1482, Rev. 1, identifies that de-inerting during cold shutdowns for the sole purpose of performing these tests is impractical because the time and effort needed to de-inert, reinert and replace the lost nitrogen gas could delay the return to power.

An alternative to the decoupling of the ADS from the SRV would involve the opening of vent valve down stream of the associated check valve, however access to that vent valve would also require entry into the drywell which would necessitate de-inerting.

It is therefore determined to be impractical to perform a full-stroke exercise of these valves to the open or closed position during plant operation or during cold shutdowns while the drywell is in inerted conditions.

#### Alternative Test

These valves will be full-stroke exercised to the open and closed position during cold shutdown if the drywell has been de-inerted for reasons other than Inservice Testing, or during refueling outages per ISTC-3522(b) and ISTC-3522(c). [Reference Technical Position TP-12]

## Cold Shutdown Justification – CS-14 (Rev. 0) (Page 3 of 3)

## **References**

(\*\* \* \*

In the LaSalle Second 10-Year IST Interval, this Cold Shutdown Justification was identified as RJ-33 (open testing) and RJ-06 (closed testing).

<u>Cold Shutdown Justification – CS-15</u> (Rev. 0) (Page 1 of 1)							
<u>Valve Number</u> 1B33-F395	<u>System</u> RR	Class 2	<u>Category</u> A/C	<u>Unit</u> 1			
2B33-F395	RR	2	A/C	2			

#### **Function**

These valves are the Reactor Recirculation Loop Process Sampling Inboard Bypass Check Valves. These valves have a safety related function to open to relieve pressure between the containment isolation valves as a result of an accident.

These check valves also have a safety related function to close to act as a containment isolation valve for penetration M-36.

#### **Justification**

The only practical method to exercise the subject valves is to perform a leakage rate test. In order to perform a leakage rate test to exercise the subject valves, an entry must be made into the drywell to setup test equipment and manipulate the block valves and test connection valves. Entry into the drywell during plant operation or cold shutdowns for the sole purpose of testing the subject valves would require that the drywell be de-inerted. Section 3.1.1.3 of NUREG-1482, Rev. 1, identifies that de-inerting during cold shutdowns for the sole purpose of performing these tests is impractical because the time and effort needed to de-inert, reinert and replace the lost nitrogen gas could delay the return to power

It is therefore impractical to perform an exercise test of the subject valves during plant operation or during cold shutdowns while the drywell is in inerted conditions.

#### **Alternative Test**

These valves will be full-stroke exercised during cold shutdown if the drywell has been deinerted for reasons other than Inservice Testing, or during refueling outages per ISTC-3522(b) and ISTC-3522(c). [Reference Technical Position TP-12]

#### **References**

In the LaSalle Second 10-Year IST Interval, this Cold Shutdown Justification was identified as RJ-36.

Cold Shutdown	Justification - CS-16
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Valve Number	<u>System</u>	Class	Category	Unit
1B21-F024A	IN	3	A/C	1
1B21-F024B	IN	3	A/C	1
1B21-F024C	IN	3	A/C	1
1B21-F024D	IN	3	A/C	1
1B21-F029A	IA	3	A/C	1
1B21-F029B	IA	3	A/C	1
1B21-F029C	IA	3	A/C	1
1B21-F029D	IA	3	A/C	1
2B21-F024A	IN	3	A/C	2
2B21-F024B	IN	3	A/C	2
2B21-F024C	IN	3	A/C	2
2B21-F024D	IN	3	A/C	2
2B21-F029A	IA	3	A/C	2
2B21-F029B	IA	3	A/C	2
2B21-F029C	IA	3	A/C	2
2B21-F029D	IA	3	A/C	2

#### **Function**

This group of valves is made up of the Inboard and Outboard MSIV Accumulator Check Valves. These check valves have a safety function to close to isolate non-safety related instrument air or nitrogen from the gas stored in its supported safety related accumulators. Accumulator pressure is required to ensure proper operation of the MSIVs to mitigate the consequences of an accident.

#### Justification

The inboard MSIV accumulator check valves are located inside primary containment. The only practical method to verify the full-stroke closure capability of these valves utilizing flow is by seat leakage testing.

In order to manipulate the test connection valves and block valves to their proper position to perform a leakage rate test of the subject valves, entry into the drywell is required. The drywell at LaSalle Country Station is inerted during plant operation as required by Technical Specification 3.6.3. Entry into the drywell during plant operation or cold shutdowns for the sole purpose of performing these leakage rate tests would require that the drywell be deinerted. Section 3.1.1.3 of NUREG-1482, Rev. 1, identifies that de-inerting during cold shutdowns for the sole purpose of performing these tests is impractical because the time and effort needed to de-inert, re-inert and replace the lost nitrogen gas could delay the return to power.

## <u>Cold Shutdown Justification – CS-16</u> (Rev. 0) (Page 2 of 2)

The only practical method of verifying the full-stroke closure capability of the outboard MSIV accumulator check valves is by seat leakage testing. This is impractical during plant operation because seat leakage testing would require isolation of the instrument air supply to at least two outboard MSIV accumulators. This removes the fast-closure (3 to 5 second) capability of the MSIVs with the depressurized accumulators. In addition, isolation of the air supply could potentially result in the closure of an MSIV at power potentially leading to a plant scram.

#### Alternative Test

These valves will be full-stroke exercised to the closed position during cold shutdown if the drywell has been de-inerted for reasons other than Inservice Testing, or during refueling outages per ISTC-3522(b) and ISTC-3522(c). [Reference Technical Position TP-12]

#### **References**

In the LaSalle Second 10-Year IST Interval, this Refueling Justification was identified as RJ-06.

LaSalle County Station Units 1 & 2, Third Interval						
<u>Cold Shutdown Justification – CS-17</u> (Rev. 0) (Page 1 of 3)						
Valve Number	System	<u>Class</u>	<b>Category</b>	<u>Unit</u>		
1E22-F005	HP	1	A/C	1		
1E21-F006	LP	1	A/C	1		
1E12-F041A	RH	1	A/C	1		
1E12-F041B	RH	1 -	A/C	1		
1E12-F041C	RH	1	A/C	1		
2E22-F005	HP	1	A/C	2		
2E21-F006	LP	1	A/C	2		
2E12-F041A	RH	1	A/C	2		

IST Program Plan

#### **Function**

2E12-F041A

2E12-F041B

2E12-F041C

These valves are the HPCS, LPCS and RHR Injection Check Valves. These valves serve as Pressure Isolation Valves (PIV), which are safety related closed functions.

RH

RH

1

1

These valves also have a safety related open function to allow for injection from their associated system. This injection flow is necessary to provide sufficient cooling to the reactor core to prevent excessive fuel cladding temperature following a break in the nuclear system piping.

#### **Justification**

#### **Open Testing**

The only method to verify a full-stroke open exercise of the valve is to flow through the valve at a rate that meets or exceeds the required maximum accident condition flow. It is not practical to provide any flow through the LPCI/RHR and LPCS valves to perform a full stroke exercise during plant operation. The LPCI/RHR and LPCS pumps have insufficient head to flow to the reactor during normal power operations. Additionally, the LPCI/RHR and LPCS injection isolation valves are interlocked to prevent their opening during plant operation when reactor coolant system pressure is > 500 psig. The reactor pressure interlock prevents the inadvertent opening of these valves during power operation to protect the lower design pressure rated LPCI/RHR and LPCS system piping located outside of the reactor containment from overpressurization.

2

2

A/C

A/C

## Cold Shutdown Justification - CS-17 (Rev. 0) (Page 2 of 3)

It is not practical to pass any flow through the HPCS system to perform a full or partstroke exercise of 1(2)E22-F005 during plant operation. HPCS is an emergency core cooling system that is designed to cool the reactor in the event of a coolant system pipe break. If the HPCS system were operated during plant operation, relatively cold water would be directly injected into the reactor at power. This could cause a reactor reactivity excursion and/or level transient that would unnecessarily challenge the plant and possibly result in a reactor scram.

#### Close Testing

In order to full stroke close these valves, the valve must first be opened against RCS pressure. During power operation, neither the LPCS nor the RHR systems are capable of developing sufficient pressure to open their subject valves against RCS pressure. While the HPCS system is capable of injecting into the RCS during power operating conditions, doing so is undesirable as the introduction of cold water to the reactor would result in undesirable power fluctuations and possible reactor trip.

In addition, the only practical method to verify the successful closure of these valves is through performing a seat leakage testing. As described above, all of the subject check valves serve as PIVs. Each PIV is assigned individual leakage rate criteria as described in Technical Specification Surveillance Requirement 3.4.6.1.

In order to perform TSR 3.4.6.1, entry into the drywell is required in order to manipulate the test connection and block valves to their necessary positions. This is not practical during plant operation or cold shutdowns when the atmosphere in containment is inerted. The drywell at LaSalle County Station is inerted during plant operation as required by Technical Specification 3.6.3. Entry into the drywell during plant operation or cold shutdowns for the sole purpose of performing these leakage rate tests would require that the drywell be de-inerted. Section 3.1.1.3 of NUREG-1482, Rev. 1, identifies that de-inerting during cold shutdowns for the sole purpose of performing these tests is impractical because the time and effort needed to de-inert, re-inert and replace the lost nitrogen gas could delay the return to power.

#### **Alternative Test**

These valves will be full-stroke exercised open and closed following each refueling outage or period of cold shutdown during which the drywell has been de-inerted for reasons other than Inservice Testing per ISTC-3522(b) and ISTC-3522(c).

Note, while it may not be necessary to de-inert the drywell to perform the open testing of these subject valves, per ISTC-3522, open and close tests need only be

## Cold Shutdown Justification - CS-17 (Rev. 0) (Page 3 of 3)

performed at an interval when it is practicable to perform both tests. As a result, the most restrictive criteria as provided above will be used.

## **References**

In the LaSalle Second 10-Year IST Interval, this Refueling Justification was identified as RJ-12 (closed testing) and RJ-17 (open testing).

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Valve Number	<u>System</u>	Class	<b>Category</b>	<u>Unit</u>
1B21-F036C	IN	3	A/C	1
1B21-F036D	IN	3	A/C	1
1B21-F036E	IN	3	A/C	1
1B21-F036F	IN	3	A/C	1
1B21-F036H	IN	3	A/C	1
1B21-F036K	IN	3	A/C	1
1B21-F036L	IN	3	A/C	· 1
1B21-F036M	IN	3	A/C	1
1B21-F036P	IN	3	A/C	1
1B21-F036R	IN	3	A/C	1
1B21-F036S	IN	3	A/C	1
1B21-F036U	IN	3	A/C	1
1B21-F036V	IN	3	A/C	1
2B21-F036C	IN	3	A/C	2
2B21-F036D	IN	3	A/C	2
2B21-F036E	IN	3	A/C	2
2B21-F036F	IN	3	A/C	2
2B21-F036H	IN	3	A/C	.2
2B21-F036K	IN	3	A/C	2
2B21-F036L	IN	3	A/C	2
2B21-F036M	IN	3	A/C	2
2B21-F036P	IN	3	A/C	2
2B21-F036R	IN	3	A/C	2
2B21-F036S	IN	3	A/C	2
2B21-F036U	IN	3	A/C	2
2B21-F036V	IN	3	A/C	2

#### **Function**

These values are the SRV Accumulator Inlet Check Values. These values have a safety related function to close to permit the SRV's to be operated in the "relief" mode in the event of a loss of the drywell pneumatic system gas supply.

These valves have a non-safety related open function to provide a flow path from the Instrument Nitrogen Receiver IN02T to the Main Steam SRV Accumulator.

#### **Justification**

The safety function of the SRVs is to prevent overpressurization of the reactor coolant system, which could lead to failure of the reactor coolant pressure boundary.

## <u>Cold Shutdown Justification – CS-18</u> (Rev. 0) (Page 2 of 2)

The SRVs function as both Safety and Relief valves, with a subset of (7) of these SRV's providing a third function of being able to provide a depressurization function. (i.e. those equipped with ADS, valves C/D/E/R/S/U/V). For power operated relief operation, each valve is provided with a pressure sensing device that is programmed with various setpoints, depending upon plant operating parameters. When the relief set pressure is reached, a solenoid valve actuates allowing air/nitrogen to provide the motive force through a pneumatic piston/cylinder and linkage assembly to open the subject SRV. Each SRV can also be operated independently in a Relief Mode from controls located in the main control room. Each SRV is provided with its own pneumatic accumulator and inlet check valve. These accumulators assure that the valve can be opened following failure of their non-safety related air supply.

The accumulators, check valves and associated test connections are physically located inside of the drywell. The drywell at LaSalle Country Station is inerted during plant operation as required by Technical Specification 3.6.3. Entry into the drywell during plant operation or cold shutdowns for the sole purpose of performing a closure test of the subject valves would require that the drywell be de-inerted. Section 3.1.1.3 of NUREG-1482, Rev. 1, identifies that de-inerting during cold shutdowns for the sole purpose of performing these tests is impractical because the time and effort needed to de-inert, re-inert and replace the lost nitrogen gas could delay the return to power.

ISTC requires that all check valves be exercise tested in both directions regardless of safety function. Open and close tests need only be performed at a frequency when it is practical to perform both tests per ISTC-3522(a).

Therefore based upon the above justification, it is impractical to perform a full-stroke exercise of these valves to the closed position during plant operation or during cold shutdowns.

#### **Alternative Test**

These valves will be full-stroke exercised to the open and closed position during cold shutdown if the drywell has been de-inerted for reasons other than Inservice Testing, or during refueling outages per ISTC-3522(b) and ISTC-3522(c). [Reference Technical Position TP-12]

#### References

In the LaSalle Second 10-Year IST Interval, this Refueling Justification was identified as RJ-32.

## Cold Shutdown Justification - CS-19 (Rev. 0) (Page 1 of 2)

Valve Number	<u>System</u>	<u>Class</u>	Category	<u>Unit</u>
1IN031	IN	2	• <u>A</u>	1
2IN031	IN	2	Α	2

#### **Function**

These valves are the Drywell Instrument Nitrogen Traversing Incore Probe (TIP) Containment Isolation Valves. These valves have a safety function to close to isolate the primary containment penetration M-47 to mitigate the consequences of an accident. These valves automatically isolate on a Group 2 Containment Isolation signal. These valves have a non-safety related open function to provide a flow path for Nitrogen to each TIP index mechanism and guide tube assembly. These valves are the only Primary Containment Isolation Valves on the penetration, and are location outside the drywell.

### **Justification**

The purpose of the IN system is to supply instrument quality compressed gas for the continuous operation of pneumatically controlled or operated loads mainly in the drywell during plant operation. Each TIP index mechanism and guide tube assembly is continuously purged with dry nitrogen from the drywell pneumatic system. This prevents changes in the drywell atmospheric humidity from affecting the quality of the flux profile. In addition, each drive mechanism is purged with dry instrument air to aid in moisture removal.

It is impractical to perform a partial stroke of these valves because they are solenoid valves and do not have the ability to partially stroke. It is also impractical to full-stroke exercise these valves to the closed position during plant operation because the testing would unnecessarily reduce the life expectancy of plant components (NUREG-1482 Revision 1 section 2.4.5). The closure of 1(2)IN031 would isolate the pneumatic supply to the TIP drive mechanism, and this may have an adverse affect on drywell atmosphere humidity from destroying the Sermetel (graphite) coating of the guide tubes, which could render the TIP system inoperable. The nitrogen purge also limits the amount of general corrosion on all interior surfaces, and thus further reduces the possibilities of component failure.

Furthermore, failure of these valves in the non-conservative position (i.e., open position) during valve cycling would result in a loss of containment integrity (NUREG-1482 revision 1 section 3.1.1(1) and 3.1.1(2)).

## Cold Shutdown Justification - CS-19 (Rev. 0) (Page 2 of 2)

## Alternative Test

These valves will be full-stroke exercised closed during cold shutdowns per ISTC-3521(c) and (f).

#### **<u>References</u>**

In the LaSalle Second 10-Year IST Interval, this Cold Shutdown Justification was identified as CS-25.

## **ATTACHMENT 8**

# REFUEL OUTAGE JUSTIFICATION INDEX

(Page 1 of 1)

<u>Refueling</u> <u>Outage</u> <u>Justification</u> <u>No.</u>	Description
RJ-01	Drywell Nitrogen Valves
RJ-02	Recirculation Pump Seal Flow Check Valves
RJ-03	RVWLIS Instrument Panel Check Valves
RJ-04	Drywell Instrument Check Valves
RJ-05	Main Steam System Alternate Shutdown Cooling Valves
RJ-06	RCIC System Check Valves
RJ-07	Excess Flow Check Valves

## ATTACHMENT 9.

## **REFUEL OUTAGE JUSTIFICATIONS**

Revision Date: 10/12/07

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## <u>Reactor Refueling Justification – RJ-01</u> (Rev. 0) (Page 1 of 2)

Valve Number	<u>System</u>	Class	Category	Unit
1IN001A	IN	2	A	1
1IN001B	IN	2	А	1
2IN001A	IN	2	Α	2
2IN001B	IN	2	A	2
			•	

#### **Function**

These valves are the Drywell Instrument Nitrogen Suction Header Isolation Valves that also function as Containment Isolation Valves. These valves have a safety function to close to isolate the primary containment (penetration M-62 on Unit 1 and penetration M-54 on Unit 2) to mitigate the consequences of an accident. The subject valves automatically isolate on a Group 10 Containment Isolation signal.

The subject valves have a non-safety function to open to allow the Drywell Pneumatic System (IN) gases to flow to support the proper operation of pneumatically controlled or operated loads located in the drywell.

The purpose of the IN system is to supply instrument quality compressed gas for the continuous operation of pneumatically controlled or operated loads located in the drywell during plant operation and during cold shutdowns. The distribution of the compressed gas is via two headers. The regulated header supplies all of the system requirements in the drywell (MSIVs, main steam safety relief valves, reactor recirculation sample valves and the recirculation pump seal water control valves) with the exception of the ADS valves. The ADS valve accumulators are supplied by the unregulated header. Additionally there are safety related nitrogen bottles connected to the unregulated header outside of containment which will makeup gas to the unregulated header when pressure drops below 160 psig.

#### **Justification**

In order to perform a closure test of either 1(2)IN001A or 1(2)IN001B, the compressors would have to be shutdown to avoid an automatic compressor trip or compressor damage. A shutdown of the compressors would cause the shutdown of the entire IN system and unnecessary cycling of plant equipment. A backup gas supply from the instrument air system via 1(2)IN059 and 1(2)IN060 is available to provide backup air to operate the components such as the SRVs (non-ADS), MSIVs (inside the drywell) and the recirculation pump seal water control valves. However, use of this air supply line may cause dilution of the inerted containment atmosphere.

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## <u>Reactor Refueling Justification – RJ-01</u> (Rev. 0) (Page 2 of 2)

The drywell at LaSalle Country Station is inerted during plant operation as required by Technical Specification 3.6.3. It is also not practical to close these subject valves during cold shutdowns as the compressors typically remain in operation and potential dilution of the inerted containment atmosphere could result in an unnecessary delay in returning the plant to power operation in order to reestablish the required inert concentration. (Ref. NUREG 1482, Rev. 1, section 3.1.1.3). It is therefore impractical to perform a full-stroke exercise of these subject valves during plant operation or cold shutdowns.

#### Alternative Test

These valves will be full-stroke exercised closed during refueling outages per ISTC-3522(c).

#### **References**

In the LaSalle Second 10-Year IST Interval, this Refueling Justification was identified as RJ-03.

<b>Reactor Refuelin</b>	<u>g Justification – RJ-02</u>

## (Rev. 0)

(Page	1	of	2)	
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Valve Number	<u>System</u>	<u>Class</u>	<b>Category</b>	<u>Unit</u>
1B33-F013A	RR	2	A/C	1
1B33-F013B	RR	2	A/C	1
1B33-F017A	RR	2	A/C	1
1B33-F017B	RR	2	A/C	1
2B33-F013A	RR	2	A/C	2
2B33-F013B	RR	2	A/C	2
2B33-F017A	RR	2	A/C	2
2B33-F017B	RR	2	A/C	2

### **Function**

These values are the Reactor Recirculation Pump Seal Flow Check Values, which also function as Containment Isolation Values. These values have a safety function to close to isolate the primary containment to mitigate the consequences of an accident.

These valves have a non-safety related function to open to allow CRD system water to pass to the reactor recirculation pump seal packages.

#### **Justification**

It is impractical to perform a full-stroke exercise test of these valves during plant operation or during cold shutdowns. These valves are in the reactor recirculation pump seal purge lines. The reactor recirculation pump seals are provided with water from the control rod drive pumps to prevent coolant flow from leaking along the reactor recirculation pump shaft out into the drywell. The seal purge provides a continuous flow of clean, cool water. It is highly desirable to maintain this flow at all times. If the seal purge flow is interrupted, a backflow of reactor coolant water may carry foreign material into the seal package, which could damage the seal surfaces and result in rapid seal wear. The seal purge line check valves are normally open during plant operation to allow cooling flow to the reactor recirculation pump seals. During plant shutdown to Mode 4 this flow path is also maintained in order to support pump operations and seal health as described above.

The only practical method of verifying the full-stroke closure capability of these valves is by seat leakage testing. It was determined in section 4.1.6 of NUREG-1482, Rev. 1, that the need to setup test equipment in order to perform a seat leakage rate test to verify valve closure is adequate justification to defer backflow testing of a check valve to a refueling outage.

## Reactor Refueling Justification – RJ-02 (Rev. 0) (Page 2 of 2)

The non-safety, bi-directional testing of these valves also requires evidence of the valves ability to travel from it's closed position to an open position. As described above, the ability to close this valve in preparation for an open test is not practical during conditions of Recirculation Pump operation or desired when RCS pressure have the potential of back flowing water containing particulate matter into the pump seals that could result in seal package degradation.

#### Alternative Test

These valves will be full-stroke exercised closed during refueling outages per ISTC-3522(c).

#### **<u>References</u>**

In the LaSalle Second 10-Year IST Interval, this Refueling Justification was identified as RJ-08.

## Reactor Refueling Justification - RJ-03 (Rev. 0)

(Page 1 of 2)

Valve Number	<u>System</u>	Class	Category	Unit
1C11-F422B	RD	2	A/C	- 1
1C11-F422D	RD	2	A/C	1
1C11-F422F	RD	2	A/C	1
1C11-F422G	RD	2	A/C	1
1C11-F423B	RD	2	A/C	1
1C11-F423D	RD	2	A/C	1
1C11-F423F	RD	2	A/C	1
1C11-F423G	RD	2	A/C	1
2C11-F422B	RD	2	A/C	2
2C11-F422D	RD	2	A/C	2
2C11-F422F	RD	2	A/C	. 2
2C11-F422G	RD	2	A/C	2
2C11-F423B	RD	2	A/C	2
2C11-F423D	RD	2	A/C	2
2C11-F423F	RD	2	A/C	2
2C11-F423G	RD	2	A/C	2

#### **Function**

These valves are the Reactor Vessel Water Level Indication System (RVWLIS) Reference Leg Continuous Backfill Panel Check Valves, which also function as Containment Isolation Valves. These valves have a safety related function to close and limit primary containment leakage in the event of an accident and to maintain the instrument reference legs full to ensure accurate reactor water level signals and indications.

These valves have a non-safety related function to open to allow a continuous flow of water from the control rod drive system into the reactor vessel level indicating system reference legs. This backfill water is provided to prevent non-condensable gases from separating in the reference legs, which could adversely affect the indication of reactor vessel level.

#### **Justification**

It is impractical to perform a full-stroke exercise of the subject valves to the closed position during plant operation or during cold shutdowns. The only practical method to verify individual valve closure is by the performance of a local leakage test to the requirement of 10 CFR 50 Appendix J and Technical Requirements Manual Technical Surveillance Requirement 3.3.n.2. This leakage test requires isolation of the reference leg backfill flow and venting and draining of piping. The isolation and draining of these

## Reactor Refueling Justification - RJ-03 (Rev. 0) (Page 2 of 2)

portions of the system is not practical during plant operation. The reference leg backfill system is designed to provide a continuous flow of water to the reactor vessel level instrument reference legs to prevent the introduction and propagation of non-condensable gases in the reference legs. The isolation of backfill flow for LLRT testing could adversely affect accuracy of the indication of reactor vessel level indication. Reactor vessel level indication is used as an input to numerous alarms and safety actuations (main turbine trip, reactor feed pump trip, HPCS actuation, PCIS, reactor recirculation trip, reactor scram and etc.).

Seat leakage testing of the subject valves during cold shutdowns is also impractical. As stated above, local leakage rate testing of the subject valves requires the isolation of the reference backfill lines, venting and draining of piping and the installation of test equipment. It was determined in section 4.1.6 of NUREG-1482, Rev. 1, that the need to setup test equipment in order to perform a seat leakage rate test to verify valve closure is adequate justification to defer backflow testing of a check valve to a refueling outage.

Bi-directional exercising requirements of ISTC-3522(a) are satisfied in the open direction during the fill and vent process of leak rate testing on a refuel outage frequency. A refuel frequency for the open exercise testing is justified by ISTC-3522(a), which states that open and close tests need only be performed at an interval when it is practicable to perform both tests.

#### **Alternative Test**

These valves will be full-stroke exercised closed during refueling outages per ISTC-3522(c).

#### References

In the LaSalle Second 10-Year IST Interval, this Refueling Justification was identified as RJ-14.

Reactor Refueling Justification - RJ-04 (Rev. 0) (Page 1 of 2)					
Valve Number	System	Class	Category	Unit	
IN018	IN	2	A/C	1	
IN043	IN	3	С	1	
IN044	IN	3	C	1	
2IN018	IN	2	A/C	2	
2IN043	IN	3	С	2	
2IN044	IN	3	C	2	

#### **Function**

Valves 1(2)IN018 are the Drywell Instrument Nitrogen Regulated Header Drywell Isolation Check Valves. These valves have the safety related closed function to isolate the primary containment (penetration M-60).

Valves 1(2)IN043 and 1(2)IN044 are the A and B ADS Accumulator Unregulated Nitrogen Header Drywell Supply Check Valves and have the safety related function to close to prevent the safety related nitrogen supply gas from the nitrogen bottle bank from being lost through the non-safety related IN header. The nitrogen bottle banks are used only when the normally operating IN system is incapable of meeting the ADS valve accumulator pressure requirements.

These subject valves have a non-safety related function to open to allow the Drywell Pneumatic System (IN) gases to flow to support the proper operation of pneumatically controlled or operated loads located in the drywell.

#### **Justification**

It is not practical to perform a full-stroke exercise of the subject valves during plant operation or during cold shutdowns. The purpose of the IN system is to supply instrument quality compressed gas for the continuous operation of pneumatically controlled or operated loads located in the drywell during plant operation and during cold shutdowns. The distribution of the compressed gas is via two headers. The regulated header supplies all of the system requirements in the drywell (MSIVs, main steam safety relief valves, reactor recirculation sample valves, recirculation pump seal water control valves and RHR, RCIC,

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## Reactor Refueling Justification - RJ-04 (Rev. 0) (Page 2 of 2)

HPCS and LPCS testable check valves) with the exception of the ADS valves. The ADS valve accumulators are supplied by the unregulated header. Additionally there are safety related nitrogen bottles connected to the unregulated header outside of containment which will makeup gas to the unregulated header when pressure drops below 160 psig.

The only practical method to verify the full-stroke closure capability of these valves utilizing flow is through seat leakage testing. As described above, 1(2)IN018 have a leakage limiting function as a containment isolation valves. Therefore, 1(2)IN018 are individually leakage rate tested in accordance with the requirements of Technical Specification Surveillance Requirement 3.6.1.1.1. In order to manipulate the test connection valves and block valves to their proper position to perform a leakage rate test of the subject valves, the regulated gas supply to the MSIVs (inside containment), main steam safety relief valves, reactor recirculation sample valves, recirculation pump seal water control valves and other components must be interrupted. This is not practical during plant operation or cold shutdowns. In addition, in order to perform leakage rate testing of the subject valves, test equipment would have to be setup. In section 4.1.6 of NUREG-1482, Rev. 1, it was determined that the need to setup test equipment is adequate justification to defer backflow testing of a check valve to a refueling outage.

The only practical method to perform a full-stroke closure exercise test of valves 1(2)IN043 and 1(2)IN044 is to perform a seat leakage type test. The ADS valves are required to be operable in Modes 1, 2 and 3 as required by Technical Specification 3.4.4. In order to manipulate the test connection valves and block valves to their proper position to perform a leakage rate test of these subject valves, the un-regulated gas supply to the ADS valves must be isolated. In addition, in order to perform leakage rate testing of the subject valves, test equipment would have to be setup. In section 4.1.6 of NUREG-1482, Rev. 1, it was determined that the need to setup test equipment is adequate justification to defer backflow testing of a check valve to a refueling outage.

## **Alternative Test**

These valves will be full-stroke exercised closed during refueling outages per ISTC-3522(c).

#### **References**

In the LaSalle Second 10-Year IST Interval, this Refueling Justification was identified as RJ-20.

## Reactor Refueling Justification - RJ-05 (Rev. 0)

(Page 1 of 2)

<u>Valve Number</u>	<u>System</u>	<u>Class</u>	<b>Category</b>	<u>Unit</u>
1B21-F020	MS	NS	В	1
1B21-F021	MS	NS	В	1
1B21-F070	MS	NS	В	1
1B21-F071	MS	. NS	В	1
1B21-F072	MS	NS	В	1
1B21-F073	MS	NS	В	1
1B21-F418A	MS	NS	В	1
1B21-F418B	MS	NS	В	1
2B21-F020	MS	NS	В	2
2B21-F021	MS	NS	В	2
2B21-F070	MS	NS	B	2
2B21-F071	MS	NS	В	2
2B21-F072	MS	NS	В	2
2B21-F073	MS	NS	В	2
2B21-F418A	MS	NS	В	2
2B21-F418B	MS	NS	В	2

#### **Function**

The valves are the Motor Operated valves in the Main Steam System. These valves have no safety function identified. These valves are used to support the operation of the MSIV Alternate Leakage Treatment (ALT) path.

#### **Justification**

As a result of a response to an NRC comment (Comment 2.C of letter dated February 5, 1996; Responses to NRC Comments-MSIV-LCS) concerning the reliability of the alternate leakage path (including boundary valves), a commitment was made to include these subject valves in the IST program.

While inclusion into the IST Program would typically prescribe that these valves be tested in accordance with ISTC-5100, and require that power operated valves be tested in accordance with the applicable requirements of ISTC-3000, which is nominally every 3 months, the commitment specifically states that these valves need only be full-stroke exercised once each refueling outage.

## Reactor Refueling Justification - RJ-05 (Rev. 0) (Page 2 of 2)

It should also be stated that per, Section 2.2.4 of NUREG-1482, Rev. 1, if a commitment is made to include a component in the IST program, the component is considered to be within the scope of the program.

#### **Alternative Test**

The subject valves shall be full-stroke exercised open and closed each refueling outage as identified in the above identified commitment.

#### **References**

In the LaSalle Second 10-Year IST Interval, this Refueling Justification was identified as RJ-23.

## Reactor Refueling Justification – RJ-06 (Rev. 0) (Page 1 of 2)

Valve Number	System	<u>Class</u>	<u>Category</u>	Unit
1E51-F030	RI	2	C	1
2E51-F030	RI	2	$\mathbf{C}_{1}$	2

#### **Function**

These valves are the RCIC Pump Suppression Pool Suction Check Valves. These valves have a safety related function to open to provide a suction flow path from the suppression pool to the RCIC pump.

These valves also have a safety related function to close to prevent the backflow of water from the RCIC suction line into either the suppression pool or Cycled (CY) Condensate Storage Tank (CST) thereby maintaining the injection header filled and pressurized.

#### **Justification**

To order to full open exercise these valves a full-flow test of the RCIC Pump while taking suction from the Suppression Pool is required. Quarterly full flow testing of the RCIC Pump is performed taking suction from the CST and discharging flow back to the CST via procedures LOS-RI-Q3 or LOS-RI-Q5.

In order to transfer suction to the Suppression Pool, a discharge flow path large enough must also be established to handle RCIC full flow back to the Suppression Pool. During Modes 1-3 would require the installation of the blind side of a spectacle flange in the return line to the CY Tank in order to maintain Primary Containment integrity, opening locked closed, manually operated Containment Isolation Valves 1(2)E51-F362 and 1(2)E51-F363 and lifting a lead which removes the interlock which keeps 1(2)E51-F022 and 1(2)E51-F059 closed if 1(2)E51-F031 is open.

Full open testing is performed during startup after refueling by lining up from the Suppression Pool through the full flow test line to the CY Tank. This transfer requires Chemistry Department approval.

It is therefore not practical to full stroke exercise this valve quarterly or during Cold Shutdowns.

#### Alternative Test

These valves will be full-stroke exercised open during refueling outages per ISTC-3522(c).

## <u>Reactor Refueling Justification - RJ-06</u> (Rev. 0) (Page 2 of 2)

## **References**

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In the LaSalle Second 10-Year IST Interval, this Refueling Justification was identified as RJ-37.

## **<u>Reactor Refueling Justification – RJ-07</u>**

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Valve Number	<u>System</u>	<u>Class</u>	Category	<u>Unit</u>
1B21-F325A	MS	2	C	1
1B21-F325B	MS	2	С	1
1B21-F325C	MS	2	С	1
1B21-F325D	MS	2	C	1
1B21-F326A	MS	2	С	1
1B21-F326B	MS	2	С	1
1B21-F326C	MS	2	С	· 1
1B21-F326D	MS	2	С	1
1B21-F327A	MS	2	С	1
1B21-F327B	MS	2	С	1
1B21-F327C	MS	2	С	1
1B21-F327D	MS	2	С	1
1B21-F328A	MS	2	С	· 1
1B21-F328B	MS	2	С	1
1B21-F328C	MS	2	С	1
1B21-F328D	MS	2	С	1
1B21-F344	NB	2	С.	1
1B21-F346	NB	2	С	1
1B21-F348	NB	2	С	1
1 <b>B21-F35</b> 0	NB	2	С	1
1B21-F353	NB	2	С	. 1
1B21-F355	NB	2	С	1
1B21-F357	NB	2	С	1
1B21-F359	NB	2	Ċ	1
1B21-F361	NB	2	С	1
1B21-F363	NB	2	С	1
1B21-F370	NB	2	С	1
1B21-F372	NB	2	С	1
1B21-F374	NB	2	С	1
1B21-F376	NB	2	С	1
1B21-F378	NB	. 2	C	1
1B21-F413A	RI	2	С	1
1B21-F413B	RI	2	С	. 1
1B21-F415A	RI	2	С	1
1B21-F415B	RI	2	С	1

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## Reactor Refueling Justification – RJ-07 (Rev. 0)

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Valve Number	<u>System</u>	<u>Class</u>	<u>Category</u>	Unit
1B21-F437	NB	2	С	1
1B21-F439	NB	2	С	1
1B21-F441	NB	2	С	1
1B21-F443	NB	2	С	1
1B21-F445A	NB	2	C ·	1
1B21-F445B	NB	2	C	1
1B21-F447	NB	2	С	1
1B21-F449	NB	2	С	1
1B21-F451	NB	2	С	1
1B21-F453	NB	2	С	1
1B21-F455A	NB	2	С	1
1B21-F455B	NB	2	C	1
1B21-F457	NB	2	· <b>C</b>	1
1B21-F459	NB	2	С	1
1B21-F461	NB	2	С	1
1B21-F463	NB	2	С	1
1B21-F465A	NB	2	С	. 1
1B21-F465B	NB	2	С	1
1B21-F467	NB	2	С	1
1B21-F469	NB	2	С	. 1
1B21-F471	NB	2	С	1
1B21-F473	NB	2	С	1
1B21-F475A	NB	2	С	1
1B21-F475B	NB	2	C	1
1B21-F570	NB	2	С	1
1B21-F571	NB	2	С	1
1B33-F301A	RR	2	С	1
1B33-F301B	RR	2	С	1
1B33-F305A	RR	2	С	1 .
1B33-F305B	RR	2	С	1
1B33-F305C	RR	2	С	1
1B33-F305D	RR	2	С	1
1B33-F307A	RR	2	С	1
1B33-F307B	RR	2	С	· 1
1B33-F307C	RR	2	С	1
1B33-F307D	RR	2	C	1 .
1B33-F311A	RR	2	С	1
1B33-F311B	RR	2	C	1
1B33-F311C	RR	2	С	1
1B33-F311D	RR	2	С	1 .

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## **<u>Reactor Refueling Justification – RJ-07</u>**

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Valve Number	<u>System</u>	<u>Class</u>	Category	Unit
1B33-F313A	RR	2	C	1
1B33-F313B	RR	2	С	1
1B33-F313C	RR	2	С	1
1B33-F313D	RR	2	С	1
1B33-F315A	RR	2	С	1
1B33-F315B	RR	2	С	1
1B33-F315C	RR	2	С	1
1B33-F315D	RR	2	С	1
1B33-F317A	RR	2	С	1
1B33-F317B	RR	2	С	1
1B33-F319A	RR	2	С	1
1B33-F319B	RR	2	С	1
1E12-F315	RH	2	С	1
1E12-F317	RH	2	С	1
1E12-F359A	RH	2	С	1
1E12-F359B	RH	2	С	1
1E12-F360A	RH	2	С	1
1E12-F360B	RH	2	С	1
1E21-F304	LP	2	С	1
1E22-F304	HP	2	С	1
1G33-F309	RT	2	С	1
1G33-F312A	RT	2	C	1
1G33-F312B	RT	2	С	1
2B21-F325A	MS	2	С	2
2B21-F325B	MS	2	C	2
2B21-F325C	MS	2	С	2
2B21-F325D	MS	2	С	2
2B21-F326A	MS	2	С	2
2B21-F326B	MS	2	С	2
2B21-F326C	MS	2	С	2
2B21-F326D	MS	2	С	2
2B21-F327A	MS	2	C	2
2B21-F327B	MS	2	С	2
2B21-F327C	MS	2	С	2
2B21-F327D	MS	2	C	2
2B21-F328A	MS	2	С	2
2B21-F328B	MS	2	С	2
2B21-F328C	MS	2	С	2
2B21-F328D	MS	2	С	2

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## **Reactor Refueling Justification – RJ-07**

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Valve Number	<u>System</u>	<u>Class</u>	<b>Category</b>	<u>Unit</u>
2B21-F344	NB	2	<u> </u>	2
2B21-F346	NB	2	С	2
2B21-F348	NB	2	С	2
2B21-F350	NB	2	С	2
2B21-F353	NB	2	С	· 2
2B21-F355	NB	2	С	2
2B21-F357	NB	2	С	2
2B21-F359	NB	2	С	-2
2B21-F361	NB	2	С	2
2B21-F363	NB	2	С	2
2B21-F370	NB	2	С	2
2B21-F372	NB	2	. C	2
2B21-F374	NB	2	С	2
2B21-F376	NB	2	С	2
2B21-F378	NB	2	С	2
2B21-F413A	RI	2	С.	2
2B21-F413B	RI	2	С	2
2B21-F415A	RI	2	С	2
2B21-F415B	RI	2	С	2
2B21-F437	NB	2	С	2
2B21-F439	NB	2	С	2
2B21-F441	NB	2	С	2
2B21-F443	NB	2	С	2
2B21-F445A	NB	2	С	2
2B21-F445B	NB	2	С	2
2B21-F447	NB	2	C	2
2B21-F449	NB	2	C	2
2B21-F451	NB	2	С	2
2B21-F453	NB	2	С	2
2B21-F455A	NB	2	С	2
2B21-F455B	NB	2	С	2
2B21-F457	NB	2	С	2
2B21-F459	NB	2	С	2
2B21-F461	NB	2	Ç	2
2B21-F463	NB	2	С	2
2B21-F465A	NB	2	С	2
2B21-F465B	NB	2	С	2
2B21-F467	NB	2	С	2
2B21-F469	NB	2	С	2
2B21-F471	NB	2	С	2

## **Reactor Refueling Justification – RJ-07**

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Valve Number	<u>System</u>	<u>Class</u>	<b>Category</b>	<u>Unit</u>
2B21-F473	NB	2	C	2
2B21-F475A	NB	2	С	2
2B21-F475B	NB	2	С	2
2B21-F570	NB	2	С	2
2B21-F571	NB	2	С	2
2B33-F301A	RR	2	С	2
2B33-F301B	RR	2	C	2
2B33-F305A	RR	2	С	2
2B33-F305B	RR	2	С	2
2B33-F305C	RR	2	С	2
2B33-F305D	RR	2	С	2
2B33-F307A	RR	2	С	2
2B33-F307B	RR	2	С	2
2B33-F307C	RR	2	С	2
2B33-F307D	RR	2	С	2
2B33-F311A	RR	2	С	2
2B33-F311B	RR	2	C	2
2B33-F311C	RR	2	C	2
2B33-F311D	RR	2	C	. 2
2B33-F313A	RR	2	С	2
2B33-F313B	RR	2	С	2
2B33-F313C	RR	2	С	2
2B33-F313D	RR	2	С	2
2B33-F315A	RR	2	С	2
2B33-F315B	RR	2	С	2
2B33-F315C	RR	2	С	2
2B33-F315D	RR	2	C ·	2
2B33-F317A	RR	2	C	2
2B33-F317B	RR	2	C	2
2B33-F319A	RR	2	C	2
2B33-F319B	RR	2	C .	2
2E12-F315	RH	2	C	2
2E12-F317	RH	2	C	2
2E12-F359A	RH	2	C	2
2E12-F359B	RH	2	C	2
2E12-F360A	RH	2	C	2
2E12-F360B	RH	2	C	2
2E21-F304	LP	2	C	2
2E22-F304	HP	2	C	2
2G33-F309	RT	2	C	2
2G33-F312A	RT	2	C	2
2G33-F312B	КТ	2	С	2

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## Reactor Refueling Justification – RJ-07 (Rev. 0) (Page 6 of 7)

#### **Function**

These values are excess flow check values that function to provide the process fluid to their support instrument. These values have a safety function to perform as Containment Isolation values in that they act to minimize the loss of fluid through them following a break in the instrument line downstream from the value.

These valves have a non-safety related function to open to allow for continued operation of their supported downstream instrument.

#### **Justification**

It is impractical to full-stroke exercise excess flow check valves to the closed position during plant operation or during cold shutdowns. These valves are controlled leakage check valves, which are designed to automatically close in the event of a downstream line rupture. Upon closing, these valves are designed to allow a controlled leakage. Exercising these valves requires that the instrumentation tubing downstream of each EFCV be depressurized or drained (as applicable) and the closure function verified by change in the amount of flow and/or verification of an audible click when the poppet seats. Draining or depressurizing the downstream side of these valves will separate the subject instrument from its source. These instruments provide indication of a large number of essential plant operational parameters. This instrumentation supplies input to a large number of reactor protection type actuations such as ECCS initiation, Primary Containment Isolation, Secondary Containment Isolation, etc. Isolation and testing of the subject valves during plant operation would render their respective instrumentation inoperable and could cause an unexpected plant transient, equipment actuations or a plant scram. Additionally, the performance of this closure test requires the installation of test equipment to monitor the expected change in flow when the valve moves to the check position. It was determined in section 4.1.6 of NUREG-1482, Rev. 1, that the need to setup test equipment in order to verify valve closure is adequate justification to defer backflow testing of a check valve to a refueling outage.

## <u>Reactor Refueling Justification – RJ-07</u> (Rev. 0) (Page 7 of 7)

The non-safety, bi-directional testing of these valves also requires evidence of the valves ability to travel from it's closed position to an open position. As described above, the ability to close this valve in preparation for an open test is not practical until conditions allow for the closure of the valve. Therefore evidence of an open test cannot be collected until following the performance of a closed test, which is performed on a refueling frequency.

#### **Alternative Test**

These valves will be full-stroke exercised closed during refueling outages per ISTC-3522(c).

Evidence of the valves ability to open is satisfied with the return to service verification of the valves supported instrument function as described in Technical Position TP-05.

#### **References**

In the LaSalle Second 10-Year IST Interval, this Refueling Justification was contained in Corporate Technical Position TP-EXE-IST-98-02.

## **ATTACHMENT 10**

## CHECK VALVE CONDITION MONITORING PLANS BASIS INDEX

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CVCM No.	Description
CM-01	A and B RHR Pump Min Flow Line Check Valves
CM-02	H2 Recombiner Suction Check Valves
CM-03	Standby Gas Treatment Service Air Check Valves
СМ-04	Discontinued during 2 <sup>nd</sup> 10-Year IST Interval; H2 Recombiner RHR Cooling Water Supply Check Valves
CM-05	RCIC Pump Min Flow Check Valves
CM-06	B RHR Fuel Pool Emergency Make Up Supply Testable Check Valves
CM-07	Rx Recirc Loop Process Sampling Inboard Bypass Check Valves
CM-08	DG Cooling Water Pump Discharge Check Valves
CM-09	Drywell Instrument N2 Regulated Header Drywell Isolation Check Valves
CM-10	RCIC Condenser Vacuum Pump Discharge Check Valves
CM-11	RCIC Turbine Exhaust Check Valves
CM-12	Discontinued during 2 <sup>nd</sup> 10-Year IST Interval; SBLC Injection Line Check Valves
CM-13	Reserved for future use
CM-14	Reserved for future use
CM-15	Reserved for future use
CM-16	Reserved for future use
CM-17	Reserved for future use
CM-18	Reserved for future use
CM-19	Reserved for future use
CM-20	Reserved for future use
CM-21	Reserved for future use
CM-22	Reserved for future use
CM-23	C RHR Pump Min Flow Line Check Valve
CM-24	RCIC Turbine Exhaust Vacuum Breaker Check Valves

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# **ATTACHMENT 11**

## CHECK VALVE CONDITION MONITORING PLANS BASIS

**Revision Date: 10/12/07** 

## Check Valve Condition Monitoring Plan Basis CM-01 (Rev. 0) (Page 1 of 3)

Valve Number	<b>System</b>	Class	Category	Unit
1E12-F046A	RH	2	C	1
1E12-F046B	RH	2	С	1
2E12-F046A	RH	2	С	2
2E12-F046B	RH	2	С	2

#### **Function**

These check valves must open to provide a flow path for the RHR pumps when circulating on minimum flow to prevent overheating and potential damage.

These valves are located between their associated Containment Penetration and their associated minimum-flow recirculation isolation valve Although from a practical perspective, these valves would close to function as Containment Isolation Valves in the event of an ECCS failure following an accident, they are not credited as CIVs because 10 CFR 50, Appendix A, General Design Criterion 56 does not permit the use of a simple check valve as the outer Containment Isolation Valve. The CIV function is satisfied by the minimum-flow recirculation isolation valves.

#### **Justification**

In accordance with ASME OM Code Appendix II, these valves are included in the station Check Valve Condition Monitoring Program. The following describes the basis for grouping the valves, failure analysis, maintenance and testing history, and planned condition monitoring activities. This plan meets the requirements of Appendix II of the ASME OM Code 2001/2003a including the limitations set forth by the NRC in 10CFR50.55a.

The intended purpose of the condition monitoring activities for the subject valves is the optimization of testing, examination and preventive maintenance activities. An analysis of the test and maintenance history has determined that the grouping of these valves is justified. This group of check valves has the same design characteristics, is installed in the same application, and experience similar service conditions.

#### **Analysis Reference**

For the Condition Monitoring analysis and justification details for this group of valves, refer to LaSalle Check Valve Condition Monitoring Plan Group CM-01 as maintained in the LaSalle Inservice Testing Program Bases Documents. This Condition Monitoring Plan documents the analysis performed that determined the groupings, specifies inservice tests, and lists any preventive maintenance activities. The Condition Monitoring

## Check Valve Condition Monitoring Plan Basis CM-01 (Rev. 0) (Page 2 of 3)

Plan then identifies the intervals associated with the designated activities and identifies the attributes for trending. CM-01 also documents the maintenance history and industry review along with the failure modes expected for this valve group.

#### **Condition Monitoring Activities**

The information in this section satisfies the requirements of ASME OM Code 2001/2003a, Appendix II section II-4000(b), Optimization of Condition Monitoring Activities. The following details the condition monitoring activities and their implementation frequencies associated with valve group CM-01:

ASSESSMENT TECHNIQUES:	TREND PARAMETER AND FREQUENCY
PARTIAL STROKE OPEN	Partial stroke open is performed quarterly per LOS- RH-Q1 by verification of flow noise through the valves upon pump start.
DISASSEMBLY AND INSPECTION	Disassembled and inspected the valve per LMP-RH- 04 every outage. This activity will inspect for worn, loose, or deformed parts and verify the open and closed capability.

In accordance with ASME OM Code ISTC-5222 and 10CFR50.55a, if for any reason the condition monitoring plan for this group of valves is discontinued, then the requirements of ISTC-3510, ITSC-3520, ISTC-3540, and ISTC-5221 shall apply to the applicable valve(s).

## **Compliance**

- a. This Plan Basis documents the valves included in the group for Condition Monitoring.
- b. LaSalle Check Valve Condition Monitoring Plan Group CM-01 documents the date and basis for inclusion of these valves in condition monitoring.
- c. LaSalle Check Valve Condition Monitoring Plan Group CM-01 documents the analysis and basis for the check valve condition monitoring program for these valves.

## Check Valve Condition Monitoring Plan Basis CM-01 (Rev. 0) (Page 3 of 3)

d. LaSalle Check Valve Condition Monitoring Plan Group CM-01 documents the failure and maintenance history patterns for the subject valves.

e. This Plan Basis and LaSalle Check Valve Condition Monitoring Plan Group CM-01 document the condition monitoring activities, attributes and bases for the intervals for each of the valves included in this Plan Basis.

# Check Valve Condition Monitoring Plan Basis CM-02 (Rev. 0)

(Page 1 of 3)

Valve Number	<u>System</u>	<u>Class</u>	<u>Category</u>	<u>Unit</u>
1HG007	HG	2	C	1
1HG016	HG	2	C	1
2HG007	HG	2	С	2
2HG016	HG	2	С	2

### **Function**

These check valves must open to provide a flow path from its unit's drywell to either its unit's hydrogen recombiner or the opposite unit's recombiner to allow cross connecting. One recombiner system is provided for each nuclear unit. Each recombiner has the capability of serving either containment; therefore, there is 100% redundancy of all components and controls [UFSAR 6.2.5.2].

These valves are not required to close since the hydrogen recombiner upstream and downstream isolation valves are closed to prevent cross connecting both containments when the opposite unit's drywell is supplying the opposite unit's recombiner.

### **Justification**

In accordance with ASME OM Code Appendix II, these valves are included in the station Check Valve Condition Monitoring Program. The following describes the basis for grouping the valves, failure analysis, maintenance and testing history, and planned condition monitoring activities. This plan meets the requirements of Appendix II of the ASME OM Code 2001/2003a including the limitations set forth by the NRC in 10CFR50.55a.

The intended purpose of the condition monitoring activities for the subject valves is the optimization of testing, examination and preventive maintenance activities. An analysis of the test and maintenance history has determined that the grouping of these valves is justified. This group of check valves has the same design characteristics, is installed in the same application, and experience similar service conditions.

## **Analysis Reference**

For the Condition Monitoring analysis and justification details for this group of valves, refer to LaSalle Check Valve Condition Monitoring Plan Group CM-02 as maintained in the LaSalle Inservice Testing Program Bases Document. This Condition Monitoring Plan documents the analysis performed that determined the groupings, specifies inservice tests, and lists any preventive maintenance activities. The Condition Monitoring

## Check Valve Condition Monitoring Plan Basis CM-02 (Rev. 0) (Page 2 of 3)

Plan then identifies the intervals associated with the designated activities and identifies the attributes for trending. CM-02 also documents the maintenance history and industry review along with the failure modes expected for this valve group.

### **Condition Monitoring Activities**

The information in this section satisfies the requirements of ASME OM Code 2001/2003a, Appendix II section II-4000(b), Optimization of Condition Monitoring Activities. The following details the condition monitoring activities and their implementation frequencies associated with valve group CM-02:

ASSESSMENT TECHNIQUES:	TREND PARAMETER AND FREQUENCY
DISASSEMBLY AND INSPECTION	Disassembled and inspected the valve every other outage. This activity will inspect for worn, loose, or deformed parts and verify the open and closed capability.
FULL STROKE OPEN	Full stroke open performed every refueling outage in conjunction with the applicable recombiner's functional test.

In accordance with ASME OM Code ISTC-5222 and 10CFR50.55a, if for any reason the condition monitoring plans for this group of valves is discontinued, then the requirements of ISTC-3510, ITSC-3520, ISTC-3540, and ISTC-5221 shall apply to the applicable valve(s).

#### **Compliance**

This plan meets the documentation requirements of Appendix II of the ASME OM Code as follows:

- a. This Plan Basis documents the valves included in the group for Condition Monitoring.
- b. LaSalle Check Valve Condition Monitoring Plan Group CM-02 documents the date and basis for inclusion of these valves in condition monitoring.
- c. LaSalle Check Valve Condition Monitoring Plan Group CM-02 documents the analysis and basis for the check valve condition monitoring program for these valves.

## Check Valve Condition Monitoring Plan Basis CM-02 (Rev. 0) (Page 3 of 3)

d. LaSalle Check Valve Condition Monitoring Plan Group CM-02 documents the failure and maintenance history patterns for the subject valves.

e. This Plan Basis and LaSalle Check Valve Condition Monitoring Plan Group CM-02 document the condition monitoring activities, attributes and bases for the intervals for each of the valves included in this Plan Basis.

### Check Valve Condition Monitoring Plan Basis CM-03 (Rev. 0) (Page 1 of 3)

Valve Number	<b>System</b>	<u>Class</u>	Category	Unit
2VG024A	VG	3	C	2
2VG025A	VG	3	С	2

#### **Function**

These check valves must close to prevent diversion of standby gas treatment system air flow to the service air system in the event of a break of the non-safety related service air system piping located upstream of the subject valve.

These valves open to provide a flow path from the service air system to the standby gas treatment system. This function is not required for safe shutdown or accident mitigation.

#### **Justification**

In accordance with ASME OM Code Appendix II, these valves are included in the station Check Valve Condition Monitoring Program. The following describes the basis for grouping the valves, failure analysis, maintenance and testing history, and planned condition monitoring activities. This plan meets the requirements of Appendix II of the ASME OM Code 2001/2003a including the limitations set forth by the NRC in 10CFR50.55a.

The intended purpose of the condition monitoring activities for the subject valves is the optimization of testing, examination and preventive maintenance activities. An analysis of the test and maintenance history has determined that the grouping of these valves is justified. This group of check valves has the same design characteristics, is installed in the same application, and experience similar service conditions.

#### **Analysis Reference**

For the Condition Monitoring analysis and justification details for this group of valves, refer to LaSalle Check Valve Condition Monitoring Plan Group CM-03 as maintained in the LaSalle Inservice Testing Program Bases Document. This Condition Monitoring Plan documents the analysis performed that determined the groupings, specifies inservice tests, and lists any preventive maintenance activities. The Condition Monitoring Plan then identifies the intervals associated with the designated activities and identifies the attributes for trending.

## Check Valve Condition Monitoring Plan Basis CM-03 (Rev. 0) (Page 2 of 3)

CM-03 also documents the maintenance history and industry review along with the failure modes expected for this valve group.

### **Condition Monitoring Activities**

The information in this section satisfies the requirements of ASME OM Code 2001/2003a, Appendix II section II-4000(b), Optimization of Condition Monitoring Activities. The following details the condition monitoring activities and their implementation frequencies associated with valve group CM-03:

ASSESSMENT TECHNIQUES:	TREND PARAMETER AND FREQUENCY
DISASSEMBLY AND INSPECTION	Disassembled and inspected every 48 months, with an allowable 25% extension. This activity will inspect for worn, loose, or deformed parts and verify the open and closed capability
ROUTINE OPERATOR ROUNDS	Flow element 2FI-SA049 is located just upstream of these in-series check valve. During operating rounds, flow is verified through the flow element, further satisfying the open testing requirement for these valves.

In accordance with ASME OM Code ISTC-5222 and 10CFR50.55a, if for any reason the condition monitoring plans for this group of valves is discontinued, then the requirements of ISTC-3510, ITSC-3520, ISTC-3540, and ISTC-5221 shall apply to the applicable valve(s).

#### Compliance

- a. This Plan Basis documents the valves included in the group for Condition Monitoring.
- b. LaSalle Check Valve Condition Monitoring Plan Group CM-03 documents the date and basis for inclusion of these valves in condition monitoring.
- c. LaSalle Check Valve Condition Monitoring Plan Group CM-03 documents the analysis and basis for the check valve condition monitoring program for these valves.

## Check Valve Condition Monitoring Plan Basis CM-03 (Rev. 0) (Page 3 of 3)

LaSalle Check Valve Condition Monitoring Plan Group CM-03 documents the failure and maintenance history patterns for the subject valves.

This Plan Basis and LaSalle Check Valve Condition Monitoring Plan Group CM-03 document the condition monitoring activities, attributes and bases for the intervals for each of the valves included in this Plan Basis.

d.

e.

## Check Valve Condition Monitoring Plan Basis CM-04 (Rev. 0) (Page 1 of 1)

The valves in this Condition Monitoring Plan were "Abandoned-In-Place" in accordance with Engineering Change (EC) 358662 during the 2<sup>nd</sup> 10-Year IST Interval. The Condition Monitoring Plan was retired shortly after the valves were "Abandoned-In-Place". The list of valves included in the Plan prior to the Plan being retired are listed below and are included for historical purposes only.

Valve Number	<u>System</u>	<u>Class</u>	<u>Category</u>	<u>Unit</u>
1HG017A	HG	2	C	1
1HG017B	HG	2	С	1
2HG017A	HG	2	С	2
2HG017B	HG	2	C	2

## Check Valve Condition Monitoring Plan Basis CM-05 (Rev. 0) (Page 1 of 2)

Valve Number	<u>System</u>	Class	<b>Category</b>	<u>Unit</u>
1E51-F021	RI	2	C	1
2E51-F021	RI	2	С	2

#### **Function**

These check valves must open to provide a flow path from the RCIC pump to the suppression pool to prevent the RCIC pump from being damaged by overheating at reduced pump discharge flow [UFSAR 5.4.6, 7.4.1.2].

These valves close to isolate the suppression pool from the RCIC system. This function is not required for safe shutdown or accident mitigation since the downstream motor operated valve (E51-F019) is relied upon for isolation of the RCIC minimum flow line [UFSAR 7.4.1, Table 6.2-21].

#### **Justification**

In accordance with ASME OM Code Appendix II, these valves are included in the station Check Valve Condition Monitoring Program. The following describes the basis for grouping the valves, failure analysis, maintenance and testing history, and planned condition monitoring activities. This plan meets the requirements of Appendix II of the ASME OM Code 2001/2003a including the limitations set forth by the NRC in 10CFR50.55a.

The intended purpose of the condition monitoring activities for the subject valves is the optimization of testing, examination and preventive maintenance activities. An analysis of the test and maintenance history has determined that the grouping of these valves is justified. This group of check valves has the same design characteristics, is installed in the same application, and experience similar service conditions.

#### **Analysis Reference**

For the Condition Monitoring analysis and justification details for this group of valves, refer to LaSalle Check Valve Condition Monitoring Plan Group CM-05 as maintained in the LaSalle Inservice Testing Program Bases Document. This Condition Monitoring Plan documents the analysis performed that determined the groupings, specifies inservice tests, and lists any preventive maintenance activities. The Condition Monitoring Plan then identifies the intervals associated with the designated activities and identifies the attributes for trending. CM-05 also documents the maintenance history and industry review along with the failure modes expected for this valve group.

## Check Valve Condition Monitoring Plan Basis CM-05 (Rev. 0) (Page 2 of 2)

### **Condition Monitoring Activities**

The information in this section satisfies the requirements of ASME OM Code 2001/2003a, Appendix II section II-4000(b), Optimization of Condition Monitoring Activities. The following details the condition monitoring activities and their implementation frequencies associated with valve group CM-05:

ASSESSMENT TECHNIQUES:	TREND PARAMETER AND FREQUENCY
PARTIAL STROKE OPEN	Partial stroke open performed quarterly in conjunction with the applicable RCIC pump test.
DISASSEMBLY AND INSPECTION	Disassembled and inspected every third outage. This activity will inspect for worn, loose, or deformed parts and verify the open and closed capability.

In accordance with ASME OM Code ISTC-5222 and 10CFR50.55a, if for any reason the condition monitoring plans for this group of valves is discontinued, then the requirements of ISTC-3510, ITSC-3520, ISTC-3540, and ISTC-5221 shall apply to the applicable valve(s).

## **Compliance**

- a. This Plan Basis documents the valves included in the group for Condition Monitoring.
- b. LaSalle Check Valve Condition Monitoring Plan Group CM-05 documents the date and basis for inclusion of these valves in condition monitoring.
- c. LaSalle Check Valve Condition Monitoring Plan Group CM-05 documents the analysis and basis for the check valve condition monitoring program for these valves.
- d. LaSalle Check Valve Condition Monitoring Plan Group CM-05 documents the failure and maintenance history patterns for the subject valves.
- e. This Plan Basis and LaSalle Check Valve Condition Monitoring Plan Group CM-05 document the condition monitoring activities, attributes and bases for the intervals for each of the valves included in this Plan Basis.

## Check Valve Condition Monitoring Plan Basis CM-06 (Rev. 0) (Page 1 of 2)

Valve Number	<u>System</u>	Class	Category	Unit
1E12-F089	RH	2	<u> </u>	1
2E12-F089	RH	2.	С	2

#### **Function**

These valves must open to provide a flow path from the fuel pool emergency make-up pump to containment for containment flooding.

These values close to prevent flow from the discharge of RHR Pump E12-C002B from being diverted when required to perform a safety-related function (i.e., LPCI, Suppression Pool Cooling, Containment Cooling) in the event of a loss of system integrity on the upstream side.

#### **Justification**

In accordance with ASME OM Code Appendix II, these valves are included in the station Check Valve Condition Monitoring Program. The following describes the basis for grouping the valves, failure analysis, maintenance and testing history, and planned condition monitoring activities. This plan meets the requirements of Appendix II of the ASME OM Code 2001/2003a including the limitations set forth by the NRC in 10CFR50.55a.

The intended purpose of the condition monitoring activities for the subject valves is the optimization of testing, examination and preventive maintenance activities. An analysis of the test and maintenance history has determined that the grouping of these valves is justified. This group of check valves has the same design characteristics, is installed in the same application, and experience similar service conditions.

#### **Analysis Reference**

For the Condition Monitoring analysis and justification details for this group of valves, refer to LaSalle Check Valve Condition Monitoring Plan Group CM-06 as maintained in the LaSalle Inservice Testing Program Bases Document. This Condition Monitoring Plan documents the analysis performed that determined the groupings, specifies inservice tests, and lists any preventive maintenance activities. The Condition Monitoring Plan then identifies the intervals associated with the designated activities and identifies the attributes for trending. CM-06 also documents the maintenance history and industry review along with the failure modes expected for this valve group.

## Check Valve Condition Monitoring Plan Basis CM-06 (Rev. 0) (Page 2 of 2)

### **Condition Monitoring Activities**

The information in this section satisfies the requirements of ASME OM Code 2001/2003a, Appendix II section II-4000(b), Optimization of Condition Monitoring Activities. The following details the condition monitoring activities and their implementation frequencies associated with valve group CM-06:

ASSESSMENT TECHNIQUES:	TREND PARAMETER AND FREQUENCY
DISASSEMBLY AND INSPECTION	Disassembled and inspected the valve every third outage. This activity will inspect for worn, loose, or deformed parts and verify the open and closed capability.

In accordance with ASME OM Code ISTC-5222 and 10CFR50.55a, if for any reason the condition monitoring plans for this group of valves is discontinued, then the requirements of ISTC-3510, ITSC-3520, ISTC-3540, and ISTC-5221 shall apply to the applicable valve(s).

## Compliance

- a. This Plan Basis documents the valves included in the group for Condition Monitoring.
- b. LaSalle Check Valve Condition Monitoring Plan Group CM-06 documents the date and basis for inclusion of these valves in condition monitoring.
- c. LaSalle Check Valve Condition Monitoring Plan Group CM-06 documents the analysis and basis for the check valve condition monitoring program for these valves.
- d. LaSalle Check Valve Condition Monitoring Plan Group CM-06 documents the failure and maintenance history patterns for the subject valves.
- e. This Plan Basis and LaSalle Check Valve Condition Monitoring Plan Group CM-06 document the condition monitoring activities, attributes and bases for the intervals for each of the valves included in this Plan Basis.

## Check Valve Condition Monitoring Plan Basis CM-07 (Rev. 0) (Page 1 of 2)

Valve Number	<u>System</u>	<u>Class</u>	Category	<u>Unit</u>
1B33-F395	RR	2	A/C	1
2B33-F395	RR	2	A/C	2

#### **Function**

These check valves are installed to relieve pressure that could develop from the thermal expansion of trapped fluid between containment isolation valves B33-F019 and B33-F020. These valves open to relieve overpressure and prevent piping rupture.

These valves must close to isolate primary containment. These valves are required to provide containment isolation for penetration M-36 [UFSAR Table 6.2-21].

#### **Justification**

In accordance with ASME OM Code Appendix II, these valves are included in the station Check Valve Condition Monitoring Program. The following describes the basis for grouping the valves, failure analysis, maintenance and testing history, and planned condition monitoring activities. This plan meets the requirements of Appendix II of the ASME OM Code 2001/2003a including the limitations set forth by the NRC in 10CFR50.55a.

The intended purpose of the condition monitoring activities for the subject valves is the optimization of testing, examination and preventive maintenance activities. An analysis of the test and maintenance history has determined that the grouping of these valves is justified. This group of check valves has the same design characteristics, is installed in the same application, and experience similar service conditions.

#### **Analysis Reference**

For the Condition Monitoring analysis and justification details for this group of valves, refer to LaSalle Check Valve Condition Monitoring Plan Group CM-07 as maintained in the LaSalle Inservice Testing Program Bases Document. This Condition Monitoring Plan documents the analysis performed that determined the groupings, specifies inservice tests, and lists any preventive maintenance activities. The Condition Monitoring Plan then identifies the intervals associated with the designated activities and identifies the attributes for trending. CM-07 also documents the maintenance history and industry review along with the failure modes expected for this valve group.

## Check Valve Condition Monitoring Plan Basis CM-07 (Rev. 0) (Page 2 of 2)

### **Condition Monitoring Activities**

The information in this section satisfies the requirements of ASME OM Code 2001/2003a, Appendix II section II-4000(b), Optimization of Condition Monitoring Activities. The following details the condition monitoring activities and their implementation frequencies associated with this valve group CM-07:

ASSESSMENT TECHNIQUES:	TREND PARAMETER AND FREQUENCY
OPEN AND CLOSE EXERCISE	Verify the ability of the valve to physically Open and Close every third outage.
LEAK RATE TESTING	Leak rate on the Appendix J Program frequency.

In accordance with ASME OM Code ISTC-5222 and 10CFR50.55a, if for any reason the condition monitoring plans for this group of valves is discontinued, then the requirements of ISTC-3510, ITSC-3520, ISTC-3540, and ISTC-5221 shall apply to the applicable valve(s).

#### **Compliance**

- a. This Plan Basis documents the valves included in the group for Condition Monitoring.
- b. LaSalle Check Valve Condition Monitoring Plan Group CM-07 documents the date and basis for inclusion of these valves in condition monitoring.
- c. LaSalle Check Valve Condition Monitoring Plan Group CM-07 documents the analysis and basis for the check valve condition monitoring program for these valves.
- d. LaSalle Check Valve Condition Monitoring Plan Group CM-07 documents the failure and maintenance history patterns for the subject valves.
- e. This Plan Basis and LaSalle Check Valve Condition Monitoring Plan Group CM-07 document the condition monitoring activities, attributes and bases for the intervals for each of the valves included in this Plan Basis.

## Check Valve Condition Monitoring Plan Basis CM-08 (Rev. 0) (Page 1 of 3)

Valve Number	<b>System</b>	<u>Class</u>	<b>Category</b>	<u>Unit</u>
0DG002	DG	3	C	Common
1DG002	DG	3	C	1
1E22-F028	HP	3	С	1
2DG002	DG	3	. C	2
2E22-F028	HP	3	С	2

#### **Function**

These check valves are the discharge pump check valves for the Division 1 and 2 DG Cooling Water Pumps and Division 3 HPCS DG Cooling Water Pumps. These valves must open to provide flow to their respective cooling loads. The cooling water flow removes heat to maintain the environmental qualification of and to prevent damage to the essential equipment and ensures a reliable onsite power source for Division 1, 2 and 3 loads.

These check valves must close to prevent reverse rotation of the idle cooling water pump due to backflow from other operating cooling water pumps that share a common lake discharge path.

#### **Justification**

In accordance with ASME OM Code Appendix II, these valves are included in the station Check Valve Condition Monitoring Program. The following describes the basis for grouping the valves, failure analysis, maintenance and testing history, and planned condition monitoring activities. This plan meets the requirements of Appendix II of the ASME OM Code 2001/2003a including the limitations set forth by the NRC in 10CFR50.55a.

The intended purpose of the condition monitoring activities for the subject valves is the optimization of testing, examination and preventive maintenance activities. An analysis of the test and maintenance history has determined that the grouping of these valves is justified. This group of check valves has the same design characteristics, is installed in the same application, and experience similar service conditions.

#### **Analysis Reference**

For the Condition Monitoring analysis and justification details for this group of valves, refer to LaSalle Check Valve Condition Monitoring Plan Group CM-08 as maintained in the LaSalle Inservice Testing Program Bases Document. This Condition Monitoring Plan

## Check Valve Condition Monitoring Plan Basis CM-08 (Rev. 0) (Page 2 of 3)

documents the analysis performed that determined the groupings, specifies inservicetests, and lists any preventive maintenance activities. The Condition Monitoring Plan then identifies the intervals associated with the designated activities and identifies the attributes for trending. CM-08 also documents the maintenance history and industry review along with the failure modes expected for this valve group.

## **Condition Monitoring Activities**

The information in this section satisfies the requirements of ASME OM Code 2001/2003a, Appendix II section II-4000(b), Optimization of Condition Monitoring Activities. The following details the condition monitoring activities and their implementation frequencies associated with valve group CM-08:

ASSESSMENT TECHNIQUES:	TREND PARAMETER AND FREQUENCY
OPEN EXERCISE	Exercise open performed quarterly in conjunction with the applicable pump test.
DISASSEMBLY AND INSPECTION	Disassembled and inspected every 4 years (except 1DG002). This activity will inspect for worn, loose, or deformed parts and verify the open and closed capability. Due to materiel condition issues with 1DG002, this valve will be tested in accordance with a special test until system configuration restraints allow returning to a 4 year disassembly and inspect frequency.

In accordance with ASME OM Code ISTC-5222 and 10CFR50.55a, if for any reason the condition monitoring plans for this group of valves is discontinued, then the requirements of ISTC-3510, ITSC-3520, ISTC-3540, and ISTC-5221 shall apply to the applicable valve(s).

#### **Compliance**

This plan meets the documentation requirements of Appendix II of the ASME OM Code as follows:

a. This Plan Basis documents the valves included in the group for Condition Monitoring.

## Check Valve Condition Monitoring Plan Basis CM-08 (Rev. 0) (Page 3 of 3)

- b. LaSalle Check Valve Condition Monitoring Plan Group CM-08 documents the date and basis for inclusion of these valves in condition monitoring.
- c. LaSalle Check Valve Condition Monitoring Plan Group CM-08 documents the analysis and basis for the check valve condition monitoring program for these valves.
- d. LaSalle Check Valve Condition Monitoring Plan Group CM-08 documents the failure and maintenance history patterns for the subject valves.
- e. This Plan Basis and LaSalle Check Valve Condition Monitoring Plan Group CM-08 document the condition monitoring activities, attributes and bases for the intervals for each of the valves included in this Plan Basis.

## Check Valve Condition Monitoring Plan Basis CM-09 (Rev. 0) (Page 1 of 3)

ategory	Unit
A/C	1
A/C	2
	A/C A/C

### **Function**

These check valves must close to isolate containment from the Drywell Pneumatic system. These valves provides containment isolation for penetration M-60 (Unit 1) and M-54 (Unit 2) [UFSAR Table 6.2-21].

These valves are normally open to provide a flow path to the MSIVs and SRVs accumulators. This function is not required for safe shutdown or accident mitigation since the drywell pneumatic supply is not safety related [UFSAR 9.3.1.3].

#### **Justification**

In accordance with ASME OM Code Appendix II, these valves are included in the station Check Valve Condition Monitoring Program. The following describes the basis for grouping the valves, failure analysis, maintenance and testing history, and planned condition monitoring activities. This plan meets the requirements of Appendix II of the ASME OM Code 2001/2003a including the limitations set forth by the NRC in 10CFR50.55a.

The intended purpose of the condition monitoring activities for the subject valves is the optimization of testing, examination and preventive maintenance activities. An analysis of the test and maintenance history has determined that the grouping of these valves is justified. This group of check valves has the same design characteristics, is installed in the same application, and experience similar service conditions.

#### **Analysis Reference**

For the Condition Monitoring analysis and justification details for this group of valves, refer to LaSalle Check Valve Condition Monitoring Plan Group CM-09 as maintained in the LaSalle Inservice Testing Program Bases Document. This Condition Monitoring Plan documents the analysis performed that determined the groupings, specifies inservice tests, and lists any preventive maintenance activities. The Condition Monitoring Plan then identifies the intervals associated with the designated activities and identifies the attributes for trending. CM-09 also documents the maintenance history and industry review along with the failure modes expected for this valve group.

## Check Valve Condition Monitoring Plan Basis CM-09 (Rev. 0) (Page 2 of 3)

### **Condition Monitoring Activities**

The information in this section satisfies the requirements of ASME OM Code 2001/2003a, Appendix II section II-4000(b), Optimization of Condition Monitoring Activities. The following details the condition monitoring activities and their implementation frequencies associated with valve group CM-09:

ASSESSMENT TECHNIQUES:	TREND PARAMETER AND FREQUENCY
OPEN EXERCISE	Verify the ability of the valve to Open is accomplished quarterly in conjunction with the quarterly stroke testing of the Rx Recirc Loop Process Sampling Inboard Isolation Valves (B33- F019) and partial stroke test of the MSIVs, which results in the need to replenish nitrogen in the MSIV, which results in flow through these check valves.
LEAK RATE TESTING	Leak rate data trend on the Appendix J Program frequency. This satisfies the closed bi-directional testing requirement of Mandatory Appendix II.

In accordance with ASME OM Code ISTC-5222 and 10CFR50.55a, if for any reason the condition monitoring plans for this group of valves is discontinued, then the requirements of ISTC-3510, ITSC-3520, ISTC-3540, and ISTC-5221 shall apply to the applicable valve(s).

## **Compliance**

- a. This Plan Basis documents the valves included in the group for Condition Monitoring.
- b. LaSalle Check Valve Condition Monitoring Plan Group CM-09 documents the date and basis for inclusion of these valves in condition monitoring.
- c. LaSalle Check Valve Condition Monitoring Plan Group CM-09 documents the analysis and basis for the check valve condition monitoring program for these valves.
- d. LaSalle Check Valve Condition Monitoring Plan Group CM-09 documents the failure and maintenance history patterns for the subject valves.

e. This Plan Basis and LaSalle Check Valve Condition Monitoring Plan Group CM-09 document the condition monitoring activities, attributes and bases for the intervals for each of the valves included in this Plan Basis.

## Check Valve Condition Monitoring Plan Basis CM-10 (Rev. 0) (Page 1 of 3)

Valve Number	<u>System</u>	<u>Class</u>	Category	Unit
1E51-F028	RI	2	A/C	1
2E51-F028	RI	2	A/C	2

#### **Function**

These valves are the RCIC Condenser Vacuum Pump Discharge Check Valves and must close to isolate containment from the RCIC system. These valves are considered containment isolation valves for Penetration M-81. [UFSAR Table 6.2-21]

These valves open to provide a flow path for the RCIC turbine barometric condenser vacuum pump exhaust to the suppression pool. The RCIC barometric condenser operates to maintain a vacuum on the turbine seals to prevent steam leakage into the RCIC room. The RCIC barometric condenser, vacuum pump, and condensate pump are non-safety, non-code components. Thus, this valve is not required to open for RCIC operability.

#### **Justification**

In accordance with ASME OM Code Appendix II, these valves are included in the station Check Valve Condition Monitoring Program. The following describes the basis for grouping the valves, failure analysis, maintenance and testing history, and planned condition monitoring activities. This plan meets the requirements of Appendix II of the ASME OM Code 2001/2003a including the limitations set forth by the NRC in 10CFR50.55a.

The intended purpose of the condition monitoring activities for the subject valves is the optimization of testing, examination and preventive maintenance activities. An analysis of the test and maintenance history has determined that the grouping of these valves is justified. This group of check valves has the same design characteristics, is installed in the same application, and experience similar service conditions.

#### Analysis Reference

For the Condition Monitoring analysis and justification details for this group of valves, refer to LaSalle Check Valve Condition Monitoring Plan Group CM-10 as maintained in the LaSalle Inservice Testing Program Bases Document. This Condition Monitoring Plan documents the analysis performed that determined the groupings, specifies inservice tests, and lists any preventive maintenance activities. The Condition Monitoring Plan then identifies the intervals associated with the designated activities and identifies the attributes for trending.

## Check Valve Condition Monitoring Plan Basis CM-10 (Rev. 0) (Page 2 of 3)

CM-10 also documents the maintenance history and industry review along with the failure modes expected for this valve group.

## **Condition Monitoring Activities**

The information in this section satisfies the requirements of ASME OM Code 2001/2003a, Appendix II section II-4000(b), Optimization of Condition Monitoring Activities. The following details the condition monitoring activities and their implementation frequencies associated with valve group CM-10:

ASSESSMENT TECHNIQUES:	TREND PARAMETER AND FREQUENCY
OPEN EXERCISE	Verify the ability of the valve to Open is accomplished quarterly in conjunction with the performance of the Condenser Vacuum Pump test.
DISASSEMBLY AND INSPECTION	Disassembled and inspected every outage. This activity will inspect for worn, loose, or deformed parts and verify the open and closed capability.
CLOSE EXERCISE	Verify the ability of the valve to Close at the Appendix J testing frequency.
LEAK RATE TESTING	Leak rate performed on the Appendix J Program frequency.

In accordance with ASME OM Code ISTC-5222 and 10CFR50.55a, if for any reason the condition monitoring plans for this group of valves is discontinued, then the requirements of ISTC-3510, ITSC-3520, ISTC-3540, and ISTC-5221 shall apply to the applicable valve(s).

#### **Compliance**

- a. This Plan Basis documents the valves included in the group for Condition Monitoring.
- b. LaSalle Check Valve Condition Monitoring Plan Group CM-10 documents the date and basis for inclusion of these valves in condition monitoring.

## Check Valve Condition Monitoring Plan Basis CM-10 (Rev. 0) (Page 3 of 3)

- c. LaSalle Check Valve Condition Monitoring Plan Group CM-10 documents the analysis and basis for the check valve condition monitoring program for these valves.
- d. LaSalle Check Valve Condition Monitoring Plan Group CM-10 documents the failure and maintenance history patterns for the subject valves.
- e. This Plan Basis and LaSalle Check Valve Condition Monitoring Plan Group CM-10 document the condition monitoring activities, attributes and bases for the intervals for each of the valves included in this Plan Basis.

## Check Valve Condition Monitoring Plan Basis CM-11 (Rev. 0) (Page 1 of 2)

Valve Number	<b>System</b>	<u>Class</u>	Category	Unit
1E51-F040	RI	2	A/C	1
2E51-F040	RI	2	A/C	2

#### **Function**

These values are the RCIC Turbine Exhaust Check Values that must open to provide a flow path from the RCIC turbine exhaust to the suppression pool during RCIC operation [UFSAR 5.4.6.3].

These valves must close to isolate containment from the RCIC system. These valves are considered a containment isolation valve for Penetration M-76. [UFSAR Table 6.2-21].

#### **Justification**

In accordance with ASME OM Code Appendix II, these valves are included in the station Check Valve Condition Monitoring Program. The following describes the basis for grouping the valves, failure analysis, maintenance and testing history, and planned condition monitoring activities. This plan meets the requirements of Appendix II of the ASME OM Code 2001/2003a including the limitations set forth by the NRC in 10CFR50.55a.

The intended purpose of the condition monitoring activities for the subject valves is the optimization of testing, examination and preventive maintenance activities. An analysis of the test and maintenance history has determined that the grouping of these valves is justified. This group of check valves has the same design characteristics, is installed in the same application, and experience similar service conditions.

#### **Analysis Reference**

For the Condition Monitoring analysis and justification details for this group of valves, refer to LaSalle Check Valve Condition Monitoring Plan Group CM-11 as maintained in the LaSalle Inservice Testing Program Bases Document. This Condition Monitoring Plan documents the analysis performed that determined the groupings, specifies inservice tests, and lists any preventive maintenance activities. The Condition Monitoring Plan then identifies the intervals associated with the designated activities and identifies the attributes for trending. CM-11 also documents the maintenance history and industry review along with the failure modes expected for this valve group.

## Check Valve Condition Monitoring Plan Basis CM-11 (Rev. 0) (Page 2 of 2)

#### **Condition Monitoring Activities**

The information in this section satisfies the requirements of ASME OM Code 2001/2003a, Appendix II section II-4000(b), Optimization of Condition Monitoring Activities. The following details the condition monitoring activities and their implementation frequencies associated with valve group CM-11:

ASSESSMENT TECHNIQUES:	TREND PARAMETER AND FREQUENCY
PARTIAL OPEN EXERCISE	Verify the ability of the valve to Partially Open is accomplished quarterly in conjunction with the performance of the RCIC Pump test LOS-RI-Q3/5
CLOSE EXERCISE	Verify the ability of the value to Close at the Appendix J testing frequency.
LEAK RATE TESTING	Leak rate on the Appendix J Program frequency.

In accordance with ASME OM Code ISTC-5222 and 10CFR50.55a, if for any reason the condition monitoring plans for this group of valves is discontinued, then the requirements of ISTC-3510, ITSC-3520, ISTC-3540, and ISTC-5221 shall apply to the applicable valve(s).

#### **Compliance**

- a. This Plan Basis documents the valves included in the group for Condition Monitoring.
- b. LaSalle Check Valve Condition Monitoring Plan Group CM-11 documents the date and basis for inclusion of these valves in condition monitoring.
- c. LaSalle Check Valve Condition Monitoring Plan Group CM-11 documents the analysis and basis for the check valve condition monitoring program for these valves.
- d. LaSalle Check Valve Condition Monitoring Plan Group CM-11 documents the failure and maintenance history patterns for the subject valves.
- e. This Plan Basis and LaSalle Check Valve Condition Monitoring Plan Group CM-11 document the condition monitoring activities, attributes and bases for the intervals for each of the valves included in this Plan Basis.

## Check Valve Condition Monitoring Plan Basis CM-12 (Rev. 0) (Page 1 of 1)

This Condition Monitoring Plan was discontinued during the 2<sup>nd</sup> 10-Year IST Interval and the valves returned to traditional ISTC testing. The list of valves included in the Plan prior to the Plan being discontinued are listed below and are included for historical purposes only.

Valve Number	<u>System</u>	<u>Class</u>	<b>Category</b>	<u>Unit</u>
1C41-F006	SC	1	AC	1
1C41-F007	SC	1	AC	1
1C41-F006	SC	1	AC	2
1C41-F007	SC	1	AC	2

# Check Valve Condition Monitoring Plan Basis CM-13 (Rev. 0) (Page 1 of 1)

## **Reserved for future use**

**Revision Date:** 10/12/07

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## Check Valve Condition Monitoring Plan Basis CM-14 (Rev. 0) (Page 1 of 1)

## **Reserved for future use**

**Revision Date: 10/12/07** 

## Check Valve Condition Monitoring Plan Basis CM-15 (Rev. 0) (Page 1 of 1)

# **Reserved for future use**

**Revision Date: 10/12/07** 

## Check Valve Condition Monitoring Plan Basis CM-16 (Rev. 0) (Page 1 of 1)

# **Reserved for future use**

**Revision Date: 10/12/07** 

## Check Valve Condition Monitoring Plan Basis CM-17 (Rev. 0) (Page 1 of 1)

## **Reserved for future use**

**Revision Date:** 10/12/07

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## Check Valve Condition Monitoring Plan Basis CM-18 (Rev. 0) (Page 1 of 1)

## **Reserved for future use**

**Revision Date: 10/12/07** 

## Check Valve Condition Monitoring Plan Basis CM-19 (Rev. 0) (Page 1 of 1)

## **Reserved for future use**

**Revision Date: 10/12/07**
# Check Valve Condition Monitoring Plan Basis CM-20 (Rev. 0) (Page 1 of 1)

# **Reserved for future use**

**Revision Date: 10/12/07** 

# Check Valve Condition Monitoring Plan Basis CM-21 (Rev. 0) (Page 1 of 1)

# **Reserved for future use**

**Revision Date:** 10/12/07

# Check Valve Condition Monitoring Plan Basis CM-22 (Rev. 0) (Page 1 of 1)

# **Reserved for future use**

**Revision Date: 10/12/07** 

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# Check Valve Condition Monitoring Plan Basis CM-23 (Rev. 0) (Page 1 of 3)

Valve Number	System	Class	Category	Unit	
1E12-F046C	RH	2	C	• 1	
2E12-F046C	RH	2	С	2	

#### **Function**

These valves are the C RHR Pump Min Flow Line Check Valves that must open to provide a flow path for the C RHR pump when running on minimum flow to prevent overheating and potential damage. These valves are located between Containment Penetration M-84 (Train B & C) and the minimum-flow recirculation isolation valve (E12-F064). Although from a practical perspective, these valves would function as a Containment Isolation Valves in the event of an ECCS failure following an accident, they are not credited as a CIV because 10 CFR 50, Appendix A, General Design Criterion 56 does not permit the use of a simple check valve as the outer Containment Isolation Valve. The CIV function is satisfied by the minimum-flow recirculation isolation valve (E12-F064).

These valves must close to prevent reverse flow from the other RHR trains from being misdirected into the C RHR flow path when the C RHR pump is idle when E12-F064 is open.

#### **Justification**

In accordance with ASME OM Code Appendix II, these valves are included in the station Check Valve Condition Monitoring Program. The following describes the basis for grouping the valves, failure analysis, maintenance and testing history, and planned condition monitoring activities. This plan meets the requirements of Appendix II of the ASME OM Code 2001/2003a including the limitations set forth by the NRC in 10CFR50.55a.

The intended purpose of the condition monitoring activities for the subject valves is the optimization of testing, examination and preventive maintenance activities. An analysis of the test and maintenance history has determined that the grouping of these valves is justified. This group of check valves has the same design characteristics, is installed in the same application, and experience similar service conditions.

# Check Valve Condition Monitoring Plan Basis CM-23 (Rev. 0) (Page 2 of 3)

### **Analysis Reference**

For the Condition Monitoring analysis and justification details for this group of valves, refer to LaSalle Check Valve Condition Monitoring Plan Group CM-23 as maintained in the LaSalle Inservice Testing Program Bases Document. This Condition Monitoring Plan documents the analysis performed that determined the groupings, specifies inservice tests, and lists any preventive maintenance activities. The Condition Monitoring Plan then identifies the intervals associated with the designated activities and identifies the attributes for trending. CM-23 also documents the maintenance history and industry review along with the failure modes expected for this valve group.

### **Condition Monitoring Activities**

The information in this section satisfies the requirements of ASME OM Code 2001/2003a, Appendix II section II-4000(b), Optimization of Condition Monitoring Activities. The following details the condition monitoring activities and their implementation frequencies associated with valve group CM-23:

ASSESSMENT TECHNIQUES:	TREND PARAMETER AND FREQUENCY
PARTIAL STROKE OPEN	Partial stroke open performed quarterly in conjunction with the applicable RHR pump test. Verification of "flow noise" by observer.
DISASSEMBLY AND EXAMINATION	Disassembled and inspected the valve every other outage. This activity will inspect for worn, loose, or deformed parts and verify the open and closed capability.

In accordance with ASME OM Code ISTC-5222 and 10CFR50.55a, if for any reason the condition monitoring plans for this group of valves is discontinued, then the requirements of ISTC-3510, ITSC-3520, ISTC-3540, and ISTC-5221 shall apply to the applicable valve(s).

### Compliance

This plan meets the documentation requirements of Appendix II of the ASME OM Code as follows:

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# Check Valve Condition Monitoring Plan Basis CM-23 (Rev. 0) (Page 3 of 3)

- a. This Plan Basis documents the valves included in the group for Condition Monitoring.
- b. LaSalle Check Valve Condition Monitoring Plan Group CM-23 documents the date and basis for inclusion of these valves in condition monitoring.
- c. LaSalle Check Valve Condition Monitoring Plan Group CM-23 documents the analysis and basis for the check valve condition monitoring program for these valves.
- d. LaSalle Check Valve Condition Monitoring Plan Group CM-23 documents the failure and maintenance history patterns for the subject valves.
- e. This Plan Basis and LaSalle Check Valve Condition Monitoring Plan Group CM-23 document the condition monitoring activities, attributes and bases for the intervals for each of the valves included in this Plan Basis.

# Check Valve Condition Monitoring Plan Basis CM-24 (Rev. 0)

(Page 1 of 2)

Valve Number	<u>System</u>	<u>Class</u>	<b>Category</b>	<u>Unit</u>
1E51-F082	RI	2	C	1
1E51-F084	RI	2	С	1
2E51-F082	RI	2	С	2
2E51-F084	RI	2	С	2

## **Function**

These valves are the RCIC Turbine Exhaust Vacuum Breaker Downstream and Upstream Check Valves. These valves must open to provide a flow path from the suppression chamber to the RCIC system exhaust line to equalize pressure and prevent vacuum formation in the exhaust line [UFSAR 6.2.4.2.3].

These valves must close to the prevent flow of steam into the suppression chamber air space during turbine operation. This function ensures that the RCIC steam exhaust is directed to and condensed in the suppression pool [UFSAR 6.2.4.2.3].

### **Justification**

In accordance with ASME OM Code Appendix II, these valves are included in the station Check Valve Condition Monitoring Program. The following describes the basis for grouping the valves, failure analysis, maintenance and testing history, and planned condition monitoring activities. This plan meets the requirements of Appendix II of the ASME OM Code 2001/2003a including the limitations set forth by the NRC in 10CFR50.55a.

The intended purpose of the condition monitoring activities for the subject valves is the optimization of testing, examination and preventive maintenance activities. An analysis of the test and maintenance history has determined that the grouping of these valves is justified. This group of check valves has the same design characteristics, is installed in the same application, and experience similar service conditions.

#### **Analysis Reference**

For the Condition Monitoring analysis and justification details for this group of valves, refer to LaSalle Check Valve Condition Monitoring Plan Group CM-24 as maintained in the LaSalle Inservice Testing Program Bases Document. This Condition Monitoring Plan documents the analysis performed that determined the groupings, specifies inservice tests, and lists any preventive maintenance activities. The Condition Monitoring Plan then identifies the intervals associated with the designated activities and identifies

# Check Valve Condition Monitoring Plan Basis CM-24 (Rev. 0) (Page 2 of 2)

the attributes for trending. CM-24 also documents the maintenance history and industry review along with the failure modes expected for this valve group.

#### **Condition Monitoring Activities**

The information in this section satisfies the requirements of ASME OM Code 2001/2003a, Appendix II section II-4000(b), Optimization of Condition Monitoring Activities. The following details the condition monitoring activities and their implementation frequencies associated with valve group CM-24:

ASSESSMENT TECHNIQUES:	TREND PARAMETER AND FREQUENCY
OPEN EXERCISE	Verify the ability of the valve to Open is accomplished on a two refueling outage frequency with the performance of LTS-100-20.
CLOSE EXERCISE	Verify the ability of the valve to Open is accomplished on a two refueling outage frequency with the performance of LTS-100-20.

In accordance with ASME OM Code ISTC-5222 and 10CFR50.55a, if for any reason the condition monitoring plans for this group of valves is discontinued, then the requirements of ISTC-3510, ITSC-3520, ISTC-3540, and ISTC-5221 shall apply to the applicable valve(s).

#### **Compliance**

This plan meets the documentation requirements of Appendix II of the ASME OM Code as follows:

- a. This Plan Basis documents the valves included in the group for Condition Monitoring.
- b. LaSalle Check Valve Condition Monitoring Plan Group CM-24 documents the date and basis for inclusion of these valves in condition monitoring.
- c. LaSalle Check Valve Condition Monitoring Plan Group CM-24 documents the analysis and basis for the check valve condition monitoring program for these valves.
- d. LaSalle Check Valve Condition Monitoring Plan Group CM-24 documents the failure and maintenance history patterns for the subject valves.
- e. This Plan Basis and LaSalle Check Valve Condition Monitoring Plan Group CM-24 document the condition monitoring activities, attributes and bases for the intervals for each of the valves included in this Plan Basis.

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# **ATTACHMENT 12**

# STATION TECHNICAL POSITION INDEX

<u>Technical</u> Position No.	Description
TP-01	Bi-directional Testing of Check Valves
TP-02	Passive Valves without Test Requirements
TP-03	Fail Safe Testing of Valves
TP-04	Manual Valve Exercise Frequency
TP-05	Check Valves in Regular Use
TP-06	Categorization of IST Pumps (Group A or B)
TP-07	Water Leg Pump Check Valves
TP-08	Thermal Relief Valves
TP-09	Classification of Skid-mounted Components
TP-10	Excess Flow Check Valve Testing
TP-11	Testing of Power Operated Valves with Both Active and Passive
	Safety Functions.
TP-12	Cold Shutdown Testing
TP-13	Comprehensive Pump Testing Reference Point Determination

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# **ATTACHMENT 13**

# **STATION TECHNICAL POSITIONS**

**Revision Date:** 10/12/07

# Technical Position TP-01 (Rev. 0) (Page 1 of 3)

### **Bi-directional Testing of Check Valves with Non-Safety Positions**

#### Purpose

The purpose of this Technical Position is to establish the station position for the verification of the non-safety direction exercise testing of check valves by normal plant operations.

#### Applicability

This Technical Position is applicable to those valves that are included in the Inservice Testing Program whose open or close function is a non-safety function. This position applies to those check valves required to be tested in accordance with Subsection ISTC (ASME OM Code 2001 Edition through 2003 Addenda) and Appendix II. This Technical Position does not apply to testing of the safety function (direction) of check valves included in the Inservice Testing Program.

#### **Background**

The ASME OM Code 2001 through 2003 Addenda section ISTC-3550, "Valves in Regular Use", states:

"Valves that operate in the course of plant operation at a frequency that would satisfy the exercising requirements of this Subsection need not be additionally exercised, provided that the observations otherwise required for testing are made and analyzed during such operation and recorded in the plant record at intervals no greater than specified in ISTC-3510."

Section ISTC-3510 requires that check valves shall be exercised nominally every 3 months with exceptions (for extended periods) referenced.

Section ISTC-3522(a) requires that each check valve exercise test shall include open and close tests.

Section ISTC-5221(a)(2) states:

"Check valves that have a safety function in only the open direction shall be exercised by initiating flow and observing that the obturator has traveled to either the full open position or to the position required to perform its intended function(s) (see ISTC-1100), and verify closure."

# Technical Position TP-01 (Rev. 0)

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#### Section ISTC-5221(a)(3) states:

"Check values that have a safety function in only the close direction shall be exercised by initiating flow and observing that the obturator has traveled [to] at least the partially open position,<sup>3</sup> and verify that on cessation or reversal of flow, the obturator has traveled to the seat."

"<sup>3</sup>The partially open position should correspond to the normal or expected system flow."

Appendix II Section II-4000 requires that valve obturator movement during applicable test or examination activities shall be sufficient to determine the bidirectional functionality of the moving parts.

Normal and/or expected system flow may vary with plant configuration and alignment. LaSalle Country Station Operations staff is trained in recognizing normal plant conditions. For check valves that have a non-safety related function in the open position, Operator judgment has been deemed acceptable in determining whether or not the normal or expected flow rates for plant operation has been obtained. For check valves that have a non-safety related function in the closed position, Operator judgment is also deemed acceptable in determining whether or not flow cessation has occurred resulting in obturator travel to the closed position.

#### **Position**

LaSalle County Station will verify the non-safety position of check valves included in the Inservice Testing Program using the plant surveillance program. In lieu of a dedicated surveillance to perform the non-safety direction testing, the following alternate verifications may be performed as follows:

1. An appropriate means shall be determined which establishes the method for validating the open/closed non-safety function of the check valve during normal operations. The validation may be by direct indicator, or by other positive means such as changes in system pressure, flow rate, level, temperature, seat leakage, etc.

# Technical Position TP-01 (Rev. 0) (Page 3 of 3)

- 2. Verification that a check valve is satisfying its non-safety direction function may be accomplished by observation and/or analysis of plant activities. For an example, consider a check valve that has a safety function only in the closed direction and normally provides a flow path to maintain plant operations. If this check valve does not open to pass flow when required, an alarm or indication would identify a problem to the operator. The operator would respond by taking the appropriate actions. An Issue Report would then be generated for the abnormal plant condition, which would identify the check valve failure.
- 3. Observation and analysis of plant logs and other records is an acceptable method for verifying a check valve's non-safety direction function verification during normal plant operations.

The performance of the open/closed non-safety function shall be recorded at a frequency required by ISTC-3510, nominally every 3 months, (with exceptions as allowed), in plant records such as the LaSalle County Station Operating Logs, Electronic Rounds, chart recorders, automated data loggers, surveillances, etc. Records as indicated above in 1 through 3 are satisfactory for the non-safety direction testing. An Issue Report shall be generated for any issues regarding check valve operability.

### **Justification**

This Technical Position establishes the acceptability of the methods used in determining the ability of a valve to satisfy its non-safety function. Through normal plant system operation and Operator actions, a valve's non-safety function can be verified through either observation or analysis of plant records and logs. Additionally, the recording of parameters that demonstrate valve position will take place at a frequency to meet the frequency requirements of ISTC-3510. These actions collectively demonstrate the non-safety position of Inservice Testing Program check valves in regular use as required by ISTC-3550.

### **History**

In the LaSalle Second 10-Year IST Interval, the Technical Position addressing testing of check valves with non-safety positions was Corporate Technical Position TP-EXE-IST-01-01, Rev. 1.

# Technical Position TP-02 (Rev. 0) (Page 1 of 1)

### Passive Valves Without Test Requirements

### **Purpose**

The purpose of this Technical Position is to establish the station position for valves with passive safety functions.

#### **Applicability**

This Technical Position is applicable to valves with a passive function in accordance with ISTA-2000 and do not have inservice testing requirements per Table ISTC-3500-1. This position is typical of Category B, passive valves that do not have position indication.

An example is a manual valve that must remain in its normal position during an accident to perform its intended function.

Typically, manual valves that perform a safety function are maintained in their safety position and administratively controlled by LaSalle County Station procedures. These valves would be considered passive. If they do not have remote position indicating systems and are categorized as B, they would not be subjected to any test requirements in accordance with Table ISTC-3500-1.

#### **Position**

The LaSalle County Station Inservice Testing Program, Valve Tables - Attachment 17, will not list valves that meet the following criteria.

- The valve is Category B in accordance with ISTC-1300 (seat leakage in the closed position is inconsequential for fulfillment of the required function(s)).
- The valve is considered passive in accordance with ISTA-2000 (valve maintains obturator position and is not required to change obturator position to accomplish the required function(s)).

The valve does not have a remote position indicating system that detects and indicates valve position.

#### **Justification**

Valves that meet this position will not be listed in the LaSalle County Station Inservice Testing Program, Valve Tables - Attachment 17.

# Technical Position TP-03 (Rev. 0) (Page 1 of 1)

## Fail Safe Testing of Valves

### Purpose

The purpose of this Technical Position is to establish the station position for fail safe testing of valves in conjunction with stroke time exercising or position indication testing.

### Applicability

This Technical Position is applicable to valves with fail-safe actuators requiring testing in accordance with ISTC-3560.

### **Background**

The ASME OM Code 2001 through 2003 Addenda section ISTC-3560 requires;

"Valves with fail-safe actuators shall be tested by observing the operation of the actuator upon loss of valve actuating power in accordance with the exercising frequency of ISTC-3510."

Section ISTC-3510 states;

"Active Category A, Category B, and Category C check valves shall exercised nominally every 3 months..."

#### **Position**

(.....

In cases where the valve operator moves the valve to the open or closed position following de-energizing the operator electrically, by venting air, or both, the resultant valve exercise satisfies the fail safe test requirement and an additional test specifically for fail safe testing will not be performed.

#### **Justification**

Fail Safe Testing ensures the ability of the fail safe mechanism of the valve to position the valve to the fail safe position. Whether or not the actuation of this fail safe mechanism is due to Operator Action or failure of either the valve's air or electric power source, the resultant action of the valve will be the same. Therefore, credit for the verification of a valve's fail safe ability can be taken based on the successful performance of either stroke time exercising or position indication testing.

# Technical Position TP-04 (Rev. 0)

(Page 1 of 2)

### Manual Valve Exercise Frequency

### **Purpose**

The purpose of this Technical Position is to establish the station position for the frequency of exercising those manual valves requiring exercising.

### Applicability

This Technical Position is applicable to the manual valves included in the Inservice Testing Program.

### **Background**

The ASME OM Code 2001 through 2003 Addenda section ISTC-3540 states;

"Manual valves shall be full-stroke exercised at least once every 5 years, except where adverse conditions<sup>2</sup> may require the valve to be tested more frequently to ensure operational readiness."

<sup>2</sup>Harsh service environment, lubricant hardening, corrosive or sediment laden process fluid, or degraded valve components are some examples of adverse conditions.

In 10CFR 50.55a(b)(3)(vi), the NRC stated the following with regards to manual valve exercise frequency;

"Manual valves must be exercised on a 2-year interval rather that the 5-year interval specified in paragraph ISTC-3540 of the 1999 Addenda through the latest edition and addenda incorporated by reference in paragraph (b)(3) of this section, provided that adverse conditions do not require more frequent testing."

Which as written, includes the 2001/2003a of the ASME Code.

#### **Position**

LaSalle County Station will perform exercising of manual valves within the scope of the IST Program at a frequency not to exceed 2 years.

# Technical Position TP-04 (Rev. 0)

(Page 2 of 2) (

# **Justification**

The NRC Rule Change has been adopted for the frequency of exercising manual valves at least once every 2 years. This interval is more frequent than required by the Edition of the Code used by LaSalle County Station, therefore no other justification is required.

# Technical Position TP-05 (Rev. 0) (Page 1 of 2)

### **Check Valves in Regular Use**

#### Purpose

The purpose of this Technical Position is to establish the station position for exercise testing of check valves that are in regular use during normal plant operations.

#### **Applicability**

This Technical Position is applicable to check valves that are capable of being demonstrated to be open during routine operations.

#### **Background**

The ASME OM Code 2001 through 2003 Addenda section ISTC-3550, "Valves in Regular Use", states:

"Valves that operate in the course of plant operation at a frequency that would satisfy the exercising requirements of this Subsection need not be additionally exercised, provided that the observations otherwise required for testing are made and analyzed during such operation and recorded in the plant record at intervals no greater than specified in ISTC-3510."

Section ISTC-3510 requires that check valves shall be exercised nominally every 3 months with exceptions (for extended periods) referenced.

Normal and/or expected system flow may vary with plant configuration and alignment. Since the LaSalle County Station Operations staff is trained so as to be able to recognize normal plant conditions, Operator judgment has been deemed acceptable for the purpose of determining check valve open demonstration by observing either normal or expected flow rates for the plant operating condition.

#### **Position**

LaSalle County Station will verify the open position of these subject check valves by observing plant logs, computer systems, strip chart recorders, etc., during normal plant operations. The open/closed safety function shall be recorded at a frequency required by ISTC-3510, nominally every 3 months, (with exceptions as provided), in plant records such as LaSalle County Station Operating Logs, Electronic Rounds, chart recorders, automated data loggers, surveillances, etc.

## Technical Position TP-05 (Rev. 0)

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## **Justification**

Normal plant systems operation and operator actions provide for the observations and analysis that these valves are capable of satisfying their open safety function. Additionally, the recording of parameters that demonstrate valve position will take place at a frequency in accordance with ISTC-3510. These actions collectively demonstrate the open safety function of Inservice Testing Program check valves in regular use as required by ISTC-3550.

# Technical Position TP-06 (Rev. 1) (Page 1 of 3)

## Categorization of IST Pumps (Group A or B)

#### **Position**

The LaSalle County Station has categorized the pumps that are required to be included in the Inservice Testing Program<sup>a</sup> as either Group A or B in accordance with the requirements of ISTB-1300.

Group A pumps are pumps that are operated continuously or routinely during normal operation, cold shutdown, or refueling operations. The following pumps are categorized as Group A at the LaSalle County Station:

Pump EPN	Class	Group	Туре	Function
0DG01P	3	A	Centrifugal	DG Cooling Water
1DG01P	3	A	Centrifugal	DG Cooling Water
1E12-C002A	2	A	Vertical	RHR Pump
1E12-C002B	2	Α	Vertical	RHR Pump
1E12-C003	2	A	Centrifugal	RHR Water Leg
1E12-C300A	3	A	Centrifugal	RHR Service Water
1E12-C300B	3	A	Centrifugal	RHR Service Water
1E12-C300C	3	A	Centrifugal	RHR Service Water
1E12-C300D	3	A	Centrifugal	RHR Service Water
1E21-C002	2	A	Centrifugal	LPCS Water Leg
1E22-C002	3	A	Centrifugal	DG Cooling Water
1E22-C003	2	A	Centrifugal	HPCS Water Leg
1E51-C003	2	A	Centrifugal	RCIC Water Leg
2DG01P	3	A	Centrifugal	DG Cooling Water
2E12-C002A	2	A	Vertical	RHR Pump
2E12-C002B	2	A	Vertical	RHR Pump
2E12-C003	2	A	Centrifugal	RHR Water Leg
2E12-C300A	3	A	Centrifugal	RHR Service Water
2E12-C300B	3	A	Centrifugal	RHR Service Water
2E12-C300C	3	A	Centrifugal	RHR Service Water
2E12-C300D	3	A	Centrifugal	RHR Service Water

# <u>Technical Position TP-06</u> (Rev. 1) (Page 2 of 3)

Pump EPN	Class	Group	Туре	Function
2E21-C002	2	A	Centrifugal	LPSC Water Leg
2E22-C002	3	A	Centrifugal	DG Cooling Water
2E22-C003	2	A	Centrifugal	HPCS Water Leg
2E51-C003	2	A	Centrifugal	RCIC Water Leg

<sup>a</sup> – Pumps classified as "Skid-mounted" per ISTB-1200(c) are not required to be tested in accordance with ISTB, so are therefore not assigned a "Group".

Group B pumps are those pumps in standby systems that are not operated routinely except for testing. The following pumps are categorized as Group B at the LaSalle County Station:

Pump EPN	Class	Group	Туре	Function
1C41-C001A	2	B	Positive Disp	Standby Liquid Control
1C41-C001B	2	В	Positive Disp	Standby Liquid Control
1E12-C002C	2	В	Vertical	RHR Pump (LPCI)
1E21-C001	2	B	Vertical	Low Pressure Core Spray
1E22-C001	2	В	Vertical	High Pressure Core Spray
1E51-C001	2	B	Centrifugal	Reactor Core Iso Cooling
1FC03PA	3	В	Centrifugal	Fuel Pool Emer. Make-Up
1FC03PB	3	B	Centrifugal	Fuel Pool Emer. Make-Up
2C41-C001A	2	B	Positive Disp	Standby Liquid Control
2C41-C001B	2	B	Positive Disp	Standby Liquid Control
2E12-C002C	2	B	Vertical	RHR Pump (LPCI)
2E21-C001	2	B	Vertical	Low Pressure Core Spray
2E22-C001	2	B	Vertical	High Pressure Core Spray
2E51-C001	2	B	Centrifugal	Reactor Core Iso Cooling
2FC03PA	3	B	Centrifugal	Fuel Pool Emer. Make-Up
2FC03PB	3	B	Centrifugal	Fuel Pool Emer. Make-Up

The following summarizes the Group A, B, and Comprehensive Pump Test requirements as specified by the ASME OM Code Subsection ISTB.

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### Technical Position TP-06 (Rev. 1) (Page 3 of 3)

Group A Pump Tests – Group A tests are performed quarterly for each pump categorized as A. The following inservice test parameters are measured for each Group A pump test:

- Speed (if pump is variable speed)
- Differential Pressure
- Discharge Pressure, (for positive displacement pumps)
- Flow Rate
- Vibration

Group B Pump Tests – Group B tests are performed quarterly for each pump categorized as B. The following inservice test parameters are measured for each Group B pump test:

- Speed (if pump is variable speed)
- Differential Pressure<sup>(1)</sup>
- Flow Rate<sup>(1)</sup>

<sup>(1)</sup> For positive displacement pumps, only flow rate shall be measured or determined, for all other pumps, either differential pressure or flow rate shall be measured or determined.

Although vibration testing is not required for Category B pumps, LaSalle County Station has chosen to continue to perform vibration monitoring of these pumps.

Comprehensive Pump Tests – Comprehensive pump tests are performed biennially for all pumps in the Inservice Testing Program. The following inservice test parameters are measured for each Comprehensive pump test:

- Speed (if pump is variable speed)
- Differential Pressure
- Discharge Pressure, (for positive displacement pumps)
- Flow Rate (The ISTB Design Flow for the comprehensive pump test shall be defined as the System's Accident Condition Flow for a single pump)
- Vibration

The following instrument accuracy requirements apply to each test type:

Parameter	Group A	Group B	Comprehensive
Pressure	+/- 2.0%	+/- 2.0%	+/- 0.5%
Flow Rate	+/- 2.0%	+/- 2.0%	+/- 2.0%
Speed	+/- 2.0%	+/- 2.0%	+/- 2.0%
Vibration	+/- 5.0%	+/- 5.0%	+/- 5.0%
Differential Pressure	+/- 2.0%	+/- 2.0%	+/- 0.5%

# Technical Position - TP-07 (Rev. 0) (Page 1 of 2)

## Water Leg Pump Check Valves

#### **Purpose**

The purpose of this Technical Position is to establish the station position for the open and closed exercise testing of the Water Leg Pump (WLP) discharge check valves.

#### **Applicability**

This Technical Position is applicable to the following check valves at the LaSalle County Station.

<u>Valve Number</u>	<u>System</u>	<u>Class</u>	<b>Category</b>	<u>Unit</u>
1(2)E22-F007	HP	2	C	1
1(2)E21-F033	LP	2	С	- 1
1(2)E12-F084A	RH	. 2	C ·	1
1(2)E12-F084B	RH	2	С	1
1(2)E12-F084C	RH	2	С	1
1(2)E51-F061	RI	2	С	1
1(2)E22-F007	HP	2	С	2
1(2)E21-F033	LP	2	С	2
1(2)E12-F084A	RH	2	С	2
1(2)E12-F084B	RH	2	C	2
1(2)E12-F084C	RH	2	С	2
1(2)E51-F061	RI	2	С	2

#### **Background**

The ASME OM Code 2001 through 2003 Addenda section ISTC-5221(a)(1), "Valve Obturator Movement", states:

"Check valves that have a safety function in both the open and close directions shall be exercised by initiating flow and observing that the obturator has traveled to either the full open position or to the position required to perform it's intended function(s) (see ISTA-1100), and verify that on cessation or reversal of flow, the obturator has traveled to the seat."

## Technical Position - TP-07 (Rev. 0) (Page 2 of 2)

### **Position**

These WLP Discharge Check Valves do not have a specific safety related flow rate associated with them. The function of each Water Leg Pump (WLP) is to maintain the associated ECCS pump discharge lines filled and pressurized when ECCS is in standby conditions. Without the WLPs the ECCS discharge lines could depressurize and drain. Voids within the discharge lines of any of the ECCS pumps could lead to severe water hammer following ECCS pump actuation. The ECCS lines are provided with instrumentation that continuously monitors the pressure to ensure that the discharge lines are filled and pressurized within allowable limits as delineated in plant Technical Specifications.

The verification of pressure maintenance within the discharge piping alone could be considered adequate to verify the open capability of these valves, however because of the essentially static flow conditions within these discharge lines, an additional test is performed in which the system is vented through a high point vent periodically. In this test, flow (liquid) is verified to exit the vent, after which the ECCS discharge piping system pressure is monitored to return to its required pressure. This test ensures that the valves are exercised open and capable of passing flow. This is considered to be acceptable open exercise tests of the discharge check valves because the check valves are exercised to the position required to fulfill their function in accordance with ISTC-5221(a)(1).

Closure of the WLP discharge check valves is verified during the associated ECCS pump quarterly test. Once ECCS full flow requirements are met, the pressure directly downstream of the WLP discharge check valve is measured. Once measured, the manual stop valve downstream of the check valve will be closed and the pressure between closed stop valve and the WLP discharge check valve is measured again. If the difference between the two pressures is greater than 1.0 psig, then the WLP discharge check valve may not be closed. This is considered to be an acceptable close exercise test of the WLP discharge check valve per the requirements of ISTC-5221(a)(1).

#### History

In the LaSalle Second 10-Year IST Interval, this Technical Position was identified as TP-02.

# Technical Position - TP-08 (Rev. 1) (Page 1 of 3)

# **Thermal Relief Valves**

### Purpose

The purpose of this Technical Position is to establish the station position on the method and frequency of testing of valves that can be classified as Thermal Relief Valves.

# **Applicability**

This Technical Position is applicable to the following valves at the LaSalle County Station.

<u>Valve Number</u>	<u>System</u>	<u>Class</u>	<u>Category</u>	<u>Unit</u>
0DG014	DG	3	С	0
1DG034	DG	3	С	1
1E22-F345	HP	3	С	1
1E12-F460	RH	2	A/C	1
1VP197A	VP	2	A/C	1
1VP197B	VP	2	A/C	1
1VP198A	VP	2	A/C	1
1VP198B	VP	2	A/C	1
1WR225	WR	2	A/C	1
1WR226	WR	2	A/C	1
1E22-F035	HP	2	С	1
1E12-F311A	RH	2	С	1
1E12-F311B	RH	2	С	1
2DG034	DG	3	C	2
2E22-F345	HP	3	С	2
2E12-F460	RH	2	A/C	2
2VP197A	VP	• 2	A/C	2
2VP197B	VP	2	A/C	2
2VP198A	VP	2	A/C	2
2VP198B	VP	2.	A/C	2
2WR225	WR	2	A/C	2
2WR226	WR	2 .	A/C	2
2E22-F035	HP	2	С	2
2E12-F311A	RH	2	С	2
2E12-F311B	RH	2	С	. 2

## Technical Position - TP-08 (Rev. 1) (Page 2 of 3)

### Background

When this technical position for thermal relief valves was first drafted, the position was based upon 10CFR50.55a(b) endorsement of Regulatory Guide 1.192, "Operation and Maintenance Code Case Acceptability, ASME OM Code", as issued in June 2003. This Reg. Guide contains a list of ASME Code Cases which either in full or in part, are allowed by the NRC to be used by licensees without the submittal of a request for relief from the NRC. Table 1 of the Reg. Guide 1.197 contains a list of Code Case that can be adopted by the utility without conditions or modifications, which includes Code Case OMN-2, Rev. 0, "Thermal Relief Valve Code Case", 1998 Edition.

Code Case OMN-2 states in part:

"It is the opinion of the Committee that in lieu of the requirements specified in ASME OM Code 1995, paragraphs I 1.3.5(a), (b), and (c) testing for Class 2 and Class 3 pressure relief devices whose only overpressure protection function is to protect isolated components from fluid expansion caused by changes in fluid temperature shall be performed once every ten years on each device unless performance data indicates that more frequent testing is needed to assure device function. In lieu of test, the Owner may replace these devices every ten years unless performance data indicates more frequent replacement is needed to assure device function."

However, in the current edition of the ASME Code 2001/2003a, Mandatory Appendix I, "Inservice Testing of Pressure Relief Devices in Light-Water Reactor Nuclear Power Plants", section I-1390 has been created which removes the need for OMN-2. This section states:

"Test shall be performed on all Class 2 and 3 relief devices used in thermal relief application every 10 years, unless performance data indicate more frequent testing is necessary. In lieu of tests the Owner may replace the relief devices at a frequency of every 10 years, unless performance data indicate more frequent replacement are necessary."

LaSalle Engineering Evaluation EC 353154 reviewed all IST Program Class 2 and 3 relief valves for OMN-2 applicability, and for those deemed applicable, reviewed performance data to ensure ten-year testing/replacement is merited.

# Technical Position - TP-08 (Rev. 1)

(Page 3 of 3)

### **Position**

The LaSalle Evaluation EC 353154 concluded that all valves designated as thermal relief valves, with the exception of 1(2)E12-F311A/B, qualified for a test/replacement frequency of ten years. During the Second IST 10-Year Interval, as discussed in this Technical Position, LaSalle had chosen to replace rather than test these valves as allowed by I-1390.

Based upon their failure history, valves 1(2)E12-311A/B shall continue to be tested/replaced per the frequency requirements of I-1350 in that at least 20% of the valves is this group of 4 shall be tested every 48 months, with all valves being either tested or replaced once every 10 years. Once sufficient performance data have been gathered, these valves may be re-evaluated to consider increasing their frequency to the I-1390 10-year replacement allowance.

### <u>History</u>

In the LaSalle Second 10-Year IST Interval, this Technical Position was identified as TP-08.

# <u>Technical Position TP-09</u> (Rev. 0) (Page 1 of 9)

### **Classification of Skid- Mounted Components**

#### Purpose

The purpose of this technical position is to clarify requirements for classification of various skid- mounted components, and to clarify the testing requirements of these components.

### **Background**

The ASME Code allows classification of some components as skid- mounted when their satisfactory operation is demonstrated by the satisfactory performance of the associated major components. Testing of the major component is sufficient to satisfy Inservice Testing requirements for skid- mounted components. In section 3.4 of NUREG 1482 Rev 1, the NRC supports the designation of components as skid-mounted:

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

The term skid-mounted is defined in the 2001/2003a Editions of the ASME OM Code:

#### **ISTA-2000 DEFINITIONS**

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

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

# Technical Position TP-09 (Rev. 0) (Page 2 of 9)

Additionally the Subsections pertaining to pumps (ISTB) and valves (ISTC) include exclusions/exemptions for skid-mounted components;

### ISTB-1200(c) Exclusions

Skid-mounted pumps that are tested as part of the major component and are justified by the Owner to be adequately tested.

ISTC-1200 Exemptions

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

### **Position**

The 2001/2003a ASME OM Code definition of skid-mounted will be used for classification of components in the LaSalle County Station Inservice Testing Program. In addition, for a component to be considered skid-mounted:

- The major component associated with the skid-mounted component must be surveillance tested at a frequency sufficient to meet ASME Code test frequency for the skid-mounted component.
- Satisfactory operation\*, of the skid-mounted component must be demonstrated by satisfactory operation of the major component.
- \* as defined by the utility

#### **Justification**

Recognition and classification of components as skid-mounted eliminates the need for the redundant testing of the sub component(s) because the testing of the major (parent) component(s) satisfactorily demonstrates operation of the "skid-mounted" component(s).

## Technical Position TP-09 (Rev. 0) (Page 3 of 9)

## Resultant Discussion Skid-mounted Pumps

In recognition of this Technical Position on skid-mounted components, pumps classified as Skid-mounted need not be classified as either Group A or Group B as the acceptable performance of the skid-mounted pump is based upon the acceptable performance of the major component to which it gives support, not the manner in which it operates. The frequency at which this skid-mounted pump's ability to function in support of its major component will be verified quarterly, as a minimum. This frequency is chosen so as to not be greater than the minimum test frequency associated with an IST pump that is not classified as skid-mounted.

If the frequency associated with the testing of the skid-mounted pump is ever determined to be greater than quarterly, that evaluation/justification will be provided in that specific pump basis document.

# Technical Position TP-09 (Rev. 0) (Page 4 of 9)

The following IST pumps have been classified as skid-mounted;

Pump EPN	Class	Туре	Function
0-ACSOAKBACK	3	Positive Disp	DG AC Soak Back Pump
0-DGOILCIRC	NC	Positive Disp	DG Oil Circulating Pump
1A-ACSOAKBACK	3	Positive Disp	DG AC Soak Back Pump
1A-DGOILCIRC	NC	Positive Disp	DG Oil Circulating Pump
1B-ACSOAKBACK	3	Positive Disp	DG AC Soak Back Pump
1B-DGOILCIRC	NC	Positive Disp	DG Oil Circulating Pump
2A-ACSOAKBACK	3	Positive Disp	DG AC Soak Back Pump
2A-DGOILCIRC	NC	Positive Disp	DG Oil Circulating Pump
2B-ACSOAKBACK	3	Positive Disp	DG AC Soak Back Pump
2B-DGOILCIRC	NC	Positive Disp	DG Oil Circulating Pump
0-DCSOAKBACK	3	Positive Disp	DG DC Soak Back Pump
0-DGMAINLUBE	NC	Positive Disp	DG Main Lube Oil Pump
0-DGPISTON	NC	Positive Disp	DG Piston Cooling Oil Pump
0-DGSCAVENGE	3	Positive Disp	DG Scavenging Oil Pump
0-DO01P	3	Centrifugal	DG Fuel Transfer Pump
1A-DCSOAKBACK	3	Positive Disp	DG DC Soak Back Pump
1A-DGMAINLUBE	NC	Positive Disp	DG Main Lube Oil Pump
1A-DGPISTON	NC	Positive Disp	DG Piston Cooling Oil Pump
1A-DGSCAVENGE	3	Positive Disp	DG Scavenging Oil Pump
1B-DCSOAKBACK	3	Positive Disp	DG DC Soak Back Pump
1B-DGMAINLUBE	NC	Positive Disp	DG Main Lube Oil Pump
1B-DGPISTON	NC _	Positive Disp	DG Piston Cooling Oil Pump
<b>1B-DGSCAVENGE</b>	- 3	Positive Disp	DG Scavenging Oil Pump
2A-DCSOAKBACK	3	Positive Disp	DG DC Soak Back Pump
2A-DGMAINLUBE	NC	Positive Disp	DG Main Lube Oil Pump
2A-DGPISTON	NC	Positive Disp	DG Piston Cooling Oil Pump
2A-DGSCAVENGE	3	Positive Disp	DG Scavenging Oil Pump
2B-DCSOAKBACK	3	Positive Disp	DG DC Soak Back Pump
2B-DGMAINLUBE	NC -	Positive Disp	DG Main Lube Oil Pump
2B-DGPISTON	NC	Positive Disp	DG Piston Cooling Oil Pump
2B-DGSCAVENGE	3	Positive Disp	DG Scavenging Oil Pump
1DO01P	3	Centrifugal	DG Fuel Transfer Pump
1DO02P	3	Centrifugal	DG Fuel Transfer Pump
2DO01P	3	Centrifugal	DG Fuel Transfer Pump
2DO02P	3	Centrifugal	DG Fuel Transfer Pump

**IST-LAS-PLAN** 

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#### Skid-mounted Valves

Only those parameters necessary for a valve to perform the safety related function(s) need be considered when evaluating the ability of the major component's test to verify the required function of the skid-mounted valve. (e.g. If a skid-mounted valve has a non-safety related open function, the major component testing need not consider verification of the open non-safety function, as would have been required if the valve were not classified as skid-mounted.)

The frequency at which this skid-mounted valve's ability to function in support of its major component will be verified quarterly, as a minimum. This frequency is chosen to be consistent with the minimum test frequency associated with a non-skid-mounted IST valve. If the frequency associated with the testing of a skid-mounted valve is determined to be greater than quarterly, that evaluation/justification will be provided in that specific valves basis document.

Valve EPN	Class	Туре	Function
0DG035A	3	Globe	DG A/C Starting Air Motors Supply Control
			Valve
0DG035B	3	Globe	DG B/D Starting Air Motors Supply Control
·			Valve
0DG036A	NC	3-Way	DG A/C Starting Air Motors Pinion Supply
			SOV
0DG036B	NC	3-Way	DG B/D Starting Air Motors Pinion Supply
			SOV
0DG038A	NC	Check	DG A/C Starting Air Mtrs Pinion Sup Bleed
			Off CV
0DG038B	NC	Check	DG B/D Starting Air Mtrs Pinion Sup Bleed
			Off CV
0DG048A	- 3	Check	DG Lube Oil DC Soak Back Pump Dsch CV
0DG048B	3	Check	DG Lube Oil AC Soak Back Pump Dsch CV
0DG049	NC	Check	DG Lube Oil Circ Pump Dsch Relief CV
0DG050	3	Check	DG Lube Oil Soak Back Pumps Dsch Relief
			CV
0DG051	3	Check	DG Lube Oil Cooler Outlet Check Valve
0DGABC	NC	Check	DG Turbocharger Check Valve
0DGXYZ	NC	Check	DG Turbocharger Check Valve
0DO002	3	Globe	DG Fuel Transfer Pump Suction Valve
1C11-D001-114	2	Check	CRD HCU Scram Discharge CV (Typ 185)

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1C11-D001-115   NC   Check   CRD HCU Charging Water CV (Typ 185)     1C11-D001-117   NC   3-Way   CRD HCU Scram Pilot Valve (Typ 185)     1C11-D001-126   NC   Gate   CRD HCU Scram Dilet Valve (Typ 185)     1C11-D001-127   NC   Gate   CRD HCU Scram Outlet Valve (Typ 185)     1C11-D001-127   NC   Gate   CRD HCU Coling Water CV (Typ 185)     1C11-D001-137   NC   Check   CRD HCU Coling Water CV (Typ 185)     1C11-D001-138   NC   Check   CRD HCU Coling Water CV (Typ 185)     1CM-CK-2A   NC   Check   CAM-Reagent Gas Supply Check Valve     1CM-CK-4B   NC   Check   CAM-Reagent Gas Supply Check Valve     1CM-CK-4B   NC   Check   CAM-Reagent Gas Supply Check Valve     1CM-PP CK-A   NC   Check   CAM-Reagent Gas Supply Check Valve     1CM-PP CK-B   NC   Check   CAM-Sample Pump Discharge Check Valve     1DG061A   NC   Gate   DG A/C Starting Air Motors Supply Control Valve     1DG061A   NC   Gate   DG A/C Starting Air Motors Pinion Supply SOV     1DG062B   NC   3-Way   DG A/C Starting Air Motors Pinion Supply	Valve EPN	Class	Туре	Function
1C11-D001-117   NC   3-Way   CRD HCU Scram Pilot Valve (Typ 185)     1C11-D001-126   NC   Gate   CRD HCU Scram Pilot Valve (Typ 185)     1C11-D001-126   NC   Gate   CRD HCU Scram Outlet Valve (Typ 185)     1C11-D001-127   NC   Gate   CRD HCU Scram Outlet Valve (Typ 185)     1C11-D001-137   NC   Check   CRD HCU Cooling Water CV (Typ 185)     1CM-CK-2A   NC   Check   CAM-Reagent Gas Supply Check Valve     1CM-CK-2B   NC   Check   CAM-Reagent Gas Supply Check Valve     1CM-CK-4A   NC   Check   CAM-Reagent Gas Supply Check Valve     1CM-CK-4B   NC   Check   CAM-Sample Pump Discharge Check Valve     1CM-PP CK-A   NC   Gate   DG A/C Starting Air Motors Supply Control Valve     1DG061A   NC   Gate   DG B/D Starting Air Motors Pinion Supply SoV     1DG062B   NC   3-Way   DG A/C Starting Air Motors Pinion Supply SoV	1C11-D001-115	NC	Check	CRD HCU Charging Water CV (Typ 185)
1C11-D001-118   NC   3-Way   CRD HCU Scram Pilot Valve (Typ 185)     1C11-D001-126   NC   Gate   CRD HCU Scram Inlet Valve (Typ 185)     1C11-D001-127   NC   Gate   CRD HCU Scram Outlet Valve (Typ 185)     1C11-D001-137   NC   Check   CRD HCU Scram Outlet Valve (Typ 185)     1C11-D001-138   NC   Check   CRD HCU Cooling Water CV (Typ 185)     1CM-CK-2A   NC   Check   CAM-Reagent Gas Supply Check Valve     1CM-CK-4B   NC   Check   CAM-Sample Pump Discharge Check Valve     1CM-PP CK-A   NC   Gate   DG A/C Starting Air Motors Supply Control Valve     1DG061B   NC   Gate   DG B/D Starting Air Motors Pinion Supply SoV     1DG062A   NC   3-Way   DG A/C Starting Air Motors Pinion Supply SoV     1DG062B   NC   3-Way   DG B/D Starting Air Motors Pinion Supply SoV     1DG064A   NC   Check   DG Lube Oil DC Soak Back Pu	1C11-D001-117	NC	3-Way	CRD HCU Scram Pilot Valve (Typ 185)
1C11-D001-126   NC   Gate   CRD HCU Scram Inlet Valve (Typ 185)     1C11-D001-127   NC   Gate   CRD HCU Scram Outlet Valve (Typ 185)     1C11-D001-137   NC   Check   CRD HCU Drive Water CV (Typ 185)     1C11-D001-138   NC   Check   CRD HCU Cooling Water CV (Typ 185)     1CM-CK-2A   NC   Check   CAM-Reagent Gas Supply Check Valve     1CM-CK-2B   NC   Check   CAM-Reagent Gas Supply Check Valve     1CM-CK-4A   NC   Check   CAM-Reagent Gas Supply Check Valve     1CM-CK-4B   NC   Check   CAM-Reagent Gas Supply Check Valve     1CM-CK-4B   NC   Check   CAM-Reagent Gas Supply Check Valve     1CM-PP CK-A   NC   Check   CAM-Sample Pump Discharge Check Valve     1CM-PP CK-A   NC   Gate   DG A/C Starting Air Motors Supply Control Valve     1DG061A   NC   Gate   DG A/C Starting Air Motors Pinion Supply SOV     1DG062A   NC   3-Way   DG A/C Starting Air Motors Pinion Supply SOV     1DG062B   NC   Check   DG A/C Starting Air Motors Pinion Supply SOV     1DG064A   NC   Check   DG Lube Oil DC Soak Back Pump Dsch	1C11-D001-118	· NC	3-Way	CRD HCU Scram Pilot Valve (Typ 185)
IC11-D001-127   NC   Gate   CRD HCU Scram Outlet Valve (Typ 185)     IC11-D001-137   NC   Check   CRD HCU Drive Water CV (Typ 185)     IC11-D001-138   NC   Check   CRD HCU Cooling Water CV (Typ 185)     ICM-CK-2A   NC   Check   CAM-Reagent Gas Supply Check Valve     ICM-CK-2B   NC   Check   CAM-Reagent Gas Supply Check Valve     ICM-CK-4A   NC   Check   CAM-Reagent Gas Supply Check Valve     ICM-CK-4B   NC   Check   CAM-Reagent Gas Supply Check Valve     ICM-CK-4B   NC   Check   CAM-Sample Pump Discharge Check Valve     ICM-PP CK-B   NC   Check   CAM-Sample Pump Discharge Check Valve     IDG061A   NC   Gate   DG A/C Starting Air Motors Supply Control Valve     1DG061B   NC   Gate   DG B/D Starting Air Motors Pinion Supply SOV     1DG062A   NC   3-Way   DG B/D Starting Air Motors Pinion Supply SOV     1DG064A   NC   Check   DG Lube Oil DC Soak Back Pump Dsch CV     1DG064B   NC   Check   DG Lube Oil DC Soak Back Pump Dsch CV     1DG063B   3   Check   DG Lube Oil DC Soak Back Pump Dsch CV	1C11-D001-126	NC	Gate	CRD HCU Scram Inlet Valve (Typ 185)
1C11-D001-137   NC   Check   CRD HCU Drive Water CV (Typ 185)     1C11-D001-138   NC   Check   CRD HCU Cooling Water CV (Typ 185)     1CM-CK-2A   NC   Check   CAM-Reagent Gas Supply Check Valve     1CM-CK-2B   NC   Check   CAM-Reagent Gas Supply Check Valve     1CM-CK-4B   NC   Check   CAM-Reagent Gas Supply Check Valve     1DG061A   NC   Gate   DG A/C Starting Air Motors Supply Control Valve     1DG061B   NC   Gate   DG B/D Starting Air Motors Pinion Supply SOV     1DG062A   NC   3-Way   DG A/C Starting Air Motors Pinion Supply SOV     1DG064A   NC   Check   DG B/D Starting Air Mtrs Pinion Sup Bleed Off CV     1DG064B   NC   Check   DG Lube Oil DC Soak Back Pump Dsch CV <	1C11-D001-127	NC	Gate	CRD HCU Scram Outlet Valve (Typ 185)
1C11-D001-138   NC   Check   CRD HCU Cooling Water CV (Typ 185)     1CM-CK-2A   NC   Check   CAM-Reagent Gas Supply Check Valve     1CM-CK-2B   NC   Check   CAM-Reagent Gas Supply Check Valve     1CM-CK-4B   NC   Check   CAM-Reagent Gas Supply Check Valve     1DG061A   NC   Gate   DG A/C Starting Air Motors Supply Control Valve     1DG061B   NC   Gate   DG A/C Starting Air Motors Pinion Supply SOV     1DG062A   NC   3-Way   DG B/D Starting Air Motors Pinion Supply SOV     1DG062B   NC   Check   DG A/C String Air Mtrs Pinion Sup Bleed Off CV     1DG064A   NC   Check   DG B/D String Air Mtrs Pinion Sup Bleed Off CV     1DG083A   3   Check   DG Lube Oil DC Soak Back Pump Dsch CV	1C11-D001-137	NC	Check	CRD HCU Drive Water CV (Typ 185)
1CM-CK-2ANCCheckCAM-Reagent Gas Supply Check Valve1CM-CK-2BNCCheckCAM-Reagent Gas Supply Check Valve1CM-CK-4ANCCheckCAM-Reagent Gas Supply Check Valve1CM-CK-4BNCCheckCAM-Reagent Gas Supply Check Valve1CM-PP CK-ANCCheckCAM-Sample Pump Discharge Check Valve1CM-PP CK-BNCCheckCAM-Sample Pump Discharge Check Valve1DG061ANCGateDG A/C Starting Air Motors Supply Control Valve1DG062ANC3-WayDG B/D Starting Air Motors Pinion Supply SOV1DG062BNC3-WayDG B/D Starting Air Motors Pinion Supply SOV1DG064ANCCheckDG A/C Starting Air Motors Pinion Supply SOV1DG064BNCCheckDG B/D Starting Air Mtrs Pinion Sup Bleed Off CV1DG083A3CheckDG Lube Oil DC Soak Back Pump Dsch CV1DG083B3CheckDG Lube Oil Cro Pump Dsch Relief CV1DG0853CheckDG Lube Oil Soak Back Pump Dsch CV1DG087B3CheckDG Lube Oil Coak Back Pump Dsch CV1DG088NCCheckDG Lube Oil Coak Back Pump Dsch CV1DG088NCCheckDG Lube Oil Coak Back Pump Dsch CV1DG087B3CheckDG Lube Oil Coak Back Pump Dsch CV1DG088NCCheckDG Lube Oil Coak Back Pump Dsch CV1DG088NCCheckDG Lube Oil Coak Back Pump Dsch CV1DG0893CheckDG Lube Oil Coak Back Pump Dsch CV	1C11-D001-138	NC	Check	CRD HCU Cooling Water CV (Typ 185)
1CM-CK-2B   NC   Check   CAM-Reagent Gas Supply Check Valve     1CM-CK-4A   NC   Check   CAM-Reagent Gas Supply Check Valve     1CM-CK-4B   NC   Check   CAM-Reagent Gas Supply Check Valve     1CM-PP CK-A   NC   Check   CAM-Reagent Gas Supply Check Valve     1CM-PP CK-B   NC   Check   CAM-Sample Pump Discharge Check Valve     1DG061A   NC   Gate   DG A/C Starting Air Motors Supply Control Valve     1DG061B   NC   Gate   DG B/D Starting Air Motors Supply Control Valve     1DG062A   NC   3-Way   DG A/C Starting Air Motors Pinion Supply SOV     1DG062B   NC   3-Way   DG B/D Starting Air Motors Pinion Supply SOV     1DG064A   NC   Check   DG A/C Starting Air Motors Pinion Supply SOV     1DG064B   NC   Check   DG A/C Starting Air Mtrs Pinion Sup Bleed Off CV     1DG064B   NC   Check   DG Lube Oil DC Soak Back Pump Dsch CV     1DG083A   3   Check   DG Lube Oil Cosak Back Pump Dsch CV     1DG083B   3   Check   DG Lube Oil Soak Back Pump Dsch CV     1DG084   NC   Check   DG Lube Oil Cooak Back Pump Dsch	1CM-CK-2A	NC	Check	CAM-Reagent Gas Supply Check Valve
1CM-CK-4ANCCheckCAM-Reagent Gas Supply Check Valve1CM-CK-4BNCCheckCAM-Reagent Gas Supply Check Valve1CM-PP CK-ANCCheckCAM-Sample Pump Discharge Check Valve1DG061ANCGateDG A/C Starting Air Motors Supply Control Valve1DG061BNCGateDG B/D Starting Air Motors Supply Control Valve1DG062ANC3-WayDG A/C Starting Air Motors Pinion Supply SOV1DG062BNC3-WayDG B/D Starting Air Motors Pinion Supply SOV1DG064ANCCheckDG B/D Starting Air Motors Pinion Supply SOV1DG064ANCCheckDG B/D Starting Air Motors Pinion Supply SOV1DG064BNCCheckDG B/D Starting Air Motors Pinion Suppled Off CV1DG083A3CheckDG Lube Oil DC Soak Back Pump Dsch CV1DG0853CheckDG Lube Oil AC Soak Back Pump Dsch CV1DG0853CheckDG Lube Oil Soak Back Pump Dsch Relief CV1DG087A3CheckDG Lube Oil DC Soak Back Pump Dsch CV1DG088NCCheckDG Lube Oil DC Soak Back Pump Dsch CV1DG087B3CheckDG Lube Oil Circ Pump Dsch Relief CV1DG088NCCheckDG Lube Oil Cooler Outlet Check Valve1DG0893CheckDG Lube Oil Cooler Outlet Check Valve1DG0893CheckDG Lube Oil Cooler Outlet Check Valve1DG0893CheckDG Lube Oil Cooler Outlet Check Valve1DG0893Check	1CM-CK-2B	NC	Check	CAM-Reagent Gas Supply Check Valve
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IDG062BNC3-WayDG B/D Starting Air Motors Pinion Supply SOV1DG064ANCCheckDG A/C Strting Air Mtrs Pinion Sup Bleed Off CV1DG064BNCCheckDG B/D Strting Air Mtrs Pinion Sup Bleed Off CV1DG083A3CheckDG Lube Oil DC Soak Back Pump Dsch CV1DG083B3CheckDG Lube Oil AC Soak Back Pump Dsch CV1DG084NCCheckDG Lube Oil Circ Pump Dsch Relief CV1DG0853CheckDG Lube Oil DC Soak Back Pump Dsch CV1DG087A3CheckDG Lube Oil Circ Pump Dsch Relief CV1DG087B3CheckDG Lube Oil DC Soak Back Pump Dsch CV1DG088NCCheckDG Lube Oil DC Soak Back Pump Dsch CV1DG0893CheckDG Lube Oil AC Soak Back Pump Dsch CV1DG0893CheckDG Lube Oil Circ Pumps Dsch Relief CV1DG0913CheckDG Lube Oil Cooler Outlet Check Valve1DG08CNCCheckDG Lube Oil Cooler Outlet Check Valve1DGABCNCCheckDG Turbocharger Check Valve	1DG062A	NC	3-Way	DG A/C Starting Air Motors Pinion Supply
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# Technical Position TP-09 (Rev. 0)

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Valve EPN	Class	Туре	Function
1DGXYZ	NC	Check	DG Turbocharger Check Valve
1DGXYZ-HPCS	NC	Check	DG Turbocharger Check Valve
1DO002	3	Check	DG Fuel Transfer Pump Dsch Check Valve
1DO012	3	Check	DG Fuel Transfer Pump Dsch Check Valve
1E22-F381A	NC	Gate	DG A/C Starting Air Motors Supply Control
			Valve
1E22-F381B	NC	Gate	DG B/D Starting Air Motors Supply Control
			Valve
1E22-F382A	NC	3-Way	DG A/C Starting Air Motors Pinion Supply
			SOV
1E22-F382B	NC	3-Way	DG B/D Starting Air Motors Pinion Supply
			SOV
1E22-F383A	NC	Check	DG A/C Strting Air Mtrs Pinion Sup Bleed Off
		· ·	CV
1E22-F383B	NC	Check	DG B/D Strting Air Mtrs Pinion Sup Bleed Off
			CV
1E51-F360	2	Gate	RCIC Turbine Trip/Throttle Valve
2C11-D001-114	2	Check	CRD HCU Scram Discharge CV (Typ 185)
2C11-D001-115	NC	Check	CRD HCU Charging Water CV (Typ 185)
2C11-D001-117	NC	3-Way	CRD HCU Scram Pilot Valve (Typ 185)
2C11-D001-118	NC	3-Way	CRD HCU Scram Pilot Valve (Typ 185)
2C11-D001-126	NC	Gate	CRD HCU Scram Inlet Valve (Typ 185)
2C11-D001-127	NC	Gate	CRD HCU Scram Outlet Valve (Typ 185)
2C11-D001-137	NC	Check	CRD HCU Drive Water CV (Typ 185)
2C11-D001-138	NC	Check	CRD HCU Cooling Water CV (Typ 185)
2CM-CK-2A	NC	Check	CAM-Reagent Gas Supply Check Valve
2CM-CK-2B	NC	Check	CAM-H2/O2 Analyzer Calibration Gas CV
2CM-CK-4A	NC	Check	CAM-Reagent Gas Supply Check Valve
2CM-CK-4B	NC	Check	CAM-Reagent Gas Supply Check Valve
2CM-PP CK-A	NC	Check	CAM-Sample Pump Discharge Check Valve
2CM-PP CK-B	NC	Check	CAM-Hydrogen/Oxygen Analyzer Calibration
·			Gas SOV
2DG061A	NC	Gate	DG A/C Starting Air Motors Supply Control
			Valve
2DG061B	NC	Gate	DG B/D Starting Air Motors Supply Control
			Valve
2DG062A	NC	3-Way	DG A/C Starting Air Motors Pinion Supply
			SOV
2DG062B	NC	3-Way	DG B/D Starting Air Motors Pinion Supply
			SOV

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# Technical Position TP-09 (Rev. 0) (Page 8 of 9)

Valve EPN	Class	Туре	Function
2DG064A	NC	Check	DG A/C Strting Air Mtrs Pinion Sup Bleed Off
			CV
2DG064B	NC	Check	DG B/D Strting Air Mtrs Pinion Sup Bleed Off
			CV
2DG083A	3	Check	DG Lube Oil DC Soak Back Pump Dsch CV
2DG083B	3	Check	DG Lube Oil AC Soak Back Pump Dsch CV
2DG084	NC	Check	DG Lube Oil Circ Pump Dsch Relief CV
2DG085	3	Check	DG Lube Oil Soak Back Pumps Dsch Relief
			CV
2DG087A	3	Check	DG Lube Oil DC Soak Back Pump Dsch CV
2DG087B	3	Check	DG Lube Oil AC Soak Back Pump Dsch CV
2DG088	NC	Check	DG Lube Oil Circ Pumps Dsch Relief CV
2DG089	3	Check	DG Lube Oil Soak Back Pumps Dsch Relief
			CV
2DG091	3	Check	DG Lube Oil Cooler Outlet Check Valve
2DG092	3 .	Check	DG Lube Oil Cooler Outlet Check Valve
2DGABC	NC	Check	DG Turbocharger Check Valve
2DGABC-HPCS	NC	Check	DG Turbocharger Check Valve
2DGXYZ	NC	Check	DG Turbocharger Check Valve
2DGXYZ-HPCS	NC	Check	DG Turbocharger Check Valve
2DO002	3	Check	DG Fuel Transfer Pump Dsch Check Valve
2DO012	3	Check	DG Fuel Transfer Pump Dsch Check Valve
2E22-F381A	2	Gate	DG A/C Starting Air Motors Supply Control
			Valve
2E22-F381B	2	Gate	DG B/D Starting Air Motors Supply Control
·			Valve
2E22-F382A	NC	3-Way	DG A/C Starting Air Motors Pinion Supply
			SOV
2E22-F382B	NC	3-Way	DG B/D Starting Air Motors Pinion Supply
			SOV
2E22-F383A	NC	Check	DG A/C Strting Air Mtrs Pinion Sup Bleed Off
		·	CV
2E22-F383B	NC	Check	DG B/D Strting Air Mtrs Pinion Sup Bleed Off
			CV
2E51-F360	2	Gate	RCIC Turbine Trip/Throttle Valve

# <u>Technical Position TP-09</u> (Rev. 0) (Page 9 of 9)

# **History**

In the LaSalle Second 10-Year IST Interval, the Technical Position addressing skidmounted equipment was Corporate Technical Position TP-EXE-IST-00-04, Rev. 1.
## Technical Position TP-10 (Rev. 0) (Page 1 of 7)

## **Excess Flow Check Valve Testing**

#### Purpose

The purpose of this position paper is to clarify inservice testing requirements for Excess Flow Check Valves (EFCVs).

## **Application**

This Technical Position is applicable to the following check valves at LaSalle County Station.

Valve Number	<u>System</u>	<u>Class</u>	Category	Unit
1B21-F325A	MS	2	C	1
1B21-F325B	MS	2	С	1
1B21-F325C	MS	2	С	1
1B21-F325D	MS	2	С	1
1B21-F326A	MS	2	С	1
1B21-F326B	MS	2	С	1
1B21-F326C	MS	2	С	1
1B21-F326D	MS	2	С	1
1B21-F327A	MS	2	С	1
1B21-F327B	MS	2	С	1
1B21-F327C	MS	2	С	1
1B21-F327D	MS	2	С	1
1B21-F328A	MS	2	С	1
1B21-F328B	MS	2	С	1
1B21-F328C	MS	2	. C	1
1B21-F328D	MS	2	С	1
1B21-F344	NB	2	С	1
1B21-F346	NB	2	С	1 .
1B21-F348	NB	2	С	1
1B21-F350	NB	2	С	1
1B21-F353	NB	2	С	1
1B21-F355	NB	2 .	С	1
1B21-F357	NB	2	С	1
1B21-F359	NB	2	С	1
1B21-F361	NB	2	С	1
1B21-F363	NB	2	С	1
1B21-F370	NB	2	С	1
1B21-F372	NB	2	С	1
1B21-F374	NB	2	С	1

# **Technical Position TP-10**

(Rev. 0)

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<u>Valve Number</u>	<u>System</u>	<u>Class</u>	<u>Category</u>	<u>Unit</u>
1B21-F376	NB	2	C	1
1B21-F378	NB	2	C	1
1B21-F413A	RI	2	С	1
1B21-F413B	RI	2	С	1
1B21-F415A	RI	2	С	1
1B21-F415B	RI	2	С	1
1B21-F437	NB	2	С	1
1B21-F439	NB	2	С	1
1B21-F441	NB	2	С	1
1B21-F443	NB	2	С	1
1B21-F445A	NB	2	С	1
1B21-F445B	NB	2	С	1
1B21-F447	NB	2	С	1
1B21-F449	NB	2	C	1
1B21-F451	NB	2	С	1
1B21-F453	NB	2	С	1
1B21-F455A	NB	2	С	1
1B21-F455B	NB	2	С	1
1B21-F457	NB	2	С	1
1B21-F459	NB	2	С	1
1B21-F461	NB	2	С	1
1B21-F463	NB	2	С	1
1B21-F465A	NB	2	С	1
1B21-F465B	NB	2	C	. 1
1B21-F467	NB	2	C	1
1B21-F469	NB	2	C	1
1B21-F471	NB	2	С	1
1B21-F473	NB	2	C	1
1B21-F475A	NB	2	C	1
1B21-F4/5B	NB	2	C	1
1B21-F5/0	NB	2	C	1
1B21-F5/1	NB	2	C	1
1B33-F301A	KK DD	2	C	I
1B33-F301B	KK	2	C	1
1B33-F305A		2	C	1
1033-13030		2	C	1
1B33-F303C	KK	2	C	. 1
1B33-F3U3D	KK	2	C	1
1B33-F30/A	KK	2	C	1
1B33-F30/B	KK	2	C	1
1B33-F30/C	KK	2	C	1
1B33-F30/D	KK	2	C	. 1

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IB33-F313CRR2C1IB33-F313DRR2C1IB33-F313DRR2C1IB33-F315ARR2C1IB33-F315BRR2C1IB33-F315DRR2C1IB33-F315DRR2C1IB33-F317ARR2C1IB33-F317BRR2C1IB33-F319BRR2C1IB33-F319BRR2C1IE12-F315RH2C1IE12-F359BRH2C1IE12-F359BRH2C1IE12-F360ARH2C1IE12-F360BRH2C1IE22-F304HP2C1IE32-F304HP2C1IE32-F304HP2C1IE32-F304HP2C1IG33-F312ART2C22821-F325AMS2C22821-F325DMS2C22821-F325DMS2C22821-F326DMS2C22821-F327DMS2C22821-F327DMS2C22821-F328BMS2C22821-F328BMS2C22821-F328DMS2 </td <td>1B33-F313R</td> <td>RR</td> <td><math>\frac{2}{2}</math></td> <td>C</td> <td>. 1</td>	1B33-F313R	RR	$\frac{2}{2}$	C	. 1
ID3 F313DRR2C1IB33-F313DRR2C1IB33-F315DRR2C1IB33-F315DRR2C1IB33-F317ARR2C1IB33-F317BRR2C1IB33-F317ARR2C1IB33-F317BRR2C1IB33-F317BRR2C1IB33-F317BRR2C1IB33-F317BRR2C1IE12-F317RH2C1IE12-F317RH2C1IE12-F359ARH2C1IE12-F360BRH2C1IE12-F360BRH2C1IE12-F304LP2C1IE22-F304HP2C1IG33-F312ART2C1IG33-F312ART2C1IG33-F312ART2C2221-F325DMS2C2221-F325DMS2C2221-F326DMS2C2221-F326DMS2C2221-F326DMS2C2221-F327AMS2C2221-F327AMS2C2221-F327DMS2C2221-F327DMS2C<	1B33-F313C	RR	2	C ·	1
IB33-F315ARR2C1IB33-F315DRR2C1IB33-F315DRR2C1IB33-F315DRR2C1IB33-F317ARR2C1IB33-F317ARR2C1IB33-F317ARR2C1IB33-F319ARR2C1IB33-F319BRR2C1IE12-F315RH2C1IE12-F359ARH2C1IE12-F359BRH2C1IE12-F350ARH2C1IE12-F350BRH2C1IE12-F360BRH2C1IE2-F360BRH2C1IE2-F304LP2C1IG33-F312ART2C1IG33-F312ART2C1IG33-F312ART2C1IG33-F312BRT2C22B21-F325DMS2C22B21-F326AMS2C22B21-F326DMS2C22B21-F327AMS2C22B21-F327BMS2C22B21-F327DMS2C22B21-F328BMS2C22B21-F328BMS2C22B21-F328BMS2<	1B33-F313D	RR	$\frac{2}{2}$	C	1
IB33-F315RIR2C1IB33-F315CRR2C1IB33-F315DRR2C1IB33-F315DRR2C1IB33-F317BRR2C1IB33-F319BRR2C1IB33-F319BRR2C1IB33-F319BRR2C1IE12-F315RH2C1IE12-F359BRH2C1IE12-F359BRH2C1IE12-F360ARH2C1IE12-F360BRH2C1IE12-F360BRH2C1IE2-F304LP2C1IE2-F304RT2C1IG33-F312ART2C1IG33-F312BRT2C1IG33-F312BRT2C2221-F325DMS2C2221-F325DMS2C2221-F326AMS2C2221-F326DMS2C2221-F327AMS2C2221-F327BMS2C2221-F327BMS2C2221-F327BMS2C2221-F327BMS2C2221-F327BMS2C2221-F328BMS2C <td>1B33-F315A</td> <td>RR</td> <td><math>\frac{2}{2}</math></td> <td>C</td> <td>1</td>	1B33-F315A	RR	$\frac{2}{2}$	C	1
IB33-F315DRR2C1IB33-F315DRR2C1IB33-F315DRR2C1IB33-F317ARR2C1IB33-F317BRR2C1IB33-F319BRR2C1IB33-F319BRR2C1IE12-F315RH2C1IE12-F315RH2C1IE12-F359ARH2C1IE12-F360BRH2C1IE12-F360BRH2C1IE21-F304LP2C1IE22-F304HP2C1IG33-F312ART2C1IG33-F312BRT2C1IG33-F312BRT2C22B21-F325DMS2C22B21-F325DMS2C22B21-F325DMS2C22B21-F326DMS2C22B21-F326DMS2C22B21-F327AMS2C22B21-F327DMS2C22B21-F327DMS2C22B21-F328DMS2C22B21-F328DMS2C22B21-F328DMS2C22B21-F328DMS2C22B21-F328DMS2<	1B33-F315R	RR	$\frac{2}{2}$	Ċ	1
IB33-F315DRR2C1IB33-F317ARR2C1IB33-F317BRR2C1IB33-F319ARR2C1IB33-F319BRR2C1IE12-F315RH2C1IE12-F317RH2C1IE12-F359ARH2C1IE12-F359BRH2C1IE12-F360ARH2C1IE12-F360BRH2C1IE22-F304LP2C1IE22-F304HP2C1IG33-F312ART2C1IG33-F312BRT2C1IG33-F312BMS2C22B21-F325DMS2C22B21-F325DMS2C22B21-F325DMS2C22B21-F326DMS2C22B21-F326DMS2C22B21-F327AMS2C22B21-F327DMS2C22B21-F327DMS2C22B21-F327DMS2C22B21-F328DMS2C22B21-F328DMS2C22B21-F328DMS2C22B21-F328DMS2C22B21-F328DMS2<	1B33-F315C	RR	2	C	1
IB33-F317ARR2C1IB33-F317BRR2C1IB33-F319ARR2C1IB33-F319BRR2C1IB33-F319BRR2C1IB33-F319BRR2C1IB33-F319BRR2C1IE12-F317RH2C1IE12-F359ARH2C1IE12-F359BRH2C1IE12-F360ARH2C1IE12-F360BRH2C1IE2-F304LP2C1IE32-F304HP2C1IG33-F312ART2C1IG33-F312BRT2C1IG33-F312BRT2C22B21-F325AMS2C22B21-F325DMS2C22B21-F326AMS2C22B21-F326BMS2C22B21-F326AMS2C22B21-F326AMS2C22B21-F326BMS2C22B21-F327AMS2C22B21-F327DMS2C22B21-F328AMS2C22B21-F328BMS2C22B21-F328BMS2C22B21-F328DMS2<	1B33-F315D	RR	2	C ·	1
IB33-F317BRR2C1 $IB33-F319A$ RR2C1 $IB33-F319B$ RR2C1 $IB33-F319B$ RR2C1 $IE12-F315$ RH2C1 $IE12-F317$ RH2C1 $IE12-F359A$ RH2C1 $IE12-F359B$ RH2C1 $IE12-F360A$ RH2C1 $IE12-F360B$ RH2C1 $IE21-F304$ LP2C1 $IE22-F304$ HP2C1 $IG33-F312A$ RT2C1 $IG33-F312B$ RT2C1 $IG33-F312B$ RT2C1 $IG33-F312B$ RT2C2 $2B21-F325A$ MS2C2 $2B21-F325D$ MS2C2 $2B21-F325D$ MS2C2 $2B21-F326A$ MS2C2 $2B21-F326D$ MS2C2 $2B21-F327A$ MS2C2 $2B21-F327D$ MS2C2 $2B21-F328B$ MS2C2 $2B21-F328B$ MS2C2 $2B21-F328B$ MS2C2 $2B21-F328B$ MS2C2 $2B21-F328B$ MS2C2 $2B21-F328D$ MS2C <td>1B33-F317A</td> <td>RR</td> <td><math>\frac{2}{2}</math></td> <td>Č</td> <td>1</td>	1B33-F317A	RR	$\frac{2}{2}$	Č	1
1 B33-F319ARR2C11 B33-F319BRR2C11 B33-F319BRR2C11 E12-F315RH2C11 E12-F317RH2C11 E12-F359ARH2C11 E12-F359BRH2C11 E12-F360ARH2C11 E12-F360BRH2C11 E12-F304LP2C11 E22-F304HP2C11 G33-F309RT2C11 G33-F312ART2C11 G33-F312BRT2C11 G33-F312BRT2C12 2B21-F325AMS2C22 2B21-F325DMS2C22 2B21-F325DMS2C22 2B21-F326AMS2C22 2B21-F326BMS2C22 2B21-F326DMS2C22 2B21-F327DMS2C22 2B21-F327DMS2C22 2B21-F327DMS2C22 2B21-F327DMS2C22 2B21-F328AMS2C22 2B21-F328BMS2C22 2B21-F328BMS2C22 2B21-F328BMS2C2 <td>1B33-F317B</td> <td>RR</td> <td><math>\frac{2}{2}</math></td> <td>C</td> <td>1</td>	1B33-F317B	RR	$\frac{2}{2}$	C	1
IB33-F319BRR2C1IB33-F319BRR2C1IE12-F315RH2C1IE12-F317RH2C1IE12-F359ARH2C1IE12-F359BRH2C1IE12-F360ARH2C1IE12-F360BRH2C1IE21-F304LP2C1IE22-F304HP2C1IG33-F312ART2C1IG33-F312BRT2C1IG33-F312BRT2C22B21-F325AMS2C22B21-F325DMS2C22B21-F326AMS2C22B21-F326DMS2C22B21-F326DMS2C22B21-F327AMS2C22B21-F327BMS2C22B21-F327DMS2C22B21-F327DMS2C22B21-F327DMS2C22B21-F328AMS2C22B21-F328BMS2C22B21-F328DMS2C22B21-F328DMS2C22B21-F328DMS2C22B21-F328DMS2C22B21-F328DMS2<	1B33-F319A	RR	$\frac{2}{2}$	C	· 1
IE12-F315RH2C1IE12-F317RH2C1IE12-F359ARH2C1IE12-F359BRH2C1IE12-F359BRH2C1IE12-F360ARH2C1IE12-F360BRH2C1IE2-F304LP2C1IE2-F304HP2C1IG33-F312ART2C1IG33-F312BRT2C1IG33-F312BRT2C1IG33-F312BRT2C22B21-F325AMS2C22B21-F325DMS2C22B21-F326AMS2C22B21-F326DMS2C22B21-F326DMS2C22B21-F327AMS2C22B21-F327DMS2C22B21-F327DMS2C22B21-F327DMS2C22B21-F327DMS2C22B21-F328AMS2C22B21-F328BMS2C22B21-F328DMS2C22B21-F328DMS2C22B21-F328DMS2C22B21-F328DMS2C22B21-F328DMS2 <td>1B33-F319B</td> <td></td> <td><math>\frac{2}{2}</math></td> <td>C ·</td> <td>1</td>	1B33-F319B		$\frac{2}{2}$	C ·	1
1E12-F317   RH   2   C   1     1E12-F359A   RH   2   C   1     1E12-F359B   RH   2   C   1     1E12-F359B   RH   2   C   1     1E12-F360A   RH   2   C   1     1E12-F360B   RH   2   C   1     1E12-F304   LP   2   C   1     1E22-F304   HP   2   C   1     1G33-F309   RT   2   C   1     1G33-F312A   RT   2   C   1     1G33-F312B   RT   2   C   1     1G33-F312B   RT   2   C   1     2B21-F325A   MS   2   C   2     2B21-F325B   MS   2   C   2     2B21-F325D   MS   2   C   2     2B21-F326A   MS   2   C   2     2B21-F326B   MS   2   C   2     2B21-F326D   MS   2   C   2 </td <td>1E12-F315</td> <td>RH</td> <td><math>\frac{1}{2}</math></td> <td>C C</td> <td>1</td>	1E12-F315	RH	$\frac{1}{2}$	C C	1
1E12-F359A   RH   2   C   1     1E12-F359B   RH   2   C   1     1E12-F359B   RH   2   C   1     1E12-F359B   RH   2   C   1     1E12-F360A   RH   2   C   1     1E12-F360B   RH   2   C   1     1E12-F304   LP   2   C   1     1E22-F304   HP   2   C   1     1G33-F312A   RT   2   C   1     1G33-F312B   RT   2   C   1     1G33-F312B   RT   2   C   1     2B21-F325A   MS   2   C   2     2B21-F325B   MS   2   C   2     2B21-F325D   MS   2   C   2     2B21-F326A   MS   2   C   2     2B21-F326B   MS   2   C   2     2B21-F326D   MS   2   C   2     2B21-F326D   MS   2   C   2	1E12-F317	RH	$\frac{2}{2}$	C	1
IE12-F359B   RH   2   C   1     IE12-F360A   RH   2   C   1     IE12-F360B   RH   2   C   1     IE12-F360B   RH   2   C   1     IE12-F360B   RH   2   C   1     IE12-F304   LP   2   C   1     IG33-F309   RT   2   C   1     IG33-F312A   RT   2   C   1     IG33-F312B   RT   2   C   1     2B21-F325A   MS   2   C   2     2B21-F325B   MS   2   C   2     2B21-F325D   MS   2   C   2     2B21-F326A   MS   2   C   2     2B21-F326B   MS   2   C   2     2B21-F326D   MS   2   C   2	1E12-F359A	RH	2	C	1
1E12-F360ARH2C1 $1E12$ -F360BRH2C1 $1E12$ -F360BRH2C1 $1E21$ -F304LP2C1 $1G33$ -F309RT2C1 $1G33$ -F312ART2C1 $1G33$ -F312BRT2C1 $2B21$ -F325AMS2C2 $2B21$ -F325BMS2C2 $2B21$ -F325DMS2C2 $2B21$ -F326AMS2C2 $2B21$ -F326BMS2C2 $2B21$ -F326DMS2C2 $2B21$ -F326DMS2C2 $2B21$ -F326DMS2C2 $2B21$ -F327AMS2C2 $2B21$ -F327BMS2C2 $2B21$ -F327DMS2C2 $2B21$ -F328AMS2C2 $2B21$ -F328BMS2C2 $2B21$ -F328BMS2C2 $2B21$ -F328DMS2C2 $2B21$ -F328DMS2C	1E12-F359B	RH	$\frac{2}{2}$	C	1
IE12-F360B   RH   2   C   1     IE21-F304   LP   2   C   1     IE22-F304   HP   2   C   1     IG33-F309   RT   2   C   1     IG33-F312A   RT   2   C   1     IG33-F312B   RT   2   C   1     IG33-F312B   RT   2   C   1     IG33-F312B   RT   2   C   1     2B21-F325A   MS   2   C   2     2B21-F325B   MS   2   C   2     2B21-F325D   MS   2   C   2     2B21-F326A   MS   2   C   2     2B21-F326A   MS   2   C   2     2B21-F326B   MS   2   C   2     2B21-F326D   MS   2   C   2     2B21-F326D   MS   2   C   2     2B21-F327A   MS   2   C   2     2B21-F327D   MS   2   C   2<	1E12-F360A	RH	$\frac{2}{2}$	C C	1
1E21-F304   LP   2   C   1     1E22-F304   HP   2   C   1     1G33-F309   RT   2   C   1     1G33-F312A   RT   2   C   1     1G33-F312B   RT   2   C   1     1G33-F312B   RT   2   C   1     2B21-F325A   MS   2   C   2     2B21-F325D   MS   2   C   2     2B21-F325D   MS   2   C   2     2B21-F325D   MS   2   C   2     2B21-F326A   MS   2   C   2     2B21-F326B   MS   2   C   2     2B21-F326B   MS   2   C   2     2B21-F326D   MS   2   C   2     2B21-F326D   MS   2   C   2     2B21-F327A   MS   2   C   2     2B21-F327B   MS   2   C   2     2B21-F327D   MS   2   C   2<	1E12-F360B	RH	$\frac{1}{2}$	Č ·	1
1E22-F304   HP   2   C   1     1G33-F309   RT   2   C   1     1G33-F312A   RT   2   C   1     1G33-F312B   RT   2   C   1     2B21-F325A   MS   2   C   2     2B21-F325B   MS   2   C   2     2B21-F325D   MS   2   C   2     2B21-F325D   MS   2   C   2     2B21-F326A   MS   2   C   2     2B21-F326B   MS   2   C   2     2B21-F326B   MS   2   C   2     2B21-F326D   MS   2   C   2     2B21-F326D   MS   2   C   2     2B21-F326D   MS   2   C   2     2B21-F327A   MS   2   C   2     2B21-F327D   MS   2   C   2     2B21-F327D   MS   2   C   2     2B21-F328A   MS   2   C   2	1E21-F304	LP	$\frac{1}{2}$	Č	1
1G33-F309   RT   2   C   1     1G33-F312A   RT   2   C   1     1G33-F312B   RT   2   C   1     2B21-F325A   MS   2   C   2     2B21-F325B   MS   2   C   2     2B21-F325D   MS   2   C   2     2B21-F325D   MS   2   C   2     2B21-F326A   MS   2   C   2     2B21-F326B   MS   2   C   2     2B21-F326B   MS   2   C   2     2B21-F326B   MS   2   C   2     2B21-F326D   MS   2   C   2     2B21-F326D   MS   2   C   2     2B21-F327A   MS   2   C   2     2B21-F327D   MS   2   C   2     2B21-F327D   MS   2   C   2     2B21-F328A   MS   2   C   2     2B21-F328B   MS   2   C	1E22-F304	HP	$\frac{1}{2}$	$\tilde{c}$	1
1G33-F312ART2C11G33-F312BRT2C12B21-F325AMS2C22B21-F325BMS2C22B21-F325CMS2C22B21-F325DMS2C22B21-F326AMS2C22B21-F326BMS2C22B21-F326CMS2C22B21-F326DMS2C22B21-F326DMS2C22B21-F327AMS2C22B21-F327DMS2C22B21-F327DMS2C22B21-F328AMS2C22B21-F328BMS2C22B21-F328DMS2C22B21-F328DMS2C2	1G33-F309	RT	$\frac{1}{2}$	Č	1
1G33-F312BRT2C12B21-F325AMS2C22B21-F325BMS2C22B21-F325CMS2C22B21-F325DMS2C22B21-F326AMS2C22B21-F326BMS2C22B21-F326DMS2C22B21-F326DMS2C22B21-F326DMS2C22B21-F327AMS2C22B21-F327DMS2C22B21-F328AMS2C22B21-F328BMS2C22B21-F328DMS2C22B21-F328DMS2C22B21-F328DMS2C2	1G33-F312A	RT	2 .	Č	1
2B21-F325AMS2C22B21-F325BMS2C22B21-F325CMS2C22B21-F325DMS2C22B21-F326AMS2C22B21-F326BMS2C22B21-F326DMS2C22B21-F326DMS2C22B21-F327AMS2C22B21-F327BMS2C22B21-F327DMS2C22B21-F328AMS2C22B21-F328DMS2C22B21-F328DMS2C2	1G33-F312B	RT	2	Č	1
2B21-F325BMS2C22B21-F325CMS2C22B21-F325DMS2C22B21-F326AMS2C22B21-F326BMS2C22B21-F326CMS2C22B21-F326DMS2C22B21-F327AMS2C22B21-F327BMS2C22B21-F327DMS2C22B21-F328AMS2C22B21-F328BMS2C22B21-F328DMS2C2	2B21-F325A	MS	$\frac{1}{2}$	Ċ	2
2B21-F325CMS2C22B21-F325DMS2C22B21-F326AMS2C22B21-F326BMS2C22B21-F326CMS2C22B21-F326DMS2C22B21-F327AMS2C22B21-F327BMS2C22B21-F327DMS2C22B21-F328AMS2C22B21-F328BMS2C22B21-F328DMS2C22B21-F328DMS2C2	2B21-F325B	MS	2	C	2
2B21-F325DMS2C22B21-F326AMS2C22B21-F326BMS2C22B21-F326CMS2C22B21-F326DMS2C22B21-F327AMS2C22B21-F327BMS2C22B21-F327DMS2C22B21-F328AMS2C22B21-F328BMS2C22B21-F328DMS2C22B21-F328DMS2C2	2B21-F325C	MS	2	C	2
2B21-F326AMS2C22B21-F326BMS2C22B21-F326CMS2C22B21-F326DMS2C22B21-F327AMS2C22B21-F327BMS2C22B21-F327DMS2C22B21-F328AMS2C22B21-F328BMS2C22B21-F328DMS2C2	2B21-F325D	MS	2	С	2
2B21-F326BMS2C22B21-F326CMS2C22B21-F326DMS2C22B21-F327AMS2C22B21-F327BMS2C22B21-F327CMS2C22B21-F327DMS2C22B21-F328AMS2C22B21-F328BMS2C22B21-F328DMS2C2	2B21-F326A	MS	2	С	2
2B21-F326CMS2C22B21-F326DMS2C22B21-F327AMS2C22B21-F327BMS2C22B21-F327CMS2C22B21-F327DMS2C22B21-F328AMS2C22B21-F328BMS2C22B21-F328DMS2C22B21-F328DMS2C2	2B21-F326B	MS	2	C	2
2B21-F326DMS2C22B21-F327AMS2C22B21-F327BMS2C22B21-F327CMS2C22B21-F327DMS2C22B21-F328AMS2C22B21-F328BMS2C22B21-F328CMS2C22B21-F328DMS2C2	2B21-F326C	MS	2	С	2
2B21-F327AMS2C22B21-F327BMS2C22B21-F327CMS2C22B21-F327DMS2C22B21-F328AMS2C22B21-F328BMS2C22B21-F328CMS2C22B21-F328DMS2C2	2B21-F326D	MS	2	С	2
2B21-F327BMS2C22B21-F327CMS2C22B21-F327DMS2C22B21-F328AMS2C22B21-F328BMS2C22B21-F328CMS2C22B21-F328DMS2C2	2B21-F327A	MS	2	C	2
2B21-F327CMS2C22B21-F327DMS2C22B21-F328AMS2C22B21-F328BMS2C22B21-F328CMS2C22B21-F328DMS2C2	2B21-F327B	MS	2	С	2
2B21-F327DMS2C22B21-F328AMS2C22B21-F328BMS2C22B21-F328CMS2C22B21-F328DMS2C2	2B21-F327C	MS	2	С	2
2B21-F328AMS2C22B21-F328BMS2C22B21-F328CMS2C22B21-F328DMS2C2	2B21-F327D	MS	2	С	2
2B21-F328BMS2C22B21-F328CMS2C22B21-F328DMS2C2	2B21-F328A	MS	2	С	2
2B21-F328C     MS     2     C     2       2B21-F328D     MS     2     C     2	2B21-F328B	MS	2	С	2
2B21-F328D MS 2 C 2	2B21-F328C	MS	2	С	· 2
	2B21-F328D	MS	2	C	2

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<u>System</u>	<u>Class</u>	<u>Category</u>	<u>Unit</u>
NB	2	C	2
NB	2	С	2
NB	2	С	2
NB	2	С	2
NB	2	С	2
NB	2	С	2
NB	2	С	2
NB	2	С	2
NB	2	С	2
NB	2	С	2
NB	2	С	2
. NB	2	С	2
NB	2	С	2
NB	2	С	2
NB	2	С	2
RI	2	C	2
RI	2	С	2
RI	2	С	2
RI	2	С	2
NB	2	С	2
NB	2	С	2
NB	2	C	2
NB	2	С	2
NB	2	С	2
NB	2	С	2
NB	2	С	2
NB	2	С	2
NB	2	С	2
NB	2	С	2
NB	2	C	2
NB	2	С	2
NB	2	С	2
NB	2	C	2
NB	2	С	2
NB	2	С	2
NB	2	C	2
NB	2	С	2
NB	2	С	2
NB	2	С	2
NB	2	C	2
	SystemNB <td>System     Class       NB     2       RI     2       RI     2       NB     2  <t< td=""><td>SystemClassCategoryNB2CNB2<!--</td--></td></t<></td>	System     Class       NB     2       RI     2       RI     2       NB     2 <t< td=""><td>SystemClassCategoryNB2CNB2<!--</td--></td></t<>	SystemClassCategoryNB2CNB2 </td

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<u>Valve Number</u>	<u>System</u>	<u>Class</u>	<u>Category</u>	<u>Unit</u>
2B21-F473	NB	2	C	2
2B21-F475A	NB	2	С	2
2B21-F475B	NB	2	С	2
2B21-F570	NB	2	С	2
2B21-F571	NB	2	С	- 2 -
2B33-F301A	RR	2	C	2
2B33-F301B	RR	2	С	2
2B33-F305A	RR	2	С	2
2B33-F305B	RR	2	С	2
2B33-F305C	RR	2	С	2
2B33-F305D	RR	2	С	2
2B33-F307A	RR	2	С	2
2B33-F307B	RR	2	С	2
2B33-F307C	RR	2	С	2
2B33-F307D	RR	2	С	2
2B33-F311A	RR	2	С	2
2B33-F311B	RR	2	С	2
2B33-F311C	RR	2	С	2
2B33-F311D	RR	2	C	2
2B33-F313A	RR	2	C	2
2B33-F313B	RR	2	С	2
2B33-F313C	RR	2	С	2
2B33-F313D	RR	2	C	2
2B33-F315A	RR	2	C	2
2B33-F315B	RR	2	С	2
2B33-F315C	RR	2	С	2
2B33-F315D	RR	2	С	2
2B33-F317A	RR	2	С	2
2B33-F317B	RR	2	C	2
2B33-F319A	RR	2	С	2
2B33-F319B	RR	2	С	- 2
2E12-F315	RH	2	С	2
2E12-F317	RH	2	С	2
2E12-F359A	RH	2	С	2
2E12-F359B	RH	- 2	С	2
2E12-F360A	RH	2	C	2
2E12-F360B	RH	2	С	2
2E21-F304	LP	2	С	- 2
2E22-F304	HP	2	С	2
2G33-F309	RT	2	С	2
2G33-F312A	RT	2	С	2
2G33-F312B	RT	2	C	2

Revision Date: 10/12/07

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#### **Background**

The ASME OM Code 2001 through 2003 Addenda section ISTC-1300, "Valve Categories", states in part:

"(a) Category A: valves for which seat leakage is limited to a specific maximum amount in the closed position for fulfillment of their required function(s), as specified in ISTA-1100;"

The ASME OM Code 2001 through 2003 Addenda section ISTC-3620, "Containment Isolation Valves", states in part:

"Containment isolation valves with a leakage rate requirement based on an Nonmandatory Appendix J program commitment shall be tested in accordance with the Owner's 10 CFR 50, Nonmandatory Appendix J program."

#### Position

1. Seat leakage testing of excess flow check valves is not required by the IST program.

Justification

Per UFSAR Table 6.2-21, note 33, these valves are located on lines which are sized with flow-restricting orifices to assure that in the event of a postulated failure of the piping or component, the potential offsite exposure would be substantially below the guidelines of 10 CFR 100. Therefore, these excess flow check valves do not have seat leakage requirements associated with them, and therefore are not categorized as "Category A" valves, but as "Category C". As a result, even though these excess check valves are classified as containment isolation valves, they are not required to be tested per the seat leakage requirements of Appendix J or ISTC-3600.

2. Close testing of EFCVs can be performed under minimal system pressure (greater than 600 psig) and can be verified either acoustically by listening for an audible "click" which signifies the poppet coming in contact with the valve seat, or by the verification of a significant reduction in flow through the valve. Position indication testing may be performed in conjunction with closure testing at reduced system pressures.

# **Technical Position TP-10**

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#### Justification

EFCVs are designed to close when the flow rate past the valve disk is sufficient to pull the disk to the closed position. Testing is typically performed by blowing down the instrument line during an inservice leak or hydrostatic test and verifying a distinctive 'click' made when the poppet valve seats or a quick reduction in flow. (Note that the function of these EFCVs is not to completely isolate the associated instrument line upon closure as a ¼" hole is drilled through the valve seat to allow for flow and continued operation of the sensing line.) System pressure has little impact on check valve performance during the closure test. In fact, a higher system pressure is likely to create a higher flow rate through the valve while it is open. Therefore, testing the valves at lower than design pressure should be conservative with respect to closure capability. The LaSalle excess flow check valve drawings indicate that these valves are designed to fully close at from 0.5 to 10 psid differential pressure, dependant upon the specific valve. (Drawings 11935-N16297, Rev. F and 14531, Rev. A)

#### **References**

- 1. USNRC letter from Domenic Vassallo to Dennis Farrar dated June 12, 1984.
- 2. GE Nuclear Energy "Excess Flow Check Valve Testing Relaxation", NEDO-32977-A, June 2000.

### History

In the LaSalle Second 10-Year IST Interval, the Technical Position addressing excess flow check valves was Corporate Technical Position TP-EXE-IST-98-02, Rev. 6.

### <u>Technical Position TP-11</u> (Rev. 0) (Page 1 of 2)

### <u>Testing of Power Operated Valves with Both</u> <u>Active and Passive Safety Functions</u>

#### Purpose

The purpose of this Technical Position is to establish the testing requirements for power operated valves that have both an active and passive safety function.

#### **Applicability**

This Technical Position is applicable to power operated valves that have an active safety function in one direction while performing a passive safety function in the other direction.

#### **Background**

The IST Program requires valves to be exercised to the position(s) required to fulfill their safety function(s). In addition, valves with remote position indication shall have their position indication verified. The Code does not restrict position indication to active valves.

#### **Position**

Several valves included in the plant are designed to perform passive safety functions during accident conditions, and then based on plant accident response, are designed to change positions to perform another (active) function. Once in their final position, there exist no conditions (for certain valves) in which they would be required to be placed in their original passive position.

These valves are typically emergency core cooling system valves, which require changing position during different phases of the accident. After the original passive safety function (e.g. provide flow path) is performed, the valves are repositioned to perform the active safety function (e.g. provide containment isolation or to allow injection from another water source). The valves may not be required to return to their original position.

Power operated valves with passive functions in one direction and active in the other will be exercised and stroke timed to only their active position. If these valves have position indication, the position indication verification will include verification of both positions.

## Technical Position TP-11 (Rev. 0) (Page 2 of 2)

### **Justification**

Code Interpretation 01-02 (response to inquiry OMI 99-07) addressed this issue.

Question: If a valve has safety functions in both the open and closed positions and is maintained in one of these positions, but is only required to move from the initial position to the other and is not required to return to the initial position, is stroke timing in both directions required?

Reply: No

#### <u>History</u>

In the LaSalle Second 10-Year IST Interval the Technical Position addressing the Testing of Power Operated Valves with Both Active and Passive Safety Functions was Corporate Technical Position TP-EXE-IST-03-01, Rev. 0.

# Technical Position TP-12 (Rev. 0) (Page 1 of 5)

### **Cold Shutdown Testing**

#### Purpose

The purpose of this Technical Position is to establish the methodology behind the determination of when to perform Cold Shutdown Testing giving consideration to the potential of having an inert atmosphere in containment.

#### **Applicability**

This Technical Position is applicable to periods when the plant enters Cold Shutdown (i.e. Mode 4) and the containment atmosphere has not been de-inerted.

#### **Background**

The ASME OM Code provides guidance on performing Inservice Testing on valves given whether the plant is in operating, cold shutdown, or refueling mode. However, when combined with a containment/drywell that is required to maintain an inert atmosphere during some operational conditions, the ability to determine when testing should occur is more open to interpretation.

The ASME OM Code 2001 through 2003 Addenda section ISTC-3521, "Category A and Category B Valves", states:

"Category A and Category B valves shall be tested as follows:

(a) full-stroke exercising of Category A and Category B valves during operation at power to the position(s) required to fulfill its function(s), and exercising or examining check valves during plant operation in a manner that verifies obturator travel to the closed, full-open, or partially open position required to fulfill its functions(s);

## Technical Position TP-12 (Rev. 0) (Page 2 of 5)

(b) if full-stroke exercising during operation at power is not practicable, it may be limited to part-stroke during operation at power and full-stroke during cold shutdowns:

(c) if exercising is not practicable during operation at power, it may be limited to full-stroke exercising during cold shutdowns;

(d) if exercising is not practicable during operation at power and full-stroke during cold shutdowns is also not practicable, it may be limited to part-stroke during cold shutdowns, and full-stroke during refueling outages

(e) If exercising is not practicable during operation at power or cold shutdowns, it may be limited to full-stroke during refueling outages:

(f) valves full-stroke exercised at cold shutdowns shall be exercised during each cold shutdown, except as specified in ISTC-3521(g). Such exercise is not required if the time period since the previous full stroke exercise is less than 3 months. During extended shutdowns, valves that are required to perform their intended functions (see ISTA-1100) shall be exercised every 3 months, if practicable:

(g) valve exercising during cold shutdown shall commence within 48 hr of achieving cold shutdown and continue until all testing is complete or the plant is ready to return to operation at power. For extended outages, testing need not be commenced in 48 hr, provided all valves required to be tested during cold shutdown will be tested before or as part of plant startup. However, it is not the intent of this Subsection to keep the plant in cold shutdown to complete cold shutdown testing;"

The ASME OM Code 2001 through 2003 Addenda section ISTC-3522, "Category C Check Valves", states:

"Category C valves shall be exercised as follows:

(a) During operation at power, each check valve shall be exercised or examined in a manner that verifies obturator travel by using the methods in ISTC-5221.

## Technical Position TP-12 (Rev. 0) (Page 3 of 5)

Each check valve exercise test shall include open and close tests. Open and close tests need only be performed in an interval then it is practicable to perform both tests. Test order (e.g., whether the open test precedes the close test) shall be determined by the Owner. Open and close tests are not required to be performed at the same time if they are both performed within the same interval.

(b) If exercising is not practicable during operation at power, it shall be performed during cold shutdowns:

(c) If exercising is not practicable during operation at power and cold shutdown, it may be performed during refueling outages.

(d) Valves exercised at shutdowns shall be exercised during each shutdown, except as specified in ISTC-3522(e). Such exercise is not required if the interval since the previous exercise is less than 3 months. During extended shutdowns, valves that are required to perform their intended functions (see ISTA-1100) shall be exercised every 3 months, if practicable;

(e) Valve exercising shall commence within 48 hr of achieving cold shutdown and continue until all testing is complete or the plant is ready to return to operation at power. For extended outages, testing need not be commenced in 48 hr, provided all valves required to be tested during cold shutdown will be tested before or as part of plant startup. However, it is not the intent of this Subsection to keep the plant in cold shutdown to complete cold shutdown testing;"

NUREG 1482, Revision 1, section 3.1.1.3, "De-Inerting Containment of Boiling-Water Reactors To Allow Cold Shutdown Testing", states:

"According to 10 CFR 50.54, "Standards for Combustible Gas Control System in Light-Water-Cooled Power Reactors," each BWR that is equipped with a Mark I or Mark II containment must have provisions for an inerted containment atmosphere during power operation to protect against a burn or explosion of hydrogen gas generated by the core metal-water reaction following a postulated loss-of-coolant accident (LOCA).

Licensees regularly monitor oxygen content in the containment atmosphere during normal power operation, and the plant's TSs specify the maximum oxygen concentrations allowed. Since hydrogen generation is not a concern during cold shutdown or refueling outages, the TSs allow the containment atmosphere to be de-inerted. However, licensees do not routinely de-inert the containment during

## Technical Position TP-12 (Rev. 0) (Page 4 of 5)

cold shutdown outages because of impracticality concerns associated with the time needed to de-inert and re-inert the containment, and because of the amount of nitrogen necessary for inerting.

For certain valves that are located in the inerted containment, Subsection ISTC 3500 allows Licensees to perform testing during cold shutdown outages because it is not practical to test such valves during power operation. The staff has determined that it is impractical to de-inert the containment during each cold shutdown outage solely to perform such routine testing or repair activities.

#### NRC Recommendation

The staff considers it impractical to de-inert the containment merely to conduct regularly scheduled valve testing, and the ASME Code allows licensees to defer such testing to a refueling outage when the containment is de-inerted for refueling or other reasons. The staff has also determined that few outages require de-inerting, and it is unnecessary to maintain a separate schedule for valve testing. Consequently, testing is at the discretion of the licensee in the event of an extended could shutdown that necessitates de-inerting the containment. Factors to be considered in the licensee's decision-making might include the length of the shutdown and the extent of other outage activities. In addition, for extended outage that last several months, the requirements of Subsection ISTC 3570 may apply for valves in systems that are out-of-service.

#### Basis for Recommendation

Section ISTC of the OM Code allows licensees to extend the test interval to defer valve testing to refueling outages if such testing is impractical at quarterly intervals (during power operations) or during cold shutdown outages. Consequently, it is also acceptable for licensees to extend the test interval for valves that cannot be tested unless the containment is de-inerted.

Unless the licensee has some other reason to enter the drywell during cold shutdown outages, it is impractical to de-inert the drywell during such outages merely to perform valve testing because of the time and effort needed to de-inert, re-inert, and replace lost nitrogen gas (which could delay the plant's return to power operation). Most plants with custom TSs must reduce the primary containment oxygen content to less than 4 percent within 24 hours of placing the reactor mode switch in the "run" position. If, for any reason, the licensee is unable to establish the proper oxygen concentration, the plant must return to the

## Technical Position TP-12 (Rev. 0) (Page 5 of 5)

startup mode. Plants using the standard technical specifications are also restricted, in that the licensee must establish the proper oxygen content with 24 hours of exceeding 15-percent thermal power. If, for any reason, the licensee is unable to establish the proper oxygen concentration, the plant must enter a shutdown action statement. In either case, the return to power could be significantly delayed."

### **Position**

Those valves for which the containments/drywell inert atmosphere has been determined to be a factor in determining whether it is impractical or not to perform testing during operating or cold shutdown conditions, the following guidance will be used by LaSalle County Station:

- The testing of valves not previously tested within the last three months shall commence within 48 hours of reaching cold shutdown provided the drywell has been de-inerted and is safe to enter. (The 48- hour clock does not start until the drywell has been designated as de-inerted.)
- If the drywell has not been de-inerted, testing need not be performed.
- The containment drywell atmosphere will not be de-inerted solely to perform the Inservice Testing of valves.
- Actions to re-inert the containment drywell will not be delayed in order to complete Inservice Testing of valves unless cold shutdown was entered from a refueling mode or unless the cold shutdown has been classified as an "extended" cold shutdown, in which case all cold shutdown testing is required to be completed prior to proceeding into the operational modes per ISTC 3521(g) and ISTC 3522(e).

Technical Position TP-13 (Rev. 0) (Page 1 of 2)

### Comprehensive Pump Testing Reference Point Determination

#### Purpose

The purpose of this Technical Position is to establish the methodology used in determining reference value(s) for Comprehensive Pump Testing.

#### **Applicability**

This Technical Position is applicable to all pumps that are tested within the IST Program per the requirements of ASME ISTB.

#### **Background**

In the 1995 Edition of the ASME OM Code, the concept of a 'Comprehensive Pump Test' was introduced. A Comprehensive Pump Test, as compared to the quarterly type of pump testing specified to be performed in earlier versions of the Code, requires that the pump be tested at conditions approaching its 'design flow'. Previously the pump only needed to be tested utilizing a reference point on the pump curve that was repeatable, and if practical, close to the pumps design conditions.

Now there is no choice. At least once every two years, the Owner must perform a pump test during which the pump is operating within 20% of its 'design flow' rate to satisfy ISTB-3300(e)(1).

There have since developed two schools of thought when it comes to defining the pumps 'design flow' rate. From the ASME Code standpoint, the 'design flow' rate is that flow rate to which the pump was manufactured. To the Nuclear Utility, the 'design flow' rate is that flow rate credited within the plants Safety Analysis that the specific pump must be capable of providing.

For example, a site has a pump which was designed by its manufacturer to develop a flow of 30,000 gpm at a differential pressure of 250 psid, which is installed in an application that per the site's Safety Analysis has a design requirement to produce 23,750 gpm to satisfy it's safety related function.

# Technical Position TP-13

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ASME OM Code 2001 through 2003 Addenda, section ISTB-3300(e), "Reference Values", states:

"Reference values shall be established within region(s) of relatively stable pump flow.

- (1) Reference values shall be established within  $\pm 20\%$  of pump design flow rate for the comprehensive test,
- (2) Reference values shall be established within  $\pm 20\%$  of pump design flow for the Group A and Group B tests, if practicable. If not practicable, the reference point flow rate shall be established at the highest practical flow rate.

### **Position**

It is the position of the LaSalle County Station that the 'design flow', is that flow as specified within the site's Safety Analysis. Determination of reference values for pumps within the Inservice Testing Program will be determined utilizing the applicable ASME Code sections, utilizing the definition of a pump's 'design flow' as that flow specified by the site's Safety Analysis, or subsequent analyses.

#### **Justification**

While the ASME Code Committee is ultimately concerned with the operation of equipment as per it's manufacture's design, the nuclear industry is primarily concerned with the ability to protect the health and safety of the general public. Therefore, verification of the design basis of our plant is primary to our goals. To attempt to verify the equipment manufacturer's design may result in exceeding the design tolerances associated with the pump's support/supported equipment and piping. This could reduce the life and overstress these support/supported components; components that could ultimately be called upon to support the safe shutdown of the plant following an accident.

In addition, there is no added benefit, either in cost or reliability, from the plant's perspective, to perform testing beyond that required by the design.

# **ATTACHMENT 14**

# **INSERVICE TESTING PUMP TABLE INDEX**

System Designator	System Description
DG	Diesel Generator
DO	Diesel Fuel Oil
FC	Fuel Pool Cooling
HP	High Pressure Core Spray
LP	Low Pressure Core Spray
RH	Residual Heat Removal
RI	Reactor Core Isolation Cooling
SC	Standby Liquid Control

**Revision Date:** 10/12/07

# **ATTACHMENT 15**

## **INSERVICE TESTING PUMP TABLE**

Revision Date: 10/24/08

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#### **Diesel Generator**

Pump EPN	P&ID	P&ID Coor.	IST Group	Safety Class	Pump Type	Pump Driver	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
0-ACSOAKBACK	M-83-4	B6	N/A	3	PD	Motor	SKID	M3			TP-09
	Pump Name	0 DG	AC Soak Ba	ick Pump							
0-DCSOAKBACK	M-83-4	B6	N/A	3	PD	Motor	SKID	M3			TP-09
	Pump Name	0 DG	DC Soak Ba	ack Pump							
0DG01P	M-87-2	C7	Group A	3	С	Motor	dP (a)	M3 '			TP-06
							dP (c)	Y2			TP-06
							Q (a)	M3			TP-06
4							Q (c)	Y2			TP-06
							V (a)	MЗ			TP-06
							V (c)	Y2			TP-06
	Pump Name	0 Dies	sel Generato	or Cooling V	Vater Pum	р					
0-DGMAINLUBE	M-83-4	B3	N/A	NC	PD	Engine	SKID	M3			TP-09
	Pump Name	0 DG	Main Lube (	Dil Pump							
0-DGOILCIRC	M-83-4	B5	N/A	NC	PD	Motor	SKID	M3			TP-09
	Pump Name	0 DG	Oil Circulati	ng Pump							
0-DGPISTON	M-83-4	B2	N/A	NC	PD	Engine	SKID	M3			TP-09
	Pump Name	0 DG	Piston Cooli	ng Oil Pur	np						
0-DGSCAVENGE	M-83-4	B4	N/A	3	PD	Engine	SKID	M3			TP-09
	Pump Name	0 DG	Scavenging	Oil Pump							
1A-ACSOAKBACK	M-83-4	B6	N/A	3	PD	Motor	SKID	M3			TP-09
	Pump Name	1A D0	G AC Soak E	Back Pump	•						
1A-DCSOAKBACK	M-83-4	B6	N/A	3	PD	Motor	SKID	M3			TP-09
	Pump Name	1A D0	G DC Soak E	Back Pump							
1A-DGMAINLUBE	M-83-4	B3	N/A	NC	PD	Engine	SKID	M3			TP-09
	Pump Name	1A D0	G Main Lube	Oil Pump							
1A-DGOILCIRC	M-83-4	B5	N/A	NC	PD	Motor	SKID	M3			TP-09
	Pump Name	1A D0	G Oil Circula	ting Pump							
1A-DGPISTON	M-83-4	B2	N/A	NC	PD	Engine	SKID	M3			TP-09
	Pump Name	1A D(	G Piston Coo	oling Oil Pu	mp						
1A-DGSCAVENGE	M-83-4	B4	N/A	3	PD	Engine	SKID	M3			TP-09
	Pump Name	1A D0	G Scavengin	g Oil Pump	)						
1B-ACSOAKBACK	M-83-4	E6	N/A	3	PD	Motor	SKID	M3			TP-09
	Pump Name	18 DC	G AC Soak E	Back Pump							
1B-DCSOAKBACK	M-83-4	E6	N/A	3	PD	Motor	SKID	M3			TP-09
	Pump Name	1B D0	G DC Soak E	Back Pump							
1B-DGMAINLUBE	M-83-4	E3	N/A	NC	PD	Engine	SKID	M3		<u></u>	TP-09
	Pump Name	18 DC	G Main Lube	Oil Pump							
1B-DGOILCIRC	M-83-4	E5	N/A	NC	PD	Motor	SKID	M3			TP-09
	Pump Name	1B D(	G Oil Circula	ting Pump							

**Revision Date:** 

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#### **Diesel Generator**

Pump EPN	P&ID	P&ID Coor.	IST Group	Safety Class	Pump Type	Pump Driver	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1B-DGPISTON	M-83-4	E2	N/A	NC	PD	Engine	SKID	M3			TP-09
	Pump Name	1B D0	G Piston Coo	oling Oil Pu	Imp						
1B-DGSCAVENGE	M-83-4	E4	N/A	3	PD	Engine	SKID	M3			TP-09
	Pump Name	1B D0	G Scavengin	g Oil Pum	5						
1DG01P	M-87-1	D7	Group A	3	С	Motor	dP (a)	M3			TP-06
							dP (c)	Y2			TP-06
						,	Q (a)	MЗ			TP-06
							Q (c)	Y2		•	TP-06
							V (a)	MЗ			TP-06
							V (c)	Y2			TP-06
	Pump Name	1A Di	esel Genera	tor Cooling	g Water Pu	mp					
2A-ACSOAKBACK	M-83-4	B6	N/A	3	PD	Motor	SKID	М3			TP-09
	Pump Name	2A D(	G AC Soak E	Back Pump	)						
2A-DCSOAKBACK	M-83-4	B6	N/A	3	PD	Motor	SKID	MЗ			TP-09
	Pump Name	2A D(	G DC Soak E	Back Pump	)						
2A-DGMAINLUBE	M-83-4	B3	N/A	NC	PD	Engine	SKID	M3			TP-09
	Pump Name	2A D(	G Main Lube	Oil Pump							
2A-DGOILCIRC	M-83-4	B5	N/A	NC	PD	Motor	SKID	M3			TP-09
	Pump Name	2A D(	G Oil Circula	ting Pump							
2A-DGPISTON	M-83-4	B2	N/A	NC	PD	Engine	SKID	M3			TP-09
	Pump Name	2A D0	G Piston Co	oling Oil Pu	Imp						
2A-DGSCAVENGE	M-83-4	B4	N/A	3	PD	Engine	SKID	M3			TP-09
	Pump Name	2A D(	G Scavengin	ıg Oil Pum	p						
2B-ACSOAKBACK	M-83-4	E6	N/A	3	PD	Motor	SKID	MЗ			TP-09
	Pump Name	2B D(	G AC Soak E	Back Pump	)						
2B-DCSOAKBACK	M-83-4	E6	N/A	3	PD	Motor	SKID	M3		<u></u>	TP-09
	Pump Name	2B D(	G DC Soak &	Back Pump	<b>)</b> .						
2B-DGMAINLUBE	M-83-4	E3	N/A	NC	PD	Engine	SKID	M3			TP-09
. ,	Pump Name	28 D	G Main Lube	Oil Pump							
2B-DGOILCIRC	M-83-4	E5	N/A	NC	PD	Motor	SKID	M3		<u>.</u>	TP-09
	Pump Name	28 D	G Oil Circula	ting Pump							,
2B-DGPISTON	M-83-4	E2	N/A	NC	PD	Engine	SKID	M3			TP-09
	Pump Name	2B D	G Piston Co	oling Oil Pu	ump	2					
2B-DGSCAVENGE	M-83-4	E4	N/A	3	PD	Engine	SKID	M3			TP-09
	Pump Name	2B D	G Scavengir	ng Oil Purn	р	2			•		

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#### LaSalle Station IST PROGRAM PLAN

#### **Diesel Generator**

Pump EPN	P&ID	P&ID Coor.	IST Group	Safety Class	Pump Type	Pump Driver	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2DG01P	M-134-1	D7	Group A	3	С	Motor	dP (a)	MЗ			TP-06
							dP (c)	Y2			TP-06
							Q (a)	МЗ			TP-06
							Q (c)	Y2			TP-06
							V (a)	MЗ			TP-06
							V (c)	Y2			TP-06
	Pump Name	2A Di	esel Generat	or Cooling	Water Purr	ιp					

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Pump EPN	P&ID	P&ID Coor.	IST Group	Safety Class	Pump Type	Pump Driver	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
0DO01P	M-85-1	C4	N/A	3	С	Motor	SKID	М3			TP-09
	Pump Name	0 Dies	el Generato	or Fuel Trai	nsfer Pump	)					
1D001P	M-85-1	C6	N/A	3	С	Motor	SKID	M3			TP-09
	Pump Name	1A Die	sel Genera	tor Fuel Tr	ansfer Purr	ηp					
1DO02P	M-85-1	C1	N/A	3	С	Motor	SKID	M3			TP-09
	Pump Name	1B Die	sel Genera	tor Fuel Tr	ansfer Pum	qr					•
2DO01P	M-132	C6	N/A	3	С	Motor	SKID	M3			TP-09
	Pump Name	2A Die	sel Genera	tor Fuel Tr	ansfer Pun	qr					
2DO02P	M-132	C4	N/A	3	С	Motor	SKID	M3 .			TP-09
	Pump Name	2B Die	sel Genera	tor Fuel Tr	ansfer Pun	ηp					

**Diesel Fuel Oil** 

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#### Fuel Pool Cooling

Pump EPN	P&ID	P&ID Coor.	IST Group	Safety Class	Pump Type	Pump Driver	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1FC03PA	M-87-2	E7	Group B	3	С	Motor	dP (b)	MЗ			TP-06
				,			dP (c)	Y2			TP-06
							Q (b)	MЗ			TP-06
							Q (c)	Y2			TP-06
							V (c)	Y2			TP-06
	Pump Name	1A Fu	iel Pool Eme	rgency Ma	ike-Up Pun	np .					
1FC03PB	M-87-1	C7	Group B	3	С	Motor	dP (b)	M3			TP-06
							dP (c)	Y2			TP-06
							<b>Q</b> (b)	M3			TP-06
							Q (c)	Y2			TP-06
							V (c)	Y2			TP-06
	Pump Name	1B Fu	iel Pool Eme	rgency Ma	ike-Up Pun	np					
2FC03PA	M-134-2	E7	Group B	3	С	Motor	dP (b)	M3			TP-06
							dP (c)	Y2			TP-06
							Q (b)	М3			TP-06
							Q (c)	Y2			TP-06
							V (c)	Y2			TP-06
	Pump Name	2A Fu	iel Pool Eme	rgency Ma	ike-Up Pun	np					
2FC03PB	M-134-1	C7	Group B	3	С	Motor	dP (b)	MЗ	<u> </u>		TP-06
							dP (c)	Y2			TP-06
							Q (b)	M3			TP-06
							Q (c)	Y2			TP-06
							V (c)	Y2			TP-06
	Pump Name	2B Fu	el Pool Eme	rgency Ma	ike-Up Pun	np					

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#### High Pressure Core Spray

Pump EPN	P&ID	P&ID Coor.	IST Group	Safety Class	Pump Type	Pump Driver	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1E22-C001	M-95	C2	Group B	2	VLS	Motor	dP (b)	M3			TP-06
							dP (c)	Y2			TP-06
							Q (b)	MЗ			TP-06
							Q (c)	Y2			TP-06
							V (c)	Y2			TP-06
	Pump Name	U-1 H	igh Pressure	Core Spr	ay Pump						
1E22-C002	M-87-1	B7	Group A	3	С	Motor	dP (a)	MЗ			TP-06
							dP (c)	Y2			TP-06
					,		Q (a)	M3			TP-06
							Q (c)	Y2			TP-06
							V (a)	M3			TP-06
							V (c)	Y2			TP-06
	Pump Name	U-1 (H	HPCS) Diese	I Gen Coo	ling Water	Pump					
1E22-C003	M-95	D4	Group A	2	С	Motor	dP (a)	M3			TP-06
							dP (c)	Y2	RP-02		TP-06
							Q (a)	МЗ	RP-01		TP-06
							Q (c)	Y2	RP-02		TP-06
							V (a)	M3			TP-06
							V (c)	Y2	RP-02		TP-06
· .	Pump Name	U-1 H	ligh Pressure	Spray Wa	ater Leg Pu	Imp					
2E22-C001	M-141	C2	Group B	2	VLS	Motor	dP (b)	M3		· · · · ·	TP-06
							dP (c)	Y2			TP-06
							Q (b)	MЗ			TP-06
							Q (c)	Y2			TP-06
							V (c)	Y2			TP-06
	Pump Name	U-2 H	ligh Pressure	Core Spr	ay Pump						
2E22-C002	M-134-1	B7	Group A	- 3	С	Motor	dP (a)	M3			TP-06
							dP (c)	Y2			TP-06
							Q (a)	MЗ			TP-06
							Q (c)	Y2			TP-06
							V (a)	M3			TP-06
							V (c)	Y2			TP-06
	Pump Name	U-2 (ł	HPCS) Diese	i Gen Coo	ling Water	Pump					
2E22-C003	M-141	D4	Group A	2	С	Motor	dP (a)	M3			TP-06
							dP (c)	Y2	RP-02		TP-06
							Q (a)	M3	RP-01		TP-06
							Q (c)	Y2	RP-02		TP-06
							V (a)	МЗ			TP-06
							V (c)	Y2	RP-02		TP-06
	Pump Name	U-2 H	ligh Pressure	Spray Wa	ater Lea Pu	imo					

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#### Low Pressure Core Spray

Pump EPN	P&ID	P&ID Coor.	IST Group	Safety Class	Pump Type	Pump Driver	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1E21-C001	M-94	B2	Group B	2	VLS	Motor	dP (b)	MЗ			TP-06
							dP (c)	Y2			TP-06
							Q (b)	M3			TP-06
							Q (c)	Y2			TP-06
							V (c)	Y2			TP-06
	Pump Name	U-1 L	ow Pressure	Core Spra	ay Pump						
1E21-C002	M-94	B3	Group A	2	С	Motor	dP (a)	M3			TP-06
							dP (c)	Y2	RP-02		TP-06
							Q (a)	MЗ	RP-01		TP-06
							Q (c)	Y2	RP-02		TP-06
							V (a)	MЗ			TP-06
							V (c)	Y2	RP-02		TP-06
	Pump Name	U-1 L	ow Press Co	re Spray V	Water Leg I	Pump					
2E21-C001	M-140	C2	Group B	2	VLS	Motor	dP (b)	MЗ			TP-06
							dP (c)	Y2			TP-06
							Q (b)	MЗ			TP-06
							Q (c)	Y2			TP-06
							V (c)	Y2			TP-06
	Pump Name	U-1 L	ow Pressure	Core Spra	ay Pump						
2E21-C002	M-140	B3	Group A	2	С	Motor	dP (a)	M3		<u></u>	TP-06
							dP (c)	Y2	RP-02		TP-06
							Q (a)	MЗ	RP-01		TP-06
							Q (c)	Y2	RP-02		TP-06
							V (a)	MЗ			TP-06
							V (c)	Y2	RP-02		TP-06
	Pump Name	U-2 L	ow Press Co	re Spray V	Water Leg F	Pump					

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#### **Residual Heat Removal**

Pump EPN	P&ID	P&ID Coor.	IST Group	Safety Class	Pump Type	Pump Driver	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1E12-C002A	M-96-1	A5	Group A	2	VLS	Motor	dP (a)	M3			TP-06
							dP (c)	Y2			TP-06
							Q (a)	М3			TP-06
							Q (c)	Y2			TP-06
							V (a)	МЗ			TP-06
							V (c)	Y2			TP-06
	Pump Name	1A Re	esidual Heat	Removal I	Pump						
1E12-C002B	M-96-2	B4	Group A	2	VLS .	Motor	dP (a)	M3			TP-06
							dP (c)	Y2			TP-06
							Q (a)	МЗ			TP-06
					÷		Q (c)	¥2			TP-06
						•	V (a)	МЗ	·		TP-06
							V (c)	Y2			TP-06
	Pump Name	18 Re	esidual Heat	Removal I	Pump						
1E12-C002C	M-96-3	85	Group B	2	VLS	Motor	dP (b)	M3	<del></del>		TP-06
							dP (c)	Y2			TP-06
							Q (b)	МЗ			TP-06
							Q (c)	Y2			TP-06
							V (c)	Y2			TP-06
	Pump Name	1C Re	esidual Heat	Removal	Pump (LPC	4)					
1E12-C003	M-96-3	A7	Group A	2	С	Motor	dP (a)	M3			TP-06
							dP (c)	Y2	RP-02		TP-06
							Q (a)	MЗ	RP-01		TP-06
							Q (c)	Y2	RP-02		TP-06
							V (a)	МЗ			TP-06
							V (c)	Y2	RP-02		TP-06
	Pump Name	U-1 R	IHR Water Le	eg Pump (	DIV. II)						
1E12-C300A	M-87-2	A7	Group A	3	С	Motor	dP (a)	M3			TP-06
							dP (c)	Y2			TP-06
							Q (a) .	MЗ			TP-06
							Q (c)	Y2			TP-06
							V (a)	М3			TP-06
							V (c)	Y2			TP-06
	Pump Name	1A RI	HR Service V	Vater Pum	ip (DIV. I)						_

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#### **Residual Heat Removal**

Pump EPN	P&ID	P&ID Coor.	IST Group	Safety Class	Pump Type	Pump Driver	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1E12-C300B	M-87-2	B7	Group A	3	С	Motor	dP (a)	M3			TP-06
							dP (c)	Y2			TP-06
							Q (a)	М3			TP-06
							Q (c)	Y2			TP-06
							V (a)	M3			TP-06
			·				V (c)	Y2			TP-06
	Pump Name	1B RH	HR Service V	Vater Pum	p (DIV. I)						
1E12-C300C	M-87-1	E7	Group A	3	С	Motor	dP (a)	M3			TP-06
							dP (c)	Y2			TP-06
							Q (a)	MЗ			TP-06
							Q (c)	Y2			TP-06
			·				V (a)	MЗ			TP-06
							V (c)	Y2			TP-06
	Pump Name	1C RI	HR Service V	Vater Pum	p (DłV. II)						
1E12-C300D	M-87-1	F7	Group A	3	С	Motor	dP (a)	M3			TP-06
· .							dP (c)	Y2			TP-06
							Q (a)	MЗ			TP-06
							Q (c)	Y2			TP-06
							V (a)	МЗ			TP-06
							V (c)	Y2			TP-06
	Pump Name	1D RI	HR Service V	Vater Pum	p (DIV. II)						
2E12-C002A	M-142-1	A5	Group A	2	VLS	Motor	dP (a)	M3			TP-06
							dP (c)	Y2			TP-06
							Q (a)	M3			TP-06
							Q (c)	Y2			TP-06
							V (a)	MЗ	·		TP-06
							V (c)	Y2			TP-06
	Pump Name	2A Re	esidual Heat	Removal F	oump						
2E12-C002B	M-142-2	B4	Group A	2	VLS	Motor	dP (a)	M3			TP-06
							dP (c)	Y2			TP-06
							Q (a)	M3			TP-06
							Q (c)	Y2			TP-06
							V (a)	МЗ			TP-06
							V (c)	Y2			TP-06
2200-000 ···	Pump Name	2B Re	sidual Heat	Removal F	omp						

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Pump EPN     PdiD     PdiD     PdiD     Group     Safety Crass     Pump Type     Pump Priver     Test Type     Fest, Freq, Pre, Pre, Pre, Pre, Pre, Pre, Pre, Pre						idaan no						
ZE12-C002C     M-142-3     B5     Group B     2     VLS     Motor     dP (b)     M3     TP-66       Q (b)     M 3     TP-66     Q (b)     M 3     TP-66     Q (b)     M 3     TP-66       Q (b)     M 3     TP-66     Q (b)     M 3     TP-66     Q (c)     Y2     TP-66       V (c)     Y2     TP-66     Q (c)     Y2     TP-66     Q (c)     Y2     TP-66       V (c)     Y2     TP-66     Q (c)     Y2     RP-02     TP-66       Q (c)     Y2     RP-02     TP-66     Q (c)     Y2     RP-02     TP-66       Q (c)     Y2     RP-02     TP-66     Q (c)     Y2     RP-02     TP-66       V (c)     Y2     RP-02     TP-66     Q (c)     Y2     RP-02     TP-66       V (c)     Y2     RP-02     TP-66     Q (c)     Y2     RP-02     TP-66       V (c)     Y2     RP-02     TP-66     Q (c)     Y2     TP-66     Q (	Pump EPN	P&ID	P&ID Coor.	IST Group	Safety Class	Pump Type	Pump Driver	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
dP (c)     Y2     TP-66       Q (b)     M3     TP-66       Q (c)     Y2     RP-02     TP-66       Q (c)     Y2     TP-66     Q (c)     Y2     TP-66       Q (a)     M3     TP-66     Q (c)     Y2     TP-66       Q (a)     M3     TP-66     Q (c)     Y2     TP-66       Q	2E12-C002C	M-142-3	B5	Group B	2	VLS	Motor	dP (b)	M3			TP-06
Pump Name     2C Residual Heat Removal Pump (LPCI)     M3     TP-06 V(c)     Y2     TP-06 V(c)       2E12-C003     M-142-3     A7     Group A     2     C     Motor     dP (a)     M3     TP-06       2E12-C003     M-142-3     A7     Group A     2     C     Motor     dP (a)     M3     TP-06       Q(a)     M3     RP-01     TP-06     Q(a)     M3     RP-02     TP-06       Q(a)     M3     RP-01     TP-06     Q(c)     Y2     RP-02     TP-06       Q(a)     M3     RP-01     TP-06     Q(c)     Y2     RP-02     TP-06       V(a)     M3     TP-06     Q(c)     Y2     RP-02     TP-06       V(a)     M3     TP-06     Q(c)     Y2     RP-02     TP-06       Q(a)     M-134-2     B6     Group A     3     C     Motor     dP (a)     M3     TP-06       V(a)     M3     TP-06     Q(a)     M3     TP-06     Q(a)     M3 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>dP (c)</td><td>Y2 -</td><td></td><td></td><td>TP-06</td></td<>								dP (c)	Y2 -			TP-06
Pump Name     2C Residual Heat Removal Pump (LPCI)     Y2     TP-06       2E12-C003     M-142-3     A7     Group A     2     C     Motor     dP (a)     M3     TP-06       2E12-C003     M-142-3     A7     Group A     2     C     Motor     dP (a)     M3     RP-02     TP-06       Q (a)     M3     RP-01     TP-06     Q (a)     M3     RP-01     TP-06       Q (c)     Y2     RP-02     TP-06     Q (a)     M3     RP-01     TP-06       Q (c)     Y2     RP-02     TP-06     Q (a)     M3     TP-06       Pump Name     U-2 RHR Water Leg Pump (DIV. II)      TP-06     Q (a)     M3     TP-06       Q (a)     M3     TP-06     Q (a)     M3     TP-06     Q (a)     M3     TP-06       Q (a)     M3     TP-06     Q (a)     M3     TP-06     Q (a)     M3     TP-06       Q (a)     M3     TP-06     Q (a)     M3     TP-06     Q (a)     M3				·				Q (b)	MЗ			TP-06
Pump Name     2C Residual Heat Removal Pump (LPCI)     Y2     TP-06       2E12-C003     M-142-3     A7     Group A     2     C     Motor     dP (a)     M3     TP-06       2E12-C003     M-142-3     A7     Group A     2     C     Motor     dP (a)     M3     TP-06       Q (a)     M3     RP-02     TP-06     Q (a)     M3     TP-06       Q (a)     M3     RP-02     TP-06     V (a)     M3     TP-06       Q (a)     M3     RP-02     TP-06     V (a)     M3     TP-06       V (a)     M3     C     Motor     dP (a)     M3     TP-06       Q (a)     M3     TP-06     Q (a)     M3     TP-06       Q (a)     M-134-2     C6     Group A     3<								Q (c)	Y2			TP-06
Pump Name     2C Residual Heat Removal Pump (LPC)       2E12-C003     M-142-3     A7     Group A     2     C     Motor     dP (a)     M3     TP-06       dP (c)     Y2     RP-02     TP-06     Q (a)     M3     RP-01     TP-06       Q (a)     M3     RP-01     TP-06     Q (a)     M3     RP-02     TP-06       V (a)     M3								V (c)	Y2			TP-06
2E12-C003     M-142-3     A7     Group A     2     C     Motor     dP (s)     M3     TP-06       dP (c)     Y2     RP-02     TP-06     Q (a)     M3     RP-11     TP-06     Q (c)     Y2     RP-02     TP-06     Q (a)     M3     RP-02     TP-06     Q (a)     M3		Pump Name	2C R	esidual Heat	Removal I	Pump (LPC	21)					
dP (c)     Y2     RP-02     TP-06       Q (a)     M3     RP-01     TP-06       Q (c)     Y2     RP-02     TP-06       Q (c)     Y2     RP-02     TP-06       V (a)     M3     RP-01     TP-06       V (a)     M3     RP-02     TP-06       V (a)     M3     RP-02     TP-06       V (a)     M3     RP-02     TP-06       Q (a)     M3     TP-06     Q (a)     M3     TP-06       V (a)     M3     TP-06     Q (a)     M3     TP-06       Q (a)     M3     TP-06     Q (a)     M3     TP-06       Q (a)     M3     TP-06     Q (a)     M3	2E12-C003	M-142-3	A7	Group A	2	· C	Motor	dP (a)	M3			TP-06
Q (a)     M3     RP-01     TP-06       Q (c)     Y2     RP-02     TP-06       V (a)     M3     TP-06       Q (c)     Y2     TP-06       Q (a)     M3     TP-06       Q (a) <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>dP (c)</td><td>Y2</td><td>RP-02</td><td></td><td>TP-06</td></td<>								dP (c)	Y2	RP-02		TP-06
Pump Name     U-2 RHR Water Leg Pump (DIV. II)     V(a)     M3     TP-06       V(c)     Y2     RP-02     TP-06       Q(c)     Y2     RP-02     TP-06       Q(c)     Y2     RP-02     TP-06       Q(c)     Y2     TP-06     Q(c)     Y2     TP-06       Q(a)     M3     TP-06     Q(c)<								Q (a)	МЗ	RP-01		TP-06
V(a)     M3     TP-06       V(c)     Y2     RP-02     TP-06       V(c)     Y2     RP-02     TP-06       V(c)     Y2     RP-02     TP-06       Demp Name     U-2 RHR Water Leg Pump (DIV. II)     M134-2     B6     Group A     3     C     Motor     dP (a)     M3     TP-06       Q(a)     M3     TP-06     Q(a)     M3     TP-06     Q(a)     M3     TP-06       Q(a)     M3     TP-06     Q(a)     M3     TP-06       Q(a)     M3     TP-06     Q(a)     M3     TP-06       V(c)     Y2     TP-06     Q(a)     M3     TP-06       V(c)     Y2     TP-06     Q(a)     M3     TP-06       Q(a)     M3     TP-06     Q(a								Q (c)	Y2	RP-02		TP-06
Pump Name     U-2 RHR Water Leg Pump (DIV. II)       2E12-C300A     M-134-2     B6     Group A     3     C     Motor     dP (a)     M3     TP-06       dP (c)     Y2     TP-06     Q(a)     M3     TP-06     Q(a)     M3     TP-06       Q (c)     Y2     TP-06     Q(c)     Y2     TP-06     Q(a)     M3     TP-06       Pump Name     2A RHR Service Water Pump (DIV. I)     Water V(a)     M3     TP-06     V(c)     Y2     TP-06       Pump Name     2A RHR Service Water Pump (DIV. I)     Motor     dP (a)     M3     TP-06       Q (c)     Y2     TP-06     Q(a)     M3     TP-06       Q (a)     M3     TP-06     Q(a)								V (a)	MЗ			TP-06
Pump Name     U-2 RHR Water Leg Pump (DIV. II)       2E12-C300A     M-134-2     B6     Group A     3     C     Motor     dP (a)     M3     TP-06       Q (a)     M3     TP-06     Q (a)     M3     TP-06       Q (a)     M3     TP-06     Q (a)     M3     TP-06       Q (a)     M3     TP-06     Q (a)     M3     TP-06       V (a)     M3     TP-06     V (a)     M3     TP-06       Pump Name     2A RHR Service Water Pump (DIV. I)       Motor     dP (a)     M3     TP-06       Q (a)     M3     TP-06     Q (a)     M3     TP-06     Q (a)     M3     TP-06       Q (a)     M3     TP-06     Q (a)     M3     TP-06     Q (a)     M3     TP-06       Q (b)     Y (c)     Y2     TP-06     Q (a)     M3     TP-06       Q (a)     M3     TP-06     Q (a)     M3     TP-06       Q (a)     M3     TP-06     Q (a)     M3 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>V (c)</td> <td>Y2</td> <td>RP-02</td> <td></td> <td>TP-06</td>								V (c)	Y2	RP-02		TP-06
2E12-C300A     M-134-2     B6     Group A     3     C     Motor     dP (a)     M3     TP-06       Q (a)     M3     TP-06     Q (a)     M3     TP-06     Q (a)     M3     TP-06       Q (a)     M3     TP-06     Q (a)     M3     TP-06     Q (a)     M3     TP-06       Q (a)     M3     TP-06     V (a)     M3     TP-06     V (a)     M3     TP-06       Pump Name     2A RHR Service Water Pump (DIV. I)     2     2     TP-06     Q (a)     M3     TP-06       Pump Name     2A RHR Service Water Pump (DIV. I)     2     M33     TP-06     Q (a)     M3     TP-06       Q (a)     M3     TP-06     Q (a)     M3     TP-06     Q (a)     M3     TP-06       Q (a)     M3     TP-06     Q (b)     Y2     TP-06     Q (a)     M3     TP-06       Q (a)     M3     TP-06     Q (a)     M3     TP-06     Q (a)     M3     TP-06     Q (a)     M3		Pump Name	U-2 F	HR Water L	eg Pump (	DIV. II)						
dP (c)     Y2     TP-06       O (a)     M3     TP-06       O (c)     Y2     TP-06       V (a)     M3     TP-06       V (a)     M3     TP-06       V (a)     M3     TP-06       V (c)     Y2     TP-06       V (c)     Y2     TP-06       V (c)     Y2     TP-06       V (c)     Y2     TP-06       Q (a)     M3     TP-06       O (a)     M3     TP-06       Q (a)     M3     TP-06       V (c)     Y2     TP-06       V (a)     M3     TP-06       V (b)     W3     TP-06       V (c)     Y2     TP-06       Q (a)     M3     TP-06       Q (a)     M3     TP-06       Q (a)     M3     TP-06	2E12-C300A	M-134-2	B6	Group A	3	· C	Motor	dP (a)	M3			TP-06
Pump Name     2A RHR Service Water Pump (DIV. I)       2E12-C300B     M-134-2     C6     Group A     3     C     Motor     dP (a)     M3     TP-06       V (c)     Y2     TP-06     V (c)     Y2     TP-06       2E12-C300B     M-134-2     C6     Group A     3     C     Motor     dP (a)     M3     TP-06       Q (a)     M3     TP-06     Q (a)     M3     TP-06     Q (a)     M3     TP-06       Q (a)     M3     TP-06     Q (a)     M3     TP-06     Q (a)     M3     TP-06     Q (a)     M3     TP-06     Q (a)     M3     TP-06     Q (a)     M3     TP-06     Q (a)     M3     TP-06     Q (a)     M3     TP-06     Q (a)     M3     TP-06     Q (a)     M3     TP-06     Q (a)     M3     TP-06     Q (a)     M3     TP-06     Q (a)     M3     TP-06     Q (a)     M3     TP-06     Q (a)     M3     TP-06     Q (a)     M3     TP-06     Q (a)								dP (c)	Y2	·	,	TP-06
Q (c)     Y2     TP-06       V (a)     M3     TP-06       V (c)     Y2     TP-06       Q (c)     Y2     TP-06       Q (a)     M3     TP-06       Q (a)     M3     TP-06       Q (a)     M3     TP-06       Q (c)     Y2     TP-06       Q (a)     M3     TP-06       Q (c)     Y2     TP-06       V (a)     M3     TP-06       V (c)     Y2     TP-06       V (c)     Y2     TP-06       V (c)     Y2     TP-06       V (c)     Y2     TP-06       Q (a)     M3     TP-06       Q (a)     M3     TP-06       Q (a)     M3     TP-06       Q (a)     M3     TP-06								Q (a)	M3			TP-06
V (a)     M3     TP-06       V (c)     Y2     TP-06       Q (c)     Y2     TP-06       Q (a)     M3     TP-06       Q (c)     Y2     TP-06       Q (c)     Y2     TP-06       V (a)     M3     TP-06       Q (c)     Y2     TP-06       V (c)     Y2     TP-06       V (a)     M3     TP-06       V (c)     Y2     TP-06       Q(a)     M3     TP-06       Q(a)     M3     TP-06       Q(a)     M3     TP-06 <tr< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Q (c)</td><td>Y2</td><td></td><td></td><td>TP-06</td></tr<>								Q (c)	Y2			TP-06
Pump Name     2A RHR Service Water Pump (DIV. I)       2E12-C300B     M-134-2     C6     Group A     3     C     Motor     dP (a)     M3     TP-06       dP (c)     Y2     TP-06     dP (c)     Y2     TP-06       Q (a)     M3     TP-06     Q (a)     M3     TP-06       Q (a)     M3     TP-06     Q (a)     M3     TP-06       Q (a)     M3     TP-06     Q (a)     M3     TP-06       V (c)     Y2     TP-06     V (a)     M3     TP-06       Q (a)     M134-1     E7     Group A     3     C     Motor     dP (a)     M3     TP-06       Q (a)     M3     TP-06     Q (a)     M3     TP-06     Q (a)     M3     TP-06     Q (a)     V (a)								V (a)	MЗ			TP-06
Pump Name     2A RHR Service Water Pump (DIV. I)       2E12-C300B     M·134-2     C6     Group A     3     C     Motor     dP (a)     M3     TP-06       dP (c)     Y2     TP-06     Q (a)     M3     TP-06       Q (a)     M3     TP-06     Q (c)     Y2     TP-06       V (a)     M3     TP-06     V (a)     M3     TP-06       V (a)     M3     TP-06     V (a)     M3     TP-06       Pump Name     2B RHR Service Water Pump (DIV. I)     V(c)     Y2     TP-06       Q (a)     M-134-1     E7     Group A     3     C     Motor     dP (a)     M3     TP-06       Q (a)     M-134-1     E7     Group A     3     C     Motor     dP (a)     M3     TP-06       Q (a)     M-134-1     E7     Group A     3     C     Motor     dP (a)     M3     TP-06       Q (a)     M-134-1     E7     Group A     3     C     Motor     dP (a)     M3								V (c)	Y2			TP-06
ZE12-C300B     M-134-2     C6     Group A     3     C     Motor     dP (a)     M3     TP-06       Q (a)     M3     TP-06     Q (a)     M3     TP-06     Q (a)     M3     TP-06       Q (a)     M3     TP-06     Q (a)     M3     TP-06     Q (a)     M3     TP-06       Q (c)     Y2     TP-06     V (a)     M3     TP-06     V (a)     M3     TP-06       Pump Name     2B RHR Service Water Pump (DIV. I)     Motor     dP (a)     M3     TP-06       2E12-C300C     M-134-1     E7     Group A     3     C     Motor     dP (a)     M3     TP-06       Q (a)     M-134-1     E7     Group A     3     C     Motor     dP (a)     M3     TP-06       Q (a)     M3     TP-06     Q (a)     M3     TP-06     Q (a)     M3     TP-06     Q (a)     M3     TP-06     Q (a)     M3     TP-06     Q (a)     M3     TP-06     V (a)     M3     TP-06		Pump Name	2A RI	HR Service V	Vater Pum	p (DIV. I)						
dP (c)   Y2   TP-06     Q (a)   M3   TP-06     Q (c)   Y2   TP-06     V (a)   M3   TP-06     V (a)   M3   TP-06     V (c)   Y2   TP-06     V (c)   Y2   TP-06     V (c)   Y2   TP-06     V (c)   Y2   TP-06     Q (a)   M3   TP-06     Q (c)   Y2   TP-06     Q (a)   M3   TP-06     Q (a)   M3   TP-06     Q (c)   Y2   TP-06     V (a)   M3   TP-06     V (c)   Y2   TP-06     V (a)   M3   TP-06     V (c)   Y2   TP-06     V (c)   Y2   TP-06     V (c)   Y2	2E12-C300B	M-134-2	C6	Group A	3	С	Motor	dP (a)	M3			TP-06
Q (a)     M3     TP-06     Q (c)     Y2     TP-06     V (a)     M3     TP-06     V (a)     M3     TP-06     V (c)     Y2     TP-06     Q (a)     M3     TP-06     Q (a)     M3     TP-06     Q (a)     M3     TP-06     Q (c)     Y2     TP-06     V (c)     Y2								dP (c)	Y2			TP-06
Q (c)     Y2     TP-06       V (a)     M3     TP-06       V (c)     Y2     TP-06       V (c)     Y2     TP-06       2E12-C300C     M-134-1     E7     Group A     3     C     Motor     dP (a)     M3     TP-06       2E12-C300C     M-134-1     E7     Group A     3     C     Motor     dP (a)     M3     TP-06       Q (a)     M3     TP-06     Q (a)     M3     TP-06     Q (a)     M3     TP-06       Q (c)     Y2     TP-06     Q (a)     M3     TP-06     Q (a)     M3     TP-06       Q (c)     Y2     TP-06     V (a)     M3     TP-06     V (a)     M3     TP-06       V (a)     M3     TP-06     V (a)     M3     TP-06     V (c)     Y2     TP-06       V (c)     Y2     TP-06     V (c)     Y2     TP-06     V (c)     Y2     TP-06								Q (a)	M3			TP-06
Pump Name     2B RHR Service Water Pump (DIV. I)     V (a)     M3     TP-06       2E12-C300C     M-134-1     E7     Group A     3     C     Motor     dP (a)     M3     TP-06       Q (a)     M3     TP-06     Q (a)     M3     TP-06       Q (a)     M3     TP-06     Q (a)     M3     TP-06       V (c)     Y2     TP-06     Q (a)     M3     TP-06       V (a)     M3     TP-06     Q (c)     Y2     TP-06       V (a)     M3     TP-06     V (c)     Y2     TP-06       V (c)     Y2     TP-06     V (c)     Y2     TP-06								Q (c)	Y2			TP-06
Pump Name     2B RHR Service Water Pump (DIV. I)     V (c)     Y2     TP-06       2E12-C300C     M-134-1     E7     Group A     3     C     Motor     dP (a)     M3     TP-06       dP (c)     Y2     TP-06     Q (a)     M3     TP-06       Q (a)     M3     TP-06     Q (c)     Y2     TP-06       V (a)     M3     TP-06     V (a)     M3     TP-06       V (c)     Y2     TP-06     V (a)     M3     TP-06       Pump Name     2C RHR Service Water Pump (DIV. II)     Y2     TP-06			. •					V (a)	MЗ	,		TP-06
Pump Name     2B RHR Service Water Pump (DIV. I)       2E12-C300C     M-134-1     E7     Group A     3     C     Motor     dP (a)     M3     TP-06       dP (c)     Y2     TP-06     Q (a)     M3     TP-06       Q (c)     Y2     TP-06     V (a)     M3     TP-06       V (a)     M3     TP-06     V (a)     M3     TP-06       V (c)     Y2     TP-06     V (c)     Y2     TP-06       Pump Name     2C RHR Service Water Pump (DIV. II)     V     V     V     V								V (c)	Y2			TP-06
2E12-C300C     M-134-1     E7     Group A     3     C     Motor     dP (a)     M3     TP-06       dP (c)     Y2     TP-06     Q (a)     M3     TP-06     Q (a)     M3     TP-06       Q (a)     M3     TP-06     Q (c)     Y2     TP-06     V (a)     M3     TP-06       V (a)     M3     TP-06     V (c)     Y2     TP-06       V (c)     Y2     TP-06     V (c)     Y2     TP-06       Pump Name     2C RHR Service Water Pump (DIV. II)     TP-06     V (c)     Y2     TP-06		Pump Name	2B RI	HR Service V	Vater Pum	p (DIV. I)						
dP (c)   Y2   TP-06     Q (a)   M3   TP-06     Q (c)   Y2   TP-06     V (a)   M3   TP-06     V (c)   Y2   TP-06     V (c)   Y2   TP-06     Pump Name   2C RHR Service Water Pump (DIV. II)   V	2E12-C300C	M-134-1	E7	Group A	3	С	Motor	dP (a)	M3			TP-06
Q (a)     M3     TP-06       Q (c)     Y2     TP-06       V (a)     M3     TP-06       V (c)     Y2     TP-06       V (c)     Y2     TP-06       Pump Name     2C RHR Service Water Pump (DIV. II)     Y2								dP (c)	Y2			TP-06
Q (c)     Y2     TP-06       V (a)     M3     TP-06       V (c)     Y2     TP-06       Pump Name     2C-RHR Service Water Pump (DIV. II)     Y2     TP-06					-			Q (a)	MЗ			TP-06
V (a)     M3     TP-06       V (c)     Y2     TP-06       Pump Name     2C RHR Service Water Pump (DIV. II)     Y2     TP-06								Q (c)	Y2		•	TP-06
V (c)     Y2     TP-06       Pump Name     2C RHR Service Water Pump (DIV. II)     Y2     TP-06								V (a)	М3			TP-06
Pump Name 2C RHR Service Water Pump (DIV. II)								V (c)	Y2			TP-06
		Pump Name	2C R	HR Service \	Nater Purr	p (DIV. II)						

**Residual Heat Removal** 

**Revision Date:** 

10/24/08

#### **Residual Heat Removal**

Pump EPN	P&ID	P&ID Coor.	IST Group	Safety Class	Pump Type	Pump Driver	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2E12-C300D	M-134-1	F7	Group A	3	С	Motor	dP (a)	M3			TP-06
							dP (c)	Y2			TP-06
							Q (a)	MЗ			TP-06
							Q (c)	Y2			TP-06
							V (a)	M3			TP-06
							V (c)	Y2			TP-06
	Pump Name	2D RH	HR Service V	Vater Pum	p (DIV. II)		1				

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#### **Reactor Core Isolation Cooling**

Pump EPN	P&ID	P&ID Coor.	IST Group	Safety Class	Pump Type	Pump Driver	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1E51-C001	M-101-2	C2.	Group B	2	С	Turbine	dP (b)	M3			TP-06
							dP (c)	Y2			TP-06
							Q (b)	М3			TP-06
							Q (c)	Y2			TP-06
							S (b)	M3			TP-06
							S (c)	Y2			TP-06
•					~		V (c)	Y2			TP-06
	Pump Name	U-1 A	eactor Core	Isolation C	Cooling Pur	np					
1E51-C003	M-101-2	A4	Group A	2	С	Motor	dP (a)	M3			TP-06
							dP (c)	Y2	RP-02		TP-06
							Q (a)	МЗ	RP-01		TP-06
							Q (c)	Y2	RP-02		TP-06
							V (a)	MЗ			TP-06
							V (c)	Y2	RP-02		TP-06
	Pump Name	U-1 R	ICIC Water L	.eg Pump							
2E51-C001	M-147-2	C2	Group B	2	С	Turbine	dP (b)	M3			TP-06
							dP (c)	Y2			TP-06
							Q (b)	М3			TP-06
,							Q (c)	Y2			TP-06
							S (b)	М3			TP-06
							S (c)	Y2			TP-06
					•		V (c)	Y2			TP-06
	Pump Name	U-2 P	leactor Core	Isolation C	Cooling Pu	np					
2E51-C003	M-147-2	A4	Group A	2	С	Motor	dP (a)	. M3			TP-06
							dP (c)	Y2	RP-02		TP-06
							Q (a)	М3	RP-01		TP-06
							Q (c)	Y2	RP-02		TP-06
ı							V (a)	М3			TP-06
							V (c)	Y2	RP-02		TP-06
	Pump Name	U-2 A	ICIC Water L	eg Pump							

**Revision Date:** 

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#### Standby Liquid Control

Pump EPN	P&ID	P&ID Coor.	IST Group	Safety Class	Pump Type	Pump Driver	Test Type	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1C41-C001A	M-99	. C4	Group B	2	PD	Motor	DIS-P (b)	M3			TP-06
							DIS-P (c)	Y2			TP-06
							Q (b)	M3			TP-06
							Q (c)	Y2			TP-06
							V (c)	Y2			TP-06
	Pump Name	1A St	andby Liquid	Control P	ump						
1C41-C001B	M-99	B4	Group B	2	PD	Motor	DIS-P (b)	M3			TP-06
							DIS-P (c)	Y2			TP-06
							Q (b)	М3			TP-06
		•					Q (c)	Y2			TP-06
							V (c)	Y2			TP-06
	Pump Name	1B St	andby Liquid	Control P	ump						
2C41-C001A	M-145	C4	Group B	2	PD	Motor	DIS-P (b)	M3			TP-06
							DIS-P (c)	Y2			TP-06
							Q (b)	М3			TP-06
							Q (c)	Y2			TP-06
							V (c)	Y2			TP-06
	Pump Name	2A St	andby Liquid	Control P	ump						
2C41-C001B	M-145	B4	Group B	2	PD	Motor	DIS-P (b)	M3			TP-06
							DIS-P (c)	Y2			TP-06
							Q (b)	M3			TP-06
					•		Q (c)	Y2			TP-06
							V (c)	Y2			TP-06
	Pump Name	2B St	andby Liquid	Control P	ump					•	

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## ATTACHMENT 16

## **INSERVICE TESTING VALVE TABLE INDEX**

System Designator	System Description
CM	Containment Monitoring
DG	Diesel Generator
DO	Diesel Fuel Oil
FC	Fuel Pool Cooling
FW	Feedwater
HG	Containment Combustible Gas Control
HP	High Pressure Core Spray
IA	Instrument Air
IN	Instrument Nitrogen
LP	Low Pressure Core Spray
MC	Clean Condensate Storage
MS	Main Steam
NB	Nuclear Boiler
NR	Neutron Monitoring
PC	Primary Containment
RD	Control Rod Drive
RE	Reactor Building Equipment Drains & Floor Drains
RH	Residual Heat Removal
RI	Reactor Core Isolation Cooling
RR	Reactor Recirculation
RT	Reactor Water Cleanup
SA	Service Air
SC	Standby Liquid Control
VG	Standby Gas Treatment
VP	Primary Containment Chilled Water
VQ	Primary Containment Purge
VR	Reactor Building Ventilation
WR	Reactor Building Closed Cooling Water

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# ATTACHMENT 17

# **INSERVICE TESTING VALVE TABLE**

Revision Date: 10/24/08

				ı	c	Containr	nent M	onitoring							
Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1CM017A	M-156-1	F7	2	A	0.5	GL	SO	A	0	С	FS-C	M3			TP-03
											LT-J	AppJ			
											PIT	Y2			
											ST-C	MЗ			
	Valve Name		Supp Ch	amber/DW C	02 Monito	r Iniet Isol	Valve								
1CM017B	M-156-2	2 E2	2	Α	0.5	GL	SO	A	0	С	FS-C	MЗ			TP-03
				-							LT-J	AppJ			
											PIT	Y2			
											ST-C	М3			
	Valve Name	· · · · · · · · · · · · · · · · · · ·	Tritium G	irab Sample	Station In	let Isol Va	lve								
1CM018A	M-156-1	1 E7	2	A	0.5	GL	SO	A	0	C ,	FS-C	М3			TP-03
											LT-J	АррЈ			
											PIT	Y2			
					•						ST-C	М3			
	Valve Name		Supp Ch	amber/DW C	D2 Monito	r Inlet Isol	Valve								
1CM018B	M-156-2	2 D2	2	A	0.5	GL	SO	A	0	С	FS-C	M3			TP-03
			,								LT-J	AppJ			
											PIT	Y2			
	Makus Nama		Tritium O	hab Cample	Chatian In	lat laal 1/a	h				ST-C	М3	÷		
100194	M-156-	1 B7	2		0.5	GI	SO	Δ		<u> </u>	FS-C	MB			TP.03
10mo torr	111100		-	~	0.0	ŰL.	00	0		Ŭ	11-1	Anni			11 00
											PIT	7990 72			
											ST-C	M3			
	Valve Name		Supp Ch	amber/DW C	02 Monito	r Outlet Is	ol Valve				010	1110			
1CM019B	M-156-2	2 C2	2	A	0.5	GL	SO	A	0	c	FS-C	M3			TP-03
											LT-J	AppJ			
•											PIT	Y2			
											ST-C	MЗ			
	Valve Name		Tritium G	irab Sample	Station O	utlet Isol \	/alve								
1CM020A	M-156-	1 B7	2	A	0.5	GL	SO	Α	0	с	FS-C	МЗ			TP-03
											LT-J	AppJ			
											PIT	Y2			
											ST-C	MЗ			
	Valve Name	•	Suon Ch	amber/DW C	)2 Monito	r Outlet Is	ol Valve								

**Revision Date:** 

#### **Containment Monitoring**

Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1CM020B	M-156-2	B2	2	A	0.5	GL	SO	A	0	С	FS-C	M3			TP-03
							4		•		LT-J	AppJ			·
											PIŤ	Y2			
		•									ST-C	М3			
	Valve Name		Tritium G	irab Sample	Station O	utlet isol V	/alve								
1CM021B	M-156-2	E6	2 .	В	0.5	GL	SO	А	C .	O/C	FS-O	M3			TP-03
											PIT	Y2			
											ST-C	MЗ			
											ST-O	М3			
	Valve Name		Post LOC	CA H2/O2 Cr	nt Mon Pn	I DW Sam	ple Isol \	/lv							
1CM022A	M-156-1	E3	2	B	0.5	GL	SO	Α	С	O/C	FS-O	М3			TP-03
											PIT	Y2			
											ST-C	М3			
						•					ST-O	М3			
	Valve Name		Post LOC	CA H2/O2 Cr	nt Mon Pr	IDW Sam	ple Isol \	/lv		·					
1CM023B	M-156-2	E6	2	В	0.5	GL	SO	A	С	O/C	FS-O	M3			TP-03
											PIT	Y2			
											ST-C	M3	-		
											ST-O	М3			
	Valve Name		Post LOC	CA H2/O2 Cr	nt Mon Pri	I DW Sam	ple Isol \	/iv							
1CM024A	M-156-1	E3	2	В	0.5	GL	SO	Α	С	O/C	FS-O	· M3			TP-03
											PIT	Y2			
											ST-C	М3			
											ST-O	M3			
	Valve Name		Post LOC	CA H2/O2 Cr	nt Mon Pn	I DW Sam	ple Isol \	/lv							
1CM025A	M-156-1	A4	2	В	0.5	GL	SO	A	С	O/C	FS-O	М3			TP-03
											PIT	Y2			
											ST-C	М3			
											ST-O	М3			
	Valve Name		Post LOC	CA H2/O2 M	on Pni Su	p Chbr Re	trn Isol V	lv							
1CM026B	M-156-2	A6	2	В	0.5	GL	SO	A	С	O/C	FS-O	М3			TP-03
											PIT	Y2			
											ST-C	М3			
											ST-O	M3		•	
	Valve Name		Post LOC	CA H2/O2 M	on Phi Su	p Chbr Re	trn Isol V	lv .							

**Revision Date:** 

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Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1CM027	M-156-4	E8	2	A	0.5	GL	SO	A	0	С	FS-C	M3			TP-03
*											LT-J	AppJ			
											PIT	Y2		·	
											ST-C	МЗ			
	Valve Name		Pri Cnmt	CAM Sup C	hbr Inlet (	Jpstrm Iso	l Valve								
1CM028	M-156-4	E8	2	A	0.5	GL	SO	Α	0	С	FS-C	M3			TP-03
											LŢ-J	AppJ			
											PIT	<sup>.</sup> Y2			
											ST-C	MЗ			•
	Valve Name		Pri Cnmt	CAM Sup C	hbr Inlet [	Ownst Isol	Valve								
1CM029	M-156-4	F8	2	A	0.5	GL	SO	Α	0	С	FS-C	M3			TP-03
											LT-J	АррЈ			
											PIT	Y2			
											ST-C	- M3			
	Valve Name		Pri Cnmt	CAM Dw Inl	et Upstrm	Isol Valve	e								
1CM030	M-156-4	E8	2	A	0.5	GL	SO	A	0	С	FS-C	M3			TP-03
	•										LT-J	AppJ			
											PIT	Y2			
											ST-C	M3			
	Valve Name		Pri Cnmt	CAM Dw Ini	et Dwnst	Isol Valve									
1CM031	M-156-4	C6	2	A	1.5	GL	SO	A	0	С	FS-C	М3			TP-03
											LT-J	Аррј			
•											PIT	Y2	· .		
								,			ST-C	MЗ			•
	Valve Name		Pri Cnmt	24 Point CA	M Inlet U	ostrm Isol	Valve								
1CM032	M-156-4	C6	2	A	1.5	GL	SO	Α	0	c	FS-C	M3			TP-03
											LT-J	АррЈ			
			•								PIT	Y2	•		
											ST-C	MЗ			
	Valve Name		Pri Cnmt	24 Point CA	M Inlet D	wnst Isol V	/alve								
1CM033	M-156-4	B6	2	A	1.5	GL	SO	A	0	С	FS-C	МЗ			TP-03
											LT-J	AppJ			
											PIT	Y2		. ·	
											ST-C	М3		•	
	Valve Name		Pri Cnmt	CAM Samp	le Panel C	Outlet Upsl	rm Valve								

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Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1CM034	M-156-4	A6	2	A	1.5	GL	SO	A	0	С	FS-C	M3			TP-03
											LT-J	AppJ			
											PIT	Y2			
											ST-C	MЗ			
	Valve Name	I	Pri Cnmt	CAM Sampl	e Panel C	utlet Dwn	st Valve								
1CM085	M-156-2	E5	2	A	0.5	GL	SO	A	С	С	FS-C	M3			TP-03
											LT-J	AppJ			
											PIT	Y2			
										•	ST-C	M3			
	Valve Name	(	Containn	nent Air Sam	ple HRSS	Stop Val	ve								
1CM086	M-156-2	E5	2	A	0.5	GL	SO	A	С	С	FS-C	M3			TP-03
											LT-J	AppJ			
											ΡΙΤ	· Y2			
											ST-C	MЗ			
	Valve Name	(	Containn	nent Air Sam	ple HRSS	Stop Val	ve								
1CM089	M-156-2	A5	2	Α	0.5	GL	SO	A	С	С	FS-C	M3			TP-03
											LT-J	AppJ			
											PIT	Y2			
											ST-C	M3			
	Valve Name	(	Containn	nent Air Sam	ple HRSS	Return V	alve								
1CM090	M-156-2	A5	2	A	0.5	GL	SO	A	С	С	FS-C	M3			TP-03
											LT-J	AppJ			
											PIT	Y2			· ·
											ST-C	М3		• •	
	Valve Name	(	Containn	nent Air Sam	ple HRSS	Return V	alve								
1CM-CK-2A	M-156-1	C4	NC	С	0.5	СК	SA	A	SYS	0	co	M3			TP-09
	Valve Name		CAM-Re	agent Gas S	upply Che	ck Valve									
1CM-CK-2B	M-156-2	C4	NC	С	0.5	CK	SA	Α	SYS	0	со	M3			TP-09
	Valve Name	t	CAM-Re	agent Gas S	upply Che	ck Valve									,
1CM-CK-4A	M-156-1	C2	NC	С	0.5	СК	SA	A	SYS	0	со	M3			TP-09
	Valve Name	(	CAM-Re	agent Gas S	upply Che	ck Valve									
1CM-CK-4B	M-156-2	C2	NC	С	0.5	СК	SA	A	SYS	0	со	MЗ			TP-09
	Vaive Name		CAM-Re	agent Gas S	upply Che	eck Valve									
1CM-PP CK-A	M-156-1	B4	NC	С	0.5	СК	SA	A	SYS	0	со	М3			TP-09
	Valve Name	(	CAM-Sa	mple Pump [	Discharge	Check Va	lve								
1CM-PP CK-B	M-156-2	B6	NC	С	0.5	СК	SA	A	SYS	0	со	M3			TP-09
	Valve Name	(	CAM-Sa	mple Pump [	Discharge	Check Va	lve								

**Containment Monitoring** 

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Valve EPN	P&ID	P&ID Coor	Code Class	IST Category	Valve Size	Vaive Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Ramt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2CM017A	M-158-1	F7	2	A	0.5	GL	SO	Α_	0	С	FS-C	MЗ	<b></b>		TP-03
											LT-J	AppJ			
											PIT	Y2			
											ST-C	· M3			
	Valve Name		Supp Ch	amber/DW C	02 Monito	r Inlet Isol	Valve								
2CM017B	M-158-2	: F7	2	A	0.5	GL	SO	A	0	С	FS-C	MЗ			TP-03
											LT-J	AppJ			
											PIT	Y2			
											ST-C	MЗ			
	Valve Name		Tritium G	arab Sample	Station Ir	ilet Isol Va	lve	-							
2CM018A	M-158-1	F	2	Α	0.5	GL	SO	A	0	С	FS-C	MЗ			TP-03
											LT-J	AppJ			
											PIT	Y2			
											ST-C	M3			
	Valve Name		Supp Ch	amber/DW (	D2 Monito	r Inlet isol	Valve								
2CM018B	M-158-2	2 F7	7 2	Α	0.5	GL	SO	А	0	С	FS-C	MЗ			TP-03
											LT-J	AppJ			
											PIT	Y2			
											ST-C	М3			
	Valve Name		Tritium C	Grab Sample	Station Ir	ilet Isol Va	lve								
2CM019A	M-158-1	B	2	A	0.5	GL	SO	A	· 0	С	FS-C	М3			TP-03
											LT-J	АррЈ			
											PIT	Y2		•	
											ST-C	М3			
	Valve Name		Supp Ch	amber/DW (	D2 Monito	r Outlet is	of Valve								
2CM019B	M-158-2	2 D	72	A	0.5	GL	SO	A	0	С	FS-C	M3			TP-03
											LT-J	АррЈ			
											PIT	Y2			
											ST-C	M3			
	Valve Name		Tritium C	Grab Sample	Station C	utlet isol \	/alve								
2CM020A	M-158-1	A.	72	А	0.5	GL	SO	Α	0	С	FS-C	M3			TP-03
											LT-J ≟	AppJ			
											PIT	Y2			
											ST-C	M3			

**Containment Monitoring** 

Valve Name Supp Chamber/DW O2 Monitor Outlet Isol Valve

Revision Date:

LaSalle Station IST PROGRAM PLAN

Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2CM020B	M-158-2	D7	2	A	0.5	GL	SO	A	0	С	FS-C	MЗ			TP-03
											เา-ม	Аррј			
											PIT	Y2			
											ST-C	М3			
	Valve Name		Tritium G	irab Sample	Station O	utlet Isol V	/alve								
2CM021B	M-158-2	E3	2	В	0.5	GL	SO	A	С	0/C	FS-O	M3			TP-03
											PIT	Y2			
											ST-C	M3			
											ST-O	МЗ			
	Valve Name	-	Post LOC	CA H2/O2 Cr	nt Mon Pr	I DW Sam	ple Isol V	/tv							
2CM022A	M-158-1	E3	2	В	0.5	GL	SO	A	С	O/C	FS-O	M3			TP-03
, m											PIT	Y2			
											ST-C	МЗ			
									•		ST-O	MЗ			
	Valve Name		Post LOC	CA H2/O2 Cr	nt Mon Pr	I DW Sam	ple Isol V	/lv							
2CM023B	M-158-2	E3	2	В	0.5	GL	SO	A	С	0/C	FS-O	MЗ			TP-03
											PIT	Y2			
											ST-C	М3			
											ST-O	М3			
	Valve Name		Post LOC	CA H2/O2 Cr	nt Mon Pr	I DW Sam	ple Isol V	/iv							
2CM024A	M-158-1	E3	2	В	0.5	GL	SO	Α	С	O/C	FS-O	MЗ			TP-03
											PIT	Y2			
											ST-C	M3			
											ST-O	М3			
	Valve Name		Post LOC	CA H2/O2 Cr	nt Mon Pn	I DW Sam	ple Isol V	/lv				·			
2CM025A	M-158-1	A4	2	В	0.5	GL	SO	Α	С	O/C	FS-O	M3			TP-03
											PIT	Y2			
											ST-C	M3			
											ST-O	M3			
	Valve Name		Post LOC	CA H2/O2 Mo	on Pnl Su	p Chbr Re	trn Isol V	lv							
2CM026B	M-158-2	A4	2	B	0.5	GL	SO	A	C	,0/C	FS-O	M3			TP-03
											PIT	Y2			
						•					ST-C	MЗ			
											ST-O	MЗ			
	Valve Name		Post LOC	CA H2/O2 Mc	on Pni Su	p Chbr Re	trn Isol V	iv							

**Containment Monitoring** 

Revision Date:

Containment	Monitoring
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Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	ACT. Type	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2CM027	M-158-4	- F7	2	A	0.5	GL	SO	Α	0	С	FS-C	M3			TP-03
											LT-J	AppJ			
											PIT	Y2			
											ST-C	MЗ			
	Valve Name		Pri Cnmt	CAM Sup C	hbr Inlet U	lpstrm Isc	l Valve								
2CM028	M-158-4	E7	2	A	0.5	GL	SO	A	0	С	FS-C	M3			TP-03
											LT-J	AppJ			
											PIT	Y2			
											ST-C	M3			
	Valve Name		Pri Cnmt	CAM Sup C	hbr Inlet D	lwnst isol	Valve								
2CM029	M-158-4	F7	2	A	0.5	GL	SO	A	0	С	FS-C	MЗ			TP-03
									•		LT-J	AppJ			
											PIT	Y2			
											ST-C	M3			
	Valve Name		Pri Cnmt	CAM Dw Inl	et Upstrm	Isol Valve	e								
2CM030	M-158-4	E7	2	A	0.5	GL.	SO	A	0	C	FS-C	MЗ			TP-03
											LT-J	AppJ			
											ΡIŤ	Y2			
											ST-C	MЗ			
	Valve Name		Pri Cnmt	CAM Dw Inl	et Dwnst I	sol Valve									
2CM031	.M-158-4	C5	2	A	1.5	GL	SO	A	0	С	FS-C	M3			TP-03
											LT-J	AppJ			
											PIT	Y2			
											ST-C	М3			
	Valve Name		Pri Cnmt	24 Point CA	M Inlet Up	strm Isol	Valve								
2CM032	M-158-4	C5	2	A	1.5	GL	SO	A	0	С	FS-C	MЗ			TP-03
											LT-J	АррЈ			
											PIT	Y2			
											ST-C	М3			
	Valve Name		Pri Cnmt	24 Point CA	M Inlet Dv	vnst Isol \	/alve								
2CM033	M-158-4	B6	2	A	1.5	GL	SO	A	0	С	FS-C	MЗ			TP-03
											LT-J	AppJ			
											PIT	Y2			
											ST-C	MЗ		÷.	
	Valve Name		Pri Cnmt	CAM Sampl	e Panel O	utlet Ups	trm Valve								

**Revision Date:** 

							Contain	nent M	onitoring			IST	PROG	RAM PLA	N	
Valve	EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech Pos.
2CM0	34	M-158-4	A6	2	A	1.5	GL	SO	Α	0	С	FS-C	M3			TP-0
												LT-J	AppJ			
	<u>. Geineli</u>					Marina di Santa di S						ST-C	Y2 M3		n de la Arder Adria de Calendar Adria de Calendar	
erie en		Valve Name	line (	Pri Cnmt	CAM Samp	le Panel (	Outlet Dwn	st Valve			e a santan ing pan Santa Santa Santa Santa Santa Sa					en en en en son son son son son Les este ander son
2CM0	85	M-158-2	E3	2	A	0.5	GL	SO	A	C	C	FS-C	M3			TP-0
												LT-J	AppJ			
												PIT	¥2			
		Valve Name	(	Containm	ient Air Sar	nple HRS	S Stop Val	/e				~5I+C	мз			
2CM0	86	M-158-2	E2	2	A	0.5	GL	SO	A	C	C	FS-C	M3			TP-03
												LT-J	AppJ			
	and a star and a star and a star					e o conservatione Conservatione Propositione						PIT	Y2		a see an	
2010년년년 118년 - 118년 118년 - 118년 - 1		Valua Nama		ontainm	ont Air Con		Cton Val					ST-C	М3			
2CM0	89	M-158-2	A3	2	A A	ріе пна: 0.5	S Stop Valv	/e SO	A	c	<u>.</u>	FS-C	Ma			TP.03
an an an an Arraigh An Arraight	an talan da	la de la constante de la const La constante de la constante de La constante de la constante de	n an			Rendînan Servî			n araana			LT-J	AppJ		er Lesserer A	
na in the source of the source	an a	an a	ana ang ang ang ang ang ang ang ang ang	andra andra Alexandra Alexandra Alexandra Alexandra	lan ang sang sang sang sang sang sang san	ante de la composition de la compositio Recentra de la composition de la composi Recentra de la composition de la composi Recentra de la composition de la Composition de la composition de la compositi	an an a' an	an a	an an an an an an Anna An An Anna Anna A	a ang barang sa sa sa sa sa sa sa nang sa sa sang sa sa sa sa sa nang sa sa sa sa sa sa sa sa sa sa nang sa		PIT	¥2	na de ser a la companya de la companya na de la companya de la companya de la companya de la companya de la comp de la companya de la		aber en ander 1995 - Person 1995 - Person 1995 - Person
												ST-C	M3			
2000	on.	Valve Name	C	Containm	ent Air San	ple HRSS	S Return V	alve								do de ser
ZOWIO	50	W-150-2	-0	2	<b>^</b>	0.5	GL	50	A	C	С	FS-C.	M3 Ann I			(P-03
												PIT	Y2			
	n an											ST-C	МЗ			ano ang karao
		Valve Name	C	ontainm	ent Air San	ple HRSS	Return Va	alve								
2CM-0	JK-2A	M-158-1 Valve Name	۲4 ۲	NC	C cent Gas S	0.5 upply Che	CK Ack Valve	SA	A	SYS	0	co	M3			TP-09
2CM-C	CK-2B	M-158-2	C4	NC	C	0.5	CK	SA	A	SYS	0	СО	M3	oli ondre dae oa 1931 - Alexandre 1932 - Alexandre dae 1932 - Alexandre dae		TP-09
		Valve Name	C	AM-Rea	gent Gas S	upply Che	eck Valve									
2CM-0	X-4A	M-158-1	C2	NC	C	0.5	СК	SA	A	SYS	0	со	M3		n an	TP-09
		Valve Name	C	AM-Rea	gent Gas S	upply Che	eck Valve									
20M-0	/ <b>K-4</b> B	M-158-2 Valve Name	62 C	NC AM-Rea	C nent Gas S	0.5 upply Che	CK Jok Valvo	SA	A	SYS	0	CO	M3			TP-09
2CM-F	P CK-A	M-158-1	B4	NC	C	0.5	CK	SA	A	SYS	0	со	M3		n an an Anna Anna Anna An Anna Anna Anna	TP-09
		Valve Name	c	AM-Sam	iple Pump I	Discharge	Check Val	ve								
2CM-F	Р СК-В	M-158-2	B4	NC	С	0.5	СК	SA	A	SYS	0	CO	M3			TP-09
	a a constante. A constante de	Valve Name	C	AM-Sam	ple Pump [	Discharge	Check Val	ve	alaata a	anti kanadan	o ar contra ratione activity	د میرونیدی ایری میروندادی فرانی	a de la come		na pitene en la trans 1919 : nechetta estrano e	n in in the state States in the states In the states in the states

n - Children Barren (h. 1997) Martin Martin (h. 1997) Martin (h. 1997)

#### **Diesel Generator**

Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
DG002	M-87-2	D6	3	С	12	СК	SA	A	SYS	O/C	CCD	СМ			CM08
											COD	СМ			CM08
									·		COF	мз			CM08
	Valve Name	(	DG Co	oling Water I	Pump Dsc	h Check \	valve								
0DG009	M-87-2	C5	3	В	4	GA	MO	A	С	O/C	ET	M3			
	Valve Name	• 1	DG Cool	ing Water St	rainer Bac	kwash Va	alve								
0DG014	M-87-2	D4	3	С	0.75 x 1	RV	SA	A	С	O/C	RVT	Y10			TP-08
	Valve Name	. (	DG Co	oler Inlet He	ader Relie	f Valve									
0DG023A	M-83-2	E6	3	С	1.5	СК	SA	A	SYS	С	СС	M3			
											со	M3			TP-01
	Valve Name	i I	DG A S	Starting Air C	ompresso	r Dsch Ch	neck Valv	e							
0DG023B		F6	3	С	1.5	СК	SA	Ā	SYS	С	CC	M3			
											со	M3			TP-01
	Valve Name		0 DG B S	Starting Air C	ompresso	r Dsch Cl	neck Valv	e							
0DG029A	M-83-2	E6	3	С	0.75 x 1	RV	SA	A	С	O/C	RVT	Y10			
	Valve Name		0 DG A S	Starting Air R	leceiver R	elief Valve	9								
0DG029B	M-83-2	F6	3	С	0.75 x 1	RV	SA	A	С	O/C	RVT	Y10			
	Valve Name		0 DG B S	Starting Air R	leceiver R	elief Valve	е								
0DG035A	M-83-2	E3	NC	В	2	GA	AO	A	С	0	ET	M3		•	TP-09
	Valve Name	<b>;</b> 1	0 DG A/0	C Starting Air	r Motors S	upply Cor	ntrol Valve	e							
0DG035B	M-83-2	F3	NC	В	2	GA	AO	A	С	0	ET	M3			TP-09
	Valve Name	<b>!</b>	0 DG B/(	D Starting Air	r Motors S	upply Cor	ntrol Valve	e							
0DG036A	M-83-2	D4	NC	В	2	3W	SO	A	D	E/D	SD	M3			TP-09
											SE	MЗ			TP-09
	Valve Name		0 DG A/0	C Starting Air	r Motors P	inion Sup	pły SOV								
0DG036B	M-83-2	E4	NC	B	2	ЗW	SO	A	D	E/D	SD	M3			· TP-09
											SE	M3			TP-09
	Valve Name	:	0 DG B/[	D Starting Air	Motors P	inion Sup	piy SÖV								
0DG038A	M-83-2	D3	NC	С	2	ÇK	SA	A	SYS	С	СС	MЗ		•	TP-09
	Valve Name	,	0 DG A/	C Starting Air	r Mtrs Pini	on Sup Bi	eed Off C	V.							
0DG038B	M-83-2	E3	NC	С	2	CK	SA	A	SYS	С	CC	M3			TP-09
	Valve Name	)	0 DG B/I	D Starting Air	r Mtrs Pini	on Sup Bl	eed Off C	v							•
0DG048A	M-83-4	- B6	3	С	1	СК	SA	A	SYS	O/C	CC	M3			TP-09
											со	M3			TP-09
	Valve Name	•	0 DG Lu	be Oil DC Sc	oak Back f	Pump Dsc	h Check	Valve							
0DG048B	M-83-4	B6	3	С	1	СК	SA	A	SYS	O/C	СС	M3			TP-09
											со	МЗ			TP-09
	Valve Name	,	0 DG Lu	be Oil AC Sc	oak Back F	ump Dsc	h Check	Valve							
·															··
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### **Diesel Generator**

	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Tést Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
0DG049	M-83-4	C5	NC	С	1 -	СК	SA	A	SYS	0/C	CC	M3			TP-09
											со	М3			TP-09
	Valve Name	(	) DG Lub	be Oil Circ Pu	Imp Dsch	Relief Ch	eck Valve								
0DG050	M-83-4	C5	3	С	1	СК	SA	А	SYS	С	CC	М3			TP-09
	Valve Name	(	) DG Lub	oe Oil Soak E	Back Pump	s Dsch R	lelief CV								
0DG051	M-83-4	B3	3	С	0.5	СК	SA	A	SYS	O/C	CC	MЗ			TP-09
								-			CO	M3			TP-09
	Valve Name	(	) DG Lut	e Oil Cooler	Outlet Ch	eck Valve	e					· .			
ODGABC	M-83-4	C8	NC	С	1	СК	SA	А	SYS	O/C	CC	M3			TP-09
											CO	M3			TP-09
	Valve Name	(	) DG Tur	bocharger C	heck Valv	B									
ODGXYZ	M-83-4	C8	NC	С	1	СК	SA	Α	С	O/C	CC	M3			TP-09
											со	MЗ			TP-09
	Valve Name	(	) Diesel (	Generator Tu	urbocharge	er Check	Valve							*	
1DG002	M-87-1	D6	3	С	10	СК	SA	Α	SYS	O/C	CCD	СМ			CM08
											CCF	СМ			CM08
											COD	СМ			CM08
											COF	М3			CM08
	Valve Name		IA DG C	ooling Water	Pump Ds	ch Check	Valve								
1DG011	M-87-1	D6	1A DG C 3	ooling Water B	Pump Ds	GA GA	MO	A	С	0/C	ET	M3			
1DG011	Valve Name M-87-1 Valve Name	D6	1 A DG C 3 DG Cooli	B B Water Str	4 4 Pump Ds 4 rainer Bacl	GA GA wash Va	MO	A	C	O/C	ET	M3			
1DG011 1DG034	Valve Name M-87-1 Valve Name M-87-1	D6 I D3	1 A DG C 3 DG Cooli 3	ooling Water B ing Water Str C	Pump Ds 4 rainer Bacl 0.75 x 1	ch Check GA (wash Va RV	MO MO Ive SA	A	C C	0/C 0/C	ET RVT	M3 Y10			TP-08
1DG011 1DG034	Valve Name M-87-1 Valve Name M-87-1 Valve Name	D6 I D3	1A DG C 3 DG Cooli 3 1A DG C	ooling Water B ing Water Str C ooler Outlet	Pump Ds 4 rainer Back 0.75 x 1 Header Re	ch Check GA kwash Va RV elief Valve	MO MO Ive SA	A	c c	0/C 0/C	ET RVT	M3 Y10			TP-08
1DG011 1DG034 1DG049A	Valve Name M-87-1 Valve Name M-87-1 Valve Name M-83-1	D6 I D3 B6	1A DG C 3 DG Cooli 3 1A DG C 3	ooling Water B ing Water Str C ooler Outlet C	Pump Ds 4 rainer Back 0.75 x 1 Header Re 1.5	ch Check GA kwash Va RV elief Valve CK	MO Ne SA SA	A A A	C C SYS	0/C 0/C	ET RVT CC	M3 Y10 M3			TP-08
1DG011 1DG034 1DG049A	Valve Name M-87-1 Valve Name M-87-1 Valve Name M-83-1	D6 1 D3 B6	1A DG C 3 DG Cooli 3 1A DG C 3	B ing Water Str C coler Outlet C	Pump Ds 4 rainer Back 0.75 x 1 Header Re 1.5	ch Check GA kwash Va RV elief Valve CK	MO MO Ne SA SA	A A A	C C SYS	0/C 0/C	ET RVT CC CO	M3 Y10 M3 M3			TP-08
1DG011 1DG034 1DG049A	Valve Name M-87-1 Valve Name M-87-1 Valve Name M-83-1 Valve Name	D6 I D3 B6	1A DG C 3 DG Cooli 3 1A DG C 3	B ing Water Str C cooler Outlet C Starting Air	Pump Ds 4 rainer Back 0.75 x 1 Header Re 1.5 Compress	ch Check GA kwash Va RV elief Valve CK or Dsch C	MO Ive SA SA	A A A ve	C C SYS	0/C 0/C C	ET RVT CC CO	M3 Y10 M3 M3			TP-08
1DG011 1DG034 1DG049A 1DG049B	Valve Name M-87-1 Valve Name M-87-1 Valve Name M-83-1 Valve Name M-83-1	D6 1 D3 B6 C6	1A DG C 3 DG Cooli 3 1A DG C 3 1A DG A 3	B ing Water Str C coler Outlet C Starting Air C	Pump Ds 4 rainer Back 0.75 x 1 Header Re 1.5 Compress 1.5	GA GA Kwaish Va RV elief Valve CK or Dsch C CK	MO MO Ne SA SA Check Val	A A A ve A	C C SYS SYS	0/C 0/C C	ET RVT CC CO CC	M3 Y10 M3 M3			TP-08
1DG011 1DG034 1DG049A 1DG049B	Valve Name M-87-1 Valve Name M-87-1 Valve Name M-83-1 Valve Name M-83-1	D6 1 D3 B6 C6	1A DG C 3 DG Cooli 3 1A DG C 3 1A DG A 3	ooling Water B ing Water Str C ooler Outlet C Starting Air C	Pump Ds 4 rainer Back 0.75 x 1 Header Re 1.5 Compress 1.5	ch Check GA kwash Va RV elief Valve CK or Dsch C CK	MO Ive SA SA Check Val SA	A A A ve A	C C SYS SYS	0/C 0/C C	ET RVT CC CO CC CC	M3 Y10 M3 M3 M3 M3			TP-08 TP-01 TP-01
1DG011 1DG034 1DG049A 1DG049B	Valve Name M-87-1 Valve Name M-87-1 Valve Name M-83-1 Valve Name M-83-1 Valve Name	D6 [ D3 B6 C6	1A DG C 3 DG Cooli 3 1A DG C 3 1A DG A 3 1A DG B	ooling Water B ing Water Str C ooler Outlet C Starting Air C Starting Air	Pump Ds 4 rainer Back 0.75 x 1 Header Re 1.5 Compress 1.5	GA GA Kwaish Va RV elief Valve CK or Dsch C CK	MO Ive SA SA Check Val SA	A A A ve A ve	C C SYS SYS	0/C 0/C C	ET RVT CC CO CC CO	M3 Y10 M3 M3 M3 M3			TP-08 TP-01 TP-01
1DG011 1DG034 1DG049A 1DG049B	Valve Name M-87-1 Valve Name M-87-1 Valve Name M-83-1 Valve Name M-83-1	D6 I D3 B6 C6	IA DG C 3 DG Cooli 3 IA DG C 3 IA DG A 3 IA DG B 3	ooling Water B ing Water Str C ooler Outlet C Starting Air C Starting Air	Pump Ds 4 rainer Back 0.75 x 1 Header Re 1.5 Compress 0.75 x 1	ch Check GA kwash Va RV elief Valve CK or Dsch C CK or Dsch C RV	MO Ive SA SA Check Val SA	A A A ve A ve	C C SYS SYS C	0/C 0/C C C	ET RVT CC CO CC CO RVT	M3 Y10 M3 M3 M3 M3 Y10			TP-08 TP-01 TP-01
1DG011 1DG034 1DG049A 1DG049B 1DG055A	Valve Name M-87-1 Valve Name M-87-1 Valve Name M-83-1 Valve Name M-83-1 Valve Name M-83-1	D6 1 D3 B6 C6	IA DG C 3 DG Cooli 3 IA DG C 3 IA DG A 1A DG B 3 IA DG B 3 IA DG A	ooling Water B ing Water Str C ooler Outlet C Starting Air C Starting Air C Starting Air	Pump Ds 4 rainer Bacl 0.75 x 1 Header Re 1.5 Compress 1.5 Compress 0.75 x 1 Receiver F	ch Check GA awash Va RV elief Valve CK or Dsch C CK or Dsch C CK	MO Ive SA SA Check Val SA Check Val	A A A ve A ve	C C SYS SYS C	0/C 0/C C C	ET RVT CC CO CC CO RVT	M3 Y10 M3 M3 M3 Y10	· · · · · · · · · · · · · · · · · · ·		TP-08 TP-01 TP-01
1DG011 1DG034 1DG049A 1DG049B 1DG055A 1DG055B	Valve Name M-87-1 Valve Name M-87-1 Valve Name M-83-1 Valve Name M-83-1 Valve Name M-83-1	D6 1 D3 B6 C6 C6 D6	IA DG C 3 DG Cooli 3 IA DG C 3 IA DG A 3 IA DG A 3 IA DG A 3	ooling Water B ing Water Str C ooler Outlet C Starting Air C Starting Air C Starting Air C	Pump Ds 4 rainer Back 0.75 x 1 Header Re 1.5 Compress 0.75 x 1 Receiver F 0.75 x 1	ch Check GA kwash Va RV elief Valve CK or Dsch C CK or Dsch C RV Relief Valv	MO Ive SA SA Check Val SA Check Val SA SA	A A A ve A ve A	C C SYS SYS C C	0/C 0/C C C 0/C	ET RVT CC CO CC CO RVT	M3 Y10 M3 M3 M3 Y10 Y10	· · · · · · · · · · · · · · · · · · ·		TP-08 TP-01 TP-01
1DG011 1DG034 1DG049A 1DG049B 1DG055A 1DG055B	Valve Name M-87-1 Valve Name M-87-1 Valve Name M-83-1 Valve Name M-83-1 Valve Name M-83-1 Valve Name M-83-1 Valve Name	D6 D3 B6 C6 C6 D6	IA DG C 3 DG Cooli 3 IA DG C 3 IA DG A 3 IA DG B 1A DG A 3 IA DG B	ooling Water B ing Water Str C ooler Outlet C Starting Air C Starting Air C Starting Air C Starting Air	Pump Ds 4 rainer Bacl 0.75 x 1 Header Re 1.5 Compress 0.75 x 1 Receiver F 0.75 x 1 Receiver F	ch Check GA swash Va RV elief Valve CK or Dsch C CK or Dsch C CK RV Relief Valve	MO MO SA SA SA Check Val SA Check Val SA Check Val	A A A ve A ve A A	C C SYS SYS C C	0/C 0/C C C 0/C	ET RVT CC CO CC CO RVT RVT	M3 Y10 M3 M3 M3 Y10 Y10	· · · · · · · · · · · · · · · · · · ·		TP-08 TP-01 TP-01
1DG011 1DG034 1DG049A 1DG049B 1DG055A 1DG055B 1DG061A	Valve Name M-87-1 Valve Name M-87-1 Valve Name M-83-1 Valve Name M-83-1 Valve Name M-83-1 Valve Name M-83-1 Valve Name M-83-1	D6 [ D3 B6 C6 C6 D6 B3	IA DG C 3 DG Cooli 3 IA DG C 3 IA DG A 3 IA DG B 3 IA DG A 3 IA DG A 3 IA DG A 3 IA DG A 3 IA DG C	ooling Water B ing Water Str C ooler Outlet C Starting Air C Starting Air C Starting Air C Starting Air B	Pump Ds 4 rainer Back 0.75 x 1 Header Re 1.5 Compress 0.75 x 1 Receiver F 0.75 x 1 Receiver F 2	ch Check GA swaish Va RV elief Valve CK or Dsch C CK or Dsch C CK elief Valve RV Relief Valv GA	MO Ne SA SA Check Val SA Check Val SA check Val SA check Val SA check Val SA check Val	A A A ve A ve A A	C C SYS SYS C C	0/C 0/C C C 0/C 0/C	ET RVT CC CO CC CO RVT RVT FS-C	M3 Y10 M3 M3 M3 Y10 Y10 M3	· · · · · · · · · · · · · · · · · · ·		TP-08 TP-01 TP-01
1DG011 1DG034 1DG049A 1DG049B 1DG055A 1DG055B 1DG061A	Valve Name M-87-1 Valve Name M-87-1 Valve Name M-83-1 Valve Name M-83-1 Valve Name M-83-1 Valve Name M-83-1	D6 1 D3 B6 C6 C6 D6 B3	1A DG C 3 DG Cooli 3 1A DG C 3 1A DG A 3 1A DG A 3 1A DG B 3 1A DG B 3 1A DG A 3 1A DG B 3 1A DG C	ooling Water B ing Water Str C ooler Outlet C Starting Air C Starting Air C Starting Air C Starting Air B	Pump Ds 4 aner Bacl 0.75 x 1 Header Re 1.5 Compress 1.5 Compress 0.75 x 1 Receiver F 0.75 x 1 Receiver F 2	ch Check GA swash Va RV elief Valve CK or Dsch C CK or Dsch C CK RV Relief Valve RV Relief Valve	MO Ive SA SA Check Val SA Check Val SA Check Val SA Check Val SA AO	A A A ve A ve A A A	C C SYS SYS C C C	0/C 0/C C C 0/C 0/C	ET RVT CC CO CC CO RVT RVT RVT FS-C ST-C	M3 Y10 M3 M3 M3 Y10 Y10 Y10 M3 M3	· · · · · · · · · · · · · · · · · · ·		TP-08 TP-01 TP-01 TP-09 TP-09
1DG011 1DG034 1DG049A 1DG049B 1DG055A 1DG055B 1DG061A	Valve Name M-87-1 Valve Name M-87-1 Valve Name M-83-1 Valve Name M-83-1 Valve Name M-83-1 Valve Name M-83-1	D6 1 D3 B6 C6 C6 D6 B3	IA DG C 3 DG Cooli 3 IA DG C 3 IA DG A 3 IA DG B 3 IA DG A 3 IA DG B 3 IA DG A 3 IA DG C	ooling Water B ing Water Str C ooler Outlet C Starting Air C Starting Air C Starting Air C Starting Air B	Pump Ds 4 rainer Bacl 0.75 x 1 Header Re 1.5 Compress 0.75 x 1 Receiver F 0.75 x 1 Receiver F 2	ch Check GA awash Va RV elief Valve CK or Dsch C CK or Dsch C CK aelief Valv RV Relief Valv GA	MO MO Ne SA SA Check Val SA Check Val SA Check Val SA Check Val SA AO	A A A ve A ve A A A	C C SYS SYS C C C	0/C 0/C C C 0/C 0/C	ET RVT CC CO CC CO RVT RVT RVT FS-C ST-C ST-O	M3 Y10 M3 M3 M3 Y10 Y10 Y10 M3 M3 M3	· · · · · · · · · · · · · · · · · · ·		TP-08 TP-01 TP-01 TP-09 TP-09 TP-09 TP-09

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**Diesel Generator** 

Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1DG061B	M-83-1	· . C3	NC	·В	2	GA	AO	A	С	0	FS-C	MЗ			TP-09
•											ST-C	M3			TP-09
											ST-O	MЗ			TP-09
	Valve Name	1	A DG B	D Starting A	ir Motors	Supply Co	ontrol Val	ve							
1DG062A	M-83-1	B4	NC	В	2	ЗW	SO	А	D	E/D	SD	MЗ			TP-09
											SE	MЗ			TP-09
	Valve Name		IA DG A	C Starting A	ir Motors	Pinion Su	pply SOV	· ·							
1DG062B	M-83-1	C4	NC	В	2	ЗW	SO	Α	D	E/D	SD	· M3			TP-09
											SE	М3			TP-09
	Valve Name	•	IADG B	D Starting A	ir Motors	Pinion Su	pply SO\	1							
1DG064A	M-83-1	B3	NC	С	2	СК	SA	А	SYS	С	CC	M3			TP-09
	Valve Name	•	1A DG A	C Strting Air	Mtrs Pini	ion Sup Bl	eed Off (								
1DG064B	M-83-1	C3	NC	С	2	CK	SA	Α	SYS	С	CC	MЗ			TP-09
	Valve Name	•	1 A DG B	/D Strting Air	Mtrs Pini	ion Sup Bl	eed Off (								
1DG083A	M-83-4	E6	3	С	1	СК	SA	Α	SYS	O/C	CC	М3			TP-09
											CO	М3			TP-09
	Valve Name	) 	1B DG L	ube Oil DC S	Soak Back	Pump Ds	ch Chec	k Valve					<u> </u>		
1DG083B	M-83-4	E6	3	С	1	СК	SA	A	SYS	O/C	cc	М3			TP-09
											со	M3			TP-09
	Valve Name	•	1B DG L	ube Oil AC S	Soak Back	Pump Ds	ch Checl	Valve							
1DG084	M-83-4	- F5	NC	С	1	CK	SA	A	SYS	O/C	CC	M3			TP-09
											CO	М3			TP-09
40.0005	Valve Name	; 	1B DG L	ube Oil Circ	Pump Dso	ch Helief (	neck Va	Ne	0.10						70.00
1DG085	M-83-4	5	3	010-01	1	UK Dub	SA	A .,	515	C	00	M3		· ·	19-09
40.00074	valve Name					mps Usch	Hellet C	·	01/0	0/0					TD 00
IDG087A	M-83-4	50	3	U	I	UK	5A	А	515	0/0	00	MB			TP-09
	Valve Name		1A DG L	ube Oil DC S	Soak Back	i Pump Ds	ch Chec	k Valve			co	M3			19-09
1DG087B	M-83-4	B6	3	С	1	СК	SA	A	SYS	O/C	CC	M3			TP-09
											со	МЗ			TP-09
	Valve Name		1A DG L	ube Oil AC S	Soak Back	Pump Ds	ch Checl	Valve							
1DG088	M-83-4	C5	NC	С	1	CK	SA	A	SYS	O/C	CC	MЗ			TP-09
											со	МЗ		÷.	TP-09
. '	Valve Name	•	1A DG L	ube Oil Circ	Pumps De	sch Relief	Check V	alve						•	
1DG089	M-83-4	C5	3	С	1	СК	SA	Α	SYS	С	CC	М3			TP-09
	Valve Name	2	1A DG L	ube Oil Soak	Back Pu	mps Dsch	Relief C	V							

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### **Diesel Generator**

Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1DG091	M-83-4	E3	3	С	0.5	СК	SA	A	SYS	O/C	CC .	.M3			TP-09
											со	МЗ			TP-09
	Valve Name		1B DG Li	ube Oil Coole	er Outlet C	heck Vah	/e								
1DG092	M-83-4	B3	3 ·	С	0.5	СК	SA	A	SYS	0/C	CC	М3			TP-09
											со	MЗ			TP-09
	Valve Name	•	1A DG Li	ube Oil Coole	er Outlet C	Check Val	/e								
1DGABC	M-83-4	C8	NC	С	1	СК	SA	A	SYS	0/C	CC	M3			TP-09
											со	МЗ			TP-09
	Valve Name		DG Turbi	charger Che	eck Valve					0/0				<u></u>	70.00
1DGABC-HPC	5 M-83-4	F8	NC	C	1	CK	SA	A	SYS	0/C	00	M3			TP-09
	Valvo Namo			charger Ch	ack Valvo						00	MЗ			19-09
106XY7	M-83-4	C8			1	СК	SA	Α	<u>с</u>	0/C		M3			TP-09
IDUXIZ	W-00 4	00		Ũ	•		Un Un	~	Ũ	0/0	00	M3			TP-09
	Valve Name		Diesel G	enerator Tur	oocharger	Check Va	alve								
1DGXYZ-HPC	S M-83-4	F8	NC	С	1	СК	SA	A	С	O/C	CC	M3			TP-09
											со	МЗ			TP-09
	Valve Name		Diesel G	enerator Turl	oocharger	Check Va	alve								•
1E22-F362A	M-83-1	E6	3	С	1.5	СК	SA	A	SYS	С	CC	M3			
											со	M3			TP-01
	Valve Name		1B DG A	Starting Air	Comp Dsc	ch Check	Valve								
1E22-F362B	M-83-1	F6	3	С	1.5	СК	SA	A	SYS	С	СС	M3			
											со	MЗ			TP-01
	Valve Name		1B DG A	Starting Air	Comp Dso	h Check	Valve								
1E22-F369A	M-83-1	E6	3	с	0.75 x 1	RV	SA	A	С	0/C	RVT	Y10			
·····	Valve Name		1B DG A	Starting Air	Receiver I	Relief Valv	/e								
1E22-F369B	M-83-1	F6	3	С	0.75 x 1	RV	SA	A	С	O/C	RVT	Y10			
	Valvë Name		1B DG B	Starting Air	Receiver	Relief Val	/e								
1E22-F370A	M-83-1	D6	3	С	0.75 x 1	RV	·SA	Α	С	0/C	RVT	Y10			
	Valve Name		1B DG C	Starting Air	Receiver	Relief Val	/e								
1E22-F370B	M-83-1	E6	3	C	0.75 x 1	RV	SA	А	C .	O/C	RVT	Y10			
	Valve Name	=	18 DG D	Starting Air	Heceiver	Hellet Val	/e								75.00
1E22-F381A	M-83-1	E3		B	2	GA	AO	A	С	0	ET	MЗ			11-09
4500 50045	Valve Name		IB DG A	C Starting A	ir Motors		ontrol Val	ve							<b>TD</b> 40
1E22-F381B	M-83-1	F3		B	2	GA	AO	A	С	0	ΕT	М3			12-09
1500 50004	Valve Name		IB DG B	U Starting A	Ir Motors	Supply Co	ntrol Val	/e	·····						TD 00
1E22-F382A	M-83-1	U4		B C Storting 1	2 ir Motore I	3W Dining C	SU	A	U	E/D	EI	MЗ			18-08
	valve Name		ID DG A	o Starting A	IN INIOLOTS	-11100 50									

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M-83-1			• •	3126	iype	Туре	Passive	Position	Position	Rqmt	Freq.	Request	Just.	Pos.
	E4	NC	В	2	ЗW	SO	A	D	E/D	ΕT	M3			TP-09
Valve Name	1	B DG B/	D Starting A	ir Motors	Pinion Su	oply SOV								
M-83-1	E3	NC	С	2	СК	SA	A	SYS	С	CC	M3			TP-09
Valve Name	1	B DG A	C Strting Air	Mtrs Pini	on Sup Bl	eed Off C	V							
M-83-1	F3	NC	С	2	СК	SA	A	SYS	С	CC	MЗ			TP-09
Valve Name	1	B DG B/	D Strting Air	Mtrs Pini	on Sup Bl	eed Off C	V							
M-134-1	D6	3	С	10	СК	SA	A	SYS	O/C	CCD	СМ		······	CM08
										COD	СМ			CM08
										COF	M3			CM08
Valve Name	2	A DG C	ooling Water	Pump De	ch Check	Valve								
M-134-1	D6	3	В	4	GA	MO	A	С	O/C	ET	M3		<u></u>	
Valve Name	ť	)G Cooli	ng Water Str	ainer Bac	kwash Va	lve								
M-134-1	C4	3	С	0.75 x 1	RV	SA	A	С	O/C	RVT	Y10			TP-08
Valve Name	2	A DG C	ooler Outlet	Header R	elief Valve	•								
M-83-3	B6	3	С	1.5	СК	SA	A	SYS	С	СС	M3			
	•									со	МЗ			TP-01
Valve Name	2	A DG A	Starting Air	Compress	or Dsch C	heck Va	ve							
- M-83-3	C6	3	c	1.5	СК	SA	A	SYS	С	CC	M3			
									•	со	MЗ			TP-01
Valve Name	2	A DG B	Starting Air	Compress	or Dsch C	heck Va	ve							
M-83-3	B6	3	С	0.75 x 1	RV	SA	A	С	O/C	RVT	¥10			
Valve Name	. 2	A DG A	Starting Air I	Receiver I	Relief Val	/e						•		
M-83-3	C6	3	С	0.75 x 1	RV	SA	A	с	O/C	RVT	Y10			
Valve Name	2	A DG B	Starting Air	Receiver l	Relief Valv	/e								
M-83-3	B3	NC	B	2	GA	AO	A	С	0	FS-C	M3			TP-09
										ST-C	МЗ			TP-09
										ST-O	M3		•	TP-09
Valve Name	2	A DG A	C Starting A	ir Motors	Supply Co	ontrol Val	/e							
M-83-3	C3	NC	В	2	GA	AO	A	C.	0	FS-C	M3			TP-09
										ST-C	M3			TP-09
										ST-O	МЗ			TP-09
Valve Name	2	A DG B	D Starting A	ir Motors	Supply Co	ntrol Val	ve							
M-83-3	B4	NC		2	3W	SO	A	D	E/D	SD	M3			TP-09
					•••				2/0	SE	M3			TP-09
Valve Name	2	A DG A	C Starting A	ir Motors	Pinion Su	opiv SOV								
M-83-3	C4	NC	B	2	3W	SO	Α	D	E/D	SD	M3		<u> </u>	TP-09
	2.		-	-			••	-		SE	MB			TP-00
Valve Name	\$		D Starting A	ir Motors	Pinion Su	oply SOV				52	NO			
			- owning A						<u> </u>					
· · · ·	Valve Name M-83-1 Valve Name M-134-1 Valve Name M-134-1 Valve Name M-134-1 Valve Name M-83-3 Valve Name M-83-3 Valve Name M-83-3 Valve Name M-83-3 Valve Name M-83-3 Valve Name M-83-3 Valve Name M-83-3 Valve Name M-83-3	Valve Name   1     M-83-1   F3     Valve Name   1     M-134-1   D6     Valve Name   2     M-134-1   D6     Valve Name   2     M-134-1   D6     Valve Name   2     M-134-1   C4     Valve Name   2     M-83-3   B6     Valve Name   2     M-83-3   C6     Valve Name   2     M-83-3   C6     Valve Name   2     M-83-3   B6     Valve Name   2     M-83-3   B3     Valve Name   2     M-83-3   B3     Valve Name   2     M-83-3   B4     Valve Name   2     M-83-3   C4     Valve Name   2	Valve Name   1B DG A/     M-83-1   F3   NC     Valve Name   1B DG B/     M-134-1   D6   3     Valve Name   2A DG CO     M-134-1   D6   3     Valve Name   DG Cooli     M-134-1   D6   3     Valve Name   DG Cooli     M-134-1   C4   3     Valve Name   2A DG CO     M-83-3   B6   3     Valve Name   2A DG A     M-83-3   C6   3     Valve Name   2A DG B     M-83-3   C6   3     Valve Name   2A DG A     M-83-3   C6   3     Valve Name   2A DG A     M-83-3   B3   NC     Valve Name   2A DG A     M-83-3   C3   NC     Valve Name   2A DG A     M-83-3   C4   NC     Valve Name   2A DG A     M-83-3   C4   NC     Valve	Valve Name1B DG A/C Strting AirM-83-1F3NCCValve Name1B DG B/D Strting AirM-134-1D63CValve Name2A DG Cooling WaterM-134-1D63BValve NameDG Cooling Water StrM-134-1C43CValve Name2A DG Cooler Outlet IM-83-3B63CValve Name2A DG A Starting AirM-83-3C63CValve Name2A DG B Starting AirM-83-3B63CValve Name2A DG B Starting AirM-83-3B63CValve Name2A DG B Starting AirM-83-3B3NCM-83-3B3NCM-83-3B3NCM-83-3B3NCM-83-3B4NCM-83-3C4NCM-83-3C4NCM-83-3C4NCM-83-3C4NCM-83-3C4NCM-83-3C4NC	Valve Name1B DG A/C Strting Air Mtrs PinieM-83-1F3NCC2Valve Name1B DG B/D Strting Air Mtrs PinieM-134-1D63C10Valve Name2A DG Cooling Water Pump DsM-134-1D63B4Valve NameDG Cooling Water Strainer BacM-134-1C43C0.75 x 1Valve Name2A DG Cooler Outlet Header ReM-83-3B63C1.5Valve Name2A DG A Starting Air CompressM-83-3C63C0.75 x 1Valve Name2A DG B Starting Air CompressM-83-3B63C0.75 x 1Valve Name2A DG B Starting Air CompressM-83-3C63C0.75 x 1Valve Name2A DG A Starting Air Receiver MM-83-3B3NCB2Valve Name2A DG A/C Starting Air MotorsM-83-3B3NCB2Valve Name2A DG B/D Starting Air MotorsM-83-3C3NCBM-83-3B4NCB2Valve Name2A DG A/C Starting Air MotorsM-83-3C4NCB2Valve Name2A DG B/D Starting Air MotorsM-83-3C4NCB2Valve Name2A DG A/C Starting Air MotorsM-83-3C4NCB2Valve Name2A DG B/D Starting Air MotorsM-83-3C4NCB2 <td>Valve Name1B DG A/C Strting Air Mtrs Pinion Sup BillM-83-1F3NCC2CKValve Name1B DG B/D Strting Air Mtrs Pinion Sup BillM-134-1D63C10CKValve Name2A DG Cooling Water Pump Dsch CheckM-134-1D63B4GAValve NameDG Cooling Water Strainer Backwash VaM-134-1C43C0.75 x 1RVValve Name2A DG Cooler Outlet Header Relief ValveM-83-3B63C1.5CKValve Name2A DG A Starting Air Compressor Dsch CM-83-3B63C0.75 x 1RVValve Name2A DG B Starting Air Compressor Dsch CM-83-3B63C0.75 x 1RVValve Name2A DG A Starting Air Receiver Relief ValveM-83-3B63C0.75 x 1RVValve Name2A DG B Starting Air Receiver Relief ValveM-83-3B3NCB2GAM-83-3B3NCB2GAValve Name2A DG A/C Starting Air Motors Supply CcM-83-3B4NCB23WValve Name2A DG B/D Starting Air Motors Pinion SupCcM-83-3C4NCB23WValve Name2A DG A/C Starting Air Motors Pinion SupCcM-83-3C4NCB23WValve Name2A DG B/D Starting Air Motors Pinion Sup<td>Valve Name1B DG A/C Strting Air Mtrs Pinion Sup Bleed Off CM-83-1F3NCC2CKSAValve Name1B DG B/D Strting Air Mtrs Pinion Sup Bleed Off CM-134-1D63C10CKSAValve Name2A DG Cooling Water Pump Dsch Check ValveM-134-1D63B4GAMOValve Name2A DG Cooling Water Strainer Backwash ValveM-134-1C43C0.75 x 1RVSAValve Name2A DG Cooler Outlet Header Relief ValveM-134-1C43C0.75 x 1RVSAValve Name2A DG Cooler Outlet Header Relief ValveM-83-3B63C1.5CKSAValve Name2A DG A Starting Air Compressor Dsch Check ValM-83-3B63C0.75 x 1RVSAValve Name2A DG A Starting Air Receiver Relief ValveM-83-3C63C0.75 x 1RVSAValve Name2A DG A Starting Air Receiver Relief ValveM-83-3B3NCB2GAAOValve Name2A DG A/C Starting Air Motors Supply Control ValveM-83-3B4NCB23WSOValve Name2A DG B/D Starting Air Motors Pinion Supply SOVM-83-3C4NCB23WSOValve Name2A DG A/C Starting Air Motors Pinion Supply SOVM-83-3C4NCB23WSO<td>Valve Name 1B DG A/C Strting Air Mtrs Pinion Sup Bleed Off CV   M-83-1 F3 NC C 2 CK SA A   Valve Name 1B DG B/D Strting Air Mtrs Pinion Sup Bleed Off CV M-134-1 D6 3 C 10 CK SA A   Valve Name 2A DG Cooling Water Pump Dsch Check Valve M-134-1 D6 3 B 4 GA MO A   Valve Name 2A DG Cooling Water Strainer Backwash Valve MO A   M-134-1 D6 3 C 0.75 x 1 RV SA A   Valve Name 2A DG Cooler Outlet Header Relief Valve SA A   M-83-3 B6 3 C 1.5 CK SA A   Valve Name 2A DG A Starting Air Compressor Dsch Check Valve M-83-3 B6 3 C 0.75 x 1 RV SA A   Valve Name 2A DG A Starting Air Compressor Dsch Check Valve M-83-3 B6 3 C 0.75 x 1 RV SA A   Valve Name 2A DG A Starting Air Receiver Relief Valve M-83-3</td><td>Valve Name   1B DG A/C String Air Mtrs Pinion Sup Bleed Off CV     M-83-1   F3   NC   C   2   CK   SA   A   SYS     Valve Name   1B DG B/D String Air Mtrs Pinion Sup Bleed Off CV   M-134-1   D6   3   C   10   CK   SA   A   SYS     Valve Name   2A DG Cooling Water Pump Dsch Check Valve   M-134-1   D6   3   B   4   GA   MO   A   C     Valve Name   2A DG Cooling Water Strainer Backwash Valve   M-134-1   D6   3   B   4   GA   MO   A   C     Valve Name   2A DG Cooler Outlet Header Relief Valve   M-134-1   C4   3   C   0.75 x1   RV   SA   A   C     Valve Name   2A DG A Starting Air Compressor Dsch Check Valve   M-83-3   C6   3   C   1.5   CK   SA   A   C     Valve Name   2A DG A Starting Air Compressor Dsch Check Valve   M-83-3   C6   3   C   0.75 x1   RV   SA   A</td><td>Valve Name   1B DG A/C Striting Air Mits Pinion Sup Bleed Off CV     M-83-1   F3   NC   C   2   CK   SA   A   SYS   C     Valve Name   1B DG B/D Strting Air Mits Pinion Sup Bleed Off CV   M-134-1   D6   3   C   10   CK   SA   A   SYS   O/C     Valve Name   2A DG Cooling Water Pump Dsch Check Valve   M-134-1   D6   3   B   4   GA   MO   A   C   O/C     Valve Name   2A DG Cooling Water Strainer Backwash Valve   M   SA   A   C   O/C     Valve Name   2A DG Cooler Outlet Header Relief Valve   M   SA   A   SYS   C     Valve Name   2A DG A Starting Air Compressor Dsch Check Valve   M-83-3   C6   3   C   0/C   Valve Name     VA DG A Starting Air Compressor Dsch Check Valve   M-83-3   C6   3   C   0/C     Valve Name   2A DG A Starting Air Receiver Relief Valve   SA   A   C   0/C     Valve Name   2A DG A</td><td>Valve Name   1B DG A/C Striing Air Mtts Pinion Sup Bleed Off CV     M-83-1   F3   NC   C   2   CK   SA   A   SYS   C   CC     Valve Name   1B DG B/D Strling Air Mtrs Pinion Sup Bleed Off CV   M   A   SYS   O/C   CCD     M-134-1   D6   3   C   10   CK   SA   A   SYS   O/C   CCD     Valve Name   2A DG Cooling Water Pump Dsch Check Valve   M   A   C   O/C   ET     Valve Name   2A DG Cooling Water Strainer Backwash Valve   MA   C   O/C   RVT     Valve Name   2A DG Cooler Qutlet Header Relief Valve   SA   A   C   O/C   RVT     Valve Name   2A DG A Starting Air Compressor Dsch Check Valve   M   A   SYS   C   CC     Valve Name   2A DG A Starting Air Compressor Dsch Check Valve   M   A   SYS   C   CC     Valve Name   2A DG A Starting Air Receiver Relief Valve   M   A   C   O/C   RVT</td><td>Valve Name   1B DG A/C Striling Air Mtrs Pinion Sup Bleed Off CV     M-83-1   F3   NC   C   2   CK   SA   A   SYS   C   CC   Mits     Valve Name   1B DG B/D Strling Air Mtrs Prinon Sup Bleed Off CV   NC   C   CC   M   M   A   G   A   C   C   C   C   M   M   A   C   C   C   C   C   M   M   A   C   C   C   C   M</td><td>Valve Name   1B DG A/C String Air Mitrs Pinion Sup Bleed Off CV     M-83-1   F3   NC   C   2   OK   SA   A   SYS   C   CC   M3     Valve Name   1B DG B/D String Air Mitrs Pinion Sup Bleed Off CV   M-134-1   D6   3   C   10   CK   SA   A   SYS   O/C   CCD   CM     M-134-1   D6   3   C   10   CK   SA   A   SYS   O/C   CCD   CM     M-134-1   D6   3   B   4   GA   MO   A   C   O/C   ET   M3     Valve Name   2A DG Cooling Water Strainer Backwash Valve     M3   CO   <td< td=""><td>Valve Name   1B DG AIC String Air Mits Pinion Sup Bleed Off CV     M-83-1   F3   NC   C   2   CK   SA   A   SYS   C   CC   M3     Valve Name   1B DG B/D String Air Mits Pinion Sup Bleed Off CV      CC   M3     M-134-1   D6   3   C   10   CK   SA   A   SYS   O/C   CCD   CM     M-134-1   D6   3   B   4   GA   MO   A   C   O/C   ET   M3     Valve Name   2A DG Cooling Water Strainer Backwash Valve</td></td<></td></td></td>	Valve Name1B DG A/C Strting Air Mtrs Pinion Sup BillM-83-1F3NCC2CKValve Name1B DG B/D Strting Air Mtrs Pinion Sup BillM-134-1D63C10CKValve Name2A DG Cooling Water Pump Dsch CheckM-134-1D63B4GAValve NameDG Cooling Water Strainer Backwash VaM-134-1C43C0.75 x 1RVValve Name2A DG Cooler Outlet Header Relief ValveM-83-3B63C1.5CKValve Name2A DG A Starting Air Compressor Dsch CM-83-3B63C0.75 x 1RVValve Name2A DG B Starting Air Compressor Dsch CM-83-3B63C0.75 x 1RVValve Name2A DG A Starting Air Receiver Relief ValveM-83-3B63C0.75 x 1RVValve Name2A DG B Starting Air Receiver Relief ValveM-83-3B3NCB2GAM-83-3B3NCB2GAValve Name2A DG A/C Starting Air Motors Supply CcM-83-3B4NCB23WValve Name2A DG B/D Starting Air Motors Pinion SupCcM-83-3C4NCB23WValve Name2A DG A/C Starting Air Motors Pinion SupCcM-83-3C4NCB23WValve Name2A DG B/D Starting Air Motors Pinion Sup <td>Valve Name1B DG A/C Strting Air Mtrs Pinion Sup Bleed Off CM-83-1F3NCC2CKSAValve Name1B DG B/D Strting Air Mtrs Pinion Sup Bleed Off CM-134-1D63C10CKSAValve Name2A DG Cooling Water Pump Dsch Check ValveM-134-1D63B4GAMOValve Name2A DG Cooling Water Strainer Backwash ValveM-134-1C43C0.75 x 1RVSAValve Name2A DG Cooler Outlet Header Relief ValveM-134-1C43C0.75 x 1RVSAValve Name2A DG Cooler Outlet Header Relief ValveM-83-3B63C1.5CKSAValve Name2A DG A Starting Air Compressor Dsch Check ValM-83-3B63C0.75 x 1RVSAValve Name2A DG A Starting Air Receiver Relief ValveM-83-3C63C0.75 x 1RVSAValve Name2A DG A Starting Air Receiver Relief ValveM-83-3B3NCB2GAAOValve Name2A DG A/C Starting Air Motors Supply Control ValveM-83-3B4NCB23WSOValve Name2A DG B/D Starting Air Motors Pinion Supply SOVM-83-3C4NCB23WSOValve Name2A DG A/C Starting Air Motors Pinion Supply SOVM-83-3C4NCB23WSO<td>Valve Name 1B DG A/C Strting Air Mtrs Pinion Sup Bleed Off CV   M-83-1 F3 NC C 2 CK SA A   Valve Name 1B DG B/D Strting Air Mtrs Pinion Sup Bleed Off CV M-134-1 D6 3 C 10 CK SA A   Valve Name 2A DG Cooling Water Pump Dsch Check Valve M-134-1 D6 3 B 4 GA MO A   Valve Name 2A DG Cooling Water Strainer Backwash Valve MO A   M-134-1 D6 3 C 0.75 x 1 RV SA A   Valve Name 2A DG Cooler Outlet Header Relief Valve SA A   M-83-3 B6 3 C 1.5 CK SA A   Valve Name 2A DG A Starting Air Compressor Dsch Check Valve M-83-3 B6 3 C 0.75 x 1 RV SA A   Valve Name 2A DG A Starting Air Compressor Dsch Check Valve M-83-3 B6 3 C 0.75 x 1 RV SA A   Valve Name 2A DG A Starting Air Receiver Relief Valve M-83-3</td><td>Valve Name   1B DG A/C String Air Mtrs Pinion Sup Bleed Off CV     M-83-1   F3   NC   C   2   CK   SA   A   SYS     Valve Name   1B DG B/D String Air Mtrs Pinion Sup Bleed Off CV   M-134-1   D6   3   C   10   CK   SA   A   SYS     Valve Name   2A DG Cooling Water Pump Dsch Check Valve   M-134-1   D6   3   B   4   GA   MO   A   C     Valve Name   2A DG Cooling Water Strainer Backwash Valve   M-134-1   D6   3   B   4   GA   MO   A   C     Valve Name   2A DG Cooler Outlet Header Relief Valve   M-134-1   C4   3   C   0.75 x1   RV   SA   A   C     Valve Name   2A DG A Starting Air Compressor Dsch Check Valve   M-83-3   C6   3   C   1.5   CK   SA   A   C     Valve Name   2A DG A Starting Air Compressor Dsch Check Valve   M-83-3   C6   3   C   0.75 x1   RV   SA   A</td><td>Valve Name   1B DG A/C Striting Air Mits Pinion Sup Bleed Off CV     M-83-1   F3   NC   C   2   CK   SA   A   SYS   C     Valve Name   1B DG B/D Strting Air Mits Pinion Sup Bleed Off CV   M-134-1   D6   3   C   10   CK   SA   A   SYS   O/C     Valve Name   2A DG Cooling Water Pump Dsch Check Valve   M-134-1   D6   3   B   4   GA   MO   A   C   O/C     Valve Name   2A DG Cooling Water Strainer Backwash Valve   M   SA   A   C   O/C     Valve Name   2A DG Cooler Outlet Header Relief Valve   M   SA   A   SYS   C     Valve Name   2A DG A Starting Air Compressor Dsch Check Valve   M-83-3   C6   3   C   0/C   Valve Name     VA DG A Starting Air Compressor Dsch Check Valve   M-83-3   C6   3   C   0/C     Valve Name   2A DG A Starting Air Receiver Relief Valve   SA   A   C   0/C     Valve Name   2A DG A</td><td>Valve Name   1B DG A/C Striing Air Mtts Pinion Sup Bleed Off CV     M-83-1   F3   NC   C   2   CK   SA   A   SYS   C   CC     Valve Name   1B DG B/D Strling Air Mtrs Pinion Sup Bleed Off CV   M   A   SYS   O/C   CCD     M-134-1   D6   3   C   10   CK   SA   A   SYS   O/C   CCD     Valve Name   2A DG Cooling Water Pump Dsch Check Valve   M   A   C   O/C   ET     Valve Name   2A DG Cooling Water Strainer Backwash Valve   MA   C   O/C   RVT     Valve Name   2A DG Cooler Qutlet Header Relief Valve   SA   A   C   O/C   RVT     Valve Name   2A DG A Starting Air Compressor Dsch Check Valve   M   A   SYS   C   CC     Valve Name   2A DG A Starting Air Compressor Dsch Check Valve   M   A   SYS   C   CC     Valve Name   2A DG A Starting Air Receiver Relief Valve   M   A   C   O/C   RVT</td><td>Valve Name   1B DG A/C Striling Air Mtrs Pinion Sup Bleed Off CV     M-83-1   F3   NC   C   2   CK   SA   A   SYS   C   CC   Mits     Valve Name   1B DG B/D Strling Air Mtrs Prinon Sup Bleed Off CV   NC   C   CC   M   M   A   G   A   C   C   C   C   M   M   A   C   C   C   C   C   M   M   A   C   C   C   C   M</td><td>Valve Name   1B DG A/C String Air Mitrs Pinion Sup Bleed Off CV     M-83-1   F3   NC   C   2   OK   SA   A   SYS   C   CC   M3     Valve Name   1B DG B/D String Air Mitrs Pinion Sup Bleed Off CV   M-134-1   D6   3   C   10   CK   SA   A   SYS   O/C   CCD   CM     M-134-1   D6   3   C   10   CK   SA   A   SYS   O/C   CCD   CM     M-134-1   D6   3   B   4   GA   MO   A   C   O/C   ET   M3     Valve Name   2A DG Cooling Water Strainer Backwash Valve     M3   CO   <td< td=""><td>Valve Name   1B DG AIC String Air Mits Pinion Sup Bleed Off CV     M-83-1   F3   NC   C   2   CK   SA   A   SYS   C   CC   M3     Valve Name   1B DG B/D String Air Mits Pinion Sup Bleed Off CV      CC   M3     M-134-1   D6   3   C   10   CK   SA   A   SYS   O/C   CCD   CM     M-134-1   D6   3   B   4   GA   MO   A   C   O/C   ET   M3     Valve Name   2A DG Cooling Water Strainer Backwash Valve</td></td<></td></td>	Valve Name1B DG A/C Strting Air Mtrs Pinion Sup Bleed Off CM-83-1F3NCC2CKSAValve Name1B DG B/D Strting Air Mtrs Pinion Sup Bleed Off CM-134-1D63C10CKSAValve Name2A DG Cooling Water Pump Dsch Check ValveM-134-1D63B4GAMOValve Name2A DG Cooling Water Strainer Backwash ValveM-134-1C43C0.75 x 1RVSAValve Name2A DG Cooler Outlet Header Relief ValveM-134-1C43C0.75 x 1RVSAValve Name2A DG Cooler Outlet Header Relief ValveM-83-3B63C1.5CKSAValve Name2A DG A Starting Air Compressor Dsch Check ValM-83-3B63C0.75 x 1RVSAValve Name2A DG A Starting Air Receiver Relief ValveM-83-3C63C0.75 x 1RVSAValve Name2A DG A Starting Air Receiver Relief ValveM-83-3B3NCB2GAAOValve Name2A DG A/C Starting Air Motors Supply Control ValveM-83-3B4NCB23WSOValve Name2A DG B/D Starting Air Motors Pinion Supply SOVM-83-3C4NCB23WSOValve Name2A DG A/C Starting Air Motors Pinion Supply SOVM-83-3C4NCB23WSO <td>Valve Name 1B DG A/C Strting Air Mtrs Pinion Sup Bleed Off CV   M-83-1 F3 NC C 2 CK SA A   Valve Name 1B DG B/D Strting Air Mtrs Pinion Sup Bleed Off CV M-134-1 D6 3 C 10 CK SA A   Valve Name 2A DG Cooling Water Pump Dsch Check Valve M-134-1 D6 3 B 4 GA MO A   Valve Name 2A DG Cooling Water Strainer Backwash Valve MO A   M-134-1 D6 3 C 0.75 x 1 RV SA A   Valve Name 2A DG Cooler Outlet Header Relief Valve SA A   M-83-3 B6 3 C 1.5 CK SA A   Valve Name 2A DG A Starting Air Compressor Dsch Check Valve M-83-3 B6 3 C 0.75 x 1 RV SA A   Valve Name 2A DG A Starting Air Compressor Dsch Check Valve M-83-3 B6 3 C 0.75 x 1 RV SA A   Valve Name 2A DG A Starting Air Receiver Relief Valve M-83-3</td> <td>Valve Name   1B DG A/C String Air Mtrs Pinion Sup Bleed Off CV     M-83-1   F3   NC   C   2   CK   SA   A   SYS     Valve Name   1B DG B/D String Air Mtrs Pinion Sup Bleed Off CV   M-134-1   D6   3   C   10   CK   SA   A   SYS     Valve Name   2A DG Cooling Water Pump Dsch Check Valve   M-134-1   D6   3   B   4   GA   MO   A   C     Valve Name   2A DG Cooling Water Strainer Backwash Valve   M-134-1   D6   3   B   4   GA   MO   A   C     Valve Name   2A DG Cooler Outlet Header Relief Valve   M-134-1   C4   3   C   0.75 x1   RV   SA   A   C     Valve Name   2A DG A Starting Air Compressor Dsch Check Valve   M-83-3   C6   3   C   1.5   CK   SA   A   C     Valve Name   2A DG A Starting Air Compressor Dsch Check Valve   M-83-3   C6   3   C   0.75 x1   RV   SA   A</td> <td>Valve Name   1B DG A/C Striting Air Mits Pinion Sup Bleed Off CV     M-83-1   F3   NC   C   2   CK   SA   A   SYS   C     Valve Name   1B DG B/D Strting Air Mits Pinion Sup Bleed Off CV   M-134-1   D6   3   C   10   CK   SA   A   SYS   O/C     Valve Name   2A DG Cooling Water Pump Dsch Check Valve   M-134-1   D6   3   B   4   GA   MO   A   C   O/C     Valve Name   2A DG Cooling Water Strainer Backwash Valve   M   SA   A   C   O/C     Valve Name   2A DG Cooler Outlet Header Relief Valve   M   SA   A   SYS   C     Valve Name   2A DG A Starting Air Compressor Dsch Check Valve   M-83-3   C6   3   C   0/C   Valve Name     VA DG A Starting Air Compressor Dsch Check Valve   M-83-3   C6   3   C   0/C     Valve Name   2A DG A Starting Air Receiver Relief Valve   SA   A   C   0/C     Valve Name   2A DG A</td> <td>Valve Name   1B DG A/C Striing Air Mtts Pinion Sup Bleed Off CV     M-83-1   F3   NC   C   2   CK   SA   A   SYS   C   CC     Valve Name   1B DG B/D Strling Air Mtrs Pinion Sup Bleed Off CV   M   A   SYS   O/C   CCD     M-134-1   D6   3   C   10   CK   SA   A   SYS   O/C   CCD     Valve Name   2A DG Cooling Water Pump Dsch Check Valve   M   A   C   O/C   ET     Valve Name   2A DG Cooling Water Strainer Backwash Valve   MA   C   O/C   RVT     Valve Name   2A DG Cooler Qutlet Header Relief Valve   SA   A   C   O/C   RVT     Valve Name   2A DG A Starting Air Compressor Dsch Check Valve   M   A   SYS   C   CC     Valve Name   2A DG A Starting Air Compressor Dsch Check Valve   M   A   SYS   C   CC     Valve Name   2A DG A Starting Air Receiver Relief Valve   M   A   C   O/C   RVT</td> <td>Valve Name   1B DG A/C Striling Air Mtrs Pinion Sup Bleed Off CV     M-83-1   F3   NC   C   2   CK   SA   A   SYS   C   CC   Mits     Valve Name   1B DG B/D Strling Air Mtrs Prinon Sup Bleed Off CV   NC   C   CC   M   M   A   G   A   C   C   C   C   M   M   A   C   C   C   C   C   M   M   A   C   C   C   C   M</td> <td>Valve Name   1B DG A/C String Air Mitrs Pinion Sup Bleed Off CV     M-83-1   F3   NC   C   2   OK   SA   A   SYS   C   CC   M3     Valve Name   1B DG B/D String Air Mitrs Pinion Sup Bleed Off CV   M-134-1   D6   3   C   10   CK   SA   A   SYS   O/C   CCD   CM     M-134-1   D6   3   C   10   CK   SA   A   SYS   O/C   CCD   CM     M-134-1   D6   3   B   4   GA   MO   A   C   O/C   ET   M3     Valve Name   2A DG Cooling Water Strainer Backwash Valve     M3   CO   <td< td=""><td>Valve Name   1B DG AIC String Air Mits Pinion Sup Bleed Off CV     M-83-1   F3   NC   C   2   CK   SA   A   SYS   C   CC   M3     Valve Name   1B DG B/D String Air Mits Pinion Sup Bleed Off CV      CC   M3     M-134-1   D6   3   C   10   CK   SA   A   SYS   O/C   CCD   CM     M-134-1   D6   3   B   4   GA   MO   A   C   O/C   ET   M3     Valve Name   2A DG Cooling Water Strainer Backwash Valve</td></td<></td>	Valve Name 1B DG A/C Strting Air Mtrs Pinion Sup Bleed Off CV   M-83-1 F3 NC C 2 CK SA A   Valve Name 1B DG B/D Strting Air Mtrs Pinion Sup Bleed Off CV M-134-1 D6 3 C 10 CK SA A   Valve Name 2A DG Cooling Water Pump Dsch Check Valve M-134-1 D6 3 B 4 GA MO A   Valve Name 2A DG Cooling Water Strainer Backwash Valve MO A   M-134-1 D6 3 C 0.75 x 1 RV SA A   Valve Name 2A DG Cooler Outlet Header Relief Valve SA A   M-83-3 B6 3 C 1.5 CK SA A   Valve Name 2A DG A Starting Air Compressor Dsch Check Valve M-83-3 B6 3 C 0.75 x 1 RV SA A   Valve Name 2A DG A Starting Air Compressor Dsch Check Valve M-83-3 B6 3 C 0.75 x 1 RV SA A   Valve Name 2A DG A Starting Air Receiver Relief Valve M-83-3	Valve Name   1B DG A/C String Air Mtrs Pinion Sup Bleed Off CV     M-83-1   F3   NC   C   2   CK   SA   A   SYS     Valve Name   1B DG B/D String Air Mtrs Pinion Sup Bleed Off CV   M-134-1   D6   3   C   10   CK   SA   A   SYS     Valve Name   2A DG Cooling Water Pump Dsch Check Valve   M-134-1   D6   3   B   4   GA   MO   A   C     Valve Name   2A DG Cooling Water Strainer Backwash Valve   M-134-1   D6   3   B   4   GA   MO   A   C     Valve Name   2A DG Cooler Outlet Header Relief Valve   M-134-1   C4   3   C   0.75 x1   RV   SA   A   C     Valve Name   2A DG A Starting Air Compressor Dsch Check Valve   M-83-3   C6   3   C   1.5   CK   SA   A   C     Valve Name   2A DG A Starting Air Compressor Dsch Check Valve   M-83-3   C6   3   C   0.75 x1   RV   SA   A	Valve Name   1B DG A/C Striting Air Mits Pinion Sup Bleed Off CV     M-83-1   F3   NC   C   2   CK   SA   A   SYS   C     Valve Name   1B DG B/D Strting Air Mits Pinion Sup Bleed Off CV   M-134-1   D6   3   C   10   CK   SA   A   SYS   O/C     Valve Name   2A DG Cooling Water Pump Dsch Check Valve   M-134-1   D6   3   B   4   GA   MO   A   C   O/C     Valve Name   2A DG Cooling Water Strainer Backwash Valve   M   SA   A   C   O/C     Valve Name   2A DG Cooler Outlet Header Relief Valve   M   SA   A   SYS   C     Valve Name   2A DG A Starting Air Compressor Dsch Check Valve   M-83-3   C6   3   C   0/C   Valve Name     VA DG A Starting Air Compressor Dsch Check Valve   M-83-3   C6   3   C   0/C     Valve Name   2A DG A Starting Air Receiver Relief Valve   SA   A   C   0/C     Valve Name   2A DG A	Valve Name   1B DG A/C Striing Air Mtts Pinion Sup Bleed Off CV     M-83-1   F3   NC   C   2   CK   SA   A   SYS   C   CC     Valve Name   1B DG B/D Strling Air Mtrs Pinion Sup Bleed Off CV   M   A   SYS   O/C   CCD     M-134-1   D6   3   C   10   CK   SA   A   SYS   O/C   CCD     Valve Name   2A DG Cooling Water Pump Dsch Check Valve   M   A   C   O/C   ET     Valve Name   2A DG Cooling Water Strainer Backwash Valve   MA   C   O/C   RVT     Valve Name   2A DG Cooler Qutlet Header Relief Valve   SA   A   C   O/C   RVT     Valve Name   2A DG A Starting Air Compressor Dsch Check Valve   M   A   SYS   C   CC     Valve Name   2A DG A Starting Air Compressor Dsch Check Valve   M   A   SYS   C   CC     Valve Name   2A DG A Starting Air Receiver Relief Valve   M   A   C   O/C   RVT	Valve Name   1B DG A/C Striling Air Mtrs Pinion Sup Bleed Off CV     M-83-1   F3   NC   C   2   CK   SA   A   SYS   C   CC   Mits     Valve Name   1B DG B/D Strling Air Mtrs Prinon Sup Bleed Off CV   NC   C   CC   M   M   A   G   A   C   C   C   C   M   M   A   C   C   C   C   C   M   M   A   C   C   C   C   M	Valve Name   1B DG A/C String Air Mitrs Pinion Sup Bleed Off CV     M-83-1   F3   NC   C   2   OK   SA   A   SYS   C   CC   M3     Valve Name   1B DG B/D String Air Mitrs Pinion Sup Bleed Off CV   M-134-1   D6   3   C   10   CK   SA   A   SYS   O/C   CCD   CM     M-134-1   D6   3   C   10   CK   SA   A   SYS   O/C   CCD   CM     M-134-1   D6   3   B   4   GA   MO   A   C   O/C   ET   M3     Valve Name   2A DG Cooling Water Strainer Backwash Valve     M3   CO   M3   CO <td< td=""><td>Valve Name   1B DG AIC String Air Mits Pinion Sup Bleed Off CV     M-83-1   F3   NC   C   2   CK   SA   A   SYS   C   CC   M3     Valve Name   1B DG B/D String Air Mits Pinion Sup Bleed Off CV      CC   M3     M-134-1   D6   3   C   10   CK   SA   A   SYS   O/C   CCD   CM     M-134-1   D6   3   B   4   GA   MO   A   C   O/C   ET   M3     Valve Name   2A DG Cooling Water Strainer Backwash Valve</td></td<>	Valve Name   1B DG AIC String Air Mits Pinion Sup Bleed Off CV     M-83-1   F3   NC   C   2   CK   SA   A   SYS   C   CC   M3     Valve Name   1B DG B/D String Air Mits Pinion Sup Bleed Off CV      CC   M3     M-134-1   D6   3   C   10   CK   SA   A   SYS   O/C   CCD   CM     M-134-1   D6   3   B   4   GA   MO   A   C   O/C   ET   M3     Valve Name   2A DG Cooling Water Strainer Backwash Valve

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LaSalle Station IST PROGRAM PLAN

#### **Diesel Generator**

Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Vaive Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2DG064A	M-83-3	B3	NC	С	2	СК	SA	A	SYS	С	сс	M3			TP-09
	Valve Name	2	2A DG A	/C Strting Air	Mtrs Pini	on Sup Bi	eed Off C	2V							
2DG064B	M-83-3	C3	NC	С	2	СК	SA	A	SYS	С	CC	M3			TP-09
	Valve Name	2	2A DG B	/D Strting Air	Mtrs Pini	on Sup Bl	eed Off C	<sup>v</sup>							
2DG083A	M-83-4	E6	3	С	1	СК	SA	A	SYS	O/C	CC	M3			TP-09
											со	МЗ			TP-09
	Valve Name	2	2B DG L	ube Oil DC S	oak Back	Pump Ds	ch Checi	< Valve							
2DG083B	M-83-4	E6	3	С	1	СК	SA	A	SYS	O/C	СС	M3			TP-09
											со	MЗ			TP-09
	Valve Name	2	2B DG Li	ube Oil AC S	oak Back	Pump Ds	ch Check	Valve							
2DG084	M-83-4	F5	NC	С	1	СК	SA	Α	SYS	O/C	CC	M3			TP-09
											со	М3			TP-09
	Valve Name	2	2B DG L	ube Oil Circ I	Pump Dso	ch Relief C	Check Va	ve				-			
2DG085	M-83-4	F5	3	С	1	СК	SA	A	SYS	С	CC	M3		1.11212	TP-09
	Valve Name	2	2B DG L	ube Oil Soak	Back Pu	mps Dsch	Relief C	V							
2DG087A	M-83-4	B6	3	С	1	CK	SA	A	SYS	O/C	CC	M3			TP-09
											<b>CO</b> -	М3			TP-09
	Valve Name	2	2A DG L	ube Oil DC S	oak Back	Pump Ds	ch Checl	Valve					•		
2DG087B	M-83-4	B6	3	С	1	СК	SA	Α	SYS	O/C	CC	М3			TP-09
									· .		со	MЗ			TP-09
	Valve Name		2A DG L	ube Oil AC S	oak Back	Pump Ds	ch Checl	Valve							
2DG088	M-83-4	C5	NC	С	1	СК	SA	A	SYS	O/C	CC	MЗ			TP-09
											со	М3			TP-09
	Valve Name	2	2A DG L	ube Oil Circ I	Pumps Ds	sch Relief	Check Va	alve							
2DG089	M-83-4	C5	3	С	1	СК	SA	A	SYS	С	CC	М3			TP-09
	Valve Name	2	2A DG L	ube Oil Soak	Back Pu	mps Dsch	Relief C	/							
2DG091	M-83-4	E3	3	С	0.5	СК	SA	Α	SYS	O/C	CC	M3			TP-09
					_						co	M3			TP-09
******	Valve Name		2B DG L	ube Oil Cool	er Outlet (	Check Val	ve	"							
2DG092	M-83-4	B3	3	С	0.5	CK	SA	. <b>A</b>	SYS	O/C	CC	М3			TP-09
					_						co	M3			TP-09
	Valve Name		2A DG L	ube Oil Coole	er Outlet (	Check Val	ve								
2DGABC	M-83-4	C8	NC	C	1	CK	SA	A	SYS	0/C	CC	M3			TP-09
											со	M3			TP-09
	Valve Name	]	DG Turb	ocharger Ch	eck Valve										
2DGABC-HPC	S M-83-4	F8	NC	С	1	СК	SA	A	SYS	O/C	CC	М3			TP-09
											CO	М3			TP-09
	Valve Name		DG Turb	ocharger Ch	eck Valve										

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#### **Diesel Generator**

Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	ACT. Type	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2DGXYZ	M-83-4	C8	NC	С	1	СК	SA	Α,	С	O/C	сс	MЗ			TP-09
											со	МЗ			TP-09
	Valve Name	) [	Diesel G	enerator Tur	bocharger	Check Va	alve								
2DGXYZ-HPCS	6 M-83-4	F8	NC	С	1	СК	SA	A	С	O/C	CC	MЗ			TP-09
									•		со	МЗ			TP-09
	Valve Name	• [	Diesel G	enerator Tur	bocharger	Check V	alve								
2E22-F362A	M-83-3	E6	3	С	1.5	СК	SA	A	SYS	С	CC	MЗ			
											со	M3			TP-01
	Valve Name	) 2	2B DG A	Starting Air	Comp Dsc	h Check	Valve		÷.						
2E22-F362B	M-83-3	F6	3	С	1.5	СК	SA	A	SYS	С	CC	MЗ			
											со	М3			TP-01
	Valve Name		2B DG A	Starting Air	Comp Dso	h Check	Valve								
E22-F369A	M-83-3	E6	3	С	0.75 x 1	RV	SA	Α	C	O/C	RVT	Y10			
	Valve Name	• :	2B DG A	Starting Air	Receiver I	Relief Val	ve								
E22-F369B	M-83-3	F6	3	С	0.75 x 1	RV	SA	A	C	O/C	RVT	Y10			
	Valve Name	• 4	2B DG B	Starting Air	Receiver I	Relief Val	ve								
2E22-F370A	M-83-3	D6	3	C	0.75 x 1	RV	SA	A ·	С	O/C	RVT	Y10			
	Valve Name		2B DG C	Starting Air	Receiver	Relief Val	ve								
2E22-F370B	M-83-3	E6	3	C	0.75 x 1	RV	SA	Α	С	O/C	RVT	Y10			
	Valve Name		2B DG D	Starting Air	Receiver	Relief Val	ve								
2E22-F381A	M-83-3	E3	NC	В	2	GA	AO	Α	С	0	ET	МЗ			TP-09
	Valve Name	• :	2B DG A	/C Starting /	Air Motors	Supply Co	ontrol Val	ve							
2E22-F381B	M-83-3	F3	NC	В	2	GA	AO	A	С.	0	ET	M3			TP-09
	Valve Name	• 1	2B DG B	/D Starting /	Air Motors	Supply Co	ontrol Val	ve					_		
2E22-F382A	M-83-3	D4	NC	В	2 ·	ЗW	SO	A	D	E/D	ET	M3			TP-09
	Valve Name	• 1	2B DG A	/C Starting /	Air Motors	Pinion Su	pply SOV	,							
2E22-F382B	M-83-3	5 E4	NC	В	2	ЗW	SO	A	D	E/D	ET	MЗ			TP-09
	Valve Name	• :	2B DG B	/D Starting /	Air Motors	Pinion Su	pply SOV	/							
2E22-F383A	M-83-3	E3	NC	С	2	СК	SA	A	SYS	С	CC	M3		~	TP-09
	Valve Name	÷ 1	2B DG A	/C Strting Ai	ir Mtrs Pini	on Sup B	leed Off C	X							
2E22-F383B	M-83-3	F3	NC	С	2	CK	SA	A	SYS	C	CC	МЗ			TP-09
	Valve Name	•	2B DG B	/D Strting A	ir Mtrs Pini	on Sup B	leed Off (	V							

Revision Date:

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#### **Diesel Fuel Oil**

Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
0DO002	<b>M-85-1</b>	D4	3	C	1.5 ·	CK ·	SA	A	SYS	0	со	M3			TP-09
·	Valve Name	C	DG Fue	I Transfer P	ump Disch	arge Che	ck Valve								
1DO002	M-85-1	D6	3	С	1.5	СК	SA	A	SYS	0	CO	M3			TP-09
	Valve Name	1	A DG Fi	uel Transfer	Pump Dsc	h Check	Valve								
1DO012	M-85-1	D1	3	С	1.5	СК	SA	A	SYS	0	CO	MЗ			TP-09
	Valve Name	1	B DG Fi	uel Transfer	Pump Dsc	h Check	Valve								
1DO021	M-85-1	B2	3	В	2	GL	М	A	С	С	ME	Y2			TP-04
	Valve Name	0	Diesel Fir	e Pump Fue	Transf P	ump Suct	Bypass V	/lv							
2DO002	M-132	D6	3	С	1.5	СК	SA	Α	SYS	0	СО	MЗ			TP-09
	Valve Name	2	A DG Fi	uel Transfer	Pump Dsc	h Check	√alve								
2DO012	M-132	E4	3	С	1.5	СК	SA	A	SYS	0	CO	M3			TP-09
	Valve Name	2	B DG F	el Transfer	Pump Dsc	h Check	Valve								
2DO021	M-132	B2	3	В	2.	GL	М	А	С	· C	ME	¥2			TP-04
	Valve Name	0	)iesel Fir	e Pump Fue	I Transf P	ump Suct	Bypass V	/lv							

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### Fuel Pool Cooling

Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1FC044A	M-87-2	E6	3	С	6	СК	SA	A	SYS	0	СС	M3			TP-01
											со	MЗ			
	Valve Name		A Fuel Po	ool Emergen	cy Makeu	ip Pump D	sch Che	ck Valve							
1FC044B	M-87-1	C6	3	С	6	СК	SA	A	С	0	СС	M3	···		TP-01
											со	MЗ		•	
	Valve Name	I	B Fuel Po	ool Emergen	icy Makeu	ip Pump D	sch Che	ck Valve							
1FC045A	M-87-2	E6	3	В	6	GA	М	A	С	0	ME	Y2			TP-04
	Valve Name		A Fuel Po	ool Emergen	icy Maker	ip Pump D	sch Valv	e							
1FC045B	M-87-1	C6	3	В	6	GA	М	A	С	0	ME	Y2			TP-04
	Valve Name	ļ	B Fuel Po	ool Emergen	icy Makel	ip Pump D	sch Valv	e							
1FC046A	M-87-2	E5	3	В	6	GA	M	A	0	С	ME	¥2			TP-04
	Valve Name		A Fuel Po	ool Emergen	icy Makel	ip Pp Full	Flow Tes	t VIv							
1FC046B	M-87-1	C5	3	В	6	GA	M	A	0	С	ME	Y2			TP-04
	Valve Name	I	B Fuel P	ool Emergen	icy Makeu	ıp Pp Full	Flow Tes	t Viv							•.
1FC047A	M-87-2	E5	3	В	6	GA	М	A	0	O/C	ME	Y2			TP-04
	Valve Name		A Fuel P	ool Emerger	icy Makei	p Supply	Valve							elief Deferred quest Just.	
1FC047B	M-87-1	C5	3	В	6	GA	М	A	0	O/C	ME	Y2			TP-04
	Valve Name		B Fuel P	ool Emerger	icy Makei	ip Supply	Valve								
1FC050A	M-98-1	E5	3	B	6	GL	М		С	0	ME	Y2			TP-04
	Valve Name		A Fuel P	ool Emergen	icy Makeu	ip Supply	Hose Co	nn Vlv							
1FC050B	M-98-1	D1	3	B	6	GL	м	A	С	0	ME	¥2			TP-04
	Vaive Name		B Fuel Po	ool Emergen	icy Makeu	ip Supply	Hose Co	nn Viv							
1FC086	M-98-1	C7	2	A	10	GA	м	P	LC	С	L.T-J	AppJ			
	Valve Name		Reactor V	Well Drain H	eader Do	wnsteam	/alve								
1FC113	M-98-1	D7	2	A	2	GL	M		LC	С	LT-J	Appj			
	Valve Name		Cnmt Be	llows Seal C	avity Drn	Line Flush	ing Wtr \	/tv							
1FC114	M-98-1	D7	2	A	2	GL	M	P	LC	C	LT-J	AppJ			
	Valve Name		Cnmt Be	líows Seal C	avity Drn	Line Flush	iina Wtr V	/lv							
1FC115	M-98-1	C7	2	A	10	GA	M	P	LC	C	LT-J	AppJ			
	Valve Name		Reactor	Well Drain H	eader Up	stream Va	lve			-					
2FC044A	M-134-2	2 E6	3	С	6	СК	SA	Α	SYS	0	CC	M3			TP-01
			•	-	• .	•	•		0.0	•	CO	M3			
	Valve Name		A Fuel P	ool Emerger	nov Maker	in Pump F	Isch Che	ck Valve							
2EC044B	M-134-1	C6	3	C	6		SA	A	<u> </u>	0	00	M3			TP-01
21 00410		00	0	Ũ	0		0A		U	Ü	00	MB			11 01
	Valve Name		B Fuel P	ool Emerger	icy Makei	ıp Pump E	sch Che	ck Valve			00	INIO		Deferred Just.	
2FC045A	M-134-2	2 E6	3	B	6	GA	M	A	С	0	ME	Y2			TP-04
	Valve Name		- A Fuel P	ool Emerger	ncy Makeu	ip Pump D	sch Valv	e	-	-	-	-			

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LaSalle Station IST PROGRAM PLAN

Fue	l Pool	Coo	ling
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Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2FC045B	M-134-1	C6	3	В	6	GA	М	A	С	0	ME	Y2			TP-04
	Valve Name	6	3 Fuel Po	ool Emergen	cy Makeu	ip Pump D	sch Valv	e							
2FC046A	M-134-2	E5	3	В	6	GA	М	A	0	С	ME	Y2			TP-04
	Valve Name	I	A Fuel Po	ool Emergen	cy Makeu	ip Pp Full	Flow Tes	t Vlv							
2FC046B	M-134-1	C5	3	В	6	GA	М	A	0	С	ME	Y2			TP-04
	Vaive Name	(	3 Fuel Po	ool Emergen	cy Makeu	ip Pp Full	Flow Tes	t Viv							
2FC047A	M-134-2	E5	3	В	6	GA	M	A	0	O/C	ME	¥2			TP-04
	Valve Name	l	A Fuel Po	ool Emergen	cy Makeu	ip Supply '	Valve				,				
2FC047B	M-134-1	C5	3	В	6	GA	М	A	0	O/C	ME	Y2			TP-04
	Valve Name	l	3 Fuel Po	ool Emergen	cy Makeu	ip Supply '	Valve								
2FC050A	M-144-1	E4	3	В	6	GL	М	A	С	0	ME	Y2			TP-04
	Valve Name		A Fuel Po	ool Emergen	cy Makeu	ip Supply i	Hose Cor	n Viv							
2FC050B	M-144-1	D8	3	В	6	GL	M	A	С	0	ME	Y2			TP-04
	Valve Name	l	3 Fuel Po	ool Emergen	cy Makeu	p Supply	Hose Cor	n Vlv							
2FC086	M-144-1	C2	2	A	10	GA	М	P	LC	С	LT-J	АррЈ			
	Valve Name	I	Reactor V	Well Drain H	eader Dov	wnsteam \	/alve								
2FC113	M-144-1	D2	2	A _	2	GL	М	Р	LC	С	LT-J	Аррј			
	Valve Name	(	Cnmt Bel	llows Seal C	avity Drn I	Line Flush	ing Wtr V	''lv							
2FC114	M-144-1	D2	2	A	2	GL	М	Р	LC	С	LT-J	AppJ			
	Valve Name	(	Cnmt Bel	llows Seal C	avity Drn I	Line Flush	ing Wtr V	'lv							
2FC115	M-144-1	C2	2	A	10	GA	М	Р	LC	С	LT-J	AppJ			
	Valve Name	i	Reactor V	Vell Drain H	eader Ups	stream Va	ve								

**Revision Date:** 

Feedwater

Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
IB21-F010A	M-57•1	B6	1	A/C	24	СК	SA	A	0	С	CC	CS		CS-07	
									r		со	OP			TP-05, TP 01
											LT-J	AppJ			
	Valve Name		A Feedw	ater Line Inb	oard Che	ck Valve									
1B21-F010B	M-57-1	C6	1	A/C	24	CK	SA	Α.	0	С	ĊC	CS		CS-07	
											CO	OP			TP-05, TP 01
											LT-J	АррЈ			
	Valve Name		B Feedw	ater Line Inb	oard Che	ck Valve									
B21-F032A	M-57-1	B6	1	A/C	24	CK	AO	A	0	С	CC	CS		CS-09	
											, CO	OP			TP-05, TP 01
											LT-J	AppJ			
											PIT	Y2			
	Valve Name		A Feedw	ater Line Ott	od Testab	le Check	Valve								
1B21-F032B	M-57-1	C6	1	A/C	24	CK	AO	А	0	С	CC	CS		CS-09	
											CO	OP			TP-05, TP- 01
											LT-J	AppJ			
											PIT	Y2			
	Valve Name		B Feedw	ater Line Ott	od Testab	le Check	Valve								
1B21-F065A	M-57-1	85	2	A	24	GA	МО	А	0	С	ET	Y2	RV-02		÷
											LT-J	AppJ			
											OMN-C	JOG	RV-02		
	Valve Name		A Feedw	ater Line Ott	od isolatio	n Valve									
1B21-F065B	M-57-1	C5	2	А	24	GA	мо	A	0	С	ET	Y2	RV-02		
											LT-J	АррЈ			
											OMN-C	JOG	RV-02		
	Valve Name		B Feedw	ater Line Ott	od Isolatic	n Valve									
2B21-F010A	M-118-1	B6	1	A/C	24	СК	SA	Α	0	С	CC	CS		CS-07	
											со	OP			TP-05, TP- 01
											LT-J	АррЈ			
<del>.</del>	Valve Name		A Feedw	ater Line Inb	d Check	valve									
2B21-F010B	M-118-1	C6	1	A/C	24	CK	SA	A	0	С	CC	CS		CS-07	
·						*					CO	OP		•	TP-05, TP- 01
	Valve Name	:	R Feedw	ater Line Inh	d Check '	Valve					LT-J	AppJ			

**Revision Date:** 

Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normai Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2B21-F032A	M-118-1	B6	1	A/C	24	СК	AO	A	0	С	СС	CS		CS-09	
											со	OP			TP-05, TP- 01
											LT-J	.T-J AppJ			
											PIT	Y2			
	Valve Name	ļ	A Feedwa	ater Line Otb	d Testabi	e Check \	/alve								
2B21-F032B	M-118-1	C6	1	A/C	24	СК	AO	A	0	.C	CC	CS	· ·	CS-09	
											со	OP			TP-05, TP- 01
											LT-J	AppJ			
											PIT	Y2			
	Valve Name	E	3 Feedwa	ater Line Otb	d Testab	e Check \	/alve								•
2B21-F065A	M-118-1	B5	2	A	24	GA	MO	A	0	С	ET	Y2	RV-02		
				•							LT-J	AppJ			
				*							OMN-C	JOG	RV-02		
	Valve Name	ļ	A Feedwa	ater Line Otb	d Isolatio	n Valve									
2B21-F065B	M-118-1	C5	2	A	24	GA	MO	A	0	С	ET	Y2	RV-02		
											LT-J	AppJ			
											OMN-C	JOG	RV-02		
	Valve Name	E	3 Feedwa	ater Line Otb	d Isolatio	n Valve									

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Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	ACT. Type	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1HG001A	M-130-1	F7	2	A	4	GA	MO	A	С	O/C	ET	Y2	RV-02		<u></u>
											LT-J	AppJ			
											OMN-C	JOG	RV-02		
											OMN-O	JOG	RV-02		
	Vaive Name		U1 H2 R	ecombiner U	11 DW Su	ict Upstrm	Isol Valv	e							
1HG001B	M-130-1	E7	2	A	4	GA	МО	A	С	O/C	ΕT	Y2	RV-02		
											LT-J	AppJ			
											OMN-C	JOG	RV-02		
											OMN-O	JOG	RV-02		
	Valve Name		U2 H2 R	ecombiner l	J1 DW St	ict Upstrm	isol Valv	e					·		
1HG002A	M-130-1	F7	2	A	4	GL	МО	A	С	O/C	ΕT	Y2	RV-02		
											LT-J	AppJ			•
											OMN-C	JOG	RV-02		
											OMN-O	JOG	RV-02		
	Valve Name		U1 H2 R	ecombiner l	J1 DW Si	ct Dwnst	sol Valve								
1HG002B	M-130-1	E7	2	A	4	GL	MO	A	С	0/C	ET	¥2	RV-02		
											LT-J	АррЈ			
											OMN-C	JOG	RV-02		
											OMN-O	JOG	RV-02		
	Valve Name		U2 H2 R	ecombiner l	J1 DW St	ict Dwnst I	sol Valve	·							
1HG003	M-130-1	C6	2	В	6	GA	MO	A	0	O/C	ET	Y2	RV-02		
											OMN-C	JOG	RV-02		
											OMN-O	JOG	RV-02		
**************************************	Valve Name		U1 H2 R	ecombiner l	J1 Sup Po	ol Return	Valve			·····					
1HG005A	M-130-1	B7	2	А	6	GA	MO	Α	С	O/C	ET	Y2	RV-02		
											LT-J	AppJ		· .	
											OMN-C	JOG	RV-02		
											OMN-O	JOG	RV-02		
	Valve Name		U1 H2 R	ecombiner l	J1 Sup Pe	ool Rtrn D	wnst Isol	VIv							
1HG005B	M-130-1	I A7	2	А	6	GA	MO	Α	С	O/Ç	ΕT	Y2	RV-02		
·									1. A.		LT-J	АррЈ			
											OMN-C	JOG	RV-02		
											OMN-O	JOG	RV-02		
	Valve Name	•	U2 H2 R	ecombiner l	J1 Sup Pi	ool Rtrn D	wnst Isol	Vlv							

### **Containment Combustible Gas Control**

Valve EPN	P&ID	P&iD Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1HG006A	M-130-1	87	2	A	6	GA	MO	A	С	O/C	ΕT	Y2	RV-02	Deferred Just.	
											LT-J	АррЈ			
											OMN-C	JOG	RV-02		
											OMN-O	JOG	RV-02		
	Valve Name		U1 H2 R	ecombiner l	J1 Sup Po	ool Rtrn Up	ostrm Iso	Vlv			_				
1HG006B	M-130-1	A7	2	A	6	GA	МО	Α	С	0/C	ET	Y2	RV-02		
											LT-J	AppJ			
											OMN-C	JOG	RV-02		
											OMN-O	JOG	RV-02		
	Valve Name		U2 H2 R	ecombiner l	J1 Sup Po	ool Rtrn Up	ostrm Iso	VIv							
1HG007	M-130-2	2 F6	2	С	4	СК	SA	Α	С	0	CCD	СМ			CM02
											COD	СМ			CM02
											COF	RR			CM02
	Valve Name		U2 H2 R	ecombiner l	J1 DW Su	ict Check	Valve								
1HG009	M-130-1	C6	2	В	6	GA	МО	Α	С	0/C	ET	Y2	RV-02	····	
											OMN-C	JOG	RV-02		
											OMN-O	JOG	RV-02		
	Valve Name		U1 H2 R	ecombiner l	J2 Xtie Va	lve									
1HG016	M-130-1	F6	2	С	4	СК	SA	Α	С	0	CCD	СМ			CM02
											COD	СМ			CM02
											COF	RR			CM02
	Valve Name		U1 H2 R	ecombiner l	J1 DW Su	ict Check	Valve								
1HG025	M-130-1	D4	2	В	3	GL	MO	Α	0	0	ET	Y2	RV-02		
											OMN-O	JOG	RV-02		
	Valve Name		U1 H2 R	ecombiner Ir	nlet Valve	din Las a									
2HG001A	M-130-2	F7	2	A	4	GA	MO	Α	С	0/C	ET	Y2	RV-02		
											LT-J	AppJ			
											OMN-C	JOG	RV-02		
											OMN-O	JOG	RV-02		
	Valve Name		U2 H2 R	ecombiner U	J2 DW Su	ict Upstrm	Isol Valv	e							
2HG001B	M-130-2	2 E7	2	A	4	GA	МО	A	С	O/C	ET	Y2	RV-02		
											LT-J	AppJ			
											OMN-C	JOG	RV-02		
											OMN-O	JOG	RV-02		
	Valve Name		U1 H2 R	ecombiner (	J2 DW Su	ict Upstrm	Isol Valv	e							

**Revision Date:** 

**Containment Combustible Gas Control** 

Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2HG002A	M-130-2	F7	2	A	4	GL	МО	A	С	O/C	ET	Y2	RV-02		
,											LT-J	AppJ			
											OMN-C	JOG	RV-02		
											OMN-O	JOG	RV-02		
	Valve Name	1	U2 H2 R	ecombiner l	J2 DW Su	ct Dwnst I	sol Valve								
2HG002B	M-130-2	E7	2	A	4	GL	MO	A	· C	O/C	ET	Y2	RV-02		
											LT-J	AppJ			
											OMN-C	JOG	RV-02		
×										•	OMN-O	JOG	RV-02		
	Valve Name		U1 H2 R	ecombiner l	J2 DW Su	ct Dwnst I	sol Valve								
2HG003	M-130-2	C6	2	В	6	GA	МО	A	0	O/C	ET	Y2	RV-02		
											OMN-C	JOG	RV-02		
											OMN-O	JOG	RV-02		
	Valve Name		U2 H2 R	ecombiner l	U2 Sup Po	ol Return	Valve								
2HG005A	M-130-2	2 B7	2	Α	6	GA	MO	A	c	O/C	ET	Y2	RV-02		
											LT-J	АррЈ		•	
											OMN-C	JOG	RV-02		
											OMN-O	JOG	RV-02		
	Valve Name		U1 H2 R	ecombiner l	U2 Sup Po	ol Rtrn D	wnst Isol	Vlv							
2HG005B	M-130-2	2 A7	2	A	6	GA	MO	Α	С	O/C	ET	Y2	RV-02		
											LT-J	AppJ			
											OMN-C	JOG	RV-02		
											OMN-O	JOG	RV-02		
	Valve Name		U2 H2 R	ecombiner l	U2 Sup Po	ol Rtrn D	wnst Isol	Vlv							
2HG006A	. M-130-2	2 B7	2	A	6	GA	мо	Α	С	O/C	ET	Y2	RV-02		
											LT-J	AppJ		•	
											OMN-C	JOG	RV-02		
	Matur Maria				10 Cure De	- 1 Dim 11		1.4.			OMN-O	JOG	RV-02		
0100000	Valve Name		U2 H2 H	ecombiner (			ostrm iso			0/0				1	
2HG006B	M-130-2	2 A/	2	A	D	GA	MO	A	C	0/0	E1	¥2	HV-02		
												Арри	01/00		
			· .								OMN-C	JOG	HV-02		
	Valve Name		111 H2 B	ecombiner l	12 Sun Pr	ol Rtrn H	nstrm isn	[\/\/			OMN-O	JOG	HV-02		
2HG007	M.130.1	FA		<u> </u>	4	Ск	<u>SA</u>	Δ	0	0	CCD	CM			CM02
	W-150-1	0	۲	U	-	UN	54	~	U	U	000	CM			CM02
											COF	RR			CM02
	Valua Nama		1 H D D	ecombiner t	12 DW C	ct Chack	Valve				001				ONIOZ
	Valve Haille	•										•			

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Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2HG009	M-130-2	2 C6	2	В	6	GA	MO	A	С	O/C	ΕT	Y2	RV-02		
											OMN-C	JOG	RV-02		
											OMN-O	JOG	RV-02		
	Valve Name		U2 H2 R	ecombiner L	J1 Xtie Va	lve									
2HG016	M-130-2	2 F6	2	С	4	СК	SA	A	с	0	CCD	СМ			CM02
											COD	СМ			CM02
											COF	RR			CM02
	Valve Name		U2 H2 R	ecombiner L	J2 DW Su	ct Check	√alve								
2HG025	M-130-2	2 D4	2	В	3	GL	MO	A	0	0	ΕT	Y2	RV-02		
											OMN-O	JOG	RV-02		
	Valve Name		U2 H2 R	ecombiner In	let Valve										

Containment Combustible Gas Control

**Revision Date:** 

### High Pressure Core Spray

Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1E22-F004	M-95	D6	1	А	12	GA	МО	A	С	O/C	ΕŤ	Y2	RV-02		
											LT-J	AppJ			
											LT-S	Y2			
											OMN-C	JOG	RV-02		
											OMN-O	JOG	RV-02		
	Valve Name	ł	IPCS Inj	jection Isolat	ion Valve										
1E22-F005	M-95	D7	1	A/C	12	СК	SA	A	C	O/C	CC	CS		CS-17	
											со	CS		CS-17	
											LT-S	Y2			
	Valve Name	1	IPCS In	jection Chec	k Valve										
1E22-F007	M-95	D4	2	С	0.75	СК	SA	A	SYS	O/C	CC	M3			TP-07
											со	MЗ			TP-07
	Valve Name	·	HPCS W	ater Leg Pur	mp Discha	irge Chec	k Valve								
1E22-F012	M-95	C3	2	В	4	GA	MO	A	С	O/C	ET	Y2	RV-02		
											OMN-C	JOG	RV-02		
											OMN-O	JOG	RV-02		
	Valve Name	· I	HPCS PI	ump Minimur	m Flow Isc	plation Val	ve								
1E22-F014	M-95	B5	2	С	1 x 2	RV	SA	A	С	O/C	RVT	Y10			
	Valve Name		HPCS PI	ump Suct Re	lief Valve										
1E22-F015	M-95	B6	2	В	18	GA	MO	A	0	O/C	ΕT	Y2	RV-02		
											OMN-C	JOG	RV-02		
											OMN-O	JOG	RV-02		
	Valve Name	. 1	HPCS Pi	ump Sup Poo	ol Suction	Isolation '	Valve								
1E22-F023	M-95	C5	2	В	12	GL	MO	A	С	С	ET.	Y2	RV-02		
											OMN-C	JOG	RV-02		
	Valve Name	- 1	HPCS Fi	III Flow Test	Isolation V	Valve									
1E22-F024	M-95	C3	2	С	16	СК	SA	A	SYS	O/C	CC	М3			
											со	МЗ			
	Valve Name	.	HPCS Pi	ump Dsch Cl	heck Valve	Э									
1E22-F028	M-87-1	B6	3	С	10	СК	SA	A	SYS	O/C	CCD	СМ			CM08
											COD	СМ			CM08
											COF	МЗ		·	CM08
	Valve Name	•	1B DG C	ooling Wate	r Pump Ds	sch Check	Valve								
1E22-F035	M-95	D2	. 2	С	.75 x 1	RV	SA	A	С	O/C	RVT	Y10			TP-08
	Valve Name	•	HPCS PI	ump Dischar	ge Relief	Valve									
1E22-F038	M-95	D7	1	В	12	GA	М	Р	LO	0	PIT	Y2			
	Valve Name		HPCS In	iection Hdr N	Aanual Sto	on Valve									

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LaSalle Station IST PROGRAM PLAN

### High Pressure Core Spray

Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1E22-F304	M-2095-1	I B4	2	C	0.75	XFC.	SA	A	0	С	СС	RR		RJ-07	TP-10
											CO	OP			TP-05, TP- 01
	Valve Name	l	HPCS/B	y Vessel D/P	Sw 1E22	-N009 Ex	cess Flow	Check			PIT	Y2			
1E22-F319	M-87-1	B6	3	B	4	GA	МО	A	C	O/C	ST-C	Y2			TP-07
											ST-O	Y2			TP-07
	Valve Name		DG Cool	ing Water St	rainer Bac	kwash Va	lve								
1E22-F345	M-87-1	B4	3	С	.75 x 1	RV	SA	A	С	O/C	RVT	Y10		<u> </u>	TP-08
	Valve Name		1B Dg C	ooler Inlet He	eader Reli	ef Valve									
2E22-F004	M-141	D6	1	A	12	GA	МО	A	С	O/C	ΕT	Y2	RV-02		
											LT-J	AppJ			
											LT-S	Y2			
											OMN-C	JOG	RV-02		
											OMN-O	JOG	RV-02		
	Valve Name		HPCS In	jection Isolat	ion Valve										
2E22-F005	M-141	D7	1	A/C	12	СК	SA	Α	С	O/C	CC	CS		CS-17	
											CO	CS		CS-17	
											LT-S	Y2			
	Valve Name		HPCS In	jection Chec	k Valve										
2E22-F007	M-141	D4	2	С	0.75	СК	SA	A	SYS	O/C	CC	MЗ			TP-07
											CO	MЗ			TP-07
	Valve Name		HPCS W	ater Leg Pu	np Dsch (	Check Val	ve								
2E22-F012	M-141	C3	2	В	4	GA	MO	Α	С	O/C	ET	Y2	RV-02		
											OMN-C	JOG	RV-02		
											OMN-O	JOG	RV-02		
	Valve Name		HPCS P	ump Minimu	n Flow Isc	plation Val	ve	•							
2E22-F014	M-141	C5	2	С	1 x 2	RV	SA	А	С	O/C	RVT	Y10			
	Valve Name		HPCS P	ump Suction	Relief Va	lve									
2E22-F015	M-141	B6	2	В	18	GA	МО	Α	0	O/C	. ET	Y2	RV-02		
-											OMN-C	JOG	RV-02		
											OMN-O	JOG	RV-02		
	Valve Name		HPCS P	ump Sup Po	ol Suction	Isolation	Valve								
2E22-F023	M-141	D5	2	В	12	GL	MO	A	С	С	ET	Y2	RV-02		
											OMN-C	JOG	RV-02		
	Valve Name		HPCS F	ull Flow Test	Isolation	Valve			-						
2E22-F024	M-141	D3	2	С	16	СК	SA	Α	SYS	O/C	CC	М3			
											CO	M3			
	Valve Name		HPCS P	ump Dischar	ge Check	Valve									
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High	Pressure	Core	Spray	v
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Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normai Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2E22-F028	M-134-1	B6	3	С	10	СК	SA	A	SYS	O/C	CCD	СМ			CM08
											COD	СМ			CM08
											COF	MЗ			CM08
	Valve Name		1B DG C	ooling Water	r Pump Ds	sch Check	Valve								
2E22-F035	M-141	D2	2	С	.75 x 1	RV	SA	A	С	O/C	RVT	Y10			TP-08
	Valve Name	I	HPCS P	ump Dischar	ge Relief V	Valve									
2E22-F038	M-141	D7	1	В	12	GA	M	Р	LO	0	PIT	Y2			
	Valve Name	I	HPCS In	jection Hdr M	lanual Sto	op Valve									
2E22-F304	M-2141-	1 84	2	С	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
											со	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name	·	HPCS/R	x Vessel D/P	Sw 1E22	-N009 Ex	cess Flov	v Check					•		
2E22-F319	M-134-1	B6	3	В	4	GA	МО	A	С	O/C	ST-C	Y2			TP-07
											ST-O	Y2			TP-07
	Valve Name		DG Cool	ing Water St	rainer Bac	kwash Va	lve								
2E22-F345	M-134-1	·84	3	С	.75 x 1	RV	SA	A	С	O/C	RVT	Y10			TP-08
	Valve Name		1B Dg C	ooler Inlet He	eader Reli	ef Valve									

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Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1B21-F029A	M-81-2	F5	3	С	0.75	СК	SA	A	SYS	С	СС	CS		CS-16	· · · · · · · · · · · · · · · · · · ·
						· .					CO	CS			TP-01
	Valve Name	,	A Otbd N	ISIV Accum	Inlet Cheo	k Valve									
1B21-F029B	M-81-2	F5	3	C	0.75	CK	SA	A	SYS	С	CC	CS		CS-16	
											со	CS			TP-01
	Vaive Name	I	3 Otbd M	ISIV Accum	Inlet Cheo	k Valve									
1B21-F029C	M-81-2	E5	3	С	0.75	СК	SA	A	SYS	С	cc	CS		CS-16	
											со	CS			TP-01
	Valve Name	(	C Otbd N	ISIV Accum	Inlet Cheo	ck Valve									
1B21-F029D	M-81-2	F5	3	С	0.75	СК	SA	А	SYS	С	CC	CS		CS-16	
											со	CS			TP-01
	Valve Name	I	D Otbd N	ISIV Accum	Inlet Cheo	ck Valve									
2B21-F029A	M-81-17	E5	3	С	0.75	СК	SA	A	SYS	С	CC	CS		CS-16	
											CO	CS			TP-01
	Valve Name	,	A Otbd N	ISIV Accum	Inlet Cheo	ck Valve			•						
2B21-F029B	M-81-17	E5	3	С	0.75	СК	SA	A	SYS	С	CC	CS		CS-16	
											со	CS			TP-01
	Valve Name	I	B Otbd N	ISIV Accum	Inlet Cheo	ck Valve									
2B21-F029C	M-81-17	D5	3	С	0.75	СК	SA	A	SYS	С	CC	CS		CS-16	
											со	CS			TP-01
	Valve Name	(	C Otbd N	ISIV Accum	Inlet Cheo	ck Valve									
2B21-F029D	M-81-17	' E5	3	С	0.75	СК	SA	A	SYS	С	СС	CS		CS-16	
											со	CS			TP-01
	Valve Name	I	D Otbd N	ISIV Accum	Inlet Chee	ck Valve									

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Instrument Nitrogen

Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1B21-F024A	M-66-2	F6	3	С	0.75	СК	SA	A	SYS	С	СС	CS		CS-16	
	Valve Name		A inbd M	SIV Accum I	nlet Chec	k Valve					со	CS			TP-01
1821-F024B	M-66-2	F7	3	С	0.75	СК	SA	A	SYS	С	CC ·	CS		CS-16	
											со	CS			TP-01
	Valve Name	I	3 Inbd M	SIV Accum I	nlet Chec	k Valve									
1B21-F024C	M-66-2	F4	3	С	0.75	СК	SA	A	SYS	С	СС	CS	`	CS-16	
											со	CS			TP-01
	Valve Name	(	C Inbd M	SIV Accum I	inlet Chec	k Valve									
1B21-F024D	M-66-2	F5	3	С	0.75	CK	SA	Α	SYS	С	CC	CS		CS-16	
											со	CS			TP-01
_	Valve Name	I	D Inbd M	SIV Accum I	Inlet Chec	k Valve									
1B21-F036C	M-66-2	D2	3	С	0.5	СК	SA	Α	SYS	С	CC	CS		CS-18	
											со	CS		CS-18	TP-01
	Valve Name		SRV Acc	umulator 1B	21-A004C	Inlet Che	eck Valve								
1B21-F036D	M-66-2	D4	3	С	0.5	СК	SA	A	SYS	с	CC	CS		CS-18	
											со	CS		CS-18	TP-01
	Valve Name		SRV Acc	umulator 1B	21-A004E	Inlet Che	ck Valve								
1B21-F036E	M-66-2	D7	3	С	0.5	СК	SA	Α	SYS	С	CC	CS		CS-18	
											co	CS		CS-18	TP-01
<u> </u>	Valve Name		SRV Acc	umulator 1B	21-A004E	Inlet Che	ck Valve								
1B21-F036F	M-66-2	D5	3	С	0.5	СК	SA	Α	SYS	С	сс	CS		CS-18	
											CO	CS		CS-18	TP-01
<b></b>	Valve Name		SRV Acc	umulator 1B	21-A004F	Iniet Che	ck Valve						-		
1B21-F036H	M-66-2	D2	3	С	0.5	, CK	SA	Α	SYS	С	CC	CS		CS-18	
											co	CS		CS-18	TP-01
	Valve Name	: 	SRV Acc	umulator 1B	21-A004H	Inlet Che	eck Valve							,	
1B21-F036K	M-66-2	D5	3	C	0.5	CK	SA	Α	SYS	С	CC	CS ·		CS-18	
											CO	CS		CS-18	ŢP-01
	Valve Name	•	SRV Acc	umulator 1B	21-A004	Inlet Che	ck Valve								
1B21-F036L	M-66-2	D7	3	С	0.5	СК	SA	A	SYS	С	CC	CS		CS-18	
											CO	CS		CS-18	TP-01
<u></u>	Valve Name		SRV Acc	cumulator 1B	21-A004L	. iniet Che	ck Valve		·						
1B21-F036M	M-66-2	D6	3	С	0.5	СК	SA	A	SYS	С	cc	CS		CS-18	
											со	CS		CS-18	TP-01
	Valve Name	!	SRV Acc	cumulator 1B	21-A004	I Inlet Che	eck Valve								

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### Instrument Nitrogen

Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1B21-F036P	M-66-2	D4	3	С	0.5	СК	SA	A	SYS	С	СС	CS		CS-18	
	Valve Name		SRV Acc	umulator 18	21.4004P	Inlet Che	ck Valve				со	CS		CS-18	TP-01
1B21-E036B	M-66-2	D7	3	C	0.5	CK	SA	Α	SYS	С	00	CS		CS-18	
		2,	Ū	Ū	0.0	•	•			Ū	co	CS		CS-18	TP-01
	Valve Name		SRV Acc	umulator 1B	21-A004F	I Inlet Che	ck Valve								
1B21-F036S	M-66-2	D6	3	С	0.5	СК	SA	Α	SYS	С	CC	CS		CS-18	
											со	CS		CS-18	TP-01
	Valve Name		SRV Acc	umulator 18	21-A004S	Inlet Che	ck Valve								
1B21-F036U	M-66-2	D3	3	С	0.5	СК	SA	А	SYS	С	CC	CS		CS-18	
											со	CS		CS-18	TP-01
	Valve Name		SRV Acc	cumulator 1B	21-A004L	Inlet Che	ck Valve								
1B21-F036V	M-66-2	D5	3	C	0.5	СК	SA	A	SYS	С	CC	CS		CS-18	
											со	CS		CS-18	TP-01
	Valve Name		SRV Acc	umulator 1B	21-A004V	Inlet Che	ck Valve								
1B21-F040C	M-66-2	B2	3	С	0.5	СК	SA	A	SYS	O/C	CC	CS		CS-14	
											CO	CS		CS-14	
	Valve Name		SRV AD	S Accumulate	or 1B21-A	.003C Inle	t Check	/alve							
1B21-F040D	M-66-2	B4	3	С	·0.5	СК	SA	Α	SYS	O/C	СС	CS		CS-14	
	Valve Name		SRV ADS	S Accumulate	or 1B21-A	.003D Inle	t Check \	/alve			со	CS		CS-14	
1B21-F040E	M-66-2	87	3	С	0.5	СК	SA	A	SYS	0/C	CC	CS		CS-14	
			Ū	C C	0.0	••••	•		0.0		co	CS		CS-14	
	Valve Name		SRV AD	S Accumulate	or 1B21-A	.003E Inie	t Check V	/alve	•						
1B21-F040R	M-66-2	B7	3	С	0.5	СК	SA	A	SYS	O/C	СС	CS		CS-14	······
											со	CS		CS-14	
	Valve Name		SRV AD	S Accumulate	or 1B21-A	.003R Inle	t Check \	/alve							
1B21-F040S	M-66-2	B6	3	C	0.5	CK	SA	Α	SYS	0/C	cc	CS		CS-14	
											со	CS		CS-14	
	Valve Name		SRV AD	S Accumulate	or 1B21-A	.003S Inle	t Check \	/alve							
1B21-F040U	M-66-2	B3	3	С	0.5	СК	SA	A	SYS	O/C	CC	CS	·	CS-14	
											со	CS		CS-14	
	Valve Name		SRV AD	S Accumulate	or 1B21-A	.003U Inle	t Check \	/alve							
1B21-F040V	M-66-2	B5	3	С	0.5	СК	SA	A	SYS	O/C	CC	CS		CS-14	
											со	CS		CS-14	
	Valve Name		SRV ADS	S Accumulate	or 1B21-A	003V Inle	t Check \	/alve							

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Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1IN001A	<b>M-66-</b> 1	F6	2	A	2	GL	AO	A	0	С	FS-C	RR		RJ-01	TP-03
											LT-J	AppJ			
											PIT	Y2			
											ST-C	RR		RJ-01	
	Valve Name	I	Drywell I	nst N2 Suctio	on Heade	r Upstm Is	olation V	v							
1IN001B	M-66-1	F7	2	A	2	GL	AO	A	0	С	FS-C	RR		RJ-01	TP-03
											LT-J	AppJ			
											PIT	Y2			
											ST-C	RR		RJ-01	
	Valve Name		Drywell l	nst N2 Suction	on Heade	r Upstm Is	olation V	v					•		
1IN017	M-66-1	B3	2	A	1.5	GL	AO	A	0	С	FS-C	CS		CS-05	TP-03
											LT-J	AppJ			
											PIT	Y2			
				•							ST-C	CS		CS-05	
	Valve Name	•	DW Inst	N2 Regulate	d Hdr Dry	well Supp	ly Valve								
1IN018	M-66-1	B3	2	A/C	2	СК	SA	A	SYS	С	СС	СМ		RJ-04	CM09
											со	CM		RJ-04	CM09
							÷				LT-J	AppJ			
	Valve Name	•	DW Inst	N2 Regulate	d Hdr Dry	well Isol C	heck Val	ve							
1IN031	M-66-1	85	2	· A	0.75	GL	SO	A	0	С	FS-C	CS		CS-19	TP-03
											LT-J	AppJ			
											PIT	Y2			
											ST-C	CS		CS-19	
	Valve Name	1	Drywell I	nst N2 TIP Ir	ndexer Pu	rge Valve		•							
1IN043	M-66-7	D5	3	С	1	CK	SA	A	SYS	с	CC	RR		RJ-04	
											со	RR		RJ-04	TP-01
	Valve Name	÷	B ADS A	ccum Unreg	ulated N2	Header D	w Supply	v CV							
1IN044	M-66-7	D8	3	С	1	СК	SA	A	SYS	С	CC	RR		RJ-04	
											со	RR		RJ-04	- TP-01
	Valve Name	•	A ADS A	ccum Unreg	ulated N2	Header D	w Supply	CV							
1IN045	M-66-7	E7	3	С	1 x 2	RV	SA	A	С	O/C	RVT	Y10			
	Valve Name	•	A N2 Ma	nifold Relief	Valve										
1IN046	M-66-7	E6	3	С	1 x 2	RV	SA	A	С	O/C	RVT	Y10			
	Valve Name	1	B N2 Ma	nifold Relief	Valve										

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### Instrument Nitrogen

Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1IN074	M-66-1	E5	2	A	1.5	GL	AO	A	0	С	FS-C	CS		CS-04	TP-03
											LT-J	AppJ			
											PIT	Y2			
											ST-C	CS		CS-04	•
	Valve Name	[	)W Inst I	12 Dryer Pur	ge Down	stream Ou	tlet Valve	•							
1IN075	M-66-1	E5	2	А	1.5	GL	AO	Α	0	С	FS-C	CS		CS-04	TP-03
											LT-J	AppJ			
											PIT	Y2			
											ST-C	CS		CS-04	
	Valve Name	C	)W Inst I	12 Dryer Pu	rge Upstre	am Outle	Valve					•			
1IN100	M-66-7	C7	2	В	1	GL	SO	A	0	O/C	FS-O	CS		CS-06	TP-03
											PIT	Y2			
						-					ST-C	CS		CS-06	TP-11
											ST-O	CS		CS-06	TP-11
	Valve Name	- A	ADS A	ccum Unreg	ulated N2	Header D	W Isol Va	alve							
1IN101	M-66-7	C6	2	В	1	GL	SO	A	0	O/C	FS-O	CS		CS-06	TP-03
											PIT	Y2			
											ST-C	CS		CS-06	TP-11
					•						ST-O	cs		CS-06	TP-11
	Valve Name	E	B ADS A	ccum Unreg	ulated N2	Header D	W Isol Va	atve							
2B21-F024A	M-66-4	F4	3	С	0.75	СК	SA	A	SYS	С	CC	CS	-	CS-16	
											со	CS			TP-01
	Valve Name	. /	A Inbd M	SIV Accum I	nlet Chec	k Valve									
2B21-F024B	M-66-4	F7	3	С	0.75	СК	SA	A	SYS	С	· CC	CS		CS-16	
											со	CS			TP-01
	Valve Name	E	3 Inbd M	SIV Accum I	nlet Chec	k Valve									
2B21-F024C	M-66-4	F1	3	С	0.75	СК	SA	A	SYS	С	CC	CS		CS-16	
											со	ĊŚ		,	TP-01
	Valve Name	. (	C Inbd M	SIV Accum I	nlet Chec	k Valve									
2B21-F024D	M-66-4	F3	3	С	0.75	СК	SA	Å	SYS	с	CC	CS	<b></b>	CS-16	
											со	CS			TP-01
	Valve Name	. [	) Inbd M	SIV Accum I	nlet Chec	k Valve									
2B21-F036C	M-66-8	E2	3	с	0.5	СК	SA	A	SYS	С	СС	CS		CS-18	
											со	CS		CS-18	TP-01
	Valve Name	5	SRV Acc	umulator 2B	21-A004C	Inlet Che	ck Valve								
2B21-F036D	M-66-8	E7	3	- C	0.5	CK	SA	A	SYS	С	cc	CS	<del></del>	CS-18	
			-	-						2	CO	CS		CS-18	TP-01
	Valve Name	, c	RV Acc	umulator 2R	21-40040	Inlet Che	ck Valve				-•				
	Taive Maille	`						·····		·····					

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### LaSalle Station IST PROGRAM PLAN

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Valve EPN	P&iD	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2B21-F036E	M-66-4	D6	3	C	0.5	СК	SA	A	SYS	С	CC	CS		CS-18	75.64
	Valve Name		SRV Acc	umulator 2B	21-A004E	Inlet Che	ck Valve				co	CS		CS-18	19-01
2B21-F036F	M-66-4	D2	3	С	0.5	СК	SA	A	SYS	С	CC	CS		CS-18	
											со	CS		CS-18	TP-01
	Valve Name		SRV Acc	umulator 2B	21-A004F	Inlet Che	ck Valve								
2B21-F036H	M-66-8	C2	3	C ·	0.5	СК	SA	Α	SYS	С	CC	CS		CS-18	
											CO	CS		CS-18	TP-01
	Valve Name		SRV Acc	umulator 2B	21-A004H	I Inlet Che	ck Valve								
2B21-F036K	M-66-4	D3	3	С	0.5	СК	SA	A	SYS	С	CC	CS	`	CS-18	
											co	CS		CS-18	TP-01
	Valve Name	)	SRV Acc	umulator 2B	21-A004k	Inlet Che	ck Valve					<u> </u>			
2B21-F036L	M-66-4	D5	3	С	0.5	СК	SA	Α	SYS	С	cc	CS		CS-18	
											со	CS		CS-18	TP-01
	Valve Name	)	SRV Acc	umulator 2B	21-A004L	Inlet Che	ck Valve		·····						
2B21-F036M	M-66-4	D4	3	С	0.5	CK	SA	A	SYS	С	CC	CS		CS-18	
											CO ·	CS		CS-18	TP-01
	Valve Name	)	SRV Acc	umulator 2B	21-A004N	Inlet Che	eck Valve								
2B21-F036P	M-66-8	E8	3	С	0.5	CK	SA	A	SYS	С	CC	CS		CS-18	
					~				×		CO	CS		CS-18	TP-01
	Valve Name			cumulator 28	21-AU04F				01/0						
2B21-F036R	M-66-4	D7	3	C	0.5	CK	SA	. <b>A</b>	515	Ç	00	US 00		00.40	TD of
											00	CS	-	CS-18	19-01
	Valve Name	) 		cumulator 2B	21-A004F		CK Valve		01/0					00.10	
2B21-F036S	M-66-4	D4	3	C	0.5	CK	SA	А	515	C	00	00		00.40	<b>TD</b> 04
											CO	CS		CS-18	19-01
	Valve Name		SHV Acc	umulator 2B	21-A0045	inlet Che	CK Valve	<b>A</b> .	01/0					00.40	
2B21-F036U	M-66-8	5 E4	3	С	0.5	CK	SA	A'	SYS	C	00	CS CS		CS-18	<b>TD</b> 64
		·			<b>.</b>						co	CS		CS-18	(P-01
<u></u>	Valve Name	)	SRV Acc	umulator 2B	21-A004L	Inlet Che	eck Valve								
2B21-F036V	M-66-4	D1	3	С	0.5	СК	SA	A	SYS	С	CC	CS		CS-18	
											CO	CS		CS-18	TP-01
	Valve Name	) 	SRV Acc	cumulator 2B	21-A004\	/ Inlet Che	eck Valve								
2B21-F040C	M-66-8	3 C3	3	С	0.5	СК	SA	A	SYS	O/C	CC	CS		CS-14	
											со	CS		CS-14	

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Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2B21-F040D	M-66-8	C7	3	С	0.5	СК	SA	A	SYS	O/C	сс	CS		CS-14	
	Value Nome	ć		Accumulate		0020 (nlo	Chock \	(alvo			CO	CS	· .	CS-14	
B21-E040E	Valve Name	B6	3		0.5		SA SA			0/0	00	CS		CS-14	
D21-F040E	W-00-4	50	3	C	0.5	UN	04	А	310	0,0	00 CO	CS		CS-14	
	Valve Name	S	SRV ADS	S Accumulate	or 2B21-A	003E Inle	t Check V	/alve			00	00		00-14	
B21-F040R	M-66-4	B7	3	С	0.5	СК	SA	A	SYS	O/C	cc	CS		CS-14	
											со	cs		CS-14	
	Valve Name	5	SRV ADS	S Accumulate	or 2B21-A	003R Inle	t Check \	/alve	•						
2B21-F040S	M-66-4	B4	3	c	0.5	СК	SA	A	SYS	O/C	CC	CS		CS-14	
											со	CS		CS-14	
	Valve Name	5	SRV ADS	6 Accumulate	or 2B21-A	003S Inle	t Check V	/alve							
2B21-F040U	M-66-8	C5	3	Ċ	0.5	СК	ŞA	A	SYS	O/C	CC	CS		CS-14	
											со	CS		CS-14	
	Valve Name	Ş	SRV ADS	6 Accumulat	or 2B21-A	.003U Inle	t Check \	/alve							
2B21-F040V	M-66-4	B1	3	С	0.5	СК	SA	A	SYS	O/C	CC	CS		CS-14	
											CO	CS		CS-14	
	Valve Name	\$	SRV ADS	S Accumulate	or 2B21-A	003V Inle	t Check \	/alve							
21N001A	M-66-3	F6	2	A	2	GL	AO	Α	0	С	FS-C	RR		RJ-01	TP-03
											LT-J	АррЈ			
											PIT	· Y2			
											ST-C	RR		RJ-01	
	Valve Name	(	Drywell II	nst N2 Suctio	on Header	Upstm Is	olation VI	v							
2IN001B	M-66-3	F7	2	Α	2	GL	AO	Α	0	С	FS-C	RR		RJ-01	TP-03
											LT-J	AppJ			
											PIT	Y2			
											ST-C	RR		RJ-01	
	Valve Name		Drywell II	nst N2 Suction	on Header	Upstm Is	olation VI	v			<u>.                                    </u>		· .		
2IN017	M-66-3	B3	2	A	1.5	GL	AO	Α	0	С	FS-C	CS		CS-05	TP-03
				٠							LT-J	AppJ			
											PIT	Y2			
											ST-C	CS		CS-05	
	Valve Name	[	DW Inst I	N2 Regulate	d Hdr Dry	well Supp	y Valve								
2IN018	M-66-3	B3	2	A/C	2	СК	SA	A	SYS	С	CC	СМ		RJ-04	CM09
											CO	СМ		RJ-04	CM09
											LT-J	AppJ			
	Valve Name	(	DW Inst I	V2 Regulate	d Hdr Dry	well Isol C	heck Val	ve							

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### Instrument Nitrogen

Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2IN031	M-66-3	B5	2	А	0.75	GL	SO	A	0	С	FS-C	CS		CS-19	TP-03
											LT-J	AppJ			
											PIT	Y2		· ·	
											ST-C	CS		CS-19	
	Valve Name		Drywell li	nst N2 TIP Ir	idexer Pu	rge Valve									
2IN043	M-66-7	D1	3	С	1	СК	SA	Α	SYS	С	СС	RR		RJ-04	
											CO	RR		RJ-04	TP-01
	Valve Name		B ÁDS A	ccum Unreg	ulated N2	Header D	w Supply	/ CV							
21N044	M-66-7	D4	3	С	1	СК	SA	A	SYS	С	CC	RR		RJ-04	
											со	RR		RJ-04	TP-01
	Valve Name	1	A ADS A	ccum Unreg	ulated N2	Header D	w Suppl	/ CV							
2IN045	M-66-7	E3	3	С	1 x 2	RV	SA	A	С	O/C	RVT	Y10			
	Valve Name	!	A N2 Ma	nifold Relief	Valve										
2IN046	M-66-7	E2	3	С	1 x 2	RV	SA	A	С	O/C	RVT	Y10			
	Valve Name		B N2 Ma	nifold Relief	Valve										
2IN074	M-66-3	E5	2	. A	1.5	GL	AO	A	0	С	FS-C	CS		CS-04	TP-03
	·										LT-J	AppJ			
											PIT	Y2			
											ST-C	CS		CS-04	
	Valve Name	•	DW Inst	N2 Dryer Pu	rge Down	istream OL	itlet Valv	e							
2IN075	M-66-3	E5	2	A	1.5	GL	AO	A	0	С	FS-C	CS	-	CS-04	TP-03
											LT-J	AppJ			
											PIT	Y2			
											ST-C	CS		CS-04	
	Valve Name	•	DW Inst	N2 Dryer Pu	rge Upstr	eam Outle	t Valve								
2IN100	M-66-7	C3	2	В	1	GL	SO	A	0	O/C	FS-O	CS	•	CS-06	TP-03
						, .					PIT	Y2			
											ST-C	CS		CS-06	TP-11
											ST-O	CS		CS-06	TP-11
	Valve Name		A ADS A	ccum Unreg	ulated N2	Header D	W Isol V	alve							
2IN101	M-66-7	C2	2	В	1	GL	SO	A	0	O/C	FS-O	CS		· CS-06	TP-03
					•		•				ΡΙΤ	Y2			
											ST-C	CS		CS-06	TP-11
											ST-O	CS		CS-06	TP-11
	Valve Name	•	B ADS A	ccum Unreg	ulated N2	Header D	W Isol V	alve							

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### Low Pressure Core Spray

Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
E21-F001	M-94	B6	2	В	24	GA	MO	A	0	O/C	ET	Y2	RV-02		
											OMN-C	JOG	RV-02		
											OMN-O	JOG	RV-02		
	Valve Name	Ł	PCS Pu	imp Suction	Isolation \	/alve						• •			
E21-F003	M-94	C2	2	С	16	СК	SA	A	SYS	O/C	CC	M3			
											со	МЗ			
	Valve Name	ι	PCS Pu	Imp Dsch Ch	ieck Valve										
1E21-F005	M-94	D6	1	A	12	GA	MO	A	С	O/C	ET	Y2	RV-02		
											LT-Ĵ	AppJ			
								•			LT-S	Y2			
											OMN-C	JOG	RV-02		
											OMN-O	JOG	RV-02		
	Valve Name	L	.PCS Inj	ection Isolati	on Valve					a.					
1E21-F006	M-94	C6	1	A/C	12	CK	SA	Α	С	0/C	СС	CS		CS-17	
											со	CS		CS-17	
								•			LT-S	Y2			
	Valve Name	ι	.PCS Inj	ection Checl	< Valve										
1E21-F011	M-94	C3	2	В	4	GA	МО	A	0	O/C	ET	Y2	RV-02		
											OMN-C	JOG	RV-02		
											OMN-O	JOG	RV-02		
	Valve Name	į	PCS PL	Imp Minimun	n Flow Iso	lation Valv	/e								
1E21-F012	M-94	C5	2	В	14	GL	MO	A	С	С	ET	Y2	RV-02	<u> </u>	
•											OMN-C	JOG	RV-02		
	Valve Name	l	PCS Pu	mp Full Flov	v Test Isol	ation Valv	e								
1E21-F018	M-94	D5	2	С	3 x 4	RV	SA	A	С	O/C	RVT	Y10			
	Valve Name	L	PCS Pu	Imp Dsch Re	lief Valve										
1E21-F031	M-94	B4	2	С	1 x 2	RV	SA	A	С	-0/C	RVT.	Y10	······································		
	Valve Name	L	PCS Pu	Imp Suct Re	lief Valve										
1E21-F033	M-94	C3	2	С	0.75	СК	SA	Α	SYS	O/C	CC	M3			TP-07
											CO	MЗ			TP-07
	Valve Name	l	PCS W	ater Leg Pun	np Dsch C	heck Valv	e								
1E21-F051	M-94	· C7	1	В	12	GA	М	Р	LO	0	PIT	Y2			
	Valve Name	ι	PCS Inj	ection Hdr M	lanual Sto	p Valve									
1E21-F304	M-2094-	1 B3	2	С	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
											со	OP			TP-05, TP-
															01
					_						PIT	Y2			
	Valve Name	l	PCS/RH	HR Integrity E	xcess Flo	w Check	Valve								

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### Low Pressure Core Spray

Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Vaive Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2E21-F001	M-140	B6	2	В	24	GA	МО	A	0	O/C	ET	Y2	RV-02		
											OMN-C	JOG	RV-02		
											OMN-O	JOG	RV-02		
	Valve Name	l	PCS PL	Imp Suction I	solation \	/alve									
2E21-F003	M-140	D2	2	С	16	СК	SA	A	SYS	O/C	CC	M3			
											CO	МЗ			•
	Valve Name	I	LPCS Pi	imp Dsch Ch	eck Valve	:									
2E21-F005	M-140	D6	1	A	12	GA	MO	A	С	O/C	ET	Y2	RV-02		
											LT-J	AppJ			
											LT-S	Y2			
											OMN-C	JOG	RV-02	•	
											OMN-O	JOG	RV-02		
	Valve Name	I	LPCS Inj	ection Isolati	on Valve			a.							
2E21-F006	M-140	D6	1	A/C	12	СК	SA	Α	С	O/C	CC	CS		CS-17	
				•							CO	CS		CS-17	
											LT-S	Y2			
	Valve Name		LPCS Inj	ection Check	Valve							_			
2E21-F011	M-140	C3	2	В	4	GA	МО	A	0	O/C	ET	Y2	RV-02		
											OMN-C	JOG	RV-02		
											OMN-O	JOG	RV-02		
2E21-F003 2E21-F005 2E21-F006 2E21-F011 2E21-F012 2E21-F012 2E21-F018 2E21-F031 2E21-F033 2E21-F033 2E21-F033	Valve Name		LPCS Pi	Imp Minimun	n Flow Isc	lation Val	/e								
2E21-F012	M-140	C5	2	В	14	GL	MO	A	С	С	ET	Y2	RV-02		
						,					OMN-C	JOG	RV-02		
	Valve Name	· · · · ·	LPCS PL	Imp Full Flow	Test Iso	ation Valv	e								
2E21-F018	M-140	E5	2	С	3 x 4	RV	SA	Α	С	O/C	RVT	Y10			
<u></u>	Valve Name		LPCS Pi	Imp Dsch Re	lief Valve										
2E21-F031	M-140	- C4	2	С	1 x 2	RV	SA	Α	С	O/C	RVT	Y10			
	Valve Name		LPCS Pi	Imp Suct Rel	ief Valve										
2E21-F033	M-140	C3	2	С	0.75	CK	SA	A	SYS	O/C	CC	MЗ			TP-07
											co	M3			TP-07
	Valve Name		LPCS W	ater Leg Pun	np Dsch C	Check Valv	e								
2E21-F051	M-140	D7	1	В	12	GA	M	Р	LO	0	PIT	Y2			
	Valve Name		LPCS In	ection Hdr M	anual Sto	p Valve									
2E21-F304	M-2140-	1 B3	2	С	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
											со	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name		LPCS/RI	HR Integrity E	Excess Flo	w Check	Valve								

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#### Main Steam

Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1B21-F013C	M-55-1	E2	1	С	6	RV	AO	A	С	O/C	RVT	Y5	RV-01		
	Valve Name	(	C Main S	iteam Line S	afety Reli	ef Valve w	/ADS				_				
1B21-F013D	M-55-1	B2	1	С	6	RV	AO	А	С	O/C	RVT	Y5	RV-01		
	Valve Name	E	3 Main S	team Line S	afety Relie	ef Valve w	/ADS								
1B21-F013E	M-55-1	E3	1	С	6	RV	AO	A	С	O/C	RVT	¥5	RV-01		
	Valve Name	(	C Main S	iteam Line S	afety Reli	ef Valve w	/ADS								
1B21-F013F	M-55-1	B3	1	С	6	RV	AO	A	С	O/C	RVT	Y5	RV-01		
	Valve Name	E	3 Main S	team Line Si	afety Relie	ef Valve									
1B21-F013H	M-55-1	D4	. 1	С	6	RV	AO	A	С	O/C	RVT	Y5	RV-01		
	Valve Name	I	) Main S	iteam Line S	afety Reli	ef Valve									
1B21-F013K	M-55-1	B4	1	С	6	RV	AO	A	С	O/C	RVT	Y5	RV-01	·····	
	Vaive Name	l	3 Main S	team Line S	afety Relie	ef Valve									
1B21-F013L	M-55-1	E6	1	С	6	RV	AO	A	С	O/C	RVT	Y5÷	RV-01		
	Valve Name	(	C Main S	Iteam Line S	afety Reli	ef Valve									
1B21-F013M	M-55-1	B7	1	C	6	RV	AO	A	С	O/C	RVT	Y5	RV-01		
	Valve Name	· 1	3 Main S	team Line S	afety Relie	ef Valve									
1B21-F013P	M-55-1	C6	1	С	6	RV	AO	A	С	O/C	RVT	Y5	RV-01		· · · · · · · · · · · · · · · · · · ·
	Valve Name		A Main S	iteam Line Si	afety Relie	ef Valve									
1B21-F013R	M-55-1	E5	1	С	6	RV	AO	A	С	O/C	RVT	Y5	RV-01		
	Valve Name	. (	C Main S	Steam Line S	afety Reli	ef Valve w	ADS								
1B21-F013S	M-55-1	B6	1	С	6	RV	AO	A	С	O/C	RVT	Y5	RV-01		
	Valve Name	1	B Main S	iteam Line S	afety Reli	ef Valve w	/ADS								
1B21-F013C	M-55-1	D7	1	С	6	RV	AO	A	С	O/C	RVT	Y5	RV-01		
	Valve Name	· 1	D Main S	Steam Line S	afety Reli	ef Valve w	ADS								
1B21-F013V	M-55-1	C7	1	С	6	RV	AO	A	С	O/C	RVT	¥5	RV-01		
	Valve Name		A Main S	iteam Line S	afety Reli	ef Valve w	/ADS								
1B21-F016	M-55-7	B7	1	A	3	GA	мо	A	0	С	ET	Y2	RV-02		
											LT-J	AppJ			
											OMN-C	JOG	RV-02		
	Valve Name	.	Inbd Mai	n Steam Line	Drain He	eader Inbo	Isol Valv	'e		•					
1B21-F019	M-55-7	B6	1	A	3	GA	МО	A	0	С	ET	Y2	RV-02		
					·						LT-J	AppJ			
											OMN-C	JOG	-RV-02		
	Vaive Name		nbd Mai	n Steam Line	e Drain He	ader Otbo	l Isol Val	ve							
1B21-F020	M-55-7	B5	NS	N/A	3	GL	MO	N/A	С	N/A	PIT	Y2	<u></u>		
					2				-		ST-C	BR		BJ-05	
											ST-O	BR		BJ-05	
	Valve Name	. 1	Main Sto	am Fouslizin	n Heador	I Inetrm C	ton Value	2							
	Valve Nalifie		viaiti 318	ani Lyudiizii	y neduel	opannia	top valve	, 							<u> </u>

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						Ma	ain Stea	am							
Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1B21-F021	M-55-7	A5	NS	N/A	3	GL	мо	N/A	С	N/A	ΡΙΤ	Y2			
											ST-C	RR		RJ-05	
											ST-0	RR		RJ-05	
	Valve Name	•	Inbd Mai	n Steam Line	Header	Orifice By	oass Valv	re							
1B21-F022A	M-55-2	C6	1	A	26	GL	AO	Α.	0	С	СР	MЗ			
											FS-C	CS		CS-03	TP-03
											LT-J	AppJ			
											PIT	Y2			
											ST-C	CS		CS-03	
	Valve Name		A Main S	iteam Line In	board Isc	lation Valv	/e								
1B21-F022B	M-55-2	B6	1	A	26	GL	AO	A	0	С	СР	MЗ			
											FS-C	CS		CS-03	TP-03
							•				LT-J	AppJ			
											PIT	Y2			
											ST-C	CS		CS-03	
	Valve Name	)	B Main S	steam Line In	board Isc	lation Val	ve								
1B21-F022C	M-55-2	F6	1	A	- 26	GL	AO	A	0	С	CP	M3			
											FS-C	CS	•	CS-03	TP-03
								·			LT-J	AppJ			
										/	PIT	Y2			
											ST-C	CS		CS-03	
	Valve Name		C Main S	Steam Line Ir	board isc	lation Val	ve								
1B21-F022D	M-55-2	2 D6	1	A	26	GL	AO	A	0	С	СР	M3			
											FS-C	CS		CS-03	TP-03
											LT-J	AppJ			
											PIT	Y2			
											ST-C	CS		CS-03	
	Valve Name	)	D Main S	Steam Line In	board isc	plation Val	ve	-							
1B21-F028A	M-55-2	2 C4	. 1	A	26	GL	AO	A	0	С	СР	M3			
											FS-C	cs		CS-03	TP-03
											LT-J	AppJ			
											PIT	Y2			
											ST-C	CS		CS-03	÷
	Valve Name	•	A Main S	Steam Line O	utboard I	solation Va	alve								

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<u>.</u>
# LaSalle Station IST PROGRAM PLAN

Main Steam

/alve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Romt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1B21-F028B	M-55-2	B4	1	Α	26	GL	AO	À.	0	С	СР	M3			
									·		FS-C	· CS		CS-03	TP-03
											LT-J	АррЈ			
											PIT	Y2			
											ST-C	CS		CS-03	
	Valve Name		B Main S	iteam Line O	utboard Is	olation Va	alve								
B21-F028C	M-55-2	. F4	1	Α	26	GL	AO	Α	0	С	СР	M3 -			
											FS-C	CS		CS-03	TP-03
											LT-J	AppJ			
											PIT	Y2			
											ST-C	CS		CS-03	
	Valve Name		C Main S	Steam Line O	utboard is	olation Va	alve								
B21-F028D	M-55-2	D4	1	A	26	GL	AO	A	0	С	СР	M3			
											FS-C	CS		CS-03	TP-03
										,	LT-J	АррЈ			
											PIT	Y2			
											ST-C	CS		CS-03	
	Valve Name		D Main S	Steam Line O	utboard is	solation V	alve								
1B21-F037C1	M-92-1	C4	3	С	6	СК	SA	А	SYS	O/C	CC	CS		CS-08	
											со	CS		CS-08	
	Valve Name		C SRV D	owncomer V	acuum Bl	kr Valve									
1B21-F037C2	M-92-1	C4	3	С	6	СК	SA	Α	SYS	O/C	CC	CS		CS-08	
											со	CS		CS-08	
	Valve Name		C SRV D	owncomer V	acuum Bl	kr Valve									
1B21-F037D1	M-92-1	C4	3	С	6	CK	SA	A	SYS	O/C	CC	CS		CS-08	
											со	CS		CS-08	
	Valve Name	!	D SRV D	owncomer V	acuum Bl	kr Valve									
1B21-F037D2	M-92-1	C4	3	С	6	CK	SA	A ·	SYS	O/C	CC	CS		CS-08	
											со	CS		CS-08	
	Valve Name		D SRV D	Downcomer V	acuum Bl	kr Valve									
1B21-F037E1	M-92-1	C4	3	С	6	СК	SA	A	SYS	O/C	CC ·	CS		CS-08	
											со	CS		CS-08	
	Valve Name		E SRV D	owncomer V	acuum Bl	dr Valve									
1B21-F037E2	M-92-1	C4	3	С	6	СК	SA	A	SYS	O/C	СС	CS		CS-08	
											со	CS		CS-08	
	Valve Name		E SRV D	owncomer V	acuum Bl	or Valve									

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Main Steam

Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1B21-F037F1	M-92-1	· C4	3	С	6	СК	SA	A	SYS	O/C	CC	CS		CS-08	
											со	CS		CS-08	
	Valve Name		F SRV D	owncomer V	acuum Bl	r Valve								·	
1B21-F037F2	M-92-1	C4	3	C .	6	СК	SA	А	SYS	O/C	CC	CS		CS-08	
											со	CS		CS-08	
	Valve Name		F SRV D	owncomer V	acuum Bl	r Valve									
1B21-F037H1	M-92-1	C6	3	С	6	СК	SA	A	SYS	O/C	CC	CS		CS-08	
											со	CS		CS-08	
	Valve Name	! 	H SRV D	owncomer V	acuum B	kr Valve	•							·····	
1B21-F037H2	M-92-1	C6	3	С	6	CK	SA	A	SYS	O/C	CC	CS		CS-08	
											co	CS		CS-08	
	Valve Name	)	HSRVD		acuum B	kr Valve									
1B21-F037K1	M-92-1	C5	. 3	С	6	СК	SA	А	SYS	O/C	CC	CS		CS-08	
					· ,						CO .	CS		CS-08	
	Valve Name			owncomer v	acuum B	kr valve			01/0					00.00	
1B21-F03/K2	M-92-1	65	3	C	b	UK	SA	А	515	0/0	CC CO	CS CS		05-08	
	Valve Name		K 69\/ F	lowncomer V	acuum B	kr Valva					00	65		05-06	
1B21-E037L1	M-02-1	 	3		6		SA	Δ	975	0/0	22			CS-08	·····
	W-52-1	05	0	Ū	Ū	U.C.	94	~	015	0/0	00	CS CS		CS-08	
	Valve Name			owncomer V	acuum Bl	or Valve					00	00		00 00	
1B21-F037L2	M-92-1	C5	3	C	6	СК	SA	A	SYS	O/C	СС	CS		CS-08	
											со	CS		CS-08	
	Valve Name	1	L SRV D	owncomer V	acuum Bl	kr Valve	·		•				• •		
1B21-F037M1	M-92-1	C6	3	С	6	СК	SA	A	SYS	O/C	CC	CS		CS-08	
											со	CS		CS-08	
	Valve Name	÷.	M SRV [	) owncomer \	/acuum B	kr Valve									
1B21-F037M2	M-92-1	C6	3	С	6	CK	ŠA	A	SYS	O/C	CC	CS		CS-08	
											со	CS		CS-08	
	Valve Name	•	M SRV [	) owncomer \	/acuum B	kr Valve									
1B21-F037P1	M-92-1	C5	3	С	6	СК	SA	A	SYS	O/C	СС	CS		CS-08	
											со	CS		CS-08	
	Valve Name	•	P SRV C	owncomer V	'acuum B	kr Valve								·	
1B21-F037P2	M-92-1	C5	3	С	6	СК	SA	A	SYS	O/C	CC	CS		CS-08	
											со	CS		CS-08	
	Valve Name	•	P SRV D	owncomer V	acuum B	kr Valve									

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Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1B21-F037R1	M-92-1	C5	3	С	6	СК	SA	A	SYS	O/C	СС	CS		CS-08	
											со	CS		CS-08	
	Valve Name	F	R SRV D	owncomer V	acuum Bl	kr Valve					ė				
1B21-F037R2	M-92-1	C5	3	С	6	СК	SA	А	SYS	0/C	CC	CS		CS-08	
											со	CS		CS-08	
	Valve Name	F	SRV D	owncomer V	acuum Bl	kr Valve									
1B21-F037S1	M-92-1	C5	3	С	6	СК	SA	A	SYS	O/C	cc	CS		CS-08	
	Mahar Maria				DI						CO	CS		CS-08	
1001 500700	Valve Name		S SHV D	owncomer v	acuum Bi			•	01/0	0/0					
1B21-F03752	M-92-1	05	3	U	o	CK	5A	A	515	0/0	00	CS CS		CS-08	
	Valve Name	c	s sev n	owncomer V	acuum Bl	(r Valva					00	63		03-08	
1B21-F037U1	M-92-1	C6	3	C	6		SA	Α	SYS	0/C		CS		CS-08	
			-		-		•	,,	0,0	0.0	co	CS		CS-08	
	Valve Name	. L	J SRV D	owncomer V	acuum Bl	kr Valve									
1B21-F037U2	M-92-1	C6	3	С	6	СК	SA	A	SYS	O/C	СС	CS		CS-08	
											со	CS		CS-08	
	Valve Name	i l	U SRV D	owncomer V	acuum Bl	kr Valve									
1B21-F037V1	M-92-1	C5	3	С	6	СК	SA	A	SYS	O/C	CC	CS		CS-08	• • • • • • • • • • • • • • • • • • • •
		•		-							со	CS		CS-08	
	Valve Name	\	V SRV D	owncomer V	acuum Bl	or Valve	····								
1B21-F037V2	M-92-1	C5	3	С	6	СК	SA	A	SYS	O/C	CC	CS		CS-08	
											СО	CS		CS-08	
	Valve Name		V SRV D	owncomer V	acuum Bk	r Valve									
1B21-F067A	M-55-7	E6	1	A	1.5	ĢA	мо	A	. 0	C	. EI	¥2	HV-02		
												Аррл			
	Valve Name		A Othd M	ISIV Below S	eat Òrain	Valve					OMIN-C	100	NV-02		
1821-F067B	M-55-7	E5	1	A	1.5	GA	MO	A		С	FT	¥2	BV-02		
				,,		•				°.	LT-J	AppJ			
											OMN-C	JOG	RV-02		
	Valve Name	E	3 Otbd N	ISIV Below S	eat Drain	Valve			·						
1B21-F067C	M-55-7	E7	1	A	1.5	GA	МО	A	0	С	ET	¥2	RV-02		
											LT-J	AppJ			
											OMN-C	JOG	RV-02		
	Valve Name	(	C Otbd M	ISIV Below S	eat Drain	Valve									

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Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1B21-F067D	M-55-7	E6	1	A	1.5	GA	MO	A	0	С	ET	Y2	RV-02		
											LT-J	AppJ			
											OMN-C	JOG	RV-02		
	Valve Name		O Otbd N	ISIV Below S	Seat Drain	Valve									
1B21-F070	M-55-7	B2	NS	N/A	3	GL	MO	N/A	С	N/A	PIT	Y2			· ·
											ST-C	RR		RJ-05	
	Volve Neme	1	Main Cto	omline Droin	Lingtr O	ifica Duma	en Volue			•	ST-O	RR		RJ-05	
1001 5071	valve Name		viain Ste	amine Drain		псе вура	ss valve	N1/A		N2/A					
1021-FU/1	M-22-7	62	N9	N/A	I	GL	MO	N/A	0	IN/A	· PII	12			
				•							ST-C	HH		HJ-05	
	Valve Name		Main Sta	amline Drain	Linstr Or	ifico Inlat )	Jalva				51-0	нн		HJ-05	
1B21-F072	M-55-7	 C2	NS	N/A	3	GL	MO	N/A	С	N/A	PIT	¥2			······
		-			-				Ū		ST-C	BB		B.I-05	
											ST-O	BB		R.I-05	
	Valve Name	I	Main Ste	amline Drain	Dwnst. C	rifice Bypa	ass Valve	)			0.0			110 00	
1B21-F073	M-55-7	D2	NS	N/A	1	GL	МО	N/A	0	N/A	PIT	Y2			
											ST-C	RR		RJ-05	
											ST-O	RR		RJ-05	
	Valve Name	I	Main Ste	amline Drain	Dwnst. C	rifice Inlet	Valve								
1B21-F325A	M-2055-4	4 F5	2	С	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
											со	OP			TP-05, TP
											PIT	Y2			. 01
	Valve Name	,	A MS Lin	e Hi Flow D/	P Inst 1E	31-N008A/	′N008B ⊦	li EFV							
1B21-F325B	M-2055-	5 F5	2	С	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	• TP-10
											со	OP		· .	TP-05, TP
															01
	Volue Name				D last 1 C						PIT	Y2			
1801 52050	Valve Name		B MS Hi	Line Flow D/	P Inst 1E	31-N009A/	N009B H				PIT	Y2		B 1 07	
1B21-F325C	Valve Name M-2055-6	3 F5	B MS Hi	Line Flow D/	P Inst 1E3	31-N009A/ XFC	N009B H	li EFV A	0	C	PIT CC	Y2 RR		RJ-07	TP-10
1B21-F325C	Valve Name M-2055-6	3 F5	B MS Hi	Line Flow D/ C	P Inst 1E	31-N009A/ XFC	N009B H	li EFV A	C	C .	PIT CC CO	Y2 RR OP		RJ-07	TP-10 TP-05, TP 01
1B21-F325C	Valve Name M-2055-6	5 F5	B MS Hi 2	Line Flow D/ C	P Inst 1E3	31-N009A/ XFC	NOO9B H	li EFV A	0	С	PIT CC CO PIT	Y2 RR OP Y2		RJ-07	TP-10 TP-05, TP 01
1B21-F325C	Valve Name M-2055-6 Valve Name	5 F5	B MS Hi 2 C MS Lin	Line Flow D/ C	P Inst 1E3 0.75 P Sw 1E3	31-N009A/ XFC	N009B H SA N010B H	li EFV A li EFV	C	C	PIT CC CO PIT	Y2 RR OP Y2		RJ-07	TP-10 TP-05, TP 01
1B21-F325C 1B21-F325D	Valve Name M-2055-0 Valve Name M-2055-	5 F5 7 F5	B MS Hi 2 C MS Lin 2	Line Flow D/ C ie <u>Hi Flow D/</u> C	P Inst 1E3 0.75 P Sw 1E3 0.75	31-N009A/ XFC 31-N010A/ XFC	NOO9B H SA NO10B H SA	li EFV A li EFV A	0	C C	PIT CC CO PIT CC	Y2 RR OP Y2 RR		RJ-07 RJ-07	TP-10 TP-05, TP 01 TP-10
1B21-F325C 1B21-F325D	Valve Name M-2055-6 Valve Name M-2055-	5 F5 7 F5	B MS Hi 2 C MS Lin 2	Line Flow D/ C ie Hi Flow D/ C	P Inst 1E3 0.75 P Sw 1E3 0.75	31-N009A/ XFC 31-N010A/ XFC	N009B F SA N010B H SA	li EFV A li EFV A	0	C C	PIT CC CO PIT CC CO	Y2 RR OP Y2 RR OP		RJ-07 RJ-07	TP-10 TP-05, TP 01 TP-10 TP-05, TP
1B21-F325C 1B21-F325D	Valve Name M-2055-0 Valve Name M-2055-	5 F5 7 F5	B MS Hi 2 C MS Lin 2	Line Flow D/ C ie Hi Flow D/ C	P Inst 1E3 0.75 P Sw 1E3 0.75	31-N009A/ XFC 11-N010A/ XFC	10009B F SA N010B H SA	li EFV A li EFV A	0	C C	PIT CC CO PIT CC CO PIT	Y2 RR OP Y2 RR OP Y2		RJ-07 RJ-07	TP-10 TP-05, TP 01 TP-10 TP-05, TP 01

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Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1B21-F326A	M-2055-4	E5	2	С	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
											со	OP			TP-05, TP- 01
·											PIT	Y2			
	Valve Name		A MS Lin	e Hi Flow D/	P Inst 1E	31-N008A	N008B L	o EFV							
1B21-F326B	M-2055-5	5 E5	2	С	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
											CO	OP			TP-05, TP- 01
•											PIT	Y2			
	Valve Name		B MS Hi	Line Flow D/	P Inst 1E	31-N009A	/N009B L	o EFV							
1B21-F326C	M-2055-6	6 E5	2	С	0.75	XFC	SA	Α	0	С	CC	RR		RJ-07	TP-10
											CO	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name	I	C MS Lir	he Hi Flow D	P Sw 1E	31-N010A/	N010B L	o EFV							
1B21-F326D	M-2055-	7 E5	2	С	0.75	XFC	SA	А	0	С	CC	RR		RJ-07	TP-10
											CO	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name		D MS Lir	ne Hi Flow D	P Sw 1E	31-N011A/	N011B L	o EFV							
1B21-F327A	M-2055-	4 D5	2	С	0.75	XFC	SA	Α	0	С	CC	RR		RJ-07	TP-10
										· .	со	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name		A MS Lir	e Hi Flow D/	P Sw 1E	31-N008D/	N008C L	o EFV							
1B21-F327B	M-2055-	5 D5	2	С	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
											CO	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name		B MS Lir	e Hi Flow D	P Sw 1E	31-N009D/	N009C L	o EFV							
1B21-F327C	M-2055-	6 D5	2	С	0.75	XFC	SA	Α	0	С	CC ·	RR		RJ-07	TP-10
											CO	OP			TP-05, TP- 01
	Valve Name		C MS Lir	ne Hi Flow D	/P Inst 1E	31-N010C	/N010D I	_o EFV			PIT	¥2			
1B21-F327D	M-2055-	7 C5	2	С	0.75	XFC	SA	A	0	С	СС	RR		RJ-07	TP-10
											со	OP			TP-05, TP- 01
											PIT	Y2			•
	Volue Nome		D MO L	na Hi Elaw D	/D Inet 1 E	31-NI011C									

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Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Ramt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1B21-F328A	M-2055-4	C5	2	С	0.75	XFC	SA	А	0	С	СС	RR		RJ-07	TP-10
											СО	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name		A MS Lin	e Hi Flow D/	P Sw 1E3	81-N008D	N008C H	i EFV							
1B21-F328B	M-2055-	5 C5	2	С	0.75	XFC	SA	A	0	С	CC	RA		RJ-07	TP-10
											со	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name		B MS Lir	ne Hi Flow D/	P Sw 1E3	31-N009D	N009C ⊢	i EFV							
1B21-F328C	M-2055-6	6 C5	2	С	0.75	XFC	SA	А	0	С	CC	RR		RJ-07	TP-10
											со	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name		C MS Lir	ne Hi Flow D	P Inst 1E	31-N010C	/N010D	Hi EFV							
1B21-F328D	M-2055-1	7 B5	2	С	0.75	XFC	SA	A	0	C	CC	RR		RJ-07	TP-10
						•					со	OP			TP-05, TP- 01
	Valve Name		DMSLir	1e Hi Flow D	/P inst 1F	31-N011C	/N011D I	HEEV			PIT	Y2			
1B21-F418A	M-55-3		NS	N/A	18	GA	MO	N/A	0	N/A	PIT	¥2			
			-				-		-		ST-C	RR		RJ-05	
											ST-O	RR		RJ-05	
	Vaive Name		Main Ste	am Aux Sup	ply Stop \	/alve									
1B21-F418B	M-55-3	B7	NS	N/A	18	GA	MO	N/A	0	N/A	PIT	¥2			
											ST-C	RR		RJ-05	
			,								ST-O	RR		RJ-05	
	Valve Name		Main Ste	am Aux Sup	ply Stop \	/alve									
2B21-F013C	M-116-1	E2	1	С	6	RV	AO	А	С	O/C	RVT	Y5	RV-01	-	
	Valve Name		C Main S	Steam Line S	afety Reli	ef Valve w	ADS								
2B21-F013D	M-116-1	B2	1	С	6	RV	AO	Α	С	O/C	RVT	Y5	RV-01		
	Valve Name		B Main S	Steam Line S	afety Reli	ef Valve w	ADS								
2B21-F013E	M-116-1	E3	1	С	6	RV	AO	A	С	O/C	RVT	¥5	RV-01		
	Valve Name		C Main S	Steam Line S	afety Reli	ef Valve w	ADS								
2B21-F013F	M-116-1	B3	1	С	6	RV	AO	А	c	O/C	RVT	¥5	RV-01		
	Valve Name	<u> </u>	B Main S	Steam Line S	afety Reli	ef Valve		•							
2B21-F013H	M-116-1	D5	1	С	6	RV	AO	A	С	O/C	RVT	Y5	RV-01	<b></b>	
	Valve Name		D Main S	Steam Line S	afety Reli	ef Valve			`						
2B21-F013K	M-116-1	B5	1	С	6	RV	AO	A	С	O/C	RVT	Y5	RV-01		
	Valve Name		B Main S	Steam Line S	afety Reli	ef Valve									

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Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2B21-F013L	M-116-1	Ē6	1	С	6	RV	AO	A	С	O/C	RVT	Y5	RV-01		****
	Vaive Name		C Main S	Steam Line S	afety Reli	ef Valve									
2B21-F013M	M-116-1	B7	1	C	6	RV	AO	A	С	O/C	RVT	Y5	RV-01	· · · · · · · · · · · · · · · · · · ·	
	Valve Name		B Main S	team Line Si	afety Reli	ef Valve				•					
2B21-F013P	M-116-1	C6	1	С	6	RV	AO	A	C .	O/C	RVT	¥5	RV-01		·
	Valve Name		A Main S	iteam Line Si	afety Reli	ef Valve									
2B21-F013R	M-116-1	E5	1	С	6	RV	AO	A	С	O/C	RVT	¥5	RV-01		
	Valve Name		C Main S	Steam Line S	afety Reli	ef Valve w	ADS								
2B21-F013S	M-116-1	B6	1	С	6	RV	AO	A	С	O/C	RVT	Y5	RV-01		•
	Valve Name		B Main S	iteam Line Si	afety Reli	ef Valve w	ADS								
2B21-F013U	M-116-1	D7	1	C	6	RV	AO	A	С	O/C	RVT	¥5	RV-01		
	Valve Name		D Main S	Steam Line S	afety Reli	ef Valve w	ADS/								
2B21-F013V	M-116-1	C7	1	С	6	RV	AO	A	С	O/C	RVT	¥5	RV-01		
	Valve Name		A Main S	iteam Line S	afety Reli	ef Valve w	ADS								
2B21-F016	M-116-7	' B7	- 1	A	3	GA	MO	A	0	С	ET	¥2	RV-02		
											LT-J	AppJ			
											OMN-C	JOG	RV-02		
	Valve Name		Inbd Mai	n Steam Line	e Drain He	eader Inbo	l Isol Valv	/e							
2B21-F019	M-116-7	B6	1	A	3	GA	МО	A	0	С	ΕT	Y2	RV-02		
											LT-J	AppJ	-		
											OMN-C	JOG	RV-02		
	Valve Name		Inbd Mai	n Steam Line	e Drain He	eader Otbo	d Isol Val	ve							
2B21-F020	M-116-7	' B5	NS	N/A	3	GL	МО	N/A	С	N/A	PIT	Y2			
											ST-C	RR		RJ-05	
											ST-O	RR		RJ-05	
	Valve Name		Main Ste	am Equalizir	ig Headei	Upstrm S	top Valve	e							
2B21-F021	M-116-7	' A5	NS	N/A	3	GL	МО	N/A	C	N/A	PIT	Y2			
											ST-C	RR		RJ-05	
											ST-O	RR		RJ-05	
	Valve Name		Inbd Mai	n Steam Line	Header	Orifice By	bass Valv	/e							
2B21-F022A	M-116-2	2 C6	1	A	26	GL	AO	A	0	С	СР	M3			
											FS-C	CS		CS-03	TP-03
										.1	LT-J	AppJ			
											PIT	Y2			
		•									ST-C	CS		CS-03	
	Valve Name		A Main S	iteam Line In	board iso	lation Valv	/e								

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Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2B21-F022B	M-116-2	2 B6	1	А	26	GL	AO	A	0	С	СР	M3			
											FS-C	CS		CS-03	TP-03
											LT-J	AppJ			
						•					PIT	Y2			
											ST-C	CS		CS-03	
	Valve Name	ł	B Main S	team Line In	board Iso	lation Valv	/e								
2B21-F022C	M-116-2	2 F6	1	A	26	GL	AO	A	0	С	CP	M3			
											FS-C	CS		CS-03	TP-03
											LT-J	АррЈ			
											PIT	Y2			
											ST-C	CS		CS-03	
	Valve Name	•	C Main S	Steam Line Ir	board Isc	lation Val	ve								
2B21-F022D	M-116-2	2 D6	1	A	26	GL	AO	A	0	С	СР	M3			
											FS-C	CS		CS-03	TP-03
											LT-J	AppJ			
											PIT	Y2			1
											ST-C	CS		CS-03	
_	Valve Name	9	D Main S	Steam Line Ir	nboard Isc	lation Val	ve.								
2B21-F028A	M-116-	2 C4	1	A	26	GL	AO	А	0	C ·	СР	M3			
											FS-C	CS		CS-03	TP-03
											LT-J	AppJ			
											PIT	Y2			
											ST-C	CS		CS-03	
	Valve Name	•	A Main S	Steam Line C	outboard l	solation V	alve		•						
2B21-F028B	M-116-	2 B4	· 1	A	26	GL	AO	А	0	С	СР	MЗ	·		
											FS-C	CS		CS-03	TP-03
											LT-J	AppJ			
											PIT	Y2			
											ST-C	ĊŚ		CS-03	
	Valve Name	3	B Main S	Steam Line C	outboard !	solation V	alve								
2B21-F028C	M-116-	2 F4	1	·A	26	GL	AO	A	0	С	СР	MЗ			
											FS-C	CS		CS-03	TP-03
											LT-J	AppJ			
											PIT	Y2			
											ST-C	CS		CS-03	
	Valve Name	9	C Main	Steam Line C	Outboard I	solation V	alve								

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Main Steam

Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2B21-F028D	M-116-2	D4	1	A	26	GL	AO	A	0	С	СР	M3			
											FS-C	CS		CS-03	TP-03
											LT-J	АррЈ			
											PIT	Y2			
											ST-C	CS		CS-03	
	Valve Name		D Main S	iteam Line O	utboard Is	solation V	alve								
2B21-F037C1	M-138-1	C4	3	С	6	СК	SA	A	SYS	O/C	CC	CS		CS-08	
											со	CS		CS-08	
	Valve Name	(	C SRV D	owncomer V	acuum Bl	kr Valve									*
2B21-F037C2	M-138-1	C4	3	С	6	CK	SA	A	SYS	O/C	CC	CS		CS-08	
•								,			со	CS		CS-08	
	Valve Name		C SRV D	owncomer V	acuum Bl	kr Valve									
2B21-F037D1	M-138-1	C4	3	С	6	СК	SA	A	SYS	-0/C	CC	CS		CS-08	
											со	CS		CS-08	
	Valve Name	I	D SRV D	owncomer V	acuum Bl	kr Valve									
2B21-F037D2	M-138-1	C4	3	С	6	СК	SA	A	SYS	O/C	CC	CS		CS-08	
											со	CS		CS-08	
	Valve Name	I	D SRV D	owncomer V	acuum Bl	kr Valve									
2B21-F037E1	M-138-1	C4	3	С	6	СК	SA	A	SYS	O/C	СС	CS		CS-08	
											со	CS		CS-08	
	Valve Name	I	E SRV D	owncomer V	acuum Bl	kr Valve									
2B21-F037E2	M-138-1	C4	3	С	6	СК	SA	· A	SYS	O/C	CC	CS	· · · · · · · · · · · · · · · · · · ·	CS-08	
											со	CS		CS-08	
	Valve Name	ļ	E SRV D	owncomer V	acuum Bl	kr Valve									
2B21-F037F1	M-138-1	C4	3	С	·6	СК	SA	A ·	SYS	O/C	CC	CS		CS-08	
											со	CS		CS-08	
•	Valve Name	i	F SRV D	owncomer V	acuum Bl	r Valve									
2B21-F037F2	M-138-1	C4	3	С	6	СК	SA	Α	SYS	O/C	СС	CS		CS-08	
											со	CS		CS-08	
	Valve Name	I	F SRV D	owncomer V	acuum Bk	r Valve									
2B21-F037H1	M-138-1	C6	3	С	. 6	СК	SA	A	SYS	O/C	CC	CS		CS-08	
											со	CS		CS-08	
	Valve Name	į	H SRV D	owncomer V	acuum Bl	kr Valve									
2B21-F037H2	M-138-1	C6	3	С	6	СК	SA	A	SYS	O/C	CC	CS		CS-08	
			-	-		-			-		CO	CS		CS-08	

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Main Steam

IST PRO	GRAM PLAN	

Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2B21-F037K1	M-138-1	C5	3	С	6	СК	SA	A	SYS	O/C	сс	CS		CS-08	
											со	CS	•	CS-08	
	Valve Name			owncomer V	acuum B	kr Valve									
2B21-F037K2	M-138-1	C5	3	С	6	СК	SA	Α	SYS	O/C	CC	CS		CS-08	
	Valve Name		ם עפצ	owncomer V	acuum B	kr Valve					со	CS		CS-08	
2821 E037L1	M-129-1	 	2		6		SV.		eve	0/0		20		00.00	h
2021-103711	M-100-1	05	5	U	U	UK.	34	~	313	0/0	00			CG-00	
	Valve Name		SBVD	owncomer V	acuum Bi	a Valva					00	03		03-08	
001 60271 0	M 120 1						64		CVC	0/0				<u> </u>	
2021-003712	IVI-136-1	5	3	C	o	CK	SA	А	515	0/0	00	05		00.00	
	Value Nome		0010									65		05-08	
0001 5007141	Valve Name			Owncomer v					01/0	0/0				00.00	<u></u>
2021-F037W1	WI-138-1	. 00	3	C	o	UK	SA	A	515	0/0	00	00		00.00	
	Makes Nome					Ju Mahua					00	CS.		05-08	
0001 5007140	valve Name	00		owncomer \					01/0	0/0					
2B21-F03/M2	W-138-1		3	C	<b>б</b>	UK	SA	A	515	0/0	00	CS		02-08	•
	Makin Nama				(a a	la Maha					.00	CS		CS-08	
0004 5007D1	valve Name	05		owncomer \											
2B21-F037P1	M-138-1	65	3	U	b	UK	5A	А	545	0/0		CS		00.08	
											co	CS		CS-08	
	Valve Name		PSHVD	owncomer v	acuum B	kr Valve									
2B21-F03/P2	M-138-1	C5	3	C	6	CK	SA	A	SYS	O/C	cc	CS		CS-08	
											.00	CS		CS-08	
	Valve Name		PSHVD	owncomer V	acuum B	kr Valve	· · · · · · · · · · · · · · · · · · ·								
2B21-F037H1	M-138-1	C5	3	C .	6	CK	SA	Α.	SYS	O/C	CC	CS		CS-08	
											CO	CS		CS-08	, .
	Valve Name		H SRV D	owncomer V	acuum B	kr Valve		·····							
2B21-F037R2	M-138-1	C5	3	С	6	СК	SA	Α	SYS	O/C	CC	CS		CS-08	
											со	CS		CS-08	
	Valve Name		R SRV D	owncomer V	acuum B	kr Valve									
2B21-F037S1	M-138-1	C5	3	С	6	CK	SA	A	SYS	O/C	CC	CS		CS-08	
											со	CS	•	CS-08	
·····	Valve Name		S SRV D	owincomer V	acuum B	kr Valve									
2B21-F037S2	M-138-1	C5	3	С	6	СК	SA	А	SYS	O/C	CC	CS	_	CS-08	_
											СО	CS		CS-08	
	Valve Name		S SRV D	owncomer V	acuum B	kr Valve							•		

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Main Steam

Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	⊺est Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2B21-F037U1	M-138-1	C6	3	С	6	СК	SA	A	SYS	O/C	СС	CS		CS-08	
											CO	CS		CS-08	
	Valve Name	l	J SRV D	owncomer V	acuum Bl	r Valve									
2B21-F037U2	M-138-1	C6	3	С	6	СК	SA	A	SYS	O/C	CC	CS		CS-08	
	Value Nome	,			(2011) m BI	r Valvo					co	CS		CS-08	
2B21-E037V1	M-138-1		3	C C	6		SA	Δ	SYS	0/0	00	CS		CS-08	
2021-100741	W-100 1	00	0	Ũ	0	ÖR	UA	л	010	0/0	00	cs		CS-08	
	Valve Name			owncomer V	acuum Bł	r Valve						00		00 00	
2B21-F037V2	M-138-1	C5	3	C	6	СК	SA	A	SYS	O/C	CC	CS		CS-08	
											со	CS		CS-08	
	Valve Name	,	V SRV D	owncomer V	acuum Bl	r Valve									
2B21-F067A	M-116-7	E6	1	A	1.5	GA	MO	A	0	С	ET	Y2	RV-02		
		×		. · ·							LT-J	АррЈ			
											OMN-C	JOG	RV-02		
	Valve Name		A Otbd M	ISIV Below S	Seat Drain	Valve									
2B21-F067B	M-116-7	' E5	1	Α	1.5	GA	MO	A	0	С	ET	Y2	RV-02		
											LT-J	AppJ			
											OMN-C	JOG	RV-02		
·	Valve Name		B Otbd M	ISIV Below S	Seat Drain	Valve									
2B21-F067C	M-116-7	' E7	1	Α	1.5	GA	MO	A	0	С	ET	Y2	RV-02		
											LT-J	AppJ			
	V.I N		0			Mahar					OMN-C	JOG	RV-02		
001 50670	Valve Name	Ee		ISIV Below :		valve	MO				ET	VO	DV 00		
2021-60070	W(-110-7	20	ſ	Ċ.	1.5	ů,	1410	~	0	U	17.1	Appl	nv-02		
											OMN-C	.106	RV-02		
	Valve Name	(	O Otbd M	ISIV Below S	Seat Drain	Valve					Child C	000			
2B21-F070	M-116-7	B2	NS	N/A	3	GL	MO	N/A	С	N/A	PIT	Y2			·····
											ST-C	RR		RJ-05	
											ST-O	RR		RJ-05	
	Valve Name	ſ	Main Stea	amline Drain	Upstr. Or	ifice Bypa	ss Valve								
2B21-F071	M-116-7	C2	NS	N/A	1	GL	MO	N/A	0	N/A	PIT	Y2	······		
											ST-C	RR		RJ-05	
											ST-O	ŔR		RJ-05	
	Valve Name	!	Main Stea	amline Drain	Upstr. Or	ifice Inlet	/aive						*	•	

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IST PROGRAM PLAN

Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2B21-F072	M-116-7	C2	NS	N/A	3	GL	МО	N/A	С	N/A	PIT	Y2			
											ST-C	RR		RJ-05	
											ST-0	RR		RJ-05	
	Valve Name		Main Ste	amline Drain	Dwnst. C	rifice Bypa	ass Valve	; 							
2B21-F073	M-116-7	D2	· NS	N/A	1	GL	МО	N/A	0	N/A	PIT	Y2			
											ST-C	RR		RJ-05	
											ST-O	RR		RJ-05	
	Valve Name		Main Ste	amline Drain	i Dwnst. C	Drifice Inlet	Valve								
2B21-F325A	M-2116-	4 F5	2	С	0.75	XFC	SA	Α	0	С	СС	RR		RJ-07	TP-10
											CO	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name		A MS Lir	e Hi Flow D/	P Inst 2E	31-N008A	/N008B	li Exc		· · · · · ·	<u>.</u>				· · · · ·
2B21-F325B	M-2116-	5 F5	2	C	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
											CO	OP			TP-05, TP- 01
											PIT	Y2			
<u>.</u>	Valve Name		B MS Hi	Line Flow D/	P Inst 2E	31-N009A	/N009B I	Hi Exc						•	,
2B21-F325C	M-2116-	6 F5	2	С	0.75	XFC	SA	Α	0	С	<b>) CC</b>	RR		RJ-07	TP-10
											со	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name		C MS Lir	ne Hi Flow D	/P Sw 2E3	31-N010A	N010B H	li EFV							
2B21-F325D	M-2116-	7 F5	2	С	0.75	XFC	SA	A	0	С	СС	RR		RJ-07	TP-10
											со	OP			TP-05, TP- 01
			÷								PIT	. Y2			
	Valve Name		D MS Lir	ne Hi Flow D	/P Sw 2E3	31-N011A	/N011B H	li EFV							
2B21-F326A	M-2116-	4 E5	2	С	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
								·			со	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name	!	A MS Lir	e Hi Flow D	/P Inst 2E	31-N008A	/N008B I	.o Exc							
2B21-F326B	M-2116-	5 E5	2	С	0.75	XFC	SA	A	Q	С	CC	RR		RJ-07.	TP-10
											со	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name		B MS Hi	Line Flow D	/P Inst 2E	31-N009A	/N009B I	o Exc							

Main Steam

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LaSalle Station IST PROGRAM PLAN

Main Steam

Valve EPN	P&ID	P&ID Coor.	Code Ciass	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2B21-F326C	M-2116-6	5 E5	2	С	0.75	XFC	SA	A	0	С	СС	RR		RJ-07	TP-10
											со	OP			TP-05, TP .01
			0.110.1.1		D. 0 0						PIT	Y2			
0001 50000	Valve Name	7 65			P SW 2E3							00			TD 10
2021-73200	WI-21 #0-7	/ ED	2	U	0.75	AFU	34	~	U	C	co	OP		nj-07	TP-05, TP-
											PIT	Y2			01
	Valve Name		D MS Lin	e Hi Flow D/	P Sw 2E3	1-N011A/	N011B L	o EFV							
2B21-F327A	M-2116-4	4 C5	2	С	0.75	XFC	SA	А	0	С	СС	RR		RJ-07	TP-10
											со	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name		A MS Lin	e Hi Flow D/	P Sw 2E3	1-N008D/	N008C L	o EFV							
2B21-F327B	M-2116-	5 C5	2	С	0.75	XFC	SA	Α	0	С	CC	RR		RJ-07	TP-10
											CO	OP			TP-05, TP- 01
	Valve Name		BMS lin	e Hi Flow D/	P Sw 2E3	1-N009D/		o FFV			PIT	Y2			
2B21-E327C	M-2116-	6 C5	2	C	0.75	XFC	SA	A	0	<u>с</u>	00	BB		B.I-07	TP-10
			-	-					-	-	со	OP			TP-05, TP-
											PIT	Y2			•
	Valve Name		C MS Lir	e Hi Flow D	P Inst 2E	31-N010C	/N010D l	Lo Exc							
2B21-F327D	M-2116-	7 C5	2	С	0.75	XFC	SA	Α	0	С	CC	RR		RJ-07	TP-10
											со	OP			TP-05, TP- 01
	Value Name		DMCL		D Inct OF	21-10110		o Exc			PIT	Y2			
2021 6220 4	M O116	A DE	2 IVIO LII		0.75			A	0					B107	TP 10
2D21-F320A	WI-2 1 10**	4 00	2	C	0.75	AFU	34	~	0	C	со	OP		NJ-07	TP-05, TP-
											PIT	Y2			01
	Valve Name		A MS Lin	ie Hi Flow D/	P Sw 2E3	1-N008D/	N008C H	li EFV							
2B21-F328B	M-2116-	5 B5	2	С	0.75	XFC	SA	A	0	С	СС	RR		RJ-07	TP-10
											со	OP			TP-05, TP- 01
											PIT	Y2			
			- · · · · ·												

**Revision Date:** 

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### Main Steam

Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2B21-F328C	M-2116-6	6 B5	2	С	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
									·		CO	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name	(	C MS Lin	e Hi Flow D/	P Inst 2E	31-N010C	/N010D I	li Exc							
2B21-F328D	M-2116-	7 B5	2	С	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
											со	OP			TP-05, TP- 01
					•						PIT	Y2			
	Valve Name		D MS Lin	e Hi Flow D/	/P Inst 2E	31-N011C	/N011D I	Hi Exc							
2B21-F418A	M-116-3	B7	NS	N/A	18	GA	МО	N/A	0	N/A	PIT	Y2			
											ST-C	RR		RJ-05	
											ST-O	RR		RJ-05	
	Valve Name	- 1	Main Ste	am Aux Sup	ply Stop V	/alve									
2B21-F418B	M-116-3	3 F6	NS	N/A	18	GA	MO	N/A	0	N/A	PIT	Y2			
											ST-C	RR		RJ-05	
											ST-O	RR		RJ-05	
	Valve Name	· 1	Main Ste	am Aux Sup	ply Stop V	/alve									

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### LaSalle Station IST PROGRAM PLAN

### Nuclear Boiler

Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1B21-F001	M-93-4	E2	1	В	2	GL	MO	Р	С	С	PIT	Y2			,
	Valve Name	I	Reactor H	Head Vent U	pstream \	/alve									
1B21-F002	M-93-4	E2	1	В	2	GL	МО	Р	С	С	PIT	Y2			
	Valve Name		Reactor H	lead Vent D	ownstrear	m Valve									
1B21-F344	M-93-3	B3	2	С	0.75	XFC	. SA	A	0	С	СС	RR		RJ-07	TP-10
											со	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name		Jet Pump	Developed	Head D/p	Ind 1B21	-R005 EF	V							
1B21-F346	M-93-3	B6	2	С	0.75	XFC	SA	Α	0	. C	ĊĊ	RR		RJ-07	TP-10
											co	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name		RPV Bott	tom Head Dr	ain Flow I	EFV									
1B21-F348	M-93-3	A6	2	С	0.75	XFC	SA	Α	0	С	CC	RR		RJ-07	TP-10
											CO	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name		HPCS R	k Vsl Hi D/p I	E22-N009	EFV									
1B21-F350	M-93-3	A6	2	С	0.75	XFC	SA	Α	0	С	CC	RR		RJ-07	TP-10
											CO	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name		Rx Core	D/p Xmtr B2	1-N032 E	FV									<u> </u>
1B21-F353	M-93-4	A5	2	С	0.75	XFC	SA	Α	0	С	CC	RR		RJ-07	TP-10
											CO	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name		Rx Vsl Lo	ow Water Lvl	Xmtr Inst	EFV									
1B21-F355	M-93-4	B5	2	С	0.75	XFC	SA	Α	0	С	CC	RR		RJ-07	TP-10
											со	OP			TP-05, TP- 01
	Value Name		Ry Vel M	later Level In	et EEV						PIT	Y2			
1B21-E357	M-03-A	D5	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	C	0.75	YEC	S۵	Δ	0	6	00	BB		B.I-07	TP-10
	191-93-4	00	L	U	0.75	AL O	_ 54	~	v	U	со	OP		10-07	TP-05, TP-
											PIT	Y2			01
	Valve Name		Rx Water	r I vI 2 HPCS	init Xmtr	Inst FFV									

**Revision Date:** 

10/24/08

Nuclear Boiler

Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	ACT. Type	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1B21-F359	M-93-4	C5	2	С	0.75	XFC	SA	A	0	С	СС	ŔŔ		RJ-07	TP-10
											co	OP			TP-05, TP- 01
	Valve Name	1	Ry Hi Pra	ass Alarm/trir	Proce SI	N Inst EE\	,				PIT	Y2		-	
1B21-F361	M-93-4	, D5	2	C	0.75	XFC	, SA	A	0	С	CC	RR	•	RJ-07	TP-10
											со	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name	1	Rx Press	/water Level	Xmtr Inst	EFV									
1B21-F363	M-93-4	C5	2	С	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
											co	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name	·	Rx Wtr L	evel Xmtr Ins	st EFV										•
1B21-F370	M-93-5	B6	2	С	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
											CO	OP			TP-05, TP- 01
,											PIT	Y2			
1001 5070	Valve Name			evel 2 HPCS								00		0107	TD 10
IB21-F372	N-93-5	0	2	C	0.75	AFC	5A	A	. 0	U .	 			HJ-U7	
						,	÷			·	00	VP			01
	Valve Name	. 1	Rx Vsl W	/ater Level X	mtr Inst E	FV					PII	ΥZ			
1B21-F374	M-93-5	D6	2	С	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
											со	OP			TP-05, TP- 01
											ΡIT	Y2			
	Valve Name	.	Rx Wate	r Level 1 RH	R/LPCS/A	DS Init In	st EFV								
1B21-F376	M-93-5	B6	2	С	0.75	XFC	SA	Α	0	С	CC	RR		RJ-07	TP-10
											со	OP			TP-05, TP- 01
											PIT	Y2			
	Vaive Name		Rx Wate	r Level /Rx A	larm/trip l	Press Inst	EFV								
1B21-F378	M-93-5	E6	2	С	0.75	XFC	SA	A	0	С	cc co	RR OP		RJ-07	TP-10 TP-05, TP-
											PIT	<b>V</b> 2			01
											111	12			

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Valve EPN	P&ID	P&ID Coor.	Code Class	✓ IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1B21-F437	M-93-3	E3	2	С	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
											CO	OP			TP-05, TP- 01
	Valve Name	F	Rx Core	Jet Pmp 1 Fl	ow Xmtr i	321-N034/	A HI EFV				PIT	Y2			
1B21-F439	M-93-3	E3	2	С	0.75	XFC	SA	A	0	С	CC	RA		RJ-07	TP-10
											CO	OP			TP-05, TP- 01
							_				PIT	Y2			
	Valve Name		Rx Core	Jet Pmp 2 Fl	ow Xmtr f	321-N0340	C HI EFV								
1B21-F441	M-93-3	D3	2	С	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
											со	OP			TP-05, TP- 01
	14-4 <b>N</b> I										PIT.	Y2			
1001 5440	valve Name	<u> </u>			0.75	VEO								D 1 07	TD 10
1821-F443	M-93-3	03	2	U	0.75	XFC	SA	A	0	C	00	нн		HJ-07	(P-10
											CO	OP			TP-05, TP- 01
	M. 1										PIT	Y2			
	valve name		Jet Pump												70.40
1B21-F445A	M-93-3	D3	2	C	0.75	XFC	SA	A	0	С	CC	RH		HJ-07	1P-10
											co	OP			TP-05, TP- 01
		-									PIT	Y2			
	Valve Name	1	Ax Jet P	mp 5 Flow Xi	ntr B21-N	034J/N03		v							70.40
1B21-F445B	M-93-3	D3	2	C	0.75	XFC	SA	A	0	С	CC	нн		HJ-07	19-10
											co	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name	f	Rx Jet P	mp Flow/Wtr	Lvi B21-N	1033A/N04	I4A EFV	·					· 1		
1B21-F447	M-93-3	D3	2	С	0.75	XFC	SA	A	0	C.	CC	RR		RJ-07	TP-10
											· CO	OP			TP-05, TP- 01
	72							·			PIT	Y2			
4001 5440	valve Name	ا 	1x Core			321-N034L	HIEFV							D 1 07	
1821-F449	M-93-3	C3	2	C	0.75	XFC	SA	A	0	C	CC	нн		RJ-07	19-10
											CO	· OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name	F	Rx Core	Jet Pmp 7 Fl	ow Xmtr E	321-N0341	N HI EFV	<u> </u>							

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Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1B21-F451	M-93-3	C3	2	С	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
											со	OP		•	TP-05, TP- 01
	Valve Name	ĺ	Rx Core	Jet Pmp 8 F	low Xmtr I	321-N034	R HI EFV				PIT	Y2			
1B21-F453	M-93-3	CЗ	2	С	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
											ço	OP			TP-05, TP- 01
	Mahaa Alamaa			tat Data 0 5	low Vente I	101 N004					PIT	Y2			
1001 54554	vaive Name	<b>D</b> 0	HX Core			>21-INU34							· · · · · · - ·	D107	TD 10
1821-r455A	M-93-3	83	2	C	0.75	AFC	54	A	0	U	co	OP		HJ-07	TP-05, TP-
											PIT	Y2			01
	Valve Name	: i	Rx Jet P	mp 5 Flow X	mtr B21-N	1033C/N03	34V Hi El	-V				_			
1B21-F455B	M-93-3	B3	2	C	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
											со	OP			TP-05, TP- 01
	Valvo Namo		Ry lot P	mp 10 Flow	Ymtr B21.	N033C I c					PIT	Y2			
1B21-E457	M.93.3	F6		C	0.75	XEC	SA SA	Δ			00	BB		B 1-07	TP-10
10211 407	11-50-0	LU	L	Ũ	0.75		C/A	7	U	Ū	co	OP		10.07	TP-05, TP-
											PIT	Y2			•
	Valve Name		Rx Core	Jet Pmp 11	Flow Xmt	B21-N03	4B Hi EF	v							
1B21-F459	M-93-3	E6	2	С	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
											co	OP			TP-05, TP- 01
	Valve Name	1	Rx Core	Jet Pmp 12	Flow Xmt	B21-N03	4D HI EF	v			PIT	¥2			
1B21-F461	M-93-3	D6	2		0.75	XFC	SA	A	0	С	CC	BR		RJ-07	TP-10
											со	OP			TP-05, TP-
											ΡΙΤ	Y2			
	Valve Name	!	Rx Core	Jet Pmp 13	Flow Xmti	B21-N03	4F Hi EF	v							
1B21-F463	M-93-3	D6	2	C	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
											со	OP			TP-05, TP- 01
	Valve Name	•	Rx Core	Jet Pmp 14	Flow Xmtr	B21-N03	4H Hi EF	V			PIT	Y2			

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Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1B21-F465A	M-93-3	D6	2	С	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
											со	OP			TP-05, TP- 01
							())	1.1. attacks a			PIT	· Y2			
	Valve Name		Ax Core	Jet Pmp 15	-lw Xmtr I	321-N034	VN033B	HIEFV							
1B21-F465B	M-93-3	D6	2	С	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	. TP-10
											со	OP			TP-05, TP- 01
	Valve Name	. 1	Rx.let Pr	mp Flow/Wtr	L vI B21-N	1033B/N04	48 FFV				PIT	Y2			
1821-F467	M-93-3	D6	2	<u>с</u>	0.75	XFC	SA	A		C	00	BB		B.I-07	TP-10
		00	-	Ũ	0.70		U.A.	<i>N</i>	5	Ğ	co	OP			TP-05, TP-
											PIT	Y2			01
	Valve Name	· 1	Rx Core	Jet Pmp 16	Flow Xmti	B21-N034	4M Hi EF	v							
1B21-F469	M-93-3	C6	2	С	0.75	XFC	SA	A	0	C	CC	RR		RJ-07	TP-10
				·							со	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name	. 1	Rx Core	Jet Pmp 17	Flow Xmtr	B21-N034	4P Hi EF	v							
1B21-F471	M-93-3	C6	2	С	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
											co	OP			TP-05, TP- -01
									•		ΡΙΤ	Y2			
	Valve Name	I	Rx Core	Jet Pmp 18	Flow Xmtr	B21-N034	4S Hi EF	v							,
1B21-F473	M-93-3	C6	2	С	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
											со	OP			TP-05, TP- 01
	Mala Alama		0	1-1 Data 101	V	DOI NOO		.,			PIT	Y2			
1001 54754	valve Name					D21-19034		· · ·				00		D   07	TD 10
1021-F475A	W-93-3	DO	2	C	0.75	AFU	. 5A	A	0	C	00			HJ-07	
											0	OP			1P-05, TP- 01
											PIT	Y2			
	Valve Name		Rx Core	Jet Pmp 20	Flow Xmtr	B21-N034	4W/N033	D EFV						<u>.</u>	
1B21-F475B	M-93-3	B6	2	С	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
											CO	OP			TP-05, TP- 01
	Valve Name	1	By Jet Pr	nn 20 Calibr	ated Flow	Xmtr B21	-N033D (	===\/			PIT	Y2			
								_, .							مى <sub>ل</sub> ى بىكى بىشتار چىندا يە تە <sup>رى</sup>

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Valve EPN P&ID P&ID Code Valve Valve ACT. Test Relief Deferred Tech. IST Active / Normal Safety Test Class Coor. Size Freq. Request Just. Category Туре Type Passive Position Position Rqmt Pos. 1B21-F570 M-93-4 C5 2 С 0.75 XFC 0 С CC RR RJ-07 TP-10 SA А CO OP TP-05, TP-01 PIT Y2 Valve Name Reactor Water Level Xmtr Inst EFV С 0.75 XFC Ō С CC RR **RJ-07 TP-10** 1B21-F571 M-93-5 E6 2 SA A CO OP TP-05, TP-01 PIT Y2 Valve Name Rx Wtr Lvl Xmtr B21-N026E/N026CA Inst EFV Ρ PIT 2B21-F001 M-139-4 E2 В 2 GL MO С С Y2 1 Valve Name Reactor Head Vent Upstream Valve 2B21-F002 GL MO Ρ С С PIT Y2 M-139-4 E2 ₿ 2 1 Reactor Head Vent Downstream Valve Valve Name 0 2B21-F344 M-139-3 B3 2 С 0.75 XFC SA A С CC RR **RJ-07 TP-10** CO OP TP-05, TP-01 PIT Y2 Valve Name Jet Pump Developed Head D/p Ind 2B21-R005 EFV B6 С XFC С CC 2B21-F346 M-139-3 2 0.75 SA A 0 RŔ RJ-07 **TP-10** CO OP TP-05, TP-01 PIT Y2 Valve Name **RPV Bottom Head Drain Flow EFV** 2B21-F348 M-139-3 A6 2 С 0.75 XFC SA A ō С CC **R**R **RJ-07 TP-10** CO OP TP-05, TP-01 · PIT Y2 Valve Name HPCS Rx Vsl Hi D/p E22-N009 EFV C 0.75 XFC SA 0 С CC RJ-07 2B21-F350 M-139-3 A6 2 А RR TP-10 CO OP TP-05, TP-01 PIT Y2 Rx Core D/p Xmtr B21-N032 EFV Valve Name 2B21-F353 M-139-4 A5 2 С 0.75 XFC SA А 0 С CC RR RJ-07 **TP-10** CO OP TP-05, TP-01 PIT Y2 Valve Name Rx Vsi Low Water Lvi Xmtr Inst EFV

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						Nuc	lear Bo	oiler							
Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2B21-F355	M-139-4	B5	2	С	0.75	XFC	SA	A	0	С	сс	RR		RJ-07	TP-10
											со	OP			TP-05, TP- 01
	Valve Name	. 5	Ax Vsi W	later Level In	st FFV						PIT	Y2			
2B21-F357	M-139-4	D5	. 2	С	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
										•	со	OP			TP-05, TP- 01
	Valve Name	. 1	Av Mate	r 1 vi 2 HPCS	S Init Ymtr	inst FFV					PIT	Y2			·
2B21-F359	M-139-4	L C5	2	C	0.75	XFC	SA	Α	0	С		BB		B.J-07	TP-10
			-	C	0.10		0.1		Ū		со	OP		100	TP-05, TP-
						••••==•• <b>EE</b>	,				ΡΙΤ	Y2			01
0001 5001	Valve Name			ess Alarmvin	0.75							00		17 1 07	TD 10
2821-F361	M-139-4	÷ E5	. 2	C C	0,75	XFC	5A	A	U	C	co	нн Op		KJ-07	TP-05, TP-
											PIT	Y2			UI
	Valve Name		Rx Press	/water Level	Xmtr Inst	EFV									
2B21-F363	M-139-4	C5	2	С	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
				·						•	co	OP			TP-05, TP- 01
	Valve Name	. 1	Rx Wtr Lo	evel Xmtr ins	st EFV						PII	¥2			
2B21-F370	M-139-5	5 B6	2	С	0.75	XFC	SA	A	0	C	CC	RR		RJ-07	TP-10
											со	OP		• .	TP-05, TP- 01
	Volvo Nome				) init inot )	(mtr EE)/					PIT	Y2			
0001 5070	Valve Nalme			C	0.75		<u> </u>	· · · · · · · · · · · · · · · · · · ·						<b>D</b> 107	TD 10
2821-5372	M-139-5		2	U	0.75	XFU	54	A	0	U	со	OP		HJ-07	TP-05, TP-
											ΡΙΤ	Y2		÷	01
	Valve Name	1	Rx Vsl W	later Level X	mtr Inst E	FV			- · ·						
2B21-F374	M-139-5	5 D6	2	C	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
											со	OP			TP-05, TP- 01
			<b>-</b>								PIT	Y2			

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Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2B21-F376	M-139-5	B6	2	С	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
											CO	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name	<u> </u>	Rx Wate	r Level /Rx A	larm/trip F	Press Inst	EFV								
2B21-F378	M-139-5	E6	2	С	0.75	XFC	SA	A	0	С	CC	RR		HJ-07	TP-10
											CO	OP			1P-05, 1P- 01
											PIT	Y2			
	Valve Name		Rx Wate	r Level /Rx A	larm/trip F	Press Inst	EFV								
2821-F437	M-139-3	E3	2	С	0.75	XFC	SA	A	0	, C	CC	RR		RJ-07	TP-10
											со	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name		Rx Core	Jet Pmp 1 F	low Xmtr I	321-N034	A HI EFV	,							
2B21-F439	M-139-3	E3	2	С	0.75	XFC	SA	A	0	С	CC ·	RR		RJ-07	TP-10
											CO	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name		Rx Core	Jet Pmp 2 F	low Xmtr I	B21-N034	C Hi EF\	r							
2B21-F441	M-139-3	E3	2	С	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
											со	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name		Jet Pump	p Flow EFV											
2B21-F443	M-139-3	D3	2	С	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
											CO	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name		Jet Pumj	p Flow EFV											
2B21-F445A	M-139-3	3 D3	. 2	С	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
											со	OP			TP-05, TP- 01
								•			PIT	Y2			
	Valve Name		Rx Jet P	mp 5 Flow X	mtr B21-N	1034J/N03	ЗА НІ ЕР	īν.							
2B21-F445B	M-139-3	D3	2	С	0.75	XFC	SA	A	0	C ·	CC	RR		RJ-07	TP-10
											со	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name		Bx. let P	mn Flow/Wtr	I VI B21-N	1033A/NO	444 FFV								

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Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2B21-F447	M-139-3	D3	2	С	0.75	XFC	SA	A	0	Ċ	CC	RR		RJ-07	TP-10
											со	OP			TP-05, TP- 01
	Valve Name		By Core	.let Pmn 6 F	low Xmtr I	B21-N0341	HIFEV				PIT	Y2			
2B21-F449	M-139-3	C3	2	C	0.75	XFC	SA	A	0	c	CC	BB		BJ-07	TP-10
10111110			-	-			0, 1			-	co	OP			TP-05. TP
											PIT	¥2			01
	Valve Name		Rx Core	Jet Pmp 7 F	low Xmtr	B21-N034	N HI EFV								
2B21-F451	M-139-3	C3	2	С	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
											со	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name		Rx Core	Jet Pmp 8 F	low Xmtr	B21-N034I	R HI EFV								
2B21-F453	M-139-3	3 C3	2	С	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
											CO	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name		Rx Core	Jet Pmp 9 F	low Xmtr	B21-N034	T HI EFV						_		
2B21-F455A	M-139-3	B B3	2	С	0.75	XFC	SA	A	0	с	CC	RR		RJ-07	TP-10
											со	OP			TP-05, TP- 01
										-	PIT	Y2			
	Valve Name	_	Rx Jet P	mp 5 Flow X	mtr B21-N	1033C/N03	4V Hi Ef	۶V							
2B21-F455B	M-139-3	B3 B3	2	С	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
											со	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name		Rx Jet P	mp 10 Flow 3	Xmtr B21-	N033C Lo	EFV								
2B21-F457	M-139-3	B E6	2	С	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
											со	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name		Rx Core	Jet Pmp 11	Flow Xmt	B21-N034	IB HI EF	V							
2B21-F459	M-139-3	5 E6	2	С	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
											со	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name		Rx Core	Jet Pmp 12 I	Flow Xmti	B21-N034	ID HI EF	V							

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Vaive EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2B21-F461	M-139-3	E6	2	C.	0.75	XFC	SA	A	0	С	СС	RR		RJ-07	TP-10
											со	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name	1	Rx Core	Jet Pmp 13	Flow Xmtr	B21-N03	4F Hi EF	V							
2B21-F463	M-139-3	D6	2	С	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
											со	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name		Rx Core	Jet Pmp 14	Flow Xmti	B21-N03	4H Hi EF	V		·					
2B21-F465A	M-139-3	D6	2	С	0.75	XFC	SA	Α	O <sub>.</sub>	с	CC	RR		RJ-07	TP-10
											со	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name		Rx Core	Jet Pmp 15	Flw Xmtr	B21-N034	K/N033B	Hi EFV							
2B21-F465B	M-139-3	D6	2	С	0.75	XFC	SA	Α	0	C	CC	RR		RJ-07	TP-10
											CO	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name		Rx Jet P	mp Flow/Wtr	Lvi B21-1	V033B/N0	44B EFV								
2B21-F467	M-139-3	D6	2	С	0.75	XFC	SA	A	Ō	С	CC	RR		RJ-07	TP-10
											CO	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name	1	Rx Core	Jet Pmp 16	Flow Xmt	r B21-N03	4M Hi EF	Ņ							
2B21-F469	M-139-3	C6	2	С	0.75	XFC	SA	А	0	С	CC	RR		RJ-07	TP-10
·											CO	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name	l	Rx Core	Jet Pmp 17	Flow Xmt	B21-N03	4P Hi EF	V							
2B21-F471	M-139-3	C6	2	С	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
							4				CO	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name		Rx Core	Jet Pmp 18	Flow Xmt	B21-N03	4S Hi EF	v							
2B21-F473	M-139-3	C6	2	С	0.75	XFC	SA	А	0	С	CC	RR		RJ-07	TP-10
•											со	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name		Rx Core	Jet Pmp 19	Flow Xmti	B21-N03	4U Hi EF	V							

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Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2B21-F475A	M-139-3	B6	2	С	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
											со	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name	ł	Rx Core	Jet Pmp 20 F	low Xmtr	B21-N034	W/N033	D EFV							
2B21-F475B	M-139-3	B6	2	С	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
											со	OP			TP-05, TP- 01
											PIT	Y2			-
	Valve Name	ſ	Rx Jet Pr	np 20 Calibra	ated Flow	Xmtr B21	-N033D I	EFV							
2B21-F570	M-139-4	C4	2	С	0.75	XFC	SA	A	0	С	СС	RR		RJ-07	TP-10
											со	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name	I	Reactor V	Vater Level 2	Kmtr Inst I	EFV									
2B21-F571	M-139-5	E6	2	С	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
											со	OP		•	TP-05, TP- 01
											PIT	Y2			
	Valve Name	I	Ax Wtr Lv	/i Xmtr B21-I	1026E/NC	26CA ins	EFV								

**Revision Date:** 

### **Neutron Monitoring**

Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1C51-J004A(BAL)	M-774-01	E6	NC	A	0.375	BAL	SO	A	С	С	FS-C	· M3	<u></u>		TP-03
											LT-J	AppJ			
											PIT	Y2			
											ST-C	MЗ			
Va	ive Name	·	A TIP Dri	ve Guide Tu	ibe Valve	Assembly									
1C51-J004A(SHR)	M-774-01	E6	NC	D	0.375	SHR	EXP	A	0	С	DT	S2			
Va	lve Name		A TIP Dri	ve Guide Tu	be Valve	Assembly									
1C51-J004B(BAL)	M-774-01	D6	NC	A	0.375	BAL	SO	A	C	С	FS-C	M3			TP-03
										-	LT-J	AppJ			
											PIT	. Y2			
											ST-C	M3			
Va	lve Name		B TIP Dri	ve Guide Tu	be Valve	Assembly									
1C51-J004B(SHR)	M-774-01	D6	NC	D	0.375	SHR	EXP	A	0	С	DT	S2			
Va	ive Name		B TIP Dri	ve Guide Tu	ube Valve	Assembly									
1C51-J004C(BAL)	M-774-01	I C6	NC	A	0.375	BAL	SO	A	С	С	FS-C	M3			TP-03
·											LT-J	АррЈ			
											PIT	Y2			
											ST-C	МЗ			
Va	lve Name		C TIP Dri	ve Guide Tu	ube Valve	Assembly									
1C51-J004C(SHR)	M-774-01	C6	NC	D	0.375	SHR	EXP	A	0	С	DT	S2			
Va	lve Name		C TIP Dri	ve Guide Tu	ube Valve	Assembly			•						
1C51-J004D(BAL)	M-774-01	D6	NC	A	0.375	BAL	SO	A	С	С	FS-C	M3			TP-03
											LT-J	AppJ			
											PIT	Y2			
											ST-C	M3			
Va	lve Name		D TIP Dri	ve Guide Tu	ube Valve	Assembly									
1C51-J004D(SHR)	M-774-01	1 D6	NC	D	0.375	SHR	EXP	A	0	С	DT	S2			
Va	lve Name		D TIP Dri	ive Guide Tu	ube Valve	Assembly									
1C51-J004E(BAL)	M-774-01	D6	NC	A	0.375	BAL	SO	A	С	С	FS-C	M3			TP-03
											LT-J	AppJ			
					÷						PIT	Y2			
											ST-C	M3			
Va	lve Name		E TIP Dri	ve Guide Tu	ibe Valve	Assembly									
1C51-J004E(SHR)	M-774-0	D6	NC	D	0.375	SHR	EXP	A	0	С	DT	S2			
Va	lve Name		E TIP Dri	ve Guide Tu	lbe Valve	Assembly									

**Revision Date:** 

Test

Relief

Deferred

Tech.

**Neutron Monitoring** 

Valve ACT. Active/

Normal

Safety

Test

		Coor.	Class	Category	Size	Туре	Туре	Passive	Position	Position	Rqmt	Freq.	Request	Just.	Pos.
2C51-J004A(BAL)	M-774-04	D6	NC	A	0.375	BAL	SO	A	С	С	FS-C	MЗ			TP-03
											LT-J	AppJ			
											PIT	Y2			
											ST-C	M3			
Vai	ive Name		A TIP Dri	ve Guide Tu	ibe Valve	Assembly									
2C51-J004A(SHR)	M-774-04	D6	NC	D	0.375	SHR	EXP	A	0	С	DT	S2			
Va	lve Name		A TIP Dri	ve Guide Tu	ibe Valve	Assembly									
2C51-J004B(BAL)	M-774-04	D6	NC	Α	0.375	BAL	SO	A	С	С	FS-C	M3			TP-03
											LT-J	АррЈ			
											PIT	Y2			
											ST-C	MЗ			
Va	ive Name		B TIP Dr	ive Guide Tu	ibe Valve	Assembly									
2C51-J004B(SHR)	M-774-04	D6	NC	D	0.375	SHR	EXP	A	0	С	DT	S2			
Va	lve Name		B TIP Dr	ive Guide Tu	ibe Valve	Assembly									
2C51-J004C(BAL)	M-774-04	C6	NC	A	0.375	BAL	SO	A	С	С	FS-C	M3			TP-03
											LT-J	AppJ			
											PIT	Y2			
											ST-C	М3			
Va	lve Name		C TIP Dr	ive Guide Tu	ibe Valve	Assembly									
2C51-J004C(SHR)	M-774-04	C6	NC	. D	0.375	SHR	EXP	A	0	с	DT	_ S2			
Va	lve Name		C TIP Dr	ive Guide Tu	ibe Valve	Assembly				•					
2C51-J004D(BAL)	M-774-04	C6	NC	A	0.375	BAL	SO	A	С	С	FS-C	MЗ			TP-03
											LT-J	AppJ			
											PIT	Y2			
											ST-C	MЗ			
Va	lve Name		D TIP Dr	ive Guide Tu	ibe Valve	Assembly									
2C51-J004D(SHR)	M-774-04	C6	NC	D	0.375	SHR	EXP	A	0	С	DT	S2			
Va	lve Name		D TIP Dr	ive Guide Tu	ibe Valve	Assembly								_	
2C51-J004E(BAL)	M-774-04	D6	NC	A	0.375	BAL	SO	A	С	С	FS-C	M3			TP-03
											LT-J	AppJ			
											PIT	Y2			
											ST-C	MЗ			
Va	ive Name		E TIP Dri	ive Guide Tu	ibe Valve	Assembly									
2C51-J004E(SHR)	M-774-04	D6	NC	D	0.375	SHR	EXP	A	0	С	DT	S2			
Va	lve Name		E TIP Dri	ve Guide Tu	ibe Valve	Assembly									

**Revision Date:** 

Valve EPN

P&ID P&ID

Code

IST

Valve

Vaive EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1PC001A	M-92-2	E6	2	A/C	24	CK	SA	A	С	O/C	CC	MЗ			
											со	МЗ			
											LT-S	Y2			
						,					PIT	Y2			
											RVT	Y2			
	Valve Name	:	A Primar	y Containme	nt Vacuu	n Breaker									
1PC001B	M-92-2	E7	2	A/C	24	СК	SA	A	С	O/C	CC	M3			
											co	MЗ			
											LT-S	Y2			
											PIT	Y2			
											RVT	Y2			
	Valve Name		B Primar	y Containme	ent Vacuu	m Breaker									
1PC001C	M-92-2	E4	2	A/C	24	СК	SA	A	С	O/C	CC	M3			
											co	M3			
											LT-S	Y2			
											PIT	Y2			•
											RVT	Y2			
	Valve Name	•	C Prima	ry Containme	ent Vacuu	m Breaker									
1PC001D	M-92-2	E3	2	A/C	24	СК	SA	A	С	O/C	CC	MЗ			
											CO.	MЗ			
											LT-S	Y2			
											PIT	Y2			
											RVT	Y2	•		
	Valve Name	•	D Primar	ry Containme	ent Vacuu	m Breaker									
2PC001A	M-138-	2 D6	2	A/C	24	СК	SA	A	С	O/C	CC	MЗ			
											CO	MЗ			
	*										LT-S	Y2			
											PIT	Y2			
											RVT	Y2			
	Valve Name	•	A Primar	ry Containme	ent Vacuu	m Breaker									
2PC001B	M-138-	2 E6	2	A/C	24	СК	SA	A	С	O/C	CC	M3			
											CO	MЗ			
											LT-S	Y2		•	
											ΡΙΤ	Y2			
											RVT	Y2			
	Valvo Name		8 Primar	N Containme	nt Vacuu	m Breaker	•								

**Primary Containment** 

10/24/08

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### **Primary Containment**

Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2PC001C	M-138-2	D3	2	A/C	24	СК	SA	A	С	O/C	сс	MЗ			
											со	М3			
											LT-S	Y2			
											PIT	Y2			
											RVT	Y2			
	Valve Name	(	C Priman	y Containme	nt Vacuun	n Breaker									
2PC001D	M-138-2	E3	2	A/C	24	СК	SA	A	С	O/C	СС	M3			
											со	МЗ			
											LT-S	Y2			
											PIT	Y2			
											RVT	Y2			
	Valve Name	[	) Primar	y Containme	nt Vacuun	n Breaker									

Revision Date:

### **Control Rod Drive**

Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.	
1C11-D001-11	4 M-100-3	3 E3	2	С	0.75	СК	SA	A	SYS	0	со	RR			TP-09	
	Valve Name		CRD HC	U Scram Dis	charge C	heck Valvo	e (Typ 18	5)								
1C11-D001-11	5 M-100-3	3 D7	NC	С	0.5	СК	SA	A	SYS	С	CC	CS		······································	TP-09	-
	Valve Name		CRD HC	U Charging	Water Ch	eck Valve	(Typ 185	)								
1C11-D001-11	7 M-100-3	3 F3	NC	В	0.50	ЗW	SO	A	E	D	SD	RR			TP-09	
	Valve Name		CRD HC	U Scram Pile	ot Valve (*	Гур 185)										
1C11-D001-11	8 M-100-3	B F3	NC	В	0.50	ЗW	SO	A	Ε	D	SD	RR			TP-09	
	Valve Name		CRD HC	U Scram Pile	ot Valve ("	Гур 185)										_
1C11-D001-12	6 M-100-3	B D6	NC	В	1	GA	AO	A	С	0	FS-O	RR			TP-09	
											ST-O	RR			TP-09	
	Valve Name		CRD HC	U Scram Inle	et Valve (1	Fyp 185)										
1C11-D001-12	7 M-100-3	8 E3	NC	В	1	GA	AO	A	С	0	FS-O	RR			TP-09	
	N		000.00			(T 10C)					ST-0	н			1P-09	
1011 0001 10						(Typ 185)	<u> </u>					140			TD 00	
1011-0001-13	Valve Name	5 05		U Drive Wat	U.S er Check	Un Value (Tur	5A 185)	А	C	U	CC	IVI 3			18-09	
1011-0001-13	8 M-100-2	3 D5	NC	C	0.5	CK	5105)	Δ	<u> </u>	<u> </u>	00	M3			TP-09	
1011 0001 10	Valve Name		CRD HC	U Coolina W	ater Che	ck Valve (1	[vp 185)	n	Ũ	Ŭ	00	MO			11 00	
1C11-F380	M-100-2	2 D3	2	В.	2	GL	AO	A	0	С	FS-C	M3			TP-03	-
											PIT	Y2				
											ST-C	МЗ				
	Valve Name	•	Scram D	sch Volume	Hdr Dwns	st Vent Val	ve									
1C11-F381	M-100-4	B1	NC	В	2	GL	AO	A	0	С	FS-C	M3			TP-03	
											PIT	Y2				
											ST-C	М3				
	Valve Name	•	Scram D	sch Volume	Hdr Dwns	st Drain Va	lve									
1C11-F388	M-100-2	2 D3	2	В	2	GL	AO	A	0	С	FS-C	M3			TP-03	
											ΡΙΤ	Y2				
											ST-C	М3				
·····	Valve Name		Scram D	sch Volume	Hdr Upstr	m Vent Va	alve									
1C11-F389	M-100-4	4 B1	NC	В	2	GL	AO	А	0	С	FS-C	М3			TP-03	
											PIT	Y2				
	·										ST-C	MЗ				
	Valve Name		Scram D	sch Volume	Hdr Upstr	m Drain V	alve						······.			_
1C11-F422B	M-100-{	b B4	2	A/C	0.375	ÇK	SA	A	SYS	С	00	RR		RJ-03		
											CO	RR		HJ-03	TP-01	
	M-1 21		<b>D</b>		000 5		1	<b>.</b> ,			. LI-J	AppJ				
	Valve Name	· .	Heactor	vsi Het Leg	UHD Bac	aill Phi-3 (	Jpstrm El	FV								

Revision Date:

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### LaSalle Station IST PROGRAM PLAN

Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1C11-F422D	M-100-5	5 E8	2	A/C	0.375	СК	SA	A	SYS	С	cc	RR		RJ-03	
											со	RR		RJ-03	TP-01
											LT-J	АррЈ			
	Valve Name		Reactor	Vsl Ref Leg (	CRD Back	fill Pnl-2 L	Jpstrm EF	۶V							
1C11-F422F	M-100-5	5 E4	2	A/C	0.375	СК	SA	A	SYS	С	CC	RR		RJ-03	
											со	RR		RJ-03	TP-01
											LT-J	AppJ			
	Valve Name	ł	Reactor	Vsl Ref Leg (	CRD Back	fill Pnl-5 L	lpstrm EF	۶V							
1C11-F422G	M-100-5	5 E1	2	A/C	0.375	СК	SA	A	SYS	C	CC	RR		RJ-03	
											со	RR		RJ-03	TP-01
											LT-J	AppJ			
	Valve Name	ł	Reactor	Vsl Ref Leg (	CRD Back	fill Pnl-4 L	lpstrm EF	۶V							
1C11-F423B	M-100-5	5 B4	2	A/C	0.375	СК	SA	A	SYS	С	СС	RR		RJ-03	
											со	RR		RJ-03	TP-01
											LT-J	AppJ			
	Valve Name	•	Reactor	Vsl Ref Leg	CRD Back	fill Pnl-3 C	wnst EF	v							
1C11-F423D	M-100-5	5 E8	2	A/C	0.375	СК	SA	Α	SYS	С	CC	RR		RJ-03	
											CÒ	RR		RJ-03	TP-01
											LT-J	АррЈ			
	Valve Name	•	Reactor	Vsi Ref Leg	CRD Back	fill Pnl-2 D	wnst EF	V							
1C11-F423F	M-100-6	5 E4	2	A/C	0.375	СК	SA	A	SYS	С	CC	RR		RJ-03	
										•	СО	RR		RJ-03	TP-01
											LT-J	AppJ			
	Valve Name	e e e e e e e e e e e e e e e e e e e	Reactor	Vsl Ref Leg (	CRD Back	fill Pnl-5 C	wnst EF	V							
1C11-F423G	M-100-5	5 E2	2	A/C	0.375	СК	SA	A	SYS	С	CC	RR		RJ-03	
											со	RR		RJ-03	TP-01
											LT-J	АррЈ			
	Valve Name	ł	Reactor	Vsl Ref Leg (	CRD Back	fill Pnl-4 C	wnst EF	V ·							
2C11-D001-114	M-146-3	3 E3	2	C	0.75	СК	SA	A	SYS	0	со	RR			TP-09
	Vaive Name	,	CRD HC	U Scram Dis	charge Cl	neck Valve	e (Typ 18	5)							
2C11-D001-115	5 M-146-3	3 E7	NC	С	0.5	CK	SA	A	SYS	С	CC	CS			TP-09
	Valve Name	r	CRD HC	U Charging	Nater Che	eck Valve	(Typ 185)	ł							
2C11-D001-117	7 M-146-3	3 F3	NC	В	0.50	ЗW	SO	A	ε	D	SD	RR			TP-09
	Valve Name	ł	CRD HC	U Scram Pile	ot Valve (1	yp 185)									
2C11-D001-118	3 M-146-3	3 F3	NC	В	0.50	ЗW	SO	A	E	D	SD	RR			TP-09
	Valve Name		CRD HC	U Scram Pilo	ot Valve (T	yp 185)									

**Control Rod Drive** 

**Revision Date:** 

IST PROGRAM PLAN

### **Control Rod Drive**

2C11-D001-126         M-146           Valve Nam           2C11-D001-127         M-146           Valve Nam           2C11-D001-137         M-146           Valve Nam           2C11-D001-138         M-146           Valve Nam           2C11-F380         M-146           Valve Nam           2C11-F381         M-146           Valve Nam           2C11-F381         M-146           Valve Nam           2C11-F388         M-146           Valve Nam           2C11-F388         M-146	-3 E -3 E -3 E -3 E -3 E -3 E -2 C -2 C -2 C	6 NC CRD HC 4 NC CRD HC 5 NC CRD HC 6 NC CRD HC 2 2 Scram D 2 NC	B U Scram Inle B U Scram Ou C U Drive Wate C U Cooling W B	1 et Valve (T 1 tlet Valve 0.5 er Check V 0.5 /ater Chec 2	GA yp 185) GA (Typ 185) CK Valve (Typ CK k Valve (T GL	AO AO SA 5 185) SA (yp 185) AO	A A A A	C C C	0 0 C	FS-O ST-O FS-O ST-O CC	RR RR RR RR M3 M3			TP-09 TP-09 TP-09 TP-09 TP-09
Valve Nam           2C11-D001-127         M-146           Valve Nam           2C11-D001-137         M-146           Valve Nam           2C11-D001-138         M-146           Valve Nam           2C11-F380         M-146           Valve Nam           2C11-F381         M-146           Valve Nam           2C11-F388         M-146           Valve Nam           2C11-F388         M-146           Valve Nam           2C11-F388         M-146	ne -3 E ne -3 E ne -2 C ne -4 E	CRD HC 4 NC 5 NC 5 NC 6 NC 6 NC 6 NC 7 2 2 8 Scram D 2 NC	U Scram Inle B U Scram Ou C U Drive Wate C U Cooling W B	et Valve (T 1 ttet Valve 0.5 er Check V 0.5 /ater Chec 2	yp 185) GA (Typ 185) CK Valve (Typ CK k Valve (T GL	AO SA 5 185) SA (yp 185) AO	A	C C C	O C C	ST-O FS-O ST-O CC CC	RR RR RR M3			TP-09 TP-09 TP-09 TP-09
Valve Nam 2C11-D001-127 M-146 Valve Nam 2C11-D001-137 M-146 Valve Nam 2C11-D001-138 M-146 Valve Nam 2C11-F380 M-146 Valve Nam 2C11-F388 M-146 Valve Nam 2C11-F388 M-146	ne -3 E -3 E ne -3 E ne -2 C ne -2 C	CRD HC 4 NC 5 NC 5 NC 6 NC 6 NC 7 2 2 8 Scram D 2 NC	U Scram Inle B U Scram Ou C U Drive Wate C U Cooling W B	tlet Valve (T 1 tlet Valve 0.5 er Check \ 0.5 /ater Chec 2	yp 185) GA (Typ 185) CK Valve (Typ CK k Valve (T GL	AO SA (2 185) SA (yp 185) AO	A	c c c	o c c	FS-O ST-O CC	RR RR M3		`	TP-09 TP-09 TP-09
2C11-D001-127         M-146           Valve Nam           2C11-D001-137         M-146           Valve Nam           2C11-D001-138         M-146           Valve Nam           2C11-F380         M-146           Valve Nam           2C11-F381         M-146           Valve Nam           2C11-F388         M-146           Valve Nam           2C11-F388         M-146           Valve Nam           2C11-F388         M-146	-3 E -3 E 10 -3 E 10 -3 E 10 -2 C 10 -2 C 10 -2 C	4 NC CRD HC 5 NC CRD HC 6 NC CRD HC 2 2 2 Scram D 2 NC	B C C C C C C C C C C C C C C C C C C C	1 tlet Valve 0.5 er Check V 0.5 /ater Chec 2	GA (Typ 185) CK Valve (Typ CK k Valve (T GL	AO SA 5 185) SA (yp 185) AO	A A A	C C C	C C	FS-O ST-O CC CC	RR RR M3		``	TP-09 TP-09 TP-09
Valve Nam           2C11-D001-137         M-146           Valve Nam           2C11-D001-138         M-146           Valve Nam           2C11-F380         M-146           Valve Nam           2C11-F381         M-146           Valve Nam           2C11-F381         M-146           Valve Nam           2C11-F388         M-146           Valve Nam           2C11-F388         M-146	ne -3 E ne -3 E ne -2 C ne -4 E	CRD HC 5 NC CRD HC 6 NC CRD HC 2 2 Scram D 2 NC	U Scram Ou C U Drive Wat C U Cooling W B	tlet Valve 0.5 er Check \ 0.5 /ater Chec 2	(Typ 185) CK Valve (Typ CK k Valve (T GL	SA 5 185) SA Typ 185) AO	A	c	C C	ST-O CC CC	RR M3 M3			TP-09 
Valve Nam           2C11-D001-137         M-146           Valve Nam           2C11-D001-138         M-146           Valve Nam           2C11-F380         M-146           Valve Nam           2C11-F381         M-146           Valve Nam           2C11-F388         M-146           Valve Nam           2C11-F388         M-146           Valve Nam           2C11-F388         M-146	ne -3 E ne -2 C ne -4 E	CRD HC 5 NC CRD HC 6 NC CRD HC 2 2 2 Scram D 2 NC	U Scram Ou C U Drive Wate C U Cooling W B	tlet Valve 0.5 er Check V 0.5 Vater Chec 2	(Typ 185) CK Valve (Typ CK k Valve (T GL	SA 5 185) SA (yp 185) AO	A	C C	C C	CC CC	M3 			TP-09
2C11-D001-137 M-146 Valve Nam 2C11-D001-138 M-146 Valve Nam 2C11-F380 M-146 Valve Nam 2C11-F381 M-146 Valve Nam 2C11-F388 M-146 Valve Nam 2C11-F388 M-146	-3 E ne -3 E ne -2 C	5 NC CRD HC 6 NC CRD HC 2 2 Scram D 2 NC	C CU Drive Wat C CU Cooling W B	0.5 er Check V 0.5 Vater Chec 2	CK Valve (Typ CK k Valve (T GL	SA (185) SA (yp 185) AO	A	c c	c c	20 CC	M3			TP-09
Valve Nam           2C11-D001-138         M-146           Valve Nam         2C11-F380           2C11-F381         M-146           Valve Nam         2C11-F381           2C11-F388         M-146           Valve Nam         2C11-F388           Valve Nam         2C11-F388	ne -3 E ne -2 C ne -4 E	CRD HC 6 NC CRD HC 2 2 Scram D 2 NC	C Drive Wat C C Cooling W B Sch Volume	er Check V 0.5 /ater Chec 2	Valve (Typ CK k Valve (T GL	5 185) SA (yp 185) AO	A	С	С	CC	M3	· .		
2C11-D001-138 M-146 Valve Nam 2C11-F380 M-146 Valve Nam 2C11-F381 M-146 Valve Nam 2C11-F388 M-146 Valve Nam 2C11-F388 M-146	-3 E ne -2 C ne -4 E	6 NC CRD HC 2 2 Scram D 2 NC	C SU Cooling W B sch Volume	0.5 /ater Chec 2	CK k Valve (1 GL	SA (yp 185) AO	A	С	С	CC	MЗ			
Valve Nam           2C11-F380         M-146           Valve Nam           2C11-F381         M-146           Valve Nam           2C11-F388         M-146           Valve Nam           2C11-F388         M-146	ne -2 C ne -4 E	CRD HC 2 2 Scram D 2 NC	U Cooling W B Isch Volume	/ater Chec 2	k Valve (T GL	(yp 185) AO								TP-09
2C11-F380 M-146 Vaive Nam 2C11-F381 M-146 Vaive Nam 2C11-F388 M-146 Vaive Nam 2C11-F389 M-146	-2 C ne -4 E	2 2 Scram D 2 NC	B Isch Volume	2	GL	AO								
Valve Nam           2C11-F381         M-146           Valve Nam           2C11-F388         M-146           Valve Nam           2C11-F389         M-146	<b>ie</b> 4 E	Scram D 2 NC	sch Volume				Α	0	С	FS-C	MЗ			TP-03
Vaive Nam           2C11-F381         M-146           Vaive Nam           2C11-F388         M-146           Vaive Nam           2C11-F388         M-146	1 <b>e</b> 4 E	Scram D 2 NC	sch Volume							PIT	Y2			
Vaive Nam 2C11-F381 M-146 Vaive Nam 2C11-F388 M-146 Vaive Nam 2C11-F389 M-146	<b>4</b> E	Scram D 2 NC	sch Volume							ST-C	MЗ			
2C11-F381 M-146 Valve Nam 2C11-F388 M-146 Valve Nam 2C11-F389 M-146	-4 E	2 NC		Hdr Dwns	t Vent Val	ve								
Valve Nam           2C11-F388         M-146           Valve Nam           2C11-F389         M-146			В	2	GL	AO	A	0	С	FS-C	M3			TP-03
Valve Nam           2C11-F388         M-146           Valve Nam           2C11-F389         M-146										PIT	Y2			
Valve Nam 2C11-F388 M-146 Valve Nam 2C11-F389 M-146										ST-C	М3			
2C11-F388 M-146 Valve Nam 2C11-F389 M-146	ie	Scram D	sch Volume	Hdr Dwns	t Drain Va	lve	•							
Valve Narr 2011-E389 M-146	-2 C	3 2	В	2	GL	AO	A	0	С	FS-C	M3			TP-03
Valve Nam 2011-E389 M-146										PIT	Y2			
Valve Nam 2C11-E389 M-146										ST-C	М3			
2C11-E389 M-146	ie	Scram D	sch Volume	Hdr Upstr	m Vent Va	alve								
201110000 10110	-4 E	2 NC	В	2	GL	AO	A	0	C	FS-C	MЗ			TP-03
										PIT	Y2			
										ST-C	М3			
Valve Nan	ie	Scram D	sch Volume	Hdr Upstr	m Drain V	alve			_		-			
2C11-F422B M-146	-6 E	4 2	A/C	0.375	СК	SA	A	SYS	С	CC	RR		RJ-03	
										CO	ŔŔ		RJ-03	TP-01
										LT-J	AppJ			
Valve Nan	ne	Reactor	Vsl Ref Leg	CRD Back	dill Pnl-3 L	Jpstrm El	FV							
2C11-F422D M-146	-6 E	8 2	A/C	0.375	СК	SA	A	SYS	С	cc	RR		RJ-03	
				·				,		co	RR		RJ-03	TP-01
	•									LT-J	AppJ			
Vaive Nan	ne	Reactor	Vsl Ref Leg	CRD Back	dill Pnl-2 (	Jpstrm El	-v							
2C11-F422F M-146	-6 E	4 2	A/C	0.375	СК	SA	A	SYS	С	CC	RR		RJ-03	····
										со	RR	•	RJ-03	TP-01
•		•								LT-J	AppJ			
Valve Nan		Reactor	Vsl Ref Leg	CRD Back	fill Pnl-5 L	Jpstrm El	=v						•	

**Revision Date:** 

### **Control Rod Drive**

Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2C11-F422G	M-146-6	E1	2	A/C	0.375	СК	SA	A	SYS	С	CC	RR		RJ-03	
											со	RR_		RJ-03	TP-01
											LT-J	Аррј			
	Valve Name	.	Reactor \	/sl Ref Leg (	CRD Back	fill Pnl-4 U	lpstrm EF	٩							
2C11-F423B	M-146-6	B4	2	A/C	0.375	СК	SA	A	SYS	С	CC	RR		RJ-03	
											со	RR		RJ-03	TP-01
											LT-J	AppJ			
	Valve Name	I	Reactor \	/si Ref Leg (	CRD Back	fill Pnl-3 D	wnst EF	V							
2C11-F423D	M-146-6	E8	2	A/C	0.375	СК	SA	A	SYS	С	CC	RR		RJ-03	
											ĊŎ	RR		RJ-03	TP-01
											LT-J	AppJ			
	Valve Name	1	Reactor \	/sl Ref Leg (	CRD Back	fill Pnl-2 D	wnst EF	V							
2C11-F423F	M-146-6	E4	2	A/C	0.375	СК	SA	A	SYS	С	CC	RR		RJ-03	
											CO	RR		RJ-03	TP-01
											LT-J	AppJ			
	Valve Name	ł	Reactor \	/sl Ref Leg (	CRD Back	fill Pnl-5 D	wnst EF	V							
2C11-F423G	M-146-6	E2	2	A/C	0.375	СК	SA	А	SYS	С	CC	RR		RJ-03	
											CO	RR		RJ-03	TP-01
											LT-J	AppJ			
	Valve Name	I	Reactor \	/sl Ref Leg (	CRD Back	fill Pnl-4 D	wnst EF	V							

Reactor Building Equipment Drains & Floor Drains

Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1RE024	M-91-4	B4	2	A	2	GL	AO	A	0	С	FS-C	M3	<u> </u>		TP-03
											LT-J	AppJ			
											PIT	Y2			
											ST-C	МЗ			
	Valve Name		DWEDS	Pump Suct H	ldr Upstrr	n Valve									
1RE025	M-91-4	C4	2	A	2	GL	AO	Α	0	С	FS-C	M3			TP-03
											LT-J	AppJ			
					•						PIT	Y2	•		
											ST-C	M3			
	Valve Name		DWEDS	Pump Suct I	Hdr Dwnst	t Valve							•		
1RE026	M-91-4	D5	2	Ā	1	GL	AO	A	0	С	FS-C	MЗ			TP-03
											LT-J	Аррј			
											PIT	Y2			
											ST-C	MЗ			
	Valve Name		DWEDS	Recirc Dwns	st Valve			<u>`</u>							
1RE029	M-91-4	D5	2	A	1	GL	AO	A	0	С	FS-C	MЗ			TP-03
											LT-J	AppJ			
											PIT	Y2			
											ST-C	М3			
	Valve Name	·	DWEDS	Recirc Upstr	m Valve						•				
1RF012	M-91-4	A4	2	A	2	GL	AO	А	0	С	FS-C	М3			TP-03
	•										LT-J	АррЈ			
	. •	• •									PIT	Y2			
											ST-C	MЗ			
	Valve Name	1	DWFDS	Pump Suct I	Hdr Upstrr	n Valve									
1RF013	M-91-4	B4	2	A	2	GL	AO	A	0	С	FS-C	MЗ			TP-03
											LT-J	АррЈ			
											PIT	Y2			
											ST-C	M3			
	Valve Name		DWFDS	Pump Suct I	Idr Dwns	t Valve						·			
2RE024	M-137-4	4 B4	2	A	2	GL	AO	A	0	C	FS-C	M3			TP-03
											LT-J	AppJ			
											PIT	Y2			
											ST-C	МЗ			
	Valve Name	•	DWEDS	Pump Suct I	Hdr Upstri	m Valve								•	

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### LaSalle Station IST PROGRAM PLAN

**Reactor Building Equipment Drains & Floor Drains** 

Valve EPN	P&ID	P&iD Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2RE025	M-137-4	C4	2	A	2	GL	AO	A	0	С	FS-C	M3			TP-03
											LT-J	AppJ			
											PIT	Y2			
											ST-C	MЗ			
	Vaive Name		DWEDS	Pump Suct H	ldr Dwnst	Valve		i.							
2RE026	M-137-4	D5	2	A	1	GL	AO	Α	0	С	FS-C	M3			TP-03
											LT-J	АррЈ			
	•										PIT	Y2			
											ST-C	M3			
	Valve Name		DWEDS	Recirc Dwns	t Valve										
2RE029	M-137-4	D5	2	Α	1	GL	AO	Α	0	С	FS-C	М3			TP-03
											LT-J	AppJ			
											PIT	Y2			
											ST-C	MЗ			
	Valve Name	I.	DWEDS	Recirc Upstr	m Valve										
2RF012	M-137-4	A4	2	A	2	GL	AO	A	0	C	FS-C	M3			TP-03
											LT-J	АррЈ			
											PIT	Y2			
											ST-C	MЗ			
	Valve Name		DWFDS	Pump Suct H	ldr Upstrr	n Valve									
2RF013	M-137-4	H B4	2	Α	2	GL	AO	А	0	С	FS-C	MЗ			TP-03
											LT-J	AppJ			
											PIT	Y2			
											ST-C	М3			
	Valve Name		DWFDS	Pump Suct H	ldr Dwnst	Valve									

**Revision Date:** 

Valve EPN	P&ID	P&iD Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
0E12-F300	M-87-1	F8	3	В	54	BTF	М	A	LC	0	ME	¥2			TP-04
	Valve Name	e CSCS Water Tunnel Supply Traveling Screen Bypass													
1E12-F003A	M-96-4	D1	2	В	18	GA	МО	A	0	0	ET	Y2	RV-02		
											OMN-O	JOG	RV-02		
	Valve Name		A RHR H	X Outlet Val	ve										
1E12-F003B	M-96-4	D8	2	В	18	GA	МО	А	0	. 0	ET	Y2	RV-02		
											OMN-O	JOG	RV-02		
<del>67</del>	Valve Name	B HHH HX Outlet Valve												<u>.                                    </u>	
1E12-F004A	M-96-1	A7	2	В	24	GA	MO	A	0	O/C	ET	Y2	RV-02		
											OMN-C	JOG	RV-02		
											OMN-O	JOG	RV-02		
	Valve Name	! 	A RHR P	ump Sup Po	ool Suct Is	ol Valve									
1E12-F004B	M-96-2	B7	2	В	24	GA	MO	A	0	O/C	ET	Y2	RV-02		
											OMN-C	JOG	RV-02		
											OMN-O	JOG	RV-02		
	Valve Name	) 		ump Sup Po	ool Suct Is	ol Valve				0.10					
1E12-F004C	M-96-3	B7	2	В	24	GA	МО	A	0	O/C	ET	Y2	RV-02		
											OMN-C	JOG	HV-02		
	Volue Nome				od Curt la	ol Volvo					OMN-O	JOG	HV-02		• .
1510 5005	Valve Maine						C 4			0/0	· D\/T	V10	•		
1212-0000	W-90-3		2 200 en		IXZ	nv of Valuo	54		U	0/0	nvi	110			
1E12-F006A	M-96-1	A6	2	B	18	GA	MO	Δ		<u> </u>	FT	¥2	BV-02		
	141-90-1	70	2	U	10		NIO	^	U			106	BV-02		
	Valve Name				uct Valva						OMIN-O	100	110-02		
1E12-E006B	M-96-2	B6	2	B	18	GA	MO	Δ	C	6	FT	¥2	BV-02		·····.
121210000	10, 50 2		-	0	.0	Git	1110		Ũ	Ũ	OMN-C		BV-02		
	Valve Name	•	B RHR F	ump SDC S	uct-Valve							000			
1E12-F008	M-96-3	D6	1	A	20	GA	MO	Α	c	С	ET	Y2	RV-02	<u></u>	
											LT-J	AppJ			
									· ·		LT-S	Y2			
											OMN-C	JOG	RV-02		
	Valve Name	9	RHR SD	C Suction He	eader Out	board Iso	ation Val	ve							
1E12-F009	M-96-3	D7	1	A	20	GA	MO	A	C .	С	ET	Y2	RV-02		
											LT-J	AppJ			
											LT-S	Y2			
											OMN-C	JOG	RV-02		
	Valve Name	•	RHR SD	C Suction He	eader Inbo	oard Isolat	tion Valve	9							
					·····				<u> </u>			·			····

**Residual Heat Removal** 

**Revision Date:**
LaSalle Station IST PROGRAM PLAN

Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valv <del>e</del> Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Ramt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1E12-F016A	M-96-1	E6	2	A	16	GA	MO	A	С	С	ET	Y2	RV-02		
											LT-J	AppJ			,
											OMN-C	JOG	RV-02		
	Valve Name	,	A RHR C	ontainment S	Spray Ups	stream Iso	lation Val	ve							
1E12-F016B	M-96-2	F5	2	A	16	GA	МО	A	С	С	ET	Y2	RV-02		
											LT-J	AppJ			
											OMN-C	JOG	RV-02		
	Valve Name	Í	B RHR C	ontainment S	Spray Ups	stream iso	lation Va	ve							
1E12-F017A	M-96-1	E7	2	Α	16	GA	MO	А	С	С	ET	Y2	RV-02		
											LT-J	AppJ			
											OMN-C	JOG	RV-02		
	Valve Name		A RHR C	ontainment S	Spray Dov	wnstream	Isolation	Valve							
1E12-F017B	M-96-2	F6	2	А	16	GA	MO	A	С	С	ET	Y2	RV-02		
											LT-J	АррЈ			
											OMN-C	JOG	RV-02		
<u></u>	Valve Name		B RHR C	ontainment S	Spray Dov	wnstream	Isolation	Valve							
1E12-F021	M-96-3	E5	2	B	18	GL	MO	Α	С	C	ET	Y2	RV-02		
											OMN-C	JOG	RV-02		
	Valve Name		C RHR P	ump Full Flo	w Test Is	olation Va	lve							<u></u>	
1E12-F023	M-96-1	F6	1	A	6	GL	мО	A	C	С	EI	Y2	HV-02		
											LI-J	АррЈ	51/00		
	Malua Manua				0.4	مرا المرا ملا	- Makia				OMN-C	JOG	HV-02		
4540 50044	Valve Name		A HHH H	IX Head Spra	iy Outooa	ira isolatio	n vaive			0/0		240			
1E12-FU24A	MI-30-1	02	2	d	10	GL	MO	A	C	0/0		12	RV-02		
												100	EV 02		
	Valve Name			ump Full Flo	w Tact le	olation Va	hva				0.000	300	110-02		
1E12-E024B	M.96.2	·F1	. 2	B	-18	GI	MO	A	0	0/0	ET.	¥2	BV-02		
1212-1 0240	141-30-2		2	5	10	ŬL.		0	Ũ	0/0		.106	BV-02		
											OMN-O	.106	BV-02		
	Valve Name		R RHR P	umn Full Flo	w Test is	olation Va	lve				0	uou	110 02		·
1E12-E025A	M-96-1	F3			1 x 2	RV	SA		C	0/0	BVT	Y10			
ILIZ I OLON	Valve Name	20		umn Dischai	rne Relief	Valve	0,1	,,	Ū	0,0					
1E12-E025B	M-96-2	05		C	1 x 2	BV	SA	A	c	0/C	BVT	Y10			
	Valve Name	20	B RHA P	umo Dischar	rae Relief	Valve	Un		2	0,0					
1E12-E025C	M-96-3	C2	2	C	1 x 2	RV	SA	Α	С	0/C		Y10			
	M 00-0	02	6	0			0, (		÷	0.0					

**Residual Heat Removal** 

**Revision Date:** 

Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1E12-F027A	M-96-1	C5	2	В	4	GA	MO	A	С	O/C	ET	Y2	RV-02		
											OMN-C	JOG	RV-02		
											OMN-O	JOG	RV-02		
	Valve Name	1	A RHR S	Sup Chbr Spr	ay Isol Va	alve									
1E12-F027B	M-96-2	C4	2	В	4	GA	МО	A	С	O/C	ET	Y2	RV-02		
											OMN-C	JOG	RV-02		
											OMN-O	JOG	RV-02		
	Valve Name	. 1	B RHR S	Sup Chbr Spi	ray Isol Va	alve									
1E12-F031A	M-96-1	A4	2	С	18	CK	SA	Α	SYS	O/C	CC	M3			
											со	МЗ			
	Valve Name		A RHR F	ump Discha	rge Chec	k Valve									
1E12-F031B	M-96-2	B3	2	С	18	СК	SA	A	SYS	O/C	CC	MЗ			
											со	MЗ			
	Valve Name	. 1	B RHR F	ump Discha	rge Chec	k Valve					•				
1E12-F031C	M-96-3	B4	2	С	18	СК	SA	A	SYS	0/C	CC	MЗ			
											CO	М3			
	Valve Name	)	C RHR F	Pump Discha	irge Chec	k Valve									_
1E12-F036A	M-101-2	2 C6	2	С	4 x 6	RV	SA	Α	С	O/C	RVT	Y10			
	Valve Name	• •	A RHR F	IX Steam Co	ondensing	RCIC Rtr	n Hdr Re	lief Vlv							
1E12-F036B	M-101-2	2 B3	2	C	4 x 6	RV	SA	A	С	O/C	RVT	Y10			
	Valve Name	• 1	B RHR H	IX Steam Co	ondensing	RCIC Rtr	n Hdr Re	lief Vlv							
1E12-F040A	M-96-4	C1	2	B	3	GL	МО	A	С	С	ET	Y2	RV-02		
r											OMN-C	JOG	RV-02		
	Valve Name	1 . J	A RHR H	X Blowdowi	n Downsti	eam Isola	tion Valvo	Э							
1E12-F040B	M-96-4	. C8	2	В	3	GL	MO	А	С	С	ĒΤ	Y2	RV-02		
											OMN-C	JOG	RV-02		
	Valve Name	• 1	B RHR H	HX Blowdowi	n Downsti	eam Isola	tion Valve	9							
1E12-F041A	M-96-1	D7	1.	A/C	12	СК	SA	A	SYS	O/C	CC	CS		CS-17	
											со	CS		CS-17	
		•									LŤ-S	Y2			
	Valve Name		A RHR L	PCI Check	/alve										
1E12-F041B	M-96-2	E7	1	A/C	12	СК	SA	A	SYS	O/C	CC	CS		CS-17	
											со	CS		CS-17	
											LT-S	Y2			
	Valve Name		B RHR L	PCI Check	/alve										

**Residual Heat Removal** 

**Revision Date:** 

#### LaSalle Station IST PROGRAM PLAN

Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freg.	Relief Request	Deferred Just.	Tech. Pos.
IE12-F041C	M-96-3	E7	1	A/C	12	СК	SA	A	SYS	O/C	СС	CS		CS-17	
											СО	CS		CS-17	
											LT-S	Y2			
	Valve Name	(	C RHR L	PCI Check V	/alve										
E12-F042A	M-96-1	D5	1	A	12	GA	MO	Α	С	O/C	ET	Y2	RV-02		
											LT-J	AppJ			
											LT-S	Y2			
											OMN-C	JOG	RV-02		
					1.4 1	N 14 1 .					OMN-O	JOG	RV-02		
E10 E0408	Valve Name	50			Line Isol	ation valve				0/0	ET.		DV 00		
E12-F042B	M-90-5	ED	I	A	12	GA	MO	A	C	0/0	сі Іт.;	12 Ann I	nv-02		
											IT-S	7490 Y2			
											OMN-C	JOG	RV-02		
											OMN-O	JOG	RV-02		
	Valve Name	;	B RHR L	PCI Injection	Line Isol	ation Valve	;								
E12-F042C	M-96-3	E6	1	A	12	GA	мо	A	С	O/C	ET	Y2	RV-02		
											LT-J	AppJ	·		
											LT-S	Y2			
											OMN-C	JOG	RV-02		
										,	OMN-O	JOG	RV-02		
	Valve Name		C RHR L	PCI Injection	Line Isol	ation Valv	9								
1E12-F046A	M-96-1	B5	2	С	8	CK	SA	А	SYS	0	CCD	СМ			CM01
											COD	СМ			CM01
											СР	M3			
	Valve Name		A RHR P	ump Min Flo	w Line Cl	neck Valve									
1E12-F046B	M-96-2	C2	2	С	8	СК	SA	A	С	0/C	CCD	СМ			CM01
	• •		• •	·					· .	•	COD	CM			CM01
·	Value Name			umo Min Elo	u Lino Cl	hock Volvo					CP	M3			
1E12-E046C	M-96-3			C	8	CK	S4	Δ	C	0/0	CCD	CM			CM23
	W-30-0	50	2	Ū	U	Oit			Ũ	0,0	COD	CM			CM23
											CP	M3			CM23
	Valve Name		C RHR F	ump Min Flo	w Line Cl	heck Valve	ł								
1E12-F047A	M-96-4	E4	2	В	18	GA	МО	A	0	0	ET	Y2	RV-02		<u></u>
											OMN-O	JOG	RV-02		
	Valve Name		A RHR H	leat Exchance	er inlet V	alve									

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Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	ACT. Type	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1E12-F047B	M-96-4	E5	2	В	18	GA	МО	А	0	0	ET	Y2	RV-02		
											OMN-O	JOG	RV-02		
	Valve Name	· I	B RHR H	leat Exchang	er Inlet V	alve									
1E12-F048A	M-96-4	E1	2	В	18	GL	MO	A	0	O/C	ET	MЗ	RV-02		
											OMN-C	JOG	RV-02		
											OMN-O	JOG	RV-02		
	Valve Name		A RHR H	leat Exchang	ler Bypas	s Valve									
1E12-F048B	M-96-4	D8	2	В	18	GL	MO	А	0	O/C	ET	МЗ	RV-02		
											OMN-C	JOG	RV-02	•	
											OMN-O	JOG	RV-02		
	Valve Name	.	B RHR H	leat Exchang	jer Bypas	s Valve								•	
1E12-F049A	M-96-4	C1	2	В	3	GA	MO	Α	С	С	ET	Y2	RV-02		
											OMN-C	JOG	RV-02		
	Valve Name	н <sup>1</sup> .	A RHR H	X Blowdowr	Upstream	m Isolatior	n Valve	·							
1E12-F049B	M-96-4	C8	2	В	3	GA	МО	А	С	С	ET	Y2	RV-02		
											OMN-C	JOG	RV-02		
	Valve Name		B RHR H	IX Blowdowr	Upstrea	m Isolatior	n Valve								
1E12-F050A	M-96-1	D7	1	A/C	12	CK	SA	A	SYS	С	CC	CS		CS-10	TP-01
											со	CS .		CS-10	TP-01
											LT-S	Y2			
	Valve Name		A RHR S	SDC Return (	Check Val	ve									
1E12-F050B	M-96-2	D7	. 1	A/C	12	СК	SA	A	SYS	C	CC	CS		CS-10	TP-01
											CO	CS		CS-10	TP-01
											LT-S	Y2			
	Valve Name		BHHHS	DC Return C	check Val										
1E12-F053A	M-96-1	D5	1	А	12	GL	мо	A	С	С	EI	Y2	HV-02		
											LI-J	АррЈ			
											LI-S	Y2	51/40		
					- 11						, OMN-C	JOG	RV-02		
4540 50500				shutdown Co	oling Heti	urn Isolatio	on valve						<u></u>		
1E12-F053B	M-96-2	D6	I	А	12	GL	MÜ	А	C	C	E1	¥2	HV-02		
											LI-J	АррЈ			
											LI-S	12	0.000		
	Valvo Nome		ם מעם מ	Shutdown Co	oling Pot	um leolati	n Value	·			UMN-C	JUG	HV-02		
	vaive inaffie	7	บ กกก จ	mutuowii O0	onny nell	111115018110	un valve								

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#### LaSalle Station IST PROGRAM PLAN

Valve EPN	P&1D	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just	Tech. Pos.
IE12-F060A	M-96-4	C2	2	В	0.75	GL	SO	A	С	С	FS-C	M3			TP-03
											PIT	Y2			
											ST-C	М3			
	Valve Name	ļ	A RHR H	IX Outlet Pro	cess Sam	ple Upstre	am Isol \	valve							
1E12-F060B	M-96-4	C7	2	В	0.75	GL	SO	A	С	С	FS-C	M3			TP-03
											PIT	Y2			
											ST-C	MЗ			
	Valve Name	E	3 RHR H	X Outlet Pro	cess Sam	ple Upstre	am Isol	Valve		•					
1E12-F064A	M-96-1	B5	2	В	4	GA	MO	A	0	O/C	ET	Y2	RV-02	w	
											OMN-C	JOG	RV-02		
											OMN-O	JOG	RV-02		
	Valve Name	,	A RHR F	Pump Min Flo	w Isolatio	n Valve									
1E12-F064B	M-96-2	C3	2	В	4	GA	MO	Α	0	O/C	ET	Y2	RV-02		
						•					OMN-C	JOG	RV-02		
											OMN-O	JOG	RV-02		
	Valve Name	i	B RHR P	ump Min Flo	w Isolatio	n Valve									
1E12-F064C	M-96-3	84	2	В	4	GA	MO	A	0	O/C	ET	Y2	RV-02		
											OMN-C	JOG	RV-02		
											OMN-O	JOG	RV-02		
	Valve Name	. (	C RHR F	Pump Min Flo	w Isolatio	n Valve									
1E12-F068A	M-87-2	B3	3	В	20	GA	MO	A	С	0	ET	M3	RV-02		
									•		OMN-O	JOG	RV-02		
	Valve Name		A RHR H	HX Service W	ater Outle	et Valve									
				B	20	GA	МО	A	С	0	ET	M3	RV-02		
1E12-F068B	M-87-1	F1	3	υ.											
1E12-F068B	M-87-1	F1	3								OMN-O	JOG	RV-02		
1E12-F068B	M-87-1 Valve Name	F1	3 B RHR H	IX Service W	ater Outle	et Valve					OMN-O	JOG	RV-02		
1E12-F068B 1E12-F073A	M-87-1 Vaive Name M-96-4	F1 E3	3 B RHR <del> </del> 2	HX Service W	ater Outle	et Valve GL	MO	P	C	с	OMN-O PIT	JOG Y2	RV-02	·	
1E12-F068B	M-87-1 Valve Name M-96-4 Valve Name	F1 E3	3 B RHR F 2 A RHR F	HX Service W B HX Shell Side	0.75 Ownstre	et Valve GL eam Vent	MO Valve	P	C	C	OMN-O PIT	JOG Y2	RV-02		<u></u>
1E12-F068B 1E12-F073A 1E12-F073B	M-87-1 Valve Name M-96-4 Valve Name M-96-4	F1 E3 E5	3 B RHR F 2 A RHR F 2	HX Service W B HX Shell Side B	0.75 Downstre 0.75	et Valve GL eam Vent GL	MO Valve MO	P	C C	C C	OMN-O PIT PIT	JOG Y2 Y2	RV-02	· · · · · · · · · · · · · · · · · · ·	<u></u>
1E12-F068B 1E12-F073A 1E12-F073B	M-87-1 Vaive Name M-96-4 Vaive Name M-96-4 Vaive Name	F1 E3 E5	3 B RHR H 2 A RHR H 2 B RHR H	IX Service W B IX Shell Side B IX Shell Side	ater Outle 0.75 Downstre 0.75 Downstre	et Valve GL eam Vent GL eam Vent	MO Valve MO Valve	P	C C	C C	OMN-O PIT PIT	JOG Y2 Y2	RV-02		<u></u>
1E12-F068B 1E12-F073A 1E12-F073B 1E12-F074A	M-87-1 Valve Name M-96-4 Valve Name M-96-4 Valve Name M-96-4	E3 E5 E3	3 B RHR H 2 A RHR H 2 B RHR H 2	IX Service W B IX Shell Side B IX Shell Side B	0.75 0.75 0.75 0.75 Downstre 0.75	et Valve GL eam Vent GL eam Vent GL	MO Valve MO Valve MO	P P P	C C C	C C C	OMN-O PIT PIT PIT	JOG Y2 Y2 Y2	RV-02		<u></u>
1E12-F068B 1E12-F073A 1E12-F073B 1E12-F074A	M-87-1 Vaive Name M-96-4 Vaive Name M-96-4 Vaive Name M-96-4 Vaive Name	F1 E3 E5 E3	3 B RHR F 2 A RHR F 2 B RHR F 2 A RHR F	HX Service W B HX Shell Side B HX Shell Side HX Shell Side	ater Outle 0.75 Downstre 0.75 Downstre 0.75	et Valve GL eam Vent GL eam Vent GL n Vent Va	MO Valve MO Valve MO ve	P P P	C C C	c c c	OMN-O PIT PIT PIT	JOG Y2 Y2 Y2	RV-02	· · · · · · · · · · · · · · · · · · ·	<u></u>
1E12-F068B 1E12-F073A 1E12-F073B 1E12-F074A 1E12-F074B	M-87-1 Valve Name M-96-4 Valve Name M-96-4 Valve Name M-96-4 Valve Name M-96-4	E3 E5 E3 E3 E3 E6	3 B RHR H 2 A RHR H 2 B RHR H 2 A RHR H 2	IX Service W B IX Shell Side B IX Shell Side B IX Shell Side B	Vater Outle 0.75 Downstre 0.75 Downstre 0.75 Upstrear 0.75	et Valve GL eam Vent GL eam Vent GL n Vent Va GL	MO Valve MO Valve MO ve MO	P P P	c c c	C C C	OMN-O PIT PIT PIT PIT	JOG Y2 Y2 Y2 Y2	RV-02		<u></u>
1E12-F068B 1E12-F073A 1E12-F073B 1E12-F074A 1E12-F074B	M-87-1 Valve Name M-96-4 Valve Name M-96-4 Valve Name M-96-4 Valve Name M-96-4 Valve Name	F1 E3 E5 E3 E6	3 B RHR H 2 A RHR H 2 B RHR H 2 A RHR H 2 B RHR H	IX Service W B IX Shell Side B IX Shell Side B IX Shell Side	later Outle 0.75 Downstre 0.75 Downstre 0.75 Upstrear 0.75 Upstrear	GL GL GL GL eam Vent GL n Vent Va GL n Vent Va	MO Valve MO Valve MO ve MO ve	P P P	C C C	C C C	OMN-O PIT PIT PIT	JOG Y2 Y2 Y2 Y2	RV-02	· · · · · · · · · · · · · · · · · · ·	
1E12-F068B 1E12-F073A 1E12-F073B 1E12-F074A 1E12-F074B 1E12-F075A	M-87-1 Valve Name M-96-4 Valve Name M-96-4 Valve Name M-96-4 Valve Name M-96-4	F1 E3 E5 E3 E3 E6 C2	3 B RHR H 2 A RHR H 2 B RHR H 2 A RHR H 2 B RHR H 2 2	IX Service W B IX Shell Side B IX Shell Side B IX Shell Side B IX Shell Side	later Outle 0.75 Downstre 0.75 Downstre 0.75 Upstrear 0.75 Upstrear 0.75	et Valve GL eam Vent GL eam Vent GL n Vent Val GL GL	MO Valve MO Valve MO ve MO ve SO	P P P A	с с с с	C C C C	OMN-O PIT PIT PIT FS-C	JOG Y2 Y2 Y2 Y2 Y2 M3	RV-02		  TP-03
1E12-F068B 1E12-F073A 1E12-F073B 1E12-F074A 1E12-F074B 1E12-F075A	M-87-1 Valve Name M-96-4 Valve Name M-96-4 Valve Name M-96-4 Valve Name M-96-4	F1 E3 E5 E3 E6 C2	3 B RHR H 2 A RHR H 2 B RHR H 2 A RHR H 2 B RHR H 2	IX Service W B IX Shell Side B IX Shell Side B IX Shell Side B	later Outle 0.75 Downstre 0.75 Upstrear 0.75 Upstrear 0.75	GL GL GL eam Vent GL n Vent Va GL GL	MO Valve MO Valve MO ve MO ve SO	P P P A	с с с с	c c c c c	OMN-O PIT PIT PIT FS-C PIT	JOG Y2 Y2 Y2 Y2 Y2 M3 Y2	RV-02	· · · · · · · · · · · · · · · · · · ·	TP-03
1E12-F068B 1E12-F073A 1E12-F073B 1E12-F074A 1E12-F074B 1E12-F075A	M-87-1 Valve Name M-96-4 Valve Name M-96-4 Valve Name M-96-4 Valve Name M-96-4	F1 E3 E5 E3 E3 C2	3 B RHR F 2 A RHR F 2 B RHR F 2 B RHR F 2 B RHR F 2	IX Service W B X Shell Side B X Shell Side B X Shell Side B	later Outle 0.75 Downstre 0.75 Downstre 0.75 Upstrear 0.75	et Valve GL eam Vent GL eam Vent GL n Vent Val GL GL	MO Valve MO Valve MO ve MO ve SO	P P P	C C C C	C C C C	OMN-O PIT PIT PIT PIT FS-C PIT ST-C	JOG Y2 Y2 Y2 Y2 Y2 M3 Y2 M3	RV-02		 TP-03

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Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1E12-F075B	M-96-4	C7	2	В	0.75	GL	SO	A	С	С	FS-C	M3			TP-03
											PIT	Y2			÷.,
											ST-C	М3		· .	
	Valve Name	•	B RHR H	IX Outlet Pro	ocess Sam	nple Down	stream Is	ol VIv							
1E12-F084A	M-96-1	B3	2	С	0.75	СК	SA	A	SYS	O/C	CC	· M3		·····	TP-07
											со	MЗ			TP-07
	Valve Name	۱ I	A RHR/L	PCS Water	Leg Pump	A RHR D	sch Cheo	k Valve							
1E12-F084B	M-96-4	E5	2	С	0.75	СК	SA	A	SYS	O/C	CC	MЗ			TP-07
											со	МЗ			TP-07
	Valve Name	ł	B/C RHF	Water Leg	Pump B P	HR Disch	arge Che	ck Valve							
1E12-F084C	M-96-3	A7	2	С	0.75	СК	SA	A	SYS	O/C	CC	M3			TP-07
											со	MЗ			TP-07
	Valve Name	ł	B/C RHF	R Water Leg	Pump C F	RHR Disch	arge Che	ck Valve							
1E12-F088A	M-96-1	A6	2	С	1 x 2	RV	SA	Α	С	O/C	RVT	Y10			
	Valve Name		A RHR F	ump Suction	n Relief Va	alve									
1E12-F088B	M-96-2	B5	2	С	1 x 2	RV	SA	A	С	O/C	RVT	Y10			
	Valve Name	1	B RHR F	ump Suction	n Relief Va	alve				_					:
1E12-F088C	M-96-3	B7	2	С	1 x 2	RV	SA	Α	С	O/C	RVT	Y10			<u>_</u>
	Valve Name	•	C RHR F	Pump Suction	n Relief Va	alve									
1E12-F089	M-96-4	- F5	2	С	4	CK	SA	A	С	O/C	CCD	СМ			CM06
											COD	СМ			CM06
	Valve Name	, 	B RHR F	uel Pool Em	ner Make l	Jp Supply	Testable	Check							
1E12-F092A	M-96-1	D8	1	В	12	GA	М	Р	LO	0	PIT	Y2			
	Valve Name	•	A RHR L	PCI Hdr Ma	nual Stop	Valve							<u>.</u>		
1E12-F092B	M-96-2	E8	1	В	12	GA	М	Р	LO	0	PIT	Y2			
	Valve Name	) 	B RHR L	PCI Header	Manual S	top Valve									
1E12-F092C	M-96-3	5 E8	1	В	12	GA	М	Р	LO	0	PIŢ	Y2		•	
· · · ·	Valve Name	• ·	C RHR L	PCI Header	Manual S	Stop Valve						<u> </u>	· · · ·		
1E12-F093	M-96-4	F4	2	В	4	GA	MO	A	C ·	0/C .	ET	Y2	RV-02		
					,						OMN-C	JOG	RV-02		
											OMN-O	JOG	RV-02		
	Valve Name	) 	B RHR F	uel Pool Em	ner MU Su	ipply Dowi	nstream \	/alve						and the second	
1E12-F094	M-96-4	F3	3	В	4	GA	MO	A	С	O/C	ΕT	Y2	RV-02		
											OMN-C	JOG	RV-02		
											OMN-O	JOG	RV-02		
	Valve Name	•	B RHR F	uel Pool Em	ner MU Su	pply Upsti	ream Valv	/e							

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Residual Heat Removal

Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1E12-F097	M-96-4	F3	2	В	0.75	GL	SO	A	0	С	FS-C	M3			TP-03
											ST-C	М3			
	Valve Name		B RHR F	uel Pool Em	er Make L	Jp Supply	Drain Va	lve							
E12-F099A	M-96-1	C7	1	A	2	GL	MO	A	С	С	EŤ	Y2	RV-02		
											LT	Y2			
											OMN-C	JOG	RV-02		
	Valve Name		A RHR S	DC Return 1	estable C	heck Byp	ass Valve	9							
E12-F099B	M-96-2	C7	1	A	2	GL	МО	A	С	С	ET	Y2	RV-02		
											LT	Y2			
											OMN-C	JOG	RV-02		
	Valve Name		B RHR S	DC Return 1	estable C	heck Byp	ass Valve	÷							
IE12-F311A	M-96-4	D3	2	С	.75 x 1	RV	SA	A	С	O/C	RVT	Y10			TP-08
	Valve Name		A RHR H	leat Exchang	jer Shell S	Side Relief	Valve								
1E12-F311B	M-96-4	D6	2	С	.75 x 1	RV	SA	A	С	O/C	RVT	Y10	<u> </u>	· ·····	• TP-08
	Valve Name		BRHRH	leat Exchang	jer Shell S	Side Relief	Valve								
E12-F313A	M-91-3	C4	3	С	3 x 4	RV	SA	A	С	O/C	RVT	Y10	<u> </u>		
	Valve Name		A RHR H	leat Exchanç	jer Tube S	Side Relie	f Valve								
E12-F313B	M-91-3	C3	3	С	3 x 4	RV	SA	A	С	O/C	RVT	Y10			
	Valve Name	•	B RHR H	leat Exchang	jer Tube S	Side Relie	f Valve								
1E12-F315	M-2096-	4 E2	2	С	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
											со	OP			TP-05, TP- 01
											PIT	Y2			•••
	Valve Name	1	A RHR L	.PCI Inj Line	Integrity E	Excess Flo	w CV								
1E12-F317	M-2096-	4 E6	2	C	0:75	XFC	SA	Α	0	C	CC	· RR		RJ-07	TP-10
											со	OP			TP-05, TP-
															01
											PIT	Y2			
	Valve Name		BRHR	nj Line Integr	ity Excess	s Flow Che	eck Valve			· .	<u> </u>	····.	<u></u>	<u></u>	····
1E12-F319	M-2096-	4 D6	2	С	0.75	XFC	SA	A	0	С	00 00	RR		<b>RJ</b> -07	TP-10
											00	Or			01
				,	·. =	51 01	1.24-4				PIT	Y2			
	Valve Name		CHHRI	nj Line Integi	ity Excess	s Flow Ch	eck valve	) 				·			·
1E12-F331A	M-87-2	B6	3	С	16	CK	SA	A	SYS	O/C	CC	М3			
	Valve Name		A BHB S	Service Wate	r Pumn Di	ischarge (	heck Va	hve			CO	М3			
1E12-E3318	M-87-2	B6		C	16	СК	SA	A	SYS	O/C	00	M3			
	(ii) 07°2	20	0	Ŭ	10		-		0.0	0.0	00	MR			:
	Valve Name	ŀ	B RHR 9	Service Wate	r Pumo Di	ischarge (	heck Val	ve			00				
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	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
E12-F331C	M-87-1	E6	3	С	16	СК	SA	A	SYS	O/C	CC	MЗ			
	Valve Name	C	. פאפ כ	envice Wate	r Pumn Di	scharge (	heck Va	VA			CO	М3			
1F12-F331D	M-87-1	F6	3		16	CK	SA	A	SYS	0/0	CC				
121210010			Ũ	Ũ		U.	0,1		0.0	0.0	CÓ	МЗ			
	Valve Name	C	O RHR S	ervice Wate	r Pump Di	scharge C	heck Va	ve							
1E12-F336A	M-87-2	A5	3	В	4	GA	MO	A	C	0	ST-O	MЗ			
	Valve Name	F	RHR Ser	vice Water S	Strainer Ba	ickwash V	alve								
1E12-F336B	M-87-1	E5	3	В	4	GA	MO	А	С	0	ST-O	M3			
	Valve Name	F	RHR Ser	vice Water S	Strainer Ba	ickwash V	alve								
1E12-F359A	M-2096-5	C5	2	С	0.75	XFC	SA	Α	0	С	CC	RR		RJ-07	TP-10
									•		co.	OP			TP-05, TP- 01
											PIT	Y2			•
	Valve Name	F	AHR SD	C Suct Hdr [	D/p SW 1E	31-N012a	aa Hi Sid	e EFV							
1E12-F359B	M-2096-5	C5	2	С	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
											со	OP			TP-05, TP 01
											PIT	Y2			
	Valve Name	ſ	RHR SD	C Suct Hdr I	D/p SW 1E	31-N012a	aa Lo Sid	e EFV							
1E12-F360A	M-2096-5	5 B5	2	С	0.75	XFC	, SA	Α	0	С	CC	RR		RJ-07	TP-10
											со	OP			TP-05, TP 01
											PIT	Y2			
	Valve Name	J	RHR SD	C Suct Hdr I	D/p SW 16	31-N012	pa Lo Sid	e EFV		<u></u>	PIT	Y2			
1E12-F360B	Valve Name M-2096-5	) 5 B5	RHR SD	C Suct Hdr I	D/p SW 16	31-N012	ba Lo Sid	e EFV	0	C	PIT CC	Y2 RR		RJ-07	TP-10
1E12-F360B	Valve Name M-2096-5	5 B5	RHR SD	C Suct Hdr I	D/p SW 1E	31-N012	ba Lo Sid	e EFV	0	C	PIT CC CO	Y2 RR OP		RJ-07	TP-10 TP-05, TP 01
1E12-F360B	Valve Name M-2096-5	5 B5	RHR SD 2	C Suct Hdr	D/p SW 16 0.75	31-N012I XFC	SA	e EFV A	0	C	PIT CC CO PIT	Y2 RR OP Y2		RJ-07	TP-10 TP-05, TP 01
1E12-F360B	Vaive Name M-2096-5 Valve Name	5 B5	RHR SD 2 RHR SD	C Suct Hdr I C C Suct Hdr I	D/p SW 16 0.75 D/p SW 16	31-N012 XFC	ba Lo Sid SA Da Hi Sid	e EFV A e EFV	0	C	PIT CC CO PIT	Y2 RR OP Y2	<u></u>	RJ-07	TP-10 TP-05, TP 01
1E12-F360B 1E12-F460	Vaive Name M-2096-5 Valve Name M-96-3	5 B5 C7	RHR SD 2 RHR SD 2	C Suct Hdr I C C Suct Hdr I A/C	D/p SW 1E 0.75 D/p SW 1E .75 x 1	31-N012I XFC 31-N012I RV	ba Lo Sic SA Da Hi Sid SA	e EFV A e EFV A	O C	C O/C	PIT CC CO PIT LT-J	Y2 RR OP Y2 AppJ		RJ-07	TP-10 TP-05, TP 01
1E12-F360B 1E12-F460	Valve Name M-2096-5 Valve Name M-96-3	5 B5	RHR SD 2 RHR SD 2	C Suct Hdr   C C Suct Hdr   A/C	D/p SW 1E 0.75 D/p SW 1E .75 x 1	31-N012I XFC 31-N012I RV	Da Lo Sic SA Da Hi Sid SA	e EFV A e EFV A	0 C	C 0/C	PIT CC CO PIT LT-J RVT	Y2 RR OP Y2 AppJ Y10		RJ-07	TP-10 TP-05, TP 01 TP-08
1E12-F360B 1E12-F460	Vaive Name M-2096-5 Valve Name M-96-3 Valve Name	5 B5 C7	RHR SD 2 RHR SD 2 RHR SD	C Suct Hdr I C C Suct Hdr A/C C Suct Hea	D/p SW 1E 0.75 D/p SW 1E .75 x 1 der Cnmi f	31-N012 XFC 31-N012 RV Penetratio	ba Lo Sic SA ba Hi Sid SA n Relief \	e EFV A e EFV A /alve	O C	C O/C	PIT CC CO PIT LT-J RVT	Y2 RR OP Y2 AppJ Y10		RJ-07	TP-10 TP-05, TP 01 TP-08
1E12-F360B 1E12-F460 2E12-F003A	Valve Name M-2096-5 Valve Name M-96-3 Valve Name M-142-4	5 B5 C7	RHR SD 2 RHR SD 2 RHR SD 2	C Suct Hdr I C C Suct Hdr I A/C C Suct Head B	D/p SW 18 0.75 D/p SW 18 .75 x 1 der Cnmi f 18	31-N012l XFC 31-N012l RV Penetratio GA	ba Lo Sic SA ba Hi Sid SA n Relief 1 MO	e EFV A e EFV A /alve A	0 C 0	C 0/C 0	PIT CC CO PIT LT-J RVT ET	Y2 RR OP Y2 AppJ Y10	RV-02	RJ-07	TP-10 TP-05, TP 01 TP-08
1E12-F360B 1E12-F460 2E12-F003A	Valve Name M-2096-5 Valve Name M-96-3 Valve Name M-142-4	5 B5 C7	RHR SD 2 RHR SD 2 RHR SD 2	C Suct Hdr I C C Suct Hdr I A/C C Suct Heat B	D/p SW 16 0.75 D/p SW 16 .75 x 1 der Cnmt f 18	31-N012I XFC 31-N012I RV Penetratio GA	oa Lo Sic SA oa Hi Sid SA n Relief \ MO	e EFV A e EFV A /alve A	0 C	C 0/C 0	PIT CC CO PIT LT-J RVT ET OMN-O	Y2 RR OP Y2 AppJ Y10 Y2 JOG	RV-02 RV-02	RJ-07	TP-10 TP-05, TP 01 TP-08
1E12-F360B 1E12-F460 2E12-F003A	Valve Name M-2096-5 Valve Name M-96-3 Valve Name M-142-4 Valve Name	5 B5 C7 D1	RHR SD 2 RHR SD 2 RHR SD 2 A RHR F	C Suct Hdr I C C Suct Hdr I A/C C Suct Hear B 1X Outlet Va	D/p SW 18 0.75 D/p SW 18 .75 x 1 der Cnmi f 18 Ne	31-N012l XFC 31-N012l RV Penetratio GA	ba Lo Sic SA ba Hi Sid SA n Relief \ MO	e EFV A e EFV A /alve A	0 C 0	C 0/C 0	PIT CC CO PIT LT-J RVT ET OMN-O	Y2 RR OP Y2 AppJ Y10 Y2 JOG	RV-02 RV-02	RJ-07	TP-10 TP-05, TP 01 TP-08
1E12-F360B 1E12-F460 2E12-F003A 2E12-F003B	Valve Name M-2096-5 Valve Name M-96-3 Valve Name M-142-4 Valve Name M-142-4	5 B5 C7 D1 D8	RHR SD 2 RHR SD 2 RHR SD 2 A RHR F 2	C Suct Hdr I C C Suct Hdr I A/C C Suct Head B 4X Outlet Va B	D/p SW 18 0.75 D/p SW 18 .75 x 1 der Cnmi F 18 Ive 18	31-N012l XFC 31-N012l RV Penetratio GA	ba Lo Sic SA ba Hi Sid SA n Relief \ MO	e EFV A e EFV A /alve A	0 C 0 0	C 0/C 0	PIT CC CO PIT LT-J RVT ET OMN-O ET	Y2 RR OP Y2 AppJ Y10 Y2 JOG	RV-02 RV-02 RV-02 RV-02 RV-02	RJ-07	TP-10 TP-05, TP 01 TP-08

**Residual Heat Removal** 

**Revision Date:** 

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Residual	Heat	Remova
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P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
M-142-1	A7	2	В	24	GA	мо	A	0	O/C	ET	Y2	RV-02		
										OMN-C	JOG	RV-02		
										OMN-O	JOG	RV-02		
Valve Name	,	A RHR P	ump Sup Po	ol Suct Is	ol Valve						•			
M-142-2	B7	2	В	24	GA	MO	A	0	O/C	ET	Y2	RV-02		
										OMN-C	JOG	RV-02		
										OMN-O	JOG	RV-02		
Valve Name	1	3 RHR P	ump Sup Po	ol Suct Is	ol Valve									
M-142-3	B7	2	<b>B</b> ·	24	GA	МО	A	0	O/C	ET	Y2	RV-02		
										OMN-C	JOG	RV-02		
					•					OMN-O	JOG	RV-02		
Valve Name	(	C RHR F	ump Sup Po	ol Suct Is	ol Valve									
M-142-3	C5	2	С	1 x 2	RV	SA	Α	С	O/C	RVT	Y10		· <u>,,</u>	
Valve Name	i	RHR SD	C Suction He	ader Reli	ef Valve									
M-142-1	A6	2	В	18	GA	МО	A	С	С	ΕT	Y2	RV-02		
										OMN-C	JOG	RV-02		
Valve Name		A RHR P	ump SDC Si	uct Valve				• .						
M-142-2	B6	2	В	18	GA	МО	A	C	С	ET	Y2	RV-02		
										OMN-C	JOG	RV-02		
Valve Name	I	B RHR P	ump SDC S	uct Valve										
M-142-3	D6	1	A	20	GA	МО	A	С	С	ET	Y2	RV-02	·····	
										LT-J	AppJ			
										LT-S	Y2			
										OMN-C	JOG	RV-02		
Valve Name	i	RHR SD	C Suction He	eader Out	board Isol	ation Val	/e							
M-142-3	D7	1	A	20	GA	MO	A	С	С	ET	Y2	RV-02		. <u> </u>
										LT-J	AppJ			
										LT-S	Y2			
										OMN-C	JOG	RV-02		
Valve Name	1	RHR SD	C Suction He	eader Inbo	oard Isolat	ion Valve								
M-142-1	E6	2	A	16	GA	мо	A	С	С	ET	Y2	RV-02		
										LT-J	AppJ			
										OMN-C	JOG	RV-02		
Valve Name		A RHR C	Containment I	Spray Ups	stream Iso	lation Va	lve							
M-142-2	F5	2	A	16	GA	МО	A	C	С	ET	Y2	RV-02		
										LT-J	AppJ	•		
										OMN-C	JOG	BV-02		
	P&ID M-142-1 Valve Name M-142-2 Valve Name M-142-3 Valve Name M-142-3 Valve Name M-142-2 Valve Name M-142-3 Valve Name M-142-3 Valve Name M-142-3 Valve Name M-142-3	P&ID         P&ID           M-142-1         A7           Valve Name         M           M-142-2         B7           Valve Name         M           M-142-3         D5           Valve Name         M           M-142-3         D6           Valve Name         M           M-142-3         D7           Valve Name         M           M-142-3         F5	P&ID         P&ID         Code           M-142-1         A7         2           Valve Name         A RHR P           M-142-2         B7         2           Valve Name         B RHR P           M-142-3         B7         2           Valve Name         C RHR P           M-142-3         B7         2           Valve Name         C RHR P           M-142-3         C5         2           Valve Name         C RHR P           M-142-3         C5         2           Valve Name         A RHR P           M-142-3         D6         1           M-142-3         D6         1           Valve Name         RHR SD           M-142-3         D7         1           Valve Name         A RHR SD <th< td=""><td>P&amp;IDP&amp;IDCodeIST ClassIST CategoryM-142-1A72BValve NameA RHR Pump Sup PoM-142-2B72BValve NameB RHR Pump Sup PoM-142-3B72BValve NameC RHR Pump Sup PoM-142-3C52CValve NameRHR SDC Suction HeM-142-1A62BValve NameA RHR Pump SDC SiM-142-2B62BValve NameB RHR Pump SDC SiM-142-3D61AValve NameRHR SDC Suction HeM-142-3D71AValve NameRHR SDC Suction HeM-142-3D71AValve NameRHR SDC Suction HeM-142-3D71AValve NameRHR SDC Suction HeM-142-1E62AValve NameA RHR ContainmentM-142-2F52A</td><td>P&amp;IDP&amp;IDCode ClassIST CategoryValve SizeM-142-1A72B24Valve NameA RHR Pump Sup Pool Suct Ist B72B24Valve NameB RHR Pump Sup Pool Suct Ist M-142-3B72B24Valve NameC RHR Pump Sup Pool Suct Ist M-142-3B72B24Valve NameC RHR Pump Sup Pool Suct Ist M-142-3B72C1 x 2Valve NameC RHR Pump Sup Pool Suct Ist M-142-1A62B18Valve NameA RHR Pump SDC Suct Valve M-142-2B62B18Valve NameB RHR Pump SDC Suct Valve M-142-3B RHR Pump SDC Suct Valve D61A20Valve NameRHR SDC Suction Header Out M-142-3RHR SDC Suction Header Out AA20Valve NameRHR SDC Suction Header Indo M-142-3A16Valve NameRHR SDC Suction Header Indo AAAM-142-3D71A20Valve NameRHR SDC Suction Header Indo AAAM-142-1E62A16Valve NameA RHR Containment Spray UppM-142-2F52A16</td><td>P&amp;IDP&amp;IDCodeIST ClassValve CategoryValve SizeValve TypeM-142-1A72B24GAValve NameA RHR Pump Sup Pool Suct Isol ValveM.142-2B72B24GAValve NameB RHR Pump Sup Pool Suct Isol ValveM.142-3B72B24GAValve NameC RHR Pump Sup Pool Suct Isol ValveM-142-3B72B24GAValve NameC RHR Pump Sup Pool Suct Isol ValveM-142-3C52C1 x.2RVValve NameA RHR Dump SDC Suct Isol ValveM-142-1A62B18GAValve NameA RHR Pump SDC Suct ValveM-142-3D61A20GAValve NameB RHR Pump SDC Suct ValveM-142-3D71A20GAValve NameRHR SDC Suction Header Inboard IsolatiM-142-3D71A20GAValve NameRHR SDC Suction Header Inboard IsolatiM-142-3D71A20GAM-142-1E62A16GAValve NameA RHR Containment Spray Upstream IsoM-142-2F52A16GA</td><td>P&amp;IDP&amp;IDCodeIST ClassValve SizeValve TypeACT. TypeM-142-1A72B24GAMOValve NameA RHR Pump Sup Pool Suct Isol ValveACT. MOValve NameB RHR Pump Sup Pool Suct Isol ValveMOValve NameB RHR Pump Sup Pool Suct Isol ValveMOValve NameC RHR Pump Sup Pool Suct Isol ValveMOValve NameC RHR Pump Sup Pool Suct Isol ValveMOValve NameC RHR Pump Sup Pool Suct Isol ValveSAValve NameRHR SDC Suction Header Relief ValveMOValve NameA RHR Pump SDC Suct ValveMOValve NameB RHR SDC Suction Header Outboard Isolation ValveM-142-3D71A20Valve NameRHR SDC Suction Header Inboard Isolation ValveM-142-3D71A20Valve NameRHR SDC Suction Header Inboard Isolation ValveM-142-1E62A16Valve NameA RHR Containment Spray Upstream Isolation ValveM-142-2F52A16Valve NameA RHR Containment Spray Upstream Isolation Valve</td><td>P&amp;ID         P&amp;ID         Code         IST         Valve         Valve         ACT.         Active / Type         Active / Passive           M-142-1         A7         2         B         24         GA         MO         A           Valve Name         A RHR Pump Sup Pool Suct Isol Valve           ACT.         Active / Passive           M-142-2         B7         2         B         24         GA         MO         A           Valve Name         B RHR Pump Sup Pool Suct Isol Valve           ACT.         Active / Passive           M-142-3         B7         2         B         24         GA         MO         A           Valve Name         C RHR Pump Sup Pool Suct Isol Valve           A         A           M-142-3         C5         2         C         1 x 2         RV         SA         A           Valve Name         C RHR Dump SDC Suct Valve           A         A         A           M-142-3         D6         1         A         20         GA         MO         A           Valve Name         B RHR Pump SDC Suct Valve           A         A</td><td>P&amp;ID         P&amp;ID         Code         IST         Value         Value         ACT., Active / Passive         Normal Position           M:142:1         A7         2         B         24         GA         MO         A         O           Walve Name         A RHR Pump Sup Pool Suct Isol Valve           A         O           Walve Name         B RHR Pump Sup Pool Suct Isol Valve           A         O           Valve Name         B RHR Pump Sup Pool Suct Isol Valve          A         O           Walve Name         B RHR Pump Sup Pool Suct Isol Valve          A         O           Walve Name         C RHR Pump Sup Pool Suct Isol Valve           A         O           Walve Name         C RHR Pump Sup Pool Suct Isol Valve           A         O           M:142:3         C5         2         C         1x2         RV         SA         A         C           Valve Name         A RHR Pump SDC Suct Valve             C           M:142:2         B6         2         B         18         GA         MO         A         C           Valve Na</td><td>P&amp;ID         Code         IST         Valve         Yalve         ACT.         Active /         Normal         Safety opsition           M-142-1         A7         2         B         24         GA         MO         A         O         OC           Walve Name         A RHR Pump Sup Pool Suct Isol Valve        </td><td>PAID         PAID         Code         IST         Valve         Yave         Yave         Passive         Position         Safety         Test           M-142-1         A7         2         B         24         GA         MO         A         O         OC         ET         OMN-C           M-142-1         A7         2         B         24         GA         MO         A         O         OIC         ET         OMN-C           Valve Name         A RHR Pump Sup Pool Suct Isol Valve         Valve         GA         MO         A         O         O/C         ET           M-142-2         B7         2         B         24         GA         MO         A         O         O/C         ET           M-142-3         B7         2         B         24         GA         MO         A         O         O/C         ET         OMN-C         C         ET         OMN-C         OMN-C         OMN-C         <td< td=""><td>PAID         PAID         Code         IST         Valve         Yape         Yape         Pasive         Position         Safety         Test         Free,           M-142-1         A7         2         B         24         GA         MO         A         O         OC         ET         Y2           M-142-1         A7         2         B         24         GA         MO         A         O         OC         ET         Y2           M-142-2         B7         2         B         24         GA         MO         A         O         OIC         ET         Y2           M-142-2         B7         2         B         24         GA         MO         A         O         OIC         ET         Y2           M-142-3         B7         2         B         24         GA         MO         A         O         OIC         ET         Y2           M-142-3         B7         2         C         1X2         RV         SA         A         C         OIC         RVT         Y10           Valve Name         C RHR Pump Sup Pool Suct Isol Valve         SA         A         C         C         ET</td></td<><td>PAIDPAIDCaseistr CasesValve SizeValve TypeActive / TypeNormal PassiveSequet PositionRequiFree RequeetM-142:1A72B24GAMOAOO/CETY2RV-32M-142:1A72B24GAMOAOO/CETY2RV-32Valve NameA RHR Pump Sup Pool Suct Isol ValveKKKKO/CETY2RV-32Valve NameB RHR Pump Sup Pool Suct Isol ValveKKKO/CETY2RV-32Valve NameB RHR Pump Sup Pool Suct Isol ValveKKKO/CETY2RV-32Valve NameC RHR Pump Sup Pool Suct Isol ValveKKKO/CETY2RV-32Valve NameC RHR Pump Sup Pool Suct Isol ValveKKAOO/CETY2RV-32Valve NameC RHR Pump Sup Sup Pool Suct Isol ValveKKKCETY2RV-32Valve NameR RHR SUC Suction Header Relief ValveKKKCETY2RV-32Valve NameB RHR Pump SDC Suct ValveKKKCETY2RV-32Valve NameB RHR Pump SDC Suct ValveKKKCETY2RV-32Valve NameB RHR Pump SDC Suct ValveKKKKCETY2RV-32&lt;</td><td>PAID         Code         IST         Valve Valve         ACT. Type         Active / Position         Safety         Test         Request         Deviced Just.           M:142:1         A7         2         B         24         GA         MO         A         O         OIC         ET         Y2         RV-02           M:142:1         A7         2         B         24         GA         MO         A         O         OIC         ET         Y2         RV-02           Valve Name         A RHR PUmp Sup Pool Suct Isol Valve          K         A         C         O/MO         OG         RV-02           Valve Name         B RHR Pump Sup Pool Suct Isol Valve         K         K         A         O         O/C         ET         Y2         RV-02           Valve Name         B RHR Pump Sup Pool Suct Isol Valve         K         K         A         O         O/C         ET         Y2         RV-02           Valve Name         C RHR Pump Sup Pool Suct Isol Valve         K         K         A         C         O/C         ET         Y2         RV-02           Valve Name         A RHR Pump Sup Soc Suct Valve         K         K         M         A         C</td></td></th<>	P&IDP&IDCodeIST ClassIST CategoryM-142-1A72BValve NameA RHR Pump Sup PoM-142-2B72BValve NameB RHR Pump Sup PoM-142-3B72BValve NameC RHR Pump Sup PoM-142-3C52CValve NameRHR SDC Suction HeM-142-1A62BValve NameA RHR Pump SDC SiM-142-2B62BValve NameB RHR Pump SDC SiM-142-3D61AValve NameRHR SDC Suction HeM-142-3D71AValve NameRHR SDC Suction HeM-142-3D71AValve NameRHR SDC Suction HeM-142-3D71AValve NameRHR SDC Suction HeM-142-1E62AValve NameA RHR ContainmentM-142-2F52A	P&IDP&IDCode ClassIST CategoryValve SizeM-142-1A72B24Valve NameA RHR Pump Sup Pool Suct Ist B72B24Valve NameB RHR Pump Sup Pool Suct Ist M-142-3B72B24Valve NameC RHR Pump Sup Pool Suct Ist M-142-3B72B24Valve NameC RHR Pump Sup Pool Suct Ist M-142-3B72C1 x 2Valve NameC RHR Pump Sup Pool Suct Ist M-142-1A62B18Valve NameA RHR Pump SDC Suct Valve M-142-2B62B18Valve NameB RHR Pump SDC Suct Valve M-142-3B RHR Pump SDC Suct Valve D61A20Valve NameRHR SDC Suction Header Out M-142-3RHR SDC Suction Header Out AA20Valve NameRHR SDC Suction Header Indo M-142-3A16Valve NameRHR SDC Suction Header Indo AAAM-142-3D71A20Valve NameRHR SDC Suction Header Indo AAAM-142-1E62A16Valve NameA RHR Containment Spray UppM-142-2F52A16	P&IDP&IDCodeIST ClassValve CategoryValve SizeValve TypeM-142-1A72B24GAValve NameA RHR Pump Sup Pool Suct Isol ValveM.142-2B72B24GAValve NameB RHR Pump Sup Pool Suct Isol ValveM.142-3B72B24GAValve NameC RHR Pump Sup Pool Suct Isol ValveM-142-3B72B24GAValve NameC RHR Pump Sup Pool Suct Isol ValveM-142-3C52C1 x.2RVValve NameA RHR Dump SDC Suct Isol ValveM-142-1A62B18GAValve NameA RHR Pump SDC Suct ValveM-142-3D61A20GAValve NameB RHR Pump SDC Suct ValveM-142-3D71A20GAValve NameRHR SDC Suction Header Inboard IsolatiM-142-3D71A20GAValve NameRHR SDC Suction Header Inboard IsolatiM-142-3D71A20GAM-142-1E62A16GAValve NameA RHR Containment Spray Upstream IsoM-142-2F52A16GA	P&IDP&IDCodeIST ClassValve SizeValve TypeACT. TypeM-142-1A72B24GAMOValve NameA RHR Pump Sup Pool Suct Isol ValveACT. MOValve NameB RHR Pump Sup Pool Suct Isol ValveMOValve NameB RHR Pump Sup Pool Suct Isol ValveMOValve NameC RHR Pump Sup Pool Suct Isol ValveMOValve NameC RHR Pump Sup Pool Suct Isol ValveMOValve NameC RHR Pump Sup Pool Suct Isol ValveSAValve NameRHR SDC Suction Header Relief ValveMOValve NameA RHR Pump SDC Suct ValveMOValve NameB RHR SDC Suction Header Outboard Isolation ValveM-142-3D71A20Valve NameRHR SDC Suction Header Inboard Isolation ValveM-142-3D71A20Valve NameRHR SDC Suction Header Inboard Isolation ValveM-142-1E62A16Valve NameA RHR Containment Spray Upstream Isolation ValveM-142-2F52A16Valve NameA RHR Containment Spray Upstream Isolation Valve	P&ID         P&ID         Code         IST         Valve         Valve         ACT.         Active / Type         Active / Passive           M-142-1         A7         2         B         24         GA         MO         A           Valve Name         A RHR Pump Sup Pool Suct Isol Valve           ACT.         Active / Passive           M-142-2         B7         2         B         24         GA         MO         A           Valve Name         B RHR Pump Sup Pool Suct Isol Valve           ACT.         Active / Passive           M-142-3         B7         2         B         24         GA         MO         A           Valve Name         C RHR Pump Sup Pool Suct Isol Valve           A         A           M-142-3         C5         2         C         1 x 2         RV         SA         A           Valve Name         C RHR Dump SDC Suct Valve           A         A         A           M-142-3         D6         1         A         20         GA         MO         A           Valve Name         B RHR Pump SDC Suct Valve           A         A	P&ID         P&ID         Code         IST         Value         Value         ACT., Active / Passive         Normal Position           M:142:1         A7         2         B         24         GA         MO         A         O           Walve Name         A RHR Pump Sup Pool Suct Isol Valve           A         O           Walve Name         B RHR Pump Sup Pool Suct Isol Valve           A         O           Valve Name         B RHR Pump Sup Pool Suct Isol Valve          A         O           Walve Name         B RHR Pump Sup Pool Suct Isol Valve          A         O           Walve Name         C RHR Pump Sup Pool Suct Isol Valve           A         O           Walve Name         C RHR Pump Sup Pool Suct Isol Valve           A         O           M:142:3         C5         2         C         1x2         RV         SA         A         C           Valve Name         A RHR Pump SDC Suct Valve             C           M:142:2         B6         2         B         18         GA         MO         A         C           Valve Na	P&ID         Code         IST         Valve         Yalve         ACT.         Active /         Normal         Safety opsition           M-142-1         A7         2         B         24         GA         MO         A         O         OC           Walve Name         A RHR Pump Sup Pool Suct Isol Valve	PAID         PAID         Code         IST         Valve         Yave         Yave         Passive         Position         Safety         Test           M-142-1         A7         2         B         24         GA         MO         A         O         OC         ET         OMN-C           M-142-1         A7         2         B         24         GA         MO         A         O         OIC         ET         OMN-C           Valve Name         A RHR Pump Sup Pool Suct Isol Valve         Valve         GA         MO         A         O         O/C         ET           M-142-2         B7         2         B         24         GA         MO         A         O         O/C         ET           M-142-3         B7         2         B         24         GA         MO         A         O         O/C         ET         OMN-C         C         ET         OMN-C         OMN-C         OMN-C <td< td=""><td>PAID         PAID         Code         IST         Valve         Yape         Yape         Pasive         Position         Safety         Test         Free,           M-142-1         A7         2         B         24         GA         MO         A         O         OC         ET         Y2           M-142-1         A7         2         B         24         GA         MO         A         O         OC         ET         Y2           M-142-2         B7         2         B         24         GA         MO         A         O         OIC         ET         Y2           M-142-2         B7         2         B         24         GA         MO         A         O         OIC         ET         Y2           M-142-3         B7         2         B         24         GA         MO         A         O         OIC         ET         Y2           M-142-3         B7         2         C         1X2         RV         SA         A         C         OIC         RVT         Y10           Valve Name         C RHR Pump Sup Pool Suct Isol Valve         SA         A         C         C         ET</td></td<> <td>PAIDPAIDCaseistr CasesValve SizeValve TypeActive / TypeNormal PassiveSequet PositionRequiFree RequeetM-142:1A72B24GAMOAOO/CETY2RV-32M-142:1A72B24GAMOAOO/CETY2RV-32Valve NameA RHR Pump Sup Pool Suct Isol ValveKKKKO/CETY2RV-32Valve NameB RHR Pump Sup Pool Suct Isol ValveKKKO/CETY2RV-32Valve NameB RHR Pump Sup Pool Suct Isol ValveKKKO/CETY2RV-32Valve NameC RHR Pump Sup Pool Suct Isol ValveKKKO/CETY2RV-32Valve NameC RHR Pump Sup Pool Suct Isol ValveKKAOO/CETY2RV-32Valve NameC RHR Pump Sup Sup Pool Suct Isol ValveKKKCETY2RV-32Valve NameR RHR SUC Suction Header Relief ValveKKKCETY2RV-32Valve NameB RHR Pump SDC Suct ValveKKKCETY2RV-32Valve NameB RHR Pump SDC Suct ValveKKKCETY2RV-32Valve NameB RHR Pump SDC Suct ValveKKKKCETY2RV-32&lt;</td> <td>PAID         Code         IST         Valve Valve         ACT. Type         Active / Position         Safety         Test         Request         Deviced Just.           M:142:1         A7         2         B         24         GA         MO         A         O         OIC         ET         Y2         RV-02           M:142:1         A7         2         B         24         GA         MO         A         O         OIC         ET         Y2         RV-02           Valve Name         A RHR PUmp Sup Pool Suct Isol Valve          K         A         C         O/MO         OG         RV-02           Valve Name         B RHR Pump Sup Pool Suct Isol Valve         K         K         A         O         O/C         ET         Y2         RV-02           Valve Name         B RHR Pump Sup Pool Suct Isol Valve         K         K         A         O         O/C         ET         Y2         RV-02           Valve Name         C RHR Pump Sup Pool Suct Isol Valve         K         K         A         C         O/C         ET         Y2         RV-02           Valve Name         A RHR Pump Sup Soc Suct Valve         K         K         M         A         C</td>	PAID         PAID         Code         IST         Valve         Yape         Yape         Pasive         Position         Safety         Test         Free,           M-142-1         A7         2         B         24         GA         MO         A         O         OC         ET         Y2           M-142-1         A7         2         B         24         GA         MO         A         O         OC         ET         Y2           M-142-2         B7         2         B         24         GA         MO         A         O         OIC         ET         Y2           M-142-2         B7         2         B         24         GA         MO         A         O         OIC         ET         Y2           M-142-3         B7         2         B         24         GA         MO         A         O         OIC         ET         Y2           M-142-3         B7         2         C         1X2         RV         SA         A         C         OIC         RVT         Y10           Valve Name         C RHR Pump Sup Pool Suct Isol Valve         SA         A         C         C         ET	PAIDPAIDCaseistr CasesValve SizeValve TypeActive / TypeNormal PassiveSequet PositionRequiFree RequeetM-142:1A72B24GAMOAOO/CETY2RV-32M-142:1A72B24GAMOAOO/CETY2RV-32Valve NameA RHR Pump Sup Pool Suct Isol ValveKKKKO/CETY2RV-32Valve NameB RHR Pump Sup Pool Suct Isol ValveKKKO/CETY2RV-32Valve NameB RHR Pump Sup Pool Suct Isol ValveKKKO/CETY2RV-32Valve NameC RHR Pump Sup Pool Suct Isol ValveKKKO/CETY2RV-32Valve NameC RHR Pump Sup Pool Suct Isol ValveKKAOO/CETY2RV-32Valve NameC RHR Pump Sup Sup Pool Suct Isol ValveKKKCETY2RV-32Valve NameR RHR SUC Suction Header Relief ValveKKKCETY2RV-32Valve NameB RHR Pump SDC Suct ValveKKKCETY2RV-32Valve NameB RHR Pump SDC Suct ValveKKKCETY2RV-32Valve NameB RHR Pump SDC Suct ValveKKKKCETY2RV-32<	PAID         Code         IST         Valve Valve         ACT. Type         Active / Position         Safety         Test         Request         Deviced Just.           M:142:1         A7         2         B         24         GA         MO         A         O         OIC         ET         Y2         RV-02           M:142:1         A7         2         B         24         GA         MO         A         O         OIC         ET         Y2         RV-02           Valve Name         A RHR PUmp Sup Pool Suct Isol Valve          K         A         C         O/MO         OG         RV-02           Valve Name         B RHR Pump Sup Pool Suct Isol Valve         K         K         A         O         O/C         ET         Y2         RV-02           Valve Name         B RHR Pump Sup Pool Suct Isol Valve         K         K         A         O         O/C         ET         Y2         RV-02           Valve Name         C RHR Pump Sup Pool Suct Isol Valve         K         K         A         C         O/C         ET         Y2         RV-02           Valve Name         A RHR Pump Sup Soc Suct Valve         K         K         M         A         C

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Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2E12-F017A	M-142-1	E6	2	A	16	GA	MO	A	С	С	ET	Y2	RV-02		<del>مرين کا انساني (ار</del>
											LT-J	Аррј			
											OMN-C	JOG	RV-02		
	Valve Name	,	A RHR C	ontainment	Spray Dov	vnstream	Isolation	Valve							
2E12-F017B	M-142-2	F6	2	A	16	GA	MO	A	С	С	ET	Y2	RV-02		- <b></b>
											LT-J	AppJ			
											OMN-C	JOG	RV-02		
	Valve Name	l	B RHR C	Containment	Spray Dov	vnstream	Isolation	Valve							
2E12-F021	M-142-3	F5	2	В	18	GL	МО	Α	С	С	ET	¥2	RV-02	<u> </u>	
											OMN-C	JOG	RV-02		
	Valve Name		C RHR F	ump Full Fl	ow Test Iso	plation Va	lve								
2E12-F023	M-142-1	F6	1	A	6	GL	MO	A	С	С	ET	Y2	RV-02		
											LT-J	AppJ			
											OMN-C	JOG	RV-02		
	Valve Name		A RHR F	Ix Head Spr	ay Outboa	rd Isolatio	n Valve								
2E12-F024A	M-142-1	D2	2	В	18	GL	MO	A	С	O/C	ET	Y2	RV-02		
											OMN-C	JOG	RV-02	•	
											OMN-O	JOG	RV-02		
	Valve Name		A RHR F	ump Full Fl	ow Test Iso	plation Va	ive								
2E12-F024B	M-142-2	2 E2	2	В	18	GL	МО	A	С	O/C	ET	Y2	RV-02		
	a.							·			OMN-C	JOG	RV-02		
											OMN-O	JOG	RV-02		
	Valve Name		B RHR F	ump Full Fl	ow Test Iso	plation Va	lve								
2E12-F025A	M-142-1	E3	2	С	1 x 2	RV	SA	A	С	O/C	RVT	Y10			
	Valve Name		A RHR F	Pump Discha	arge Relief	Valve									
2E12-F025B	M-142-2	2 D5	2	С	1 x 2	RV	SA	A	С	O/C	RVT	Y10			
	Valve Name		B RHR F	Pump Discha	arge Relief	Valve									
2E12-F025C	M-142-3	3C2	2	<b>C</b>	1 x 2	RV	SA	Ą.	C	O/C	RVT	Y10	· .		
· · · · · ·	Valve Name		C RHR F	Pump Discha	arge Relief	Valve									
2E12-F027A	M-142-1	I C5	2	В	4	GA	МО	А	С	O/C	ET	Y2	RV-02		
											OMN-C	JOG	RV-02		
											OMN-O	JOG	RV-02		
	Valve Name		A RHR S	Sup Chbr Sp	ray Isol Va	lve		•							
2E12-F027B	M-142-2	2 C4	2	В	4	GA	МО	A	С	Q/C	ET	Y2	RV-02		
											OMN-C	JOG	RV-02		
											OMN-O	JOG	RV-02		
	Valve Name	•	B RHR S	Sup Chbr Sp	ray Isol Va	lve									

**Residual Heat Removal** 

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#### LaSalle Station IST PROGRAM PLAN

#### **Residual Heat Removal**

	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passíve	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2E12-F031A	M-142-1	A4	2	с	18	СК	SA	A	SYS	O/C	сс	MЗ			
	Valve Name	ļ	A RHR P	ump Discha	rge Check	Valve					CO	M3			
E12-F031B	M-142-2	B3	2	С	18	СК	SA	A	SYS	O/C	CC	M3	ĸ		
											CO	MЗ			
	Valve Name	E	3 RHR P	ump Discha	rge Check	Valve									
2E12-F031C	M-142-3	B4	2	С	18	СК	SA	A	SYS	O/C	CC	M3			
											со	МЗ			
	Valve Name	(	C RHR P	ump Discha	rge Check	Valve									
E12-F036A	M-147-2	C6	2	С	4 x 6	RV	SA	A	С	O/C	RVT	Y10			
	Valve Name	,	A RHR H	X Steam Co	ndensing	RCIC Rtri	n Hdr Rel	ief Vlv							
2E12-F036B	M-147-2	B3	2	С	4 x 6	RV	SA	A	С	O/C	RVT	Y10			
	Valve Name	E	3 RHR H	X Steam Co	ndensing	RCIC Rtrr	n Hdr Rel	ief VIv							
2E12-F040A	M-142-4	C1	2	В	3	GL	MO	A	С	С	ET	Y2	RV-02		
											OMN-C	JOG	RV-02		
	Valve Name	,	A RHR H	X Blowdowr	Downstre	eam Isolat	tion Valve	•							
2E12-F040B	M-142-4	C8	2	B	3	GL	MO	A	С	С	ET	Y2	RV-02		
											OMN-C	JOG	RV-02		
	Valve Name	I	B RHR H	X Blowdowr	Downstr	eam Isolat	tion Valve	<del>)</del>							
2E12-F041A	M-142-1	D7	1	A/C	12	СК	SA	A	SYS	O/C	CC	CS		CS-17	
											со	cs		CS-17	
											LT-S	Y2			
	Valve Name		A RHR L	PCI Check \	/alve						LT-S	Y2			
2E12-F041B	Valve Name M-142-2	E7	A RHR L	PCI Check \ A/C	/alve 12	СК	SA	A	SYS	O/C	LT-S CC	Y2 CS		CS-17	
2E12-F041B	Valve Name M-142-2	E7	A RHR L	PCI Check \ A/C	/alve 12	СК	SA	A	SYS	O/C	LT-S CC CO	Y2 CS CS	<u>.</u>	CS-17 CS-17	
2E12-F041B	Valve Name M-142-2	E7	A RHR L	PCI Check \ A/C	/alve 12	СК	SA	A	SYS	O/C	LT-S CC CO LT-S	Y2 CS CS Y2	<u>.</u>	CS-17 CS-17	
2E12-F041B	Valve Name M-142-2 Valve Name	E7	A RHR L 1 B RHR L	PCI Check \ A/C PCI Check \	/alve 12 /alve	СК	SA	A	SYS	O/C	LT-S CC CO LT-S	Y2 CS CS Y2		CS-17 CS-17	- <u></u>
2E12-F041B 2E12-F041C	Valve Name M-142-2 Valve Name M-142-3	E7	A RHR L 1 B RHR L 1	PCI Check \ A/C PCI Check \ A/C	/alve 12 /alve 12	СК	SA	A	SYS	O/C	LT-S CC CO LT-S CC	Y2 CS CS Y2 CS		CS-17 CS-17 CS-17	
2E12-F041B 2E12-F041C	Valve Name M-142-2 Valve Name M-142-3	: E7	A RHR L 1 B RHR L 1	PCI Check \ A/C PCI Check \ A/C	/alve 12 /alve 12	СК	SA SA	A	SYS	0/C 0/C	LT-S CC CO LT-S CC CO	Y2 CS CS Y2 CS CS		CS-17 CS-17 CS-17 CS-17	
2E12-F041B 2E12-F041C	Valve Name M-142-2 Valve Name M-142-3	E7	A RHR L 1 3 RHR L 1	PCI Check \ A/C PCI Check \ A/C	/alve 12 /alve 12	СК	SA SA	A	SYS	O/C O/C	LT-S CC CO LT-S CC CO LT-S	Y2 CS CS Y2 CS CS Y2		CS-17 CS-17 CS-17 CS-17	
2E12-F041B 2E12-F041C	Valve Name M-142-2 Valve Name M-142-3 Valve Name	E7	A RHR L B RHR L 1 C RHR L	PCI Check \ A/C PCI Check \ A/C PCI Check \	/alve 12 /alve 12 /alve	СК	SA SA	A	SYS	0/C 0/C	LT-S CC CO LT-S CC CO LT-S	Y2 CS CS Y2 CS CS Y2	- <u>.</u>	CS-17 CS-17 CS-17 CS-17	
2E12-F041B 2E12-F041C 2E12-F041C	Valve Name M-142-2 Valve Name M-142-3 Valve Name M-142-1	E7	A RHR L 1 B RHR L 1 C RHR L 1	PCI Check \ A/C PCI Check \ A/C PCI Check \ A	/alve 12 /alve 12 /alve 12	CK CK GA	SA SA MO	A	SYS SYS C	O/C O/C	LT-S CC CO LT-S CC CO LT-S ET	Y2 CS CS Y2 CS CS Y2 Y2	RV-02	CS-17 CS-17 CS-17 CS-17	
2E12-F041B 2E12-F041C 2E12-F042A	Valve Name M-142-2 Valve Name M-142-3 Valve Name M-142-1	E7	A RHR L 1 B RHR L 1 C RHR L 1	PCI Check \ A/C PCI Check \ A/C PCI Check \ A	/alve 12 /alve 12 /alve 12	CK CK GA	SA SA MO	A	SYS SYS C	0/C 0/C 0/C	LT-S CC CO LT-S CC CO LT-S ET LT-J	Y2 CS CS Y2 CS CS Y2 Y2 Y2 AppJ	RV-02	CS-17 CS-17 CS-17 CS-17	
2E12-F041B 2E12-F041C 2E12-F042A	Valve Name M-142-2 Valve Name M-142-3 Valve Name M-142-1	E7 E7 D5	A RHR L 3 RHR L 1 C RHR L 1	PCI Check \ A/C PCI Check \ A/C PCI Check \ A	/alve 12 /alve 12 /alve 12	CK CK GA	SA SA MO	A	SYS SYS C	0/C 0/C 0/C	LT-S CC CO LT-S CC CO LT-S ET LT-J LT-J LT-S	Y2 CS CS Y2 CS CS Y2 Y2 Y2 AppJ Y2	RV-02	CS-17 CS-17 CS-17 CS-17	
2E12-F041B 2E12-F041C 2E12-F042A	Valve Name M-142-2 Valve Name M-142-3 Valve Name M-142-1	E7 E7 D5	A RHR L 1 B RHR L 1 C RHR L 1	PCI Check \ A/C PCI Check \ A/C PCI Check \ A	/alve 12 /alve 12 /alve 12	CK CK GA	SA SA MO	A	SYS SYS C	O/C O/C	LT-S CC CO LT-S CC CO LT-S ET LT-J LT-S OMN-C	Y2 CS CS Y2 CS CS Y2 Y2 Y2 AppJ Y2 JOG	RV-02	CS-17 CS-17 CS-17 CS-17	
2E12-F041B 2E12-F041C 2E12-F042A	Valve Name M-142-2 Valve Name M-142-3 Valve Name M-142-1	E7	A RHR L 1 3 RHR L 1 C RHR L 1	PCI Check \ A/C PCI Check \ A/C PCI Check \ A	/alve 12 /alve 12 /alve 12	CK CK GA	SA SA MO	A	SYS SYS C	O/C O/C	LT-S CC CO LT-S CC CO LT-S ET LT-J LT-S OMN-C OMN-O	Y2 CS Y2 CS CS Y2 Y2 Y2 AppJ Y2 JOG JOG	RV-02 RV-02 RV-02	CS-17 CS-17 CS-17 CS-17	

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**Residual Heat Removal** 

Valve EPN	P&iD	P&ID Coor.	Code Class	iST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2E12-F042B	M-142-2	E6	1	A	12	GA	МО	A	С	O/C	ET	Y2	RV-02		
											LT-J	AppJ			
											LT-S	Y2			
											OMN-C	JOG	• RV-02		
											OMN-O	JOG	RV-02		
	Valve Name		B RHR L	PCI Injection	Line Isol	ation Valv	9								
2E12-F042C	M-142-3	E6	. 1	A	12	GA	MO	A	С	O/C	ET	Y2	RV-02	<u> </u>	
											LT-J	Аррј			· · ·
											LT-S	Y2 -			
											OMN-C	JOG	RV-02		
											OMN-O	JOG	RV-02		
	Valve Name		C RHR L	PCI Injection	Line Isol	ation Valv	e								¥.
2E12-F046A	M-142-1	<b>B</b> 5	2	С	8	СК	SA	A	SYS	0	CCD	СМ		<u></u>	CM01
•											COD	СМ			CM01
											СР	МЗ			
	Valve Name		A RHR P	ump Min Flo	w Line Cl	heck Valve	9								
2E12-F046B	M-142-2	C2	2	С	8	СК	SA	A	С	O/C	CCD	СМ			CM01
											COD	СМ			CM01
											СР	M3			
	Valve Name		B RHR F	Pump Min Flo	w Line Ci	heck Valve	3								
2E12-F046C	M-142-3	B3	2	С	8	СК	SA	A	С	O/C	CCD	CM	····		CM23
											COD	СМ			CM23
											СР	МЗ			CM23
	Valve Name		C RHR F	Pump Min Flo	w Line C	heck Valve	9								
2E12-F047A	M-142-4	E4	2	В	18	GA	MO	A	0	0	ET	Y2	RV-02		
								•			OMN-O	JOG	RV-02		
	Valve Name		A RHR H	leat Exchanç	ger Inlet V	alve									
2E12-F047B	M-142-4	E5	2	. В	. 18	GA	MO	A	0	0	ET	¥2	RV-02		
						,		·		• .	OMN-O	JOG	RV-02	· ·	• •
	Valve Name		B RHR H	leat Exchang	ger Inlet V	alve									
2E12-F048A	M-142-4	E1	2	В	18	GL	МО	A	0	O/C	ET	MЗ	RV-02		
											OMN-C	JOG	RV-02		
											OMN-O	JOG	RV-02		
	Valve Name	ł	A RHR H	leat Exchang	jer Bypas	s Valve									
2E12-F048B	M-142-4	D8	2	B	18	GL	MO	A	0	O/C	ET	M3	RV-02		
											OMN-C	JOG	RV-02		
											OMN-O	JOG	RV-02		·

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#### LaSalle Station IST PROGRAM PLAN

Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2E12-F049A	M-142-4	L C1	2	В	3	GA	MO	A	с	С	ET	Y2	RV-02	- <b></b>	
											OMN-C	JOG	RV-02		
	Valve Name		A RHR H	IX Blowdown	Upstream	n Isolation	Valve	•	•						
2E12-F049B	M-142-4	C8	2	B	3	GA	МО	A	С	C.	EŤ	Y2	RV-02		
											OMN-C	JOG	RV-02		
0510 50504	Valve Name	07		IX Blowdown	Upstream	n Isolation	Valve		CVC					00.10	
2E12-F050A	M-142-1	יט	1	A/C	12	CK	5A	A	. 515	U		03 09	•	CS-10	TP-01
											11-5	V2		03-10	15-01
	Valve Name		A RHR S	DC Return C	Check Val	ve					LI-U	12			
2E12-F050B	M-142-2	2 D7	1	A/C	12	СК	SA	Α	SYS	С	СС	CS		CS-10	TP-01
										•	со	cs		CS-10	TP-01
										•	LT-S	Y2			
	Valve Name	,	B RHR S	DC Return C	Check Val	ve									
2E12-F053A	M-142-1	D5	1	A	12	GL	МО	A	С	С	ΕT	Y2	RV-02		
											LT-J	AppJ			
	4										LT-S	Y2			
											OMN-C	JOG	RV-02		
	Valve Name	•	A RHR S	Shutdown Co	oling Retu	urn Isolatic	on Valve								
2E12-F053B	M-142-2	2 D6	1	A	12	GL	мо	A	С	С	ET	¥2	RV-02		
											LT-J	AppJ			
											LI-S	Y2	<b>DV 00</b>		
	Valve Name	•	B RHR S	Shutdown Co	olina Reti	um Isolatio	on Valve				OMN-C	JÜĞ	HV-02		
2E12-F060A	M-142-4	4 C-2	2	8	0.75	GL	SO	A	C	С	FS-C	M3	· · · · · ·		TP-03
											PIT	Y2			
											ST-C	МЗ			
· · · ·	Valve Name	÷ .		IX Outlet Pro	cess San	ple Upstr	eam Isol	Valve						· ·	
2E12-F060B	M-142-4	4 C-7	2	В	0.75	GL	SO	A	C	С	FS-C	M3			TP-03
											PIT	Y2			
											ST-C	MЗ			
	Valve Name	). 	B RHR H	IX Outlet Pro	cess San	nple Upstre	eam Isol	Valve							
2E12-F064A	M-142-	1 B5	2	В	4	GA	MO	A	0	O/C	ET	Y2	RV-02		
											OMN-C	JOG	RV-02	· · · ·	
											OMN-O	JOG	RV-02		
	Valve Name	<b>}</b>	A RHR F	ump Min Flo	w Isolatio	n Valve									

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Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2E12-F064B	M-142-2	2 C2	2	В	4	GA	мо	· A	Ó	O/C	ET	Y2	RV-02		
						•					OMN-C	JOG	RV-02		
											OMN-O	JOG	RV-02	· .	
,	Valve Name	• 1	3 RHR F	ump Min Flo	w Isolatio	n Valve									
2E12-F064C	M-142-3	3 B4	2	В	4	GA	МО	A	0	O/C	ET	Y2	RV-02		
											OMN-C	JOG	RV-02		
											OMN-O	JOG	RV-02		
	Valve Name	. (	C RHR F	Pump Min Flo	w Isolatic	n Valve	·								
2E12-F068A	M-134-2	2 B2	3	В	20	GA	MO	Α	C	0	ET	MЗ	RV-02		
											OMN-O	JOG	RV-02		
	Valve Name	,   ,	A RHR H	łX Service W	ater Outle	et Valve					•				
2E12-F068B	M-134-1	F2	3	B	20	GA	МО	A	C .	0	ET	МЗ	RV-02		
				•							OMN-O	JOG	RV-02		
	Valve Name		BRHRH	IX Service W	ater Outle	et Valve				_					
2E12-F073A	M-142-4	4 E3	2	В	0.75	GL	МО	Р	С	C	PIT	Y2		-	
	Valve Name	) · · .	A RHR H	IX Shell Side	Downstr	eam Vent	Valve								
2E12-F073B	M-142-4	4 E5	2	В	0.75	GL	MO	Р	С	С	PIT	Y2			
	Valve Name	•	BRHRH	X Shell Side	Downstr	eam Vent	Valve								
2E12-F074A	M-142-4	4 E3	2	B	0.75	GL	MO	Ρ.	С	С	PIT	Y2			
	Valve Name	;	A RHR H	X Shell Side	Upstream	n Vent Va	lve '								
2E12-F074B	M-142-4	4 <sup>·</sup> E6	2	В	0.75	GL	MO	P	C	С	PIT	Y2			
	Valve Name	; 	BRHRH	IX Shell Side	Upstream	n Vent Va	lve						·		
2E12-F075A	M-142-4	4 C2	2	B	0.75	GL	SO	A	C	C	FS-C	M3			TP-03
											PIT	- Y2	2		
											ST-C	M3			
<u></u>	Valve Name	<u> </u>	A RHR I	IX Outlet Pro	cess San	nple Dowr	stream l	sol VIv			•				
2E12-F075B	M-142-4	4 C-7	2	. <b>В</b>	0.75	GL	SO	А	С.	С	FS-C	M3.	•		TP-03
		,									PIT	Y2		. •	÷ .
											ST-C	M3			
	Valve Name	;	BRHRI	HX Outlet Pro	cess San	nple Dowr	istream le	sol Viv							
2E12-F084A	M-142-	1 B3	2	C	0.75	СК	SA	A	SYS	O/C	CC	M3			TP-07
											CO	MЗ			TP-07
	Valve Name	) 	A RHR/L	PCS Water	Leg Pump	A RHR [	Sch Che	ck Valve					<u> </u>		
2E12-F084B	M-142-	4 E5	2	C	0.75	СК	SA	A	SYS	O/C	CC	M3			TP-07
											CO	M3			TP-07
	Valve Name	•	B/C RHI	R Water Leg	Pump B F	RHR Disch	large Che	eck Valve	•		•				

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Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2E12-F084C	M-142-3	A7	2	С	0.75	СК	SA	A	SYS	O/C	CC	M3			TP-07
	Valua Nama		םנים מו	Mator Leo	Dumo B D	HR Diech	orae Che	ck Valvo		,	CO	М3			TP-07
0510 50994		· ^6		C C	1 2 2				<u> </u>	0/0		V10			
2012-F000A ;	Valve Name	~0		umn Suction	N Relief Va	ilve	04		Ũ	0/0	1101	110	•		
2E12-E088B	M-142-2	B5	2	C	1 x 2	RV	SA	A	С	O/C	RVT	Y10			
	Valve Name		- B RHR P	ump Suction	Relief Va	lve									
2E12-F088C	M-142-3	B6	2	C	1 x 2	RV	SA	Α.	с	O/C	RVT	Y10			
	Valve Name		C RHR P	Pump Suction	n Relief Va	alve							•	<i>.</i> .	
2E12-F089	M-142-4	F5	2	c	4	СК	SA	. A	C	O/C	CCD	СМ			CM06
			• ,								COD	СМ			CM06
	Valve Name	•	B RHR F	uel Pool Em	er Make L	Ip Supply	Testable	Check							
2E12-F092A	M-142-1	D8	· 1	В	12	GA	М	P	LO	0	PIT	Y2	<u>.</u>		
	Valve Name		A RHR L	PCI Hdr Mai	nual Stop	Valve									
2E12-F092B	M-142-2	E8	1	В	12	GA	M	Р	LO	0	PIT	Y2			
	Valve Name		BRHRL	PCI Header	Manual S	top Valve									
2E12-F092C	M-142-3	E8	-1	В	12	GA	М	Р	LO	0	PIT	Y2			
	Valve Name		C AHR L	PCI Header	Manual S	top Valve				· · · · ·					
2E12-F093	M-142-4	F4	2	В	4	GA	MO	A	c	• O/C	ET	Y2	RV-02		
							•				OMN-C	JOG	RV-02		
											OMN-O	JOG	RV-02		
	Valve Name		B RHR F	uel Pool Em	er MU Su	pply Dowr	stream V	/alve							
2E12-F094	M-142-4	F3	3	В	4	GA	MO	A	C	0/C	ET	Y2	RV-02		-
					•						OMN-C	JOG	RV-02		
			·								OMN-O	JOG	RV-02		
	Valve Name		B RHR F	uel Pool Em	er MU Su	pply Upstr	eam Valv	/e							
2E12-F097	M-142-4	F2	2	В	0.75	GL	SO	Α	Ó	С	FS-C	MЗ			TP-03
· · ·	н н н							•			ST-C	MЗ		· · ·	
	Valve Name		B RHR F	uel Pool Em	er Make l	Jp Supply	Drain Va	lve							
2E12-F099A	M-142-1	C7	1	A	2	GL	MO	A	C	C	ET	Y2	RV-02		
											LT	Y2			
											OMN-C	JOG	RV-02		
	Valve Name		A RHR S	SDC Return	Festable C	heck Byp	ass Valve	•	-						
2E12-F099B	M-142-2	2 C7	1	A	2	GL	МО	A	С	С	ET	Y2	RV-02		
								,			LT	Y2			
					•						OMN-C	JOG	RV-02		
	Valve Name		B RHR S	DC Return T	Festable C	heck Byp	ass Valve	9							

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Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Vaive Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2E12-F311A	M-142-4	D2	2	С	.75 x 1	RV	SA	A	C	O/C	RVT	Y10			TP-08
	Valve Name		A RHR H	leat Exchang	ger Shell S	ide Relief	Valve				÷				
2E12-F311B	M-142-4	D6	2	С	.75 x 1	RV	SA	A	С	O/C	RVT	Y10			TP-08
	Valve Name	I	B RHR H	leat Exchang	ger Shell S	Side Relief	Valve								
2E12-F313A	M-137-3	3 C4	3	С	3 x 4	RV	SA	A	С	O/C	RVT	Y10			<u></u>
	Valve Name		A RHR H	leat Exchang	ger Tube \$	Side Relief	Valve								
2E12-F313B	M-137-3	3 C3	3	С	3 x 4	RV	SA	A	С	O/C	RVT	Y10	······································		
	Valve Name		B RHR H	leat Exchang	ger Tube S	Side Reliet	Valve								
2E12-F315	M-2142-	4 E2	2	С	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
											со	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name		A RHR L	PCI Inj Line	Integrity E	xcess Flo	w CV								
2E12-F317	M-2142-	4 E7	2	C	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
											со	OP			TP-05, TP-
											017				01
	Valve Name	•	B RHR I	nj Line Integi	rity Excess	s Flow Che	eck Valve				PII	¥2		·	
2E12-F319	M-2142-	4 D7	2	. C	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
											CO	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name		C RHR I	nj Line Integ	rity Exces	s Flow Ch	eck Valve								
2E12-F331A	M-134-2	2 B6	3	С	16	CK	SA	A	SYS	O/C	CC	MЗ			
				*							co	M3			
	Valve Name	•	A RHR S	Service Wate	r Pump D	ischarge C	check Va	ve							
2E12-F331B	M-134-	2 C6	3	С	16	СК	SA	A	SYS	O/C	CC	M3			<u> </u>
										•	со	M3			
	Valve Name	•	B RHR S	Service Wate	r Pump D	ischarge C	heck Va	ve							
2E12-F331C	M-134-	1 E6	3	C	16	CK	SA	A	SYS	-0/C	CC	M3	· ·		
							•				со	MЗ			
	Valve Name	•	C RHR S	Service Wate	er Pump D	ischarge (	Check Va	lve							
2E12-F331D	M-134-	1 F6	3	C	16	СК	SA	A	SYS	O/C	CC	M3	<u></u>		
											со	M3			
	Valve Name	)	D RHR S	Service Wate	er Pump D	ischarge (	Check Va	lve							
2E12-F336A	M-134-	2 A5	.3	В	4	GA	мо	A	С	0	ST-O	M3			
	Valve Name	•	RHR Se	rvice Water S	Strainer B	ackwash V	/alve								
2E12-F336B	M-134-	1 E5	3	В	4	GA	мо	A	С	0	ST-O	M3	<u></u>		
				-						-	-				

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Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2E12-F359A	M-2142-	5 C3	2	с	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
											со	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name	i	RHR SD	C Suct Hdr D	D/p SW 2E	31-N012a	a Hi Side	∋ EFV							
2E12-F359B	M-2142-	5 B3	2	С	0.75	XFC	SA	Α	0	С	CC	RR		RJ-07	TP-10
											со	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name		RHR SD	C Suct Hdr E	D/p SW 2E	31-N012a	a Lo Sid	e EFV							
2E12-F360A	M-2142-	5 B3	2	С	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
											со	OP			TP-05, TP- 01
											PIŤ	¥2			
	Valve Name	I.	RHR SD	C Suct Hdr [	D/p SW 2E	31-N012b	a Lo Sid	e EFV							
2E12-F360B	M-2142-	5 B3	2	С	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
											CO	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name		RHR SD	C Suct Hdr [	D/p SW 2E	31-N012b	a Hi Side	e EFV							
2E12-F460	M-142-3	3 C7	2	A/C	.75 x 1	RV	SA	A	С	O/C	LT-J	АррЈ			······································
											RVT	Y10			TP-08
	Valve Name	1	AHR SD	C Suct Head	der Cnmt F	enetration	n Relief V	/aive							

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Valve EPN	P&iD	P&ID Coor	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1B21-F413A	M-2101-	1 D:	3 2	с	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
											CO	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name		MS RCI	C Stm D/p Sv	w Hi Excs	Flow Ck V	alve								
1B21-F413B	M-2101-	1 D:	3 2	C	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
											CO	OP			TP-05, TP- 01
	Volue Nome						lahua				PIT	Y2			
	valve Name				W LO EXCS	FIOW CK V								<u> </u>	70.44
1821-F415A	M-2101-	1 C	5 2	C	0.75	XFC	SA	А	0	C	00	нн		HJ-07	1P-10
											co	OP			1P-05, TP- 01
	Valve Name		MS RCI	C Stm D/p Sv	w Hi Excs	Flow Ck V	'alve				PIT	Y2			
1B21-F415B	M-2101-	1 C	3 2	c	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
											со	OP			TP-05, TP-
											PIT	Y2			
•	Valve Name		MS RCI	C Stm D/p Sv	w Lo Excs	Flow Ck \	/alve								
1E51-D001	M-101-	D	2	D	6	RPD	SA	A	С	0	DT	Y5			
	Valve Name	)	RCIC T	urbine Exhau	ist Upstrm	Rupture C	Disc								
1E51-D002	M-101-	I D	1 2	D	6	RPD	SA	A	С	0	DT	Y5			
	Valve Name	;	RCIC T	urbine Exhau	ist Dwnst f	Rupture Di	isc	•							· .
1E51-F004	M-101-	1 A	5 2	В	2	GL	AO	A	0	С	FS-C	M3	- <u></u>		TP-03
											PIT	Y2	•		
											ST-C	MЗ			
	Valve Name	•	RCIC C	ndsr Cond Pr	mp Dsch L	Jpstm Equ	ip Drn Si	ump Rtn							
1E51-F005	M-101-	1 A	5 2	В	2	GL	AO	A	С	С	FS-C	M3			TP-03
											PIT	Y2			
											ST-C	MЗ			
	Valve Name	•	RCIC C	ndsr Cond Pr	mp Dsch (	Ownstm Ed	quip Drn	Sump Rtn							
1E51-F008	M-101-	1 E	7 1	A	4	GA	MO	A	0	O/C	ET	Y2	RV-02	·····	<u></u>
											LT-J	AppJ			
											OMN-C	JOG	RV-02		
											OMN-O	JOG	RV-02		
	Valve Name	)	RCIC S	team Supply	Outboard	Isolation									

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Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1E51-F010	M-101-2	B4	2	В	8	GA	мо	A	0	O/C	ET	Y2	RV-02		
											OMN-C	JOG	RV-02		
											OMN-O	JOG	RV-02		
	Valve Name		RCIC Pu	imp Cycled C	CST Suctio	n Valve									
1E51-F011	M-101-2	B3	2	С	8	CK	SA	A	SYS	O/C	CC	MЗ			
						·					CO	МЗ			
	Valve Name		RCIC Pu	imp Cycled C	CST Suctio	n Check	Valve								
1E51-F013	M-101-2	C7	1	A	6	GA	MO	A	С	O/C	ET	Y2	RV-02		
											LT-J	АррЈ			
											OMN-C	JOG	RV-02		
											OMN-O	JOG	RV-02		
	Valve Name		RCIC Inj	ection Outbo	ard Isol Va	alve									
1E51-F017	M-101-2	2 B2	2	С	0.75 x 1	RV	SA	A	C ·	O/C	RVT	Y10			
	Valve Name		RCIC Pu	Imp Suction	Relief Valv	e									
1E51-F018	M-101-2	F3	2	.C	1.5 x 3	RV	SA	A	С	0/C	RVT	Y10			
	Valve Name		RCIC Lu	be Oil Coole	r Inlet Reli	ef Valve									
1E51-F019	M-101-2	2 B5	2	В	2	GL	МО	A	С	0/C	ΕŤ	Y2	RV-02		
											OMN-C	JOG	RV-02		
											OMN-O	JOG	RV-02		
	Valve Name	!	RCIC Pu	Imp Min Flow	v Isolation	Valve	_								
1E51-F021	M-101-2	2 B4	2	С	2	СК	SA	A	С	0	CCD	СМ			CM05
							·				COD	СМ			CM05
	Valve Name		RCIC PL	Imp Min Flow	v Check V	alve									
1E51-F022	M-101-2	2 E6	2	A	4	GL	МО	Ā	С	С	EŤ	Y2	RV-02		
											LT-J	AppJ			
											OMN-C	JOG	RV-02		
	Valve Name	•	RCIC Fu	II Flow Test	Upstream	Valve							_		
1E51-F025	M-101-1	D6	2	.B.	2	GL	ĄQ	A	0	С	FS-C	МЗ			TP-03
											PIT	Y2			
											ST-C	MЗ			
	Valve Name	,	RCIC St	eam Supply	Drain Pot	Upstrm O	utlet Valv	e							
1E51-F026	M-101-1	D6	2	В	2	GL	AO	A	0	С	FS-C	M3	<u></u>		TP-03
											PIT	Y2			
											ST-C	M3			
	Valve Name	!	RCIC St	eam Supply	Drain Pot	Dwnst Ou	tlet Valve	)							

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Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Vaive Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Ramt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1E51-F028	M-101-1	B6	2	A/C	1.25	СК	SA	А	SYS	С	CCD	СМ			CM10
											со	MЗ			CM10
											COD	СМ			CM10
											LT-J	AppJ			
	Valve Name	1	RCIC Cr	idsr Vacuum	Pump Ds	ich Check	Valve								
1E51-F030	M-101-2	2 B6	2	С	8	СК	SA	A	С	O/C	СС	M3	<u> </u>		
											со	RR		RJ-06	
	Valve Name	•	RCIC PL	Imp Sup Poo	I Suction	Check Va	lve								
1E51-F031	M-101-2	2 B7	2	В	8	GA	MO	A	С	O/C	ET	Y2	RV-02		
											OMN-C	JOG	RV-02		
											OMN-O	JOG	RV-02		
	Valve Name	•	RCIC PL	imp Sup Poo	I Suction	isol Valve									
1E51-F040	M-101-	1 B7	2	A/C	10	СК	SA	A	С	O/C	CC	СМ		CS-12	CM11
											со	СМ		CS-12	CM11
											LT-J	AppJ			
	Valve Name	•	RCIC TL	irbine Exhau	st Check '	Valve									
1E51-F045	M-101-1	1 D5	2	В	4	GL	MO	A	С	0	ET	Y2	RV-02		
											OMN-C	JOG	RV-02		
	2										OMN-O	JOG	RV-02		
	Valve Name	•	RCIC TI	urbine Steam	Supply S	top valve									
1E51-F046	M-101-	2 03	2	В	2	GL	МО	A	С	0	ET	Y2	RV-02		
											OMN-O	JOG	RV-02		
	Valve Name	)	RCIC Tu	urbine Lube C	Dil Cooler	Inlet Valve	e								
1E51-F047	M-101-	1 A6	2	С	2	СК	SA	Α	С	С	CC	MЗ	-		
											CO	MЗ			TP-01
	Valve Name	) 	RCIC CI	ndsr Cond Pu	ump Disch	harge Che	ck Valve								
1E51-F059	M-101-	2 E5	2	Α	4	GA	МО	А	C	С	ET	Y2	RV-02		
· · · ·	$(1,\ldots,n) \in \mathbb{R}^{n}$			· · · ·							LT-J	AppJ			
											OMN-C	JOG	RV-02		• •
	Valve Name	•	RCIC Fi	Ill Flow Test	Downstre	am Valve									
1E51-F060	M-101-	2 A4	2	В	2	GL	М	А	LO	O/C	ME	Y2			TP-04
·····	Valve Name	9	RCIC W	ater Leg Pun	np Cycleo	CST Suc	tion Valv	e							
1E51-F061	M-101-	2 A3	2	С	0.75	СК	SA	Α	SYS	O/C	CC	МЗ			TP-07
											со	MЗ			TP-07
	Valve Name	e	RCIC W	ater Leg Pun	np Discha	rge Check	< Valve								

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Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1E51-F063	M-101-1	E8	1	A	10	GA	мо	A	0	O/C	ET	M3	RV-02		
											LT-J	AppJ			
											OMN-C	JOG	RV-02		
											OMN-O	JOG	RV-02		
	Valve Name		RCIC Ste	eam Supply I	nboard is	olation Va	lve								
1E51-F065	M-101-2	C7	1	A/C	6	СК	AO	A	SYS	O/C	CC	CS		CS-13	
											со	CS		CS-13	
											LT-S	Y2			
											PIT	Y2			
	Valve Name		RCIC Inje	ection Otbd 1	Festable (	Check Val	/e								
1E51-F066	M-101-2	C8	1	A/C	6	СК	AO	A	SYS	0/C	CC	CS		CS-13	
									· .		CO	CS		CS-13	
											LT-S	Y2			
	Valve Name		RCIC Inji	ection Inbd T	estable C	heck Valv	e								
1E51-F068	M-101-1	B7	2	A	10	GA	MO	Α	0	O/C	ET	Y2	RV-02		
											LT-J	АррЈ			
											OMN-C	JOG	RV-02		
											OMN-O	JOG	RV-02		
	Valve Name		RCIC Tu	rbine Exhau	st Isolation	n Valve									
1E51-F069	M-101-1	B7	2	A	1.25	GL	MO	A	0	С	ET	¥2	RV-02		
											LT-J	АррЈ			
											OMN-C	JOG	RV-02		
	Valve Name		RCIC Cn	Idsr Vacuum	Pump Ds	sch isolatic	n Valve						014.00		
1E51-F0/6	M-101-1	EB	1	A	1	GL	MO	А	L	C	E1 171	¥2	HV-02		
												Appu			
	Value Name			oom Cumplu l	abd looi F	Bunnanahun	rmun Val				OMIN-C	30G	HV-02		
1651-6080	M-101-1		2					Δ.		0/0	FT		B\/_02		
1231-1 000	W-101-1		· · · <u>2</u> ·		· · <b>~</b>	UL.	WO.	. ^.	· · · · ·		11-1	Anni	110-02	· ·	
											OMN-C	.106	BV-02		
											OMN-O	.106	BV-02		
	Valve Name		RCIC Tu	rbine Exhaus	st Vacuun	n Bkr Dwn	st Isol Va	lve			0,	000	110 02		
1E51-F082	M-101-1	D7	2	C	2	CK	SA	A	SYS	O/C	CCF	CM	<b></b> ii		CM24
			-	-	-		÷			- · <del>·</del>	CO	СМ			CM24
	Valve Name		RCIC Tu	rbine Exhaus	st Vacuun	n Bkr Dwn	st Check	Valve							
1E51-F084	M-101-1	D7	2	С	2	СК	SA	A	SYS	O/C	CCF	СМ		·	CM24
											со	СМ			CM24
	Valve Name		RCIC Tu	rbine Exhaus	st Vacuur	n Bkr Uost	rm Checl	Valve							

**Reactor Core Isolation Cooling** 

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#### LaSalle Station IST PROGRAM PLAN

Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1E51-F086	M-101-1	C7	2	A	2	GL	мо	A	0	O/C	ET	Y2	RV-02		
											LT-J	AppJ			
											OMN-C	JOG	RV-02	•	
											OMN-O	JOG	RV-02		
	Valve Name	r	RCIC Tu	rbine Exhau	st Vacuun	n Bkr Upst	rm Isol V	alve							
1E51-F360	M-101-1	D4	2	В	3	GA	MO	Α	0	O/C	ST-C	MЗ		· ·	TP-09?
											ST-O	МЗ			TP-09?
	Valve Name		RCIC Tu	rbine Trip/Th	nrottle Val	ve						•			
1E51-F362	M-101-2	2 F7	2	A	4	GA	М	Р	С	С	LT-J	AppJ			
	Valve Name		RCIC Fu	II Flow Test	Sup Pool	Upstrm Re	eturn Vak	/e							
1E51-F363	M-101-2	2 F7	2	A	4	GA	М	P	С	С	LT-J	AppJ			
	Vaive Name	•	RCIC Fu	Il Flow Test	Sup Pool	Dwnst Rei	turn Valv	e							
1E51-F370	M-101-2	2 A4	2	В	2	GL	М	A	С	O/C	ST-C	Y2			
											ST-0	¥2			
	Valve Name	•	RCIC W	ater Leg Pur	np Sup Po	ool Suct Va	alve								
2B21-F413A	M-2147-	1 D3	2	C	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
											co	OP			TP-05, TP-
											PIT	Y2			01
	Valve Name	•	MS RCI	C Stm D/p S	w Hi Excs	Flow Ck \	/alve								
2B21-F413B	M-2147-	1 D3	3 2	c	0.75	XFC	SA	Α	0	С	CC	RR		RJ-07	TP-10
											CO	OP			TP-05, TP-
															01
											PIT	Y2		•	
<u></u>	Valve Name	• 	MS RCI	C Stm D/p S	w Lo Excs	S Flow Ck	Valve			· · · ·			•		
2B21-F415A	M-2147-	-1 °C3	3 2	C	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
											CO	OP			TP-05, TP- 01
				· ·					•		PIT	Y2			
••••	Valve Name	9	MS RCI	C Stm D/p S	w Hi Excs	Flow Ck V	/aive	· .					· · · ·		
2B21-F415B	M-2147	-1 C3	3 2	С	0.75	XFC	SA	A	0	C.	CC	RR		RJ-07	TP-10
											CO	OP		· ·	TP-05, TP- 01
											PIT	Y2			
	Vaive Name	•	MS RCI	C Stm D/p S	w Lo Excs	s Flow Ck	Valve								
2E51-D001	M-147-	1 D1	1 2	D	6	RPD	SA	A	С	0	DT	¥5	••••••••••••••••••••••••••••••••••••••	· ·	
	Valve Name	9	RCIC TU	Irbine Exhau	ist Upstrm	Rupture (	Disc								
2E51-D002	M-147-	1 D1	1 2	D	6	RPD	SA	A	С	0	DT	¥5	<u></u>		
	Valve Name	9	RCIC TU	urbine Exhau	ist Dwnst	Rupture D	isc								

**Reactor Core Isolation Cooling** 

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Valve EPN	· P&ID	P& Co	ID or.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2E51-F004	M-147	-1	A5	2	В	2	GL	AO	A	0	С	FS-C	M3			TP-03
												PIT	Y2			
												ST-C	МЗ			
	Valve Nam	e	F	RCIC Cn	dsr Cond Pn	np Dsch L	Jpstm Equ	ip Drn St	imp Rtn							
2E51-F005	M-147	-1	A5	2	В	2	GL	AO	A	C .	С	FS-C	M3			TP-03
												PIT	Y2			
												ST-C	M3			
	Valve Nam	e	F	RCIC Cn	dsr Cond Pn	np Dsch D	wnstm Ec	uip Drn S	Sump Rtn							
2E51-F008	M-147	-1	E7	1	A	4	GA	MO	A	0	O/C	ET	Y2	RV-02		
	,											LT-J	АррЈ			
												OMN-C	JOG	RV-02		
												OMN-O	JOG	RV-02		
	Valve Narr	e	۲ 	RCIC Ste	am Supply (	Dutboard	Isolation								·····	
2E51-F010	M-147	-2	B4	2	В	8	GA	МО	A	0	O/C	ΕŤ	Y2	RV-02		
												OMN-C	JOG	RV-02		
												OMN-O	JOG	RV-02		
	Valve Nam	ie	F		mp Cycled C	ST Suction	on Valve			<u> </u>						
2E51-F011	M-147	-2	B3	2	С	8	CK	SA	A	SYS	0/C	00	M3			
								1 <b>1</b> -1 -				CO	М3			
0551 5010	Valve Nam		1				оп Спеск	valve			0/0			DV 00	. <u> </u>	
2E51-F013	M-147	-2	07	I	A	0	GA	MU	Α.	C	0/0	E1	12	HV-02		
													Аррл	D) / 00		
													100	RV-02		
	Volue Nee				action Outbo	ard Icol V	aho					OWIN-O	300	nv-uz		
2E51-E017	M-147		<u></u>		C	0.75 x 1	BV	54	Δ		0/0	B\/T	V10			
22311017	Valve Nam	ie i	UC. 	RCIC Pu	mn Suction i	Belief Val	ve	0/1	~	0	0,0	11.4.1	110			
2E51-E018	M-147	-2	F3	2	C	15×3	BV	SA	· A	C	0/C	RVT	Y10			<u> </u>
2201.010	Valve Nam	ne	۰. ۱	BCIC Lui	be Oil Coole	r Inlet Bei	ief Valve			· · · ·						·
2E51-F019	M-147	-2	C5	2	B	2	GL	мо	A	с	O/C	ET	¥2	RV-02		
												OMN-C	JOG	RV-02		
												OMN-O	JOG	RV-02		
	Valve Nan	ie	F	RCIC Pu	mp Min Flow	Isolation	Valve									
2E51-F021	M-147	-2	C4	2	C	2	СК	SA	A	С	0	CCD	CM			CM05
												COD	СМ			CM05
	Valve Nar	e	F	RCIC Pu	mp Min Flow	/ Check V	alve									

**Reactor Core Isolation Cooling** 

**Revision Date:** 

EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
-022	M-147-2	E6	2	A	4	GL	мо	A	С	С	ET	Y2	RV-02		
											LT-J	АррЈ			
											OMN-C	JOG	RV-02		
. v	alve Name	ſ	RCIC Fu	II Flow Test I	Jpstream	Valve									
F025	M-147-1	D6	2	В	2	GL	AO	A	0	С	FS-C	M3			TP-03
											PIT	Y2			
											ST-C	MЗ			
V	alve Name	F	RCIC Ste	eam Supply I	Drain Pot	Upstrm O	utlet Valve	e							
F026	M-147-1	D6	2	В	2	GL	AO	A	Ô	С	FS-C	M3			TP-03
											PIT	Y2			
											ST-C	М3		· .	
v	alve Name	i	RCIC Ste	eam Supply I	Drain Pot	Dwnst Ou	tiet Valve								
F028	M-147-1	B6	2	A/C	1.25	СК	SA	A	SYS	С	CCD	СМ			CM10
				. '							со	M3			CM10
	•										COD	СМ			CM10
											LT-J	AppJ			
v	alve Name	i	RCIC Cr	idsr Vacuum	Pump Ds	ch Check	Valve								
F030	M-147-2	B5	2	С	8	СК	SA	A	С	O/C	CC	МЗ			
			•								со	RR		RJ-06	
. V	alve Name		RCIC PL	imp Sup Poc	I Suction	Check Va	ve				•				
F031	M-147-2	87	2	В	8	GA	МО	A	C	0/C	ET	Y2	RV-02	····· <b>································</b>	
											OMN-C	JOG	RV-02		
											OMN-O	JOG	RV-02		
v	alve Name		RĊIC PL	imp Sup Poc	Suction	isol Valve									
F040	M-147-1	B7	2	A/C	10	СК	SA	A	С	O/C	CC	СМ		CS-12	CM11
											co	СМ		CS-12	CM11
											LT-J	AppJ			
<b>v</b>	alve Name	·	RCIC TU	irbine Exhau	st Check	Valve									
F045	M-147-1	D5	2	В	4	GL	МО	A	С	0	ET	Y2	RV-02		
											OMN-C	JOG	RV-02		
											OMN-O	JOG	RV-02		
v	alve Name	•	RCIC TL	irbine Steam	Supply S	top valve						•	-		
F046	M-147-2	2 D3	2	В	2	GL	MO	A	С	0	ET	Y2	RV-02		
											OMN-O	JOG	RV-02		
v	alve Name	1	RCIC TL	irbine Lube (	Dil Cooler	Inlet Valve	е								
F047	M-147-1	B6	2	С	2	СК	SA	A	С	С	CC	MЗ			
											со	MЗ			TP-01
v	alve Name	l	RCIC Cr	ndsr Cond Pu	ump Disch	arge Che	ck Valve								
V F047 V	alve Name M-147-1 alve Name		B6	RCIC TU B6 2 RCIC Cr	RCIC Turbine Lube C B6 2 C RCIC Cndsr Cond Pu	RCIC Turbine Lube Oil Cooler B6 2 C 2 RCIC Cndsr Cond Pump Disch	RCIC Turbine Lube Oil Cooler Inlet Valve B6 2 C 2 CK RCIC Cndsr Cond Pump Discharge Che	RCIC Turbine Lube Oil Cooler Inlet Valve B6 2 C 2 CK SA RCIC Cndsr Cond Pump Discharge Check Valve	RCIC Turbine Lube Oil Cooler Inlet Valve B6 2 C 2 CK SA A RCIC Cndsr Cond Pump Discharge Check Valve	RCIC Turbine Lube Oil Cooler Inlet Valve B6 2 C 2 CK SA A C RCIC Cndsr Cond Pump Discharge Check Valve	RCIC Turbine Lube Oil Cooler Inlet Valve B6 2 C 2 CK SA A C C RCIC Cndsr Cond Pump Discharge Check Valve	OMN-O RCIC Turbine Lube Oil Cooler Inlet Valve B6 2 C 2 CK SA A C C CC CO RCIC Cndsr Cond Pump Discharge Check Valve	OMN-O JOG RCIC Turbine Lube Oil Cooler Inlet Valve B6 2 C 2 CK SA A C C CC M3 CO M3 RCIC Cndsr Cond Pump Discharge Check Valve	OMN-O JOG RV-02 RCIC Turbine Lube Oil Cooler Inlet Valve B6 2 C 2 CK SA A C C CC M3 CO M3 RCIC Cndsr Cond Pump Discharge Check Valve	OMN-O JOG RV-02 RCIC Turbine Lube Oil Cooler Inlet Valve B6 2 C 2 CK SA A C C CC M3 CO M3 RCIC Cndsr Cond Pump Discharge Check Valve

**Reactor Core Isolation Cooling** 

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Valve EPN	P&ID	P&iD Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normai Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2E51-F059	M-147-2	2 E5	2	A	4	GA	мо	A	С	С	ET	Y2	RV-02		
											LT-J	АррЈ			
											OMN-C	JOG	RV-02		
	Valve Name		RCIC Fu	II Flow Test	Downstrea	am Valve									
2E51-F060	M-147-2	2 A4	2	В	2	GL	М	A	LO	O/C	ME	Y2		·····	TP-04
	Valve Name		RCIC Wa	ater Leg Pun	np Cycled	CST Suct	ion Valve	÷							
2E51-F061	M-147-2	2 A3	2	С	0.75	СК	SA	A	SYS	O/C	CC	M3			TP-07
											со	М3			TP-07
	Valve Name		RCIC Wa	ater Leg Pun	np Discha	rge Check	Valve			· -					
2E51-F063	M-147-1	E8	1	A	10	GA	МО	A	0	O/C	ET	M3	RV-02		
											LT-J	AppJ			
											OMN-C	JOG	. RV-02		
											OMN-O	JOG	RV-02		
	Valve Name		RCIC St	eam Supply	Inboard Is	olation Va	lve								
2E51-F065	M-147-2	2 D7	1	A/C	6	СК	AO	A	SYS	O/C	CC	CS		CS-13	
											CO	CS		CS-13	
										-	LT-S	Y2			
											PIT	Y2	•		
<b>.</b>	Valve Name	•	RCIC Inj	ection Otbd	Testable (	Check Val	ve								
2E51-F066	M-147-2	2 D8	1	A/C	6	CK	AO	А	SYS	O/C	CC	CS		CS-13	
											со	CS		CS-13	
											LT-S	Y2			
	Valve Name	)	RCIC Inj	ection Inbd	Testable C	Check Valv	'e								
2E51-F068	M-147-1	1 B7	2	Α	10	GA	MO	A	0	O/C	ΕŤ	Y2	RV-02		
											LT-J	AppJ		•	
											OMN-C	JOG	RV-02		
											OMN-O	JOG	RV-02		
· · ·	· Valve Name	• • • •	RCIC Tu	irbine Exhau	ist Isolatio	n Valve		· · · · · ·		<u> </u>	<u> </u>	<u></u>			
2E51-F069	M-147-1	1 B7	2	A	1.25	GL	MO	A	0	С	ET	Y2	, RV-02		
											LT-J	AppJ			
											OMN-C	JOG	RV-02		
	Valve Name	) 	RCIC Cr	ndsr Vacuum	n Pump De	sch Isolatio	on Valve								
2E51-F076	M-147-1	1 E8	1	Α	1	GL	MO	A	С	С	ET	¥2	RV-02		
											LT-J	AppJ			
						•					OMN-C	JOG	RV-02		
	Valve Name	•	<b>RCIC Sti</b>	eam Supply	Inbd Isol E	3ypass/wa	rmup Va	ive							

**Reactor Core Isolation Cooling** 

Revision Date:

Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2E51-F080	M-147-1	C7	2	A	2	GL	мо	A	0	O/C	ΕT	Y2	RV-02		
											LT-J	AppJ			
											OMN-C	JOG	RV-02		
											OMN-O	JOG	RV-02		
	Valve Name	1	ACIC Tui	rbine Exhaus	st Vacuum	Bkr Dwn	st Isol Va	lve						•	
2E51-F082	M-147-1	C7	2	С	2	СК	SA	A	SYS	O/C	CCF	СМ			CM24
											со	СМ			CM24
	Valve Name	1	RCIC Tu	rbine Exhaus	st Vacuur	n Bkr Dwn:	st Check	Valve							
2E51-F084	M-147-1	C7	2	С	2	СК	SA	A	SYS	O/C	CCF	СМ			CM24
											со	СМ			CM24
	Valve Name	I	RCIC Tu	rbine Exhaus	st Vacuum	n Bkr Upst	rm Check	Valve							
2E51-F086	M-147-1	C7	2	A	2	GL	МО	A	0	0/C	ET	Y2	RV-02		
											LT-J	AppJ			
									· .*		OMN-C	JOG	RV-02		
											OMN-O	JOG	RV-02		
	Valve Name		RCIC Tu	rbine Exhaus	st Vacuum	n Bkr Upst	rm Isol V	alve							
2E51-F360	M-147-1	D4	2	В	3	GA	МО	A	0	O/C	ST-C	МЗ			TP-09?
											ST-O	M3			TP-09?
	Valve Name	1	RCIC Tu	rbine Trip/Th	rottle Val	ve									
2E51-F362	M-147-2	F6	2	A	4	GA	М	P	С	С	LT-J	AppJ			
	Valve Name		RCIC Fu	II Flow Test S	Sup Pool	Upstrm Re	eturn Val	/e							
2E51-F363	M-147-2	? F7	2	A	4	GA	М	P	С	С	LT-J	AppJ			
	Valve Name		RCIC Fu	II Flow Test	Sup Pool	Dwnst Ref	turn Valve	e				-			
2E51-F370	M-147-2	A4	2	В	2	GL	М	A	С	O/C	ME	Y2			TP-04
	Valve Name		RCIC Wa	ater Leo Pur	no Suo Po	ol Suct Va	alve								

**Reactor Core Isolation Cooling** 

**Revision Date:** 

Reactor	Recirculation

Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1B33-F013A	M-93-1	B7	2	A/C	0.75	СК	SA	A	SYS	С	СС	RR		RJ-02	
											CO	OP			TP-05, TP 01
••••											LT-J	AppJ			
	Valve Name		A Rx Rec	circ Pump Se	al Purge	Supply Int	d Check	Vlv			-				
1B33-F013B	M-93-2	B7	2	A/C	0.75	СК	SA	Α	SYS	C ·	CC	RR		RJ-02	
											co	OP	u.		TP-05, TP 01
											LT-J	AppJ			
	Valve Name	• •	3 Rx Red	circ Pump Se	al Purge	Supply Int	d Check	Viv							
1B33-F017A	M-93-1	B7	2	A/C	0.75	СК	SA	A	SYS	С	CC	RR		RJ-02	
										·.	со	OP			TP-05, TP 01
											LT-J	AppJ			
	Valve Name		A Rx Rec	circ Pump Se	al Purge	Supply Ot	bd Check	<ul> <li>VIv</li> <li></li></ul>							
1B33-F017B	M-93-2	B7	2	A/C	0.75	СК	SA	Α	SYS	С	cc	RR		RJ-02	
											co	OP			TP-05, TP 01
											LT-J	AppJ			
	Valve Name		B Rx Red	circ Pump Se	al Purge	Supply Ot	bd Check	(VIV							
1B33-F019	M-93-2	E6	2	Α	0.75	GL	AO	Α	0	С	FS-C	M3			TP-03
											LT-J	AppJ			
											PIT	Y2			
											ST-C	М3			
	Valve Name	) i	B Rx Red	circ Loop Pro	cess San	npling Inbo	I Isol Val	/e							
1B33-F020	M-93-2	E8	2	А	0.75	GL	AO	Α	0	С	FS-C	MЗ			TP-03
											LT-J	AppJ			
											PIT	Y2			
											ST-C	МЗ			
	Valve Name		B Rx Red	circ Loop Pro	icess San	npling Otb	d Isol Val	ve							
1B33-F301A	M-93-1	D8	2	С	0.75	XFC	SA	А	0	С	CC	RR		RJ-07	TP-10
					•						со	OP			TP-05, TP- 01
	Mahia Masa			sive Dump Cu	ot Droop						PIT	Y2			
1000 50010					0.75							00		8107	TP 10
1000-10010	M-93-2	6	2	U	0.75	AFC	DA	A	0	U	CO	OP		nj-07	TP-05, TP-
											РІТ	Y2			01
	Value Name		R Ry Ro	rim Pump Ci	et Proce		FFV					· <b>-</b>			
	VOIVE INAIIIE	· · · ·			01110331	A DA SEFUK	Li V								

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						Reacto	r Recire	culation							
Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normai Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1B33-F305A	M-2093-	1 E3	2	С	0.75	XFC	SA	A	0	С	СС	RR		RJ-07	TP-10
											co	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name		A Rx Rec	circ Pump Fl	ow Hi Side	e Check V	alve								
1B33-F305B	M-2093-	1 D3	2	°C	0.75	XFC	SA	Α	0	С	CC	RR		RJ-07	TP-10
								a.			CO	OP			TP-05, TP- 01
			_								PIT	Y2			
	Valve Name	- /	A Rx Rec	circ Pump Fl	ow Hi Side	e Check V	alve								
1B33-F305C	M-2093-	1 C3	2	С	0.75	XFC	SA	A	0	С		HH OP		HJ-07	1P-10 TP-05 TP-
											00				01
	Valve Name			circ Pumo El	ow Hi Side	- Check V	alvo				PH.	¥2			
1833-E305D	M-2093-	1 83	2	C	0.75	XFC	SA	A	0	С	CC	BB		BJ-07	TP-10
				•					·	-	со	OP			TP-05, TP-
											PIT	Y2			01
	Valve Name		A Rx Red	circ Pump Fl	ow Lo Sid	e Check V	/alve								
1B33-F307A	M-2093-	1 E3	2	С	0.75	XFC	SA	A	0	· C	CC	RR		RJ-07	TP-10
		,									CO	OP			TP-05, TP- 01
			•								PIT	Y2			
	Valve Name		A Rx Re	circ Pump Fi	low Lo Sid	le Check \	/alve								
1B33-F307B	M-2093-	1 D3	2	С	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
											со	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name	•	A Rx Re	circ Pump Fl	ow Lo Sid	le Check V	/alve								
1B33-F307C	M-2093	1 C3	2	С	0.75	XFC	SA	A	0	C	cc	RR		RJ-07	TP-10
											CO	OP			TP-05; TP- 01
											ΡΙΤ	Y2			·
	Valve Name	;	A Rx Re	circ Pump Fl	ow Lo Sid	le Check V	/alve								
1B33-F307D	M-2093-	-1 B3	2	С	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
											CO .	OP			1P-05, TP- 01
	M-1								·		ΡΙΤ	Y2			
	valve Name	; 	A HX He	circ Pump Fl	ow Hi Sid	e Check V	alve								

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Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1B33-F311A	M-2093-2	2 E3	2	С	0.75	XFC	SA	A	0	С	ĊC	RR		RJ-07	TP-10
											со	OP			TP-05, TP- 01
	Malua Nama			ine Dump Fle	nu la Cid	o Chook V	lahua				PIT	Y2			
1833-F3118	M-2093-2	2 03	2 PAX Het		0.75	XFC	SA	Α	0	<u>с</u>	00	BB		BJ-07	TP-10
			-	Ũ	0.00				-	-	со	OP			TP-05, TP-
											PIT	Y2			U1
	Valve Name	ļ	B Rx Red	circ Pump Flo	ow Lo Sid	e Check V	alve								·
1B33-F311C	M-2093-2	2 D3	2	С	0.75	XFC	SA	A ·	0	С	CC	RR		RJ-07	TP-10
											CO .	OP			TP-05, TP- 01
		•									PIT	Y2			
	Valve Name		B Rx Red	circ Pump Flo	ow Lo Sid	e Check V	alve								
1B33-F311D	M-2093-2	2 C3	2	С	0.75	XFC	SA	Α	0	C	CC	RR		RJ-07	TP-10
											CO	OP			TP-05, TP- 01
											PIT	Y2	•		
	Valve Name		B Rx Red	circ Pump Flo	ow Hi Side	Check V	alve								
1B33-F313A	M-2093-2	2 F3	2	С	0.75	XFC	SA	A	0	С	00	HH		RJ-07	1P-10
											CO				1P-05, 1P- 01
	Valve Name		B Bx Be	circ Pump Fl	ow Hi Side	e Check V	alve				· PIT	Y2			
1B33-F313B	M-2093-	2 E3	2	C	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
											co	OP	•		TP-05, TP-
											ΡΙΤ	Y2			
	Valve Name		B Rx Re	circ Pump Fl	ow Hi Side	e Check V	alve								
1B33-F313C	M-2093-	2 C3	2	С	0.75	XFC	SA	A	0	С	CC.	RR		RJ-07	TP-10
											со	OP			TP-05; TP- 01
											PIT	Y2			
	Valve Name		B Rx Re	circ Pump Fl	ow Hi Side	e Check V	alve								
1B33-F313D	M-2093-	2 B3	2	С	0.75	XFC	SA	A	0	C	CC	RR		RJ-07	TP-10
				,							CO	OP			TP-05, TP- 01
				-ing Dunna (Fi		0	(_{				PIT	Y2			

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Valve EPN	P&ID	P&ID Coor	Code Class	IST Category	Valve Size	Vaive Type	ACT. Type	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1B33-F315A	M-2093-	3 D2	2 2	С	0.75	XFC	SA	A	0	С	сс	RR		RJ-07	TP-10
											CO	OP ·			TP-05, TP- 01
									1. a.		PIT	Y2			
	Valve Name		A Rx Re	circ Pump D/	p Lo Side	Check Va	lve						<u></u>		
1B33-F315B	M-2093-	3 D2	2 2	С	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
											CO	OP			TP-05, TP- 01
	Valve Name		A By Be	circ Pump D/	n Hi Side	Check Val	ve				PIT	Y2			
1833-E315C	M-2093	4 0	2 2		0.75	YEC	SA SA	Δ	0	<u> </u>	00	88		B1-07	TP-10
1000-10100	m 2030	- 04		U	0.75	XIO	UA.	0	U	U	со	OP		10.07	TP-05, TP-
											PIT	¥2			01
	Valve Name	•	A Rx Re	circ Pump D/	p Lo Side	Check Va	lve								
1B33-F315D	M-2093-	4 B	2 2	С	0.75	XFC	SA	A	0	С	CC	AR		RJ-07	TP-10
										•	со	OP			TP-05, TP- 01
											PIT	¥2			
	valve name	; 	A HX He	circ Pump D/	p Hi Side	Check va	ive								
1B33-F317A	M-2093-	8 D	3 2	С	0.75	XFC	SA	· A	0	С	CC	RR		- RJ-07	TP-10
											CO	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name	•	A Rx Re	circ Pump Si	eal Cav 2	Press Inst	CV								
1B33-F317B	M-2093	-8 B	3 2	C	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
•											со	OP			TP-05, TP- 01
	)(alua Nom			nira Duma D		Drago lant	01				PIT	Y2			
	valve marine	,		circ Pump Si	an Cav 2	Press inst	<u></u>			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~					
1B33-F319A	M-2093	8 D	3 2	С	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
										• .	co	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name	) 	A Rx Re	circ Pump So	eal Cav 1	Press Inst	CV								
1B33-F319B	M-2093	8 B	32	С	0.75	XFC	SA	А	0	С	CC	RR		RJ-07	TP-10
											со	OP			TP-05, TP- 01
	Valve Name	•	B Rx Re	circ Pump S	eal Cav 1	Press Inst	CV				PIT	Y2			

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	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
B33-F338A	M-93-1	E2	2	В	0.75	GL	so	A	0	С	FS-C	CS		CS-01	TP-03
											PIT	Y2			
											ST-C	CS		CS-01	
	Valve Name	1	A RR Pu	mp Discharg	e FCV AC	T Retract	INBD VIv								
1B33-F338B	M-93-2	E2	2	В	0.75	GL	SO	A	0	С	FS-C	CS		CS-01	TP-03
											PIT	Y2			
											ST-C	CS		CS-01	
	Valve Name	E	3 RR Pu	mp Discharg	e FCV AC	CT Retract	INBD VIv	r							
1B33-F339A	M-93-1	E1	2	В	0.75	GL	SO	А	0	С	FS-C	CS		CS-01	TP-03
											PIT.	Y2			
•											ST-C	CS		CS-01	
	Valve Name	,	A RR Pu	mp Discharg	e FCV AC	CT Retract	OTBD V	v							
1B33-F339B	M-93-2	E1	2	В	0.75	GL	SO	A	0	С	FS-C	CS		CS-01	TP-03
											PIT	Y2			
											ST-C	CS		CS-01	
	Valve Name	f	3 RR Pu	mp Discharg	e FCV AC	CT Retract	OTBD V	v							
1B33-F340A	M-93-1	E2	2	В	0.5	GL	SO	A	0	С	FS-C	CS		CS-01	TP-03
											ΡΙΤ	Y2			
											ST-C	CS		CS-01	
	Valve Name		A RR Pu	mp Discharg	e FCV AC	CT Lockou	t INBD VI	v			_				
1B33-F340B	M-93-2	D2	2	В	0.5	GL	SO	A	0	С	FS-C	CS		CS-01	TP-03
											PIT	Y2			
											ST-C	cs		CS-01	
	Value Name			m Diachan											
	VAIVE Maille	. 1	в нн ри	mp Discharg	E LON AL	LOCKOU		V							
1B33-F341A	M-93-1	E1	2	B	0.5	GL	SO	A	0	С	FS-C	CS		CS-01	TP-03
1B33-F341A	M-93-1	E1	2	B	0.5	GL	SO	A	0	С	FS-C PIT	CS Y2		CS-01	TP-03
1B33-F341A	M-93-1	E1	2	B	0.5	GL	SO	A	0	С	FS-C PIT ST-C	CS Y2 CS		CS-01 CS-01	TP-03
1B33-F341A	M-93-1 Valve Name	Et	2 A RR Pu	B mp Discharg	0.5	GL GL	SO t OTBD V	A A /lv	0	С	FS-C PIT ST-C	CS Y2 CS		CS-01 CS-01	TP-03
1B33-F341A 1B33-F341B	Valve Name Valve Name M-93-2	Et D1	2 A RR.Pu 2	B mp Discharg B	0.5 e FCV AC 0.5	GL GL GL	t OTBD V SO	V A /Iv A	0	C C	FS-C PIT ST-C FS-C	CS Y2 CS CS		CS-01 CS-01 CS-01	TP-03 TP-03
1B33-F341A 1B33-F341B	M-93-1 Valve Name M-93-2	E1	2 A RR Pu 2	B mp Discharg B	0.5 e FCV AC	GL GL GL GL		N A /Itv A	0	C C	FS-C PIT ST-C FS-C PIT	CS Y2 CS CS Y2		CS-01 CS-01 CS-01	TP-03
1B33-F341A 1B33-F341B	M-93-1 Valve Name M-93-2	E1 D1	2 A RR Pu 2	B mp Discharg B	0.5 e FCV AC	GL GL CT Lockou GL	SO toted v SO	✓A /!v A	0	С	FS-C PIT ST-C FS-C PIT ST-C	CS Y2 CS CS Y2 CS		CS-01 CS-01 CS-01 CS-01	TP-03
1B33-F341A 1B33-F341B	M-93-1 Valve Name M-93-2 Valve Name	E1	A RR Pu 2 B RR Pu B RR Pu	mp Discharg mp Discharg B	0.5 e FCV AC 0.5	GL GL GL CT Lockou GL		N A /iv A	0	С	FS-C PIT ST-C FS-C PIT ST-C	CS Y2 CS CS Y2 CS		CS-01 CS-01 CS-01 CS-01	TP-03
1B33-F341A 1B33-F341B 1B33-F342A	Valve Name M-93-1 Valve Name M-93-2 Valve Name M-93-1	E1 D1	2 A RR Pu 2 B RR Pu 2	mp Discharg B mp Discharg B mp Discharg B	0.5 e FCV AC 0.5 e FCV AC 0.5	GL GL CT Lockou GL CT Lockou		× A /lv A	0	C C	FS-C PIT ST-C FS-C PIT ST-C FS-C	CS Y2 CS CS Y2 CS CS		CS-01 CS-01 CS-01 CS-01 CS-01	TP-03 TP-03 TP-03
1B33-F341A 1B33-F341B 1B33-F342A	M-93-1 Valve Name M-93-2 Valve Name M-93-1	E1 D1 D2	2 A RR Pu 2 B RR Pu 2	mp Discharg mp Discharg B mp Discharg B	0.5 e FCV AC 0.5 e FCV AC 0.5	GL GL CT Lockou GL CT Lockou		× A //v A //v A	0	c c c	FS-C PIT ST-C FS-C PIT ST-C FS-C PIT	CS Y2 CS CS Y2 CS CS Y2		CS-01 CS-01 CS-01 CS-01 CS-01	TP-03 TP-03 TP-03
1B33-F341A 1B33-F341B 1B33-F342A	Valve Name M-93-1 M-93-2 Valve Name M-93-1	D1	2 A RR Pu 2 B RR Pu 2	mp Discharg B mp Discharg B mp Discharg B	0.5 e FCV AC 0.5 e FCV AC 0.5	GL GL CT Lockou GL CT Lockou	t OTBD V SO t OTBD V SO	×A	0	C C	FS-C PIT ST-C FS-C PIT ST-C FS-C PIT ST-C	CS Y2 CS CS Y2 CS CS Y2 CS Y2 CS		CS-01 CS-01 CS-01 CS-01 CS-01 CS-01	TP-03 TP-03

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Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1B33-F342B	M-93-2	C2	2	В	0.5	GL	SO	A	0	С	FS-C	CS		CS-01	TP-03
											PIT	Y2			
											ST-C	CS		CS-01	
	Valve Name	8	3 RR Pu	mp Discharg	e FCV AC	CT Seal Re	eturn INB	D Vlv							
1B33-F343A	M-93-1	D1	2	В	0.5	GL	SO	A	. 0	С	FS-C	CS		CS-01	TP-03
											PIT	Y2			÷
									٠		ST-C	CS		CS-01	
	Valve Name		A RR Pu	mp Discharg	e FCV AC	CT Seal Re	eturn OT	3D VIv							
1B33-F343B	M-93-2	C1	2	В	0.5	GL	SO	А	0	С	FS-C	CS		CS-01	TP-03
	,										PIT	Y2			
											ST-C	CS		CS-01	
	Valve Name		B RR Pu	mp Discharg	e FCV AC	CT Seal Re	eturn OTI	3D VIv							
1B33-F344A	M-93-1	C2	2	В	0.75	GL	SO	. A	0	С	FS-C	CS		CS-01	TP-03
											PIT	Y2			
											ST-C	CS		CS-01	
	Valve Name	•	A Rx Re	circ Pump D	sch FCV H	Hyd Actuat	or inbd V	′lv							
1B33-F344B	M-93-2	C2	2	В	0.75	GL	SO	A	0	С	FS-C	CS		CS-01	TP-03
											PIT	Y2			
											ST-C	CS		CS-01	
	Valve Name	• .	B Rx Re	circ Pump D	sch FCV I	lyd Actuat	or Inbd V	/lv							
1B33-F345A	M-93-1	· C1	2	В	0.75	GL	SO	Α	0	c	FS-C	CS		CS-01	TP-03
											PIT	Y2			
											ST-C	CS		CS-01	•
	Valve Name	) 	A Rx Re	circ Pump D	sch FCV I	lyd Actuat	tor Otbd	Viv							
1B33-F345B	M-93-2	C1	2	В	0.75	GL	SO	A	0	С	FS-C	CS		CS-01	TP-03
											PIT	Y2			
											ST-C	CS		CS-01	
	Valve Name	).	B Rx Re	circ Pump D	sch FCV I	Hyd Actuat	tor Otbd	VIv							
1B33-F395	M-93-2	E6	2	A/C	0.75	СК	SA	A	С	O/C	cc	CM		CS-15	CM07
											CO	CM		CS-15	CM07
											LT-J	АррЈ			
	Valve Name	)	Rx Recir	c Loop Proc	ess Samp	ling Inbd E	Bypass V	lv							
2B33-F013A	M-139-	1 B7	2	A/C	0.75	СК	SA	A	SYS	С	CC	RR		RJ-02	
											СО	OP			TP-05, TP- 01
											LT-J	Аррј			
	Valve Name	•	A Rx Re	circ Pump S	eal Purge	Supply Inl	od Check	: VIv							

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Reactor	Reci	ircul	lat	ion
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Vaive EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2B33-F013B	M-139-2	B7	2	A/C	0.75	СК	ŞA	A	SYS	С	CC	RR		RJ-02	
											со	OP			TP-05, TP 01
											LT-J	AppJ			
	Valve Name	1	B Rx Red	circ Pump Se	ai Purge	Supply Int	d Check	Viv							
2B33-F017A	M-139-1	B7	2	A/C	0.75	СК	SA	A	SYS	С	CC	RR		RJ-02	
			•								CO	OP			TP-05, TP 01
											LT-J	AppJ			
	Valve Name		A Rx Rec	circ Pump Se	al Purge	Supply Ot	bd Check	: Vlv							
2B33-F017B	M-139-2	B7	2	A/C	0.75	CK	SA	Α	SYS	C	CC	RR	ŗ	RJ-02	
											со	OP			TP-05, TP 01
										· ·	LT-J	АррЈ			•
	Valve Name	i	B Rx Red	circ Pump Se	al Purge	Supply Ot	bd Check	: VIv							
2B33-F019	M-139-2	E6	2	A	0.75	GL	AO	A	0	С	FS-C	MЗ			TP-03
	•										LT-J	AppJ			
											PIT	Y2			
											ST-C	М3			
	Valve Name		B Rx Red	circ Loop Pro	cess San	pling Inbo	l Isol Val	/e							
2B33-F020	M-139-2	E8	2	A	0.75	GL	AO	A	0	C	FS-C	MЗ			TP-03
											LT-J	АррЈ			
											PIT	Y2			
							· ·				ST-C	МЗ			
<u></u>	Valve Name		B Rx Red	circ Loop Pro	icess Sam	pling Otb	d Isol Val	ve							
2B33-F301A	M-139-1	D8	2	С	0.75	XFC	SA	Α	0	С	CC	RR		RJ-07	TP-10
											co	OP			TP-05, TP- 01
											PiT	Y2			
	Valve Name		A Rx Red	circ Pump Su	ict Press I	RHR Intlk	EFV	••••							
2B33-F301B	M-139-2	C8	2	С	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
											co	OP			TP-05, TP- 01
											PIT	Y2			
0000 50054	vaive Name	1 50		arc Pump SL	O 75					<u> </u>		00	•	D 1 07	TD 10
2033-F305A	WI-2139-	i E3	2	C	0.75	AFC	54	A	0	U	00			MJ-07	
											00	0F			01
											PIT	Y2			
	Valve Name		A Rx Red	circ Pump Fle	ow Hi Side	e Check V	alve								

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Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2B33-F305B	M-2139-	1 D3	2	С	0.75	XFC	SA	A	0	С	СС	RR		RJ-07	TP-10
											со	OP			TP-05, TP- 01
	Valve Name		A Rx Red	circ Pump Fl	ow Hi Side	e Check V	alve				PIT	Y2		•	
2B33-F305C	M-2139-	1 C3	2	С	0.75	XFC	SA	A	0 .	С	CC	RR	·	RJ-07	TP-10
											со	OP			TP <del>.</del> 05, TP- 01
											PIT	Y2			
	Valve Name A Rx Recirc Pump Flow Hi Side Check Valve														
2B33-F305D	M-2139-	1 B3	2	С	0.75	XFC	SA	Α	0	С	CC	RR		RJ-07	TP-10
											со	OP			TP-05, TP- 01
											PIT	Y2			
2B33-F307A	Valve Name	1 52	A HX He	Circ Pump Fi	0W LO SIO		alve	Δ				DD		B107	TP-10
	WI-2139-	1 53	2	U .	0.75	Χrυ	54	~	0	U	00				TP.05 TP.
											CU DIT	UP VO			01
	Valve Name			circ Pump El	ow Lo Sid	le Check \	/alve				PII	12			
2B33-E307B	M-2139-	1 D3	2		0.75	XFC	SA	. A	0	С	CC	BB		BJ-07	TP-10
				-					_	_	со	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name	r -	A Rx Re	circ Pump Fl	ow Lo Sid	ie Check \	/alve								
2B33-F307C	M-2139-	1 C3	2	С	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
							·				со	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name	) 	A Rx Re	circ Pump Fl	ow Lo Sid	le Check \	/alve		`						
2B33-F307D	M-2139-	1 B3	2	С	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
									·		ĊŎ	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name		A Rx Re	circ Pump Fi	low Hi Sid	e Check V	alve	<u> </u>							
2B33-F311A	M-2139-	2 E3	2	С	0.75	XFC	SA	A	0	C	00	нн		RJ-07	1P-10
· .											CO	99			12-05, 12- 01
											PIT	Y2			
	Valve Name		B Rx Re	circ Pump Fl	low Lo Sic	le Check \	/alve								

**Reactor Recirculation** 

**Revision Date:** 

Reactor	Recirculation
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Valve EPN	P&ID	P&ID Coor.	Code Class	iST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2B33-F311B	M-2139-2	2 E3	2	С	0.75	XFC	SA	A	0	С	СС	RR		RJ-07	TP-10
											со	OP			TP-05, TP- 01
	Valve Name		B By Ber	circ Pumo El	ow Io Sid	e Check V	alve				PIT	Y2		·	
2B33-F311C	M-2139-2	2 C3	2	C	0.75	XFC	SA	A	0	С	СС	RR		RJ-07	TP-10
											со	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name B Rx Recirc Pump Flow Lo Side Check Valve														
2B33-F311D	M-2139-	2 C3	2	С	0.75	XFC	SA	A	. 0	С	CC	RR	-	RJ-07	TP-10
											со	OP			TP-05, TP- 01
	Value Nama			tina Duma Fl		Charles	-h-o				PIT	Y2			
0000 00104	Valve Name				0.75				·			DD		D107	TB 10
2033-F313A	WI-2 139-	2 73	2	C	0.75	AFC	54	~	Ŭ	U	со	OP		-0-07	TP-05, TP-
											PIT	Y2			U1
	Valve Name	I	B Rx Red	circ Pump Fl	ow Hi Side	e Check V	alve								
2B33-F313B	M-2139-	2 E3	2	С	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
											со	OP			TP-05, TP- 01
	Valve Name		R Ry Re	circ Pump Fl	ow Hi Side	e Check V	alve				PIT	Y2			
2B33-F313C	M-2139-	2 D3	2	C	0.75	XFC	SA	Α	0	c	CC	RR		RJ-07	TP-10
											со	OP			TP-05, TP- 01
	Volue Norma			eire Burn Fl	au Hi Dial	Checky	nh a				PIT	Y2			
1011 01100	M 2120	2 (2			0.75			Δ						<b>P107</b>	TP.10
2000-60100	W-2135-	2 03	ć,	<b>U</b> .	0.75	XPU .		~			со	OP		NJ-07	TP-05, TP-
											PIT	Y2			Ŭ,
	Valve Name		B Rx Red	circ Pump Fl	ow Lo Sid	e Check V	alve								
2B33-F315A	M-2139-	3 D2	2	С	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
											CO	OP			TP-05, TP- 01
										·	PIT	Y2			

**Revision Date:** 

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Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2B33-F315B	M-2139-3	D2	2	С	0.75	XFC	SA	A	0	С	CC	RR	<u>.</u>	RJ-07	TP-10
											CO	OP			TP-05, TP- 01
	Valve Name		A Rx Red	circ Pump D/	p Hi Side	Check Va	lve				PIT	Y2			
2B33-F315C	M-2139-4	D3	2	С	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
											co	OP			TP-05, TP- 01
											ΡΙΤ	Y2			
<u></u>	Valve Name A Rx Recirc Pump D/p Lo Side Check Valve.														
2B33-F315D	M-2139-4	1 D3	2	С	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
											со	OP			TP-05, TP- 01
											PIT	Y2			
0000 50174	Valve Name		A Rx Re	circ Pump D	/p Hi Side	Check Va	lve	•				00		<u> </u>	TD 10
2B33-F317A	M-2139-8	3 <del>F</del> 5	2	С	0.75	XFC	SA	Α	0	C	00	нн		HJ-07	1P-10
											00	OP			1P-05, 1P- 01
	M					<b>.</b>	<b>0</b> 1				PH	¥2			
0000 E017D	Valve Name	0.05		Circ Pump Se			<u> </u>							- <b>D</b> 107	TP-10
2000-60170	WI-2 109-0	5 05	2	C	0.75	ALC.	54	~	U	C	00	ΩP		110-07	TP.05 TP.
											PIT	V2			01
	Valve Name B Rx Recirc Pump Seal Cav 2 Press Inst CV														
2B33-F319A	M-2139-6	3 E5	2	C	0.75	XFC	SA	A	0	С	CC	BB		RJ-07	TP-10
											со	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name		A Rx Re	circ Pump S	eal Cav 1	Press Inst	CV				_				
2B33-F319B	M-2139-	B C5	2	С	0.75	XFC	SA	· A	0	С	CC	RR		RJ-07	TP-10
						. ,		•			ĊO	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name		B Rx Re	circ Pump S	eal Cav 1	Press Inst	CV								
2B33-F338A	M-139-1	E2	2	В	0.75	GL	SO	. A	0	С	FS-C	CS		CS-01	TP-03
											PIT	Y2			
	Value Name			cire Dumo D	ech ECV 1	Jud Actur	for Inhell	/h/			ST-C	CS		CS-01	
	valve Name		A NX HE	ond Pump D	SCH PCV I	nyu Actua	IOT INDO V	/17							

**Reactor Recirculation** 

Revision Date:
Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2B33-F338B	M-139-2	E2	2	B	0.75	GL	SO	A	0	С	FS-C	CS		CS-01	TP-03
											PIT	Y2			
									6		ST-C	CS		CS-01	
	Valve Name	ا ا	3 Rx Red	circ Pump Ds	ch FCV H	yd Actuat	or Inbd V	lv							
2B33-F339A	M-139-1	E1	2	В	0.75	GL	SO	Α	0	С	FS-C	CS	•	CS-01	TP-03
											PIT	Y2			
								<b>6</b>			ST-C	CS		CS-01	
	Valve Name		A HX He	CIFC Pump Ds		yd Actuat							<u></u>		70.00
2833-1-3398	M-139-2	El	2	В	0.75	GL	50	. A	0	C	FS-C	çs		05-01	12-03
											PII	¥2		00.04	
	Mahaa Mama			sias Duras Da		فمنغمة أمنا		0.7			SI-C	CS		CS-01	
	Valve Name			circ Pump Ds		yd Actuat					50.0			CE 01	TD 02
2833-F340A	W-139-1	E2	2	B	0.5	GL	30	A	0	C	гэ-с ріт	03 V0		03-07	18-03
											ен ет с	12		CC 01	
	Valve Name		A Rx Rei	circ Pump Ds	sch FCV ⊢	lyd Act Lo	ckout Inb	d VIv			31-0	03		03-01	
2B33-F340B	M-139-2	D2	2	B	0.5	GL	SO	A	0	С	FS-C	CS		CS-01	TP-03
											PIT	Y2			
											ST-C	CS		CS-01	
	Valve Name		B Rx Re	circ Pump Ds	ich FCV ⊢	lyd Act Lo	ckout Inb	d Vlv					•		
2B33-F341A	M-139-1	E1	2	В	0.5	GL	SO	A	0	С	FS-C	CS		CS-01	TP-03
											PIT	Y2			
											ST-C	CS		CS-01	
	Valve Name		A Rx Re	circ Pump Ds	ch FCV F	lyd Act Lo	ckout Ott	od Viv					· .		
2B33-F341B	M-139-2	D1	2	В	0.5	GL	SO	A	0	С	FS-C	CS		CS-01	TP-03
											PIT	Y2			
											ST-C	CS		CS-01	
	Valve Name		B Rx Re	circ Pump De	ch FCV H	lyd Act Lo	ckout Ott	od Vlv						• •	
2B33-F342A	M-139-1	D2	2	В	0.5	GL	SO	A	0	С	FS-C	CS		CS-01	TP-03
											PIT	Y2			
											ST-C	ĊS		CS-01	
			A Rx Re	circ Pump Ds	sch FCV H	lyd Actuat	or inbd is	ol V							
	Valve Name	-		~	0.5	GL	SO	A	0	С	FS-C	CS		CS-01	TP-03
2B33-F342B	Valve Name M-139-2	D2	2	В	0.0										
2B33-F342B	Valve Name M-139-2	D2	2	В	0.0						PIT	Y2			
2B33-F342B	Valve Name M-139-2	D2	2	В	0.0						PIT ST-C	Y2 CS		CS-01	

**Revision Date:** 

10/24/08

Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2B33-F343A	M-139-1	D1	2	В	0.5	GL	SO	A	0	С	FS-C	CS		CS-01	TP-03
											PIT	Y2			
											ST-C	CS		CS-01	
	Valve Name		A Rx Red	circ Pump Ds	ch FCV H	lyd Actuat	or Otbd V	/lv							
2B33-F343B	M-139-2	D1	2	В	0.5	GL	SO	Α	0	С	FS-C	CS		CS-01	TP-03
											PIT	Y2			
											ST-C	CS		CS-01	
	Valve Name		B Rx Red	circ Pump Ds	ch FCV H	lyd Actuat	or Otbd V	/lv							
2B33-F344A	M-139-1	C2	2	В	0.75	GL	SO	А	0	С	FS-C	CS		CS-01	TP-03
											PIT	Y2			
											ST-C	CS		CS-01	
	Valve Name		A Rx Red	circ Pump Ds	ch FCV F	lyd Actuat	or inbd V	<del>ا</del> ب							
2B33-F344B	M-139-2	C2	2	В	0.75	GL	SO	. <b>A</b>	0	С	FS-C	CS		CS-01	TP-03
											PIT	Y2			
											ST-C	CS		CS-01	
	Valve Name		B Rx Re	circ Pump De	ch FCV H	lyd Actuat	or Inbd V	lv							
2B33-F345A	M-139-1	C1	. 2	B	0.75	GL	SO	А	0	С	FS-C	CS		CS-01	TP-03
											PIT	Y2			
											ST-C	CS		CS-01	
	Valve Name		A Rx Re	circ Pump De	ch FCV H	lyd Actuat	or Otbd \	/iv		<u> </u>					
2B33-F345B	M-139-2	C1	2	В	0.75	GL	SO	Α	0	С	FS-C	CS		CS-01	TP-03
		·			,						PIT	Y2			
											ST-C	CS		CS-01	
	Valve Name		B Rx Re	circ Pump De	sch FCV H	lyd Actuat	or Otbd \	/lv							
2B33-F395	M-139-2	2 E7	2	A/C	0.75	CK	SA	A	C	O/C	CC	CM		CS-15	CM07
											CO	CM		CS-15	CM07
											LT-J	AppJ			
	Valve Name		Rx Recir	c Loop Proce	ess Samp	ing Inbd E	sypass VI	V .		·					

**Reactor Recirculation** 

Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test F <i>r</i> eq.	Relief Request	Deferred Just.	Tech. Pos.
1G33-F001	M-97-1	E8	1	A	6	GA	мо	A	0	Ċ	ΕT	CS	RV-02	CS-02	
											LT-J	AppJ			
											OMN-C	JOG	RV-02		
	Valve Name		RWCUIr	board Isolati	ion Valve			<u> </u>							
1G33-F004	M-97-1	' E7	1	А	6	GA	MO	A	0	С	ET	CS	RV-02	CS-02	
											LT-J	AppJ			
											OMN-C	JOG	RV-02		
	Valve Name		RWCU O	utboard Isola	ation Valv	e									
1G33-F040	M-97-1	F4	2	А	4	GA	МО	A	0	С	ΕT	Y2	RV-02		
											LT-J	АррЈ			
											OMN-C	JOG	RV-02		
	Valve Name		RWCU R	leturn To Fee	edwater S	top Valve									
1G33-F309	M-2097-	1 C4	2	С	0.75	XFC	SA	Α	0	С	CC	RR		RJ-07	TP-10
											co	OP			TP-05, TP- 01
											PIT	Y2			•
	Valve Name		Rx Vsl Bo	ottom Head [	Orn Exces	s Flow Ch	eck Valv	e							
1G33-F312A	M-2097-	2 C4	2	С	0.75	XFC	SA	Α	0	С	CC	RR		RJ-07	TP-10
											со	OP			TP-05, TP-
											DIT	Vo			01
	Valve Name		BWCUS	init Lo Sic	ie Frcess	Flow Che	ck Valve				r II	12			
1G33-F312B	M-2097-	2 C4	2	C	0.75	XFC	SA	A	0	С		BB		BJ-07	TP-10
			_	-					-	-	со	OP			TP-05, TP-
															.01
											PIT	Y2			
	Valve Name		RWCU S	iys Init Hi Sid	e Excess	Flow Che	ck Valve								
2G33-F001	M-143-1	E8	1	Α	6	GA	МО	А	0	С	ET	CS	RV-02	CS-02	
											LT-J	АррЈ			
	·.										OMN-C	JOG	- RV-02		
	Valve Name		RWCU Ir	board Isolat	ion Valve										
2G33-F004	M-143-1	E7	1	A	6	GA	мо	A	0	C	· E1	CS	HV-02	CS-02	
											LI-J	AppJ			
											OMN-C	JOG	HV-02		
											OMN-O	JOG	RV-02		
	Valve Name		RWCUC	outboard Isol	ation Valv	e									
2G33-F040	M-143-1	F4	2	A	4	GA	MO	A	0	С	E1	Y2	HV-02		
											LT-J	AppJ			
			DU-0								OMN-C	JOG	RV-02		
. <u></u>	Valve Name		HWCU R	leturn To Fee	edwater S	top Valve									
Ravision	Dates		1/	0/24/08			200 11	4 of 128							

Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Defer <del>red</del> Just.	Tech. Pos.
2G33-F309	M-2143-	1 D5	2	С	0.75	XFC	SA	Α	0	С	СС	ŔŔ		RJ-07	TP-10
											со	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name		Rx Vsl Bo	ottom Head I	Orn Exces	s Flow Ch	eck Valv	e							
2G33-F312A	M-2143-	2 C4	2	С	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
											со	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name		RWCU S	ys Init Lo Sid	de Excess	Flow Che	ck Valve								
2G33-F312B	M-2143-	2 C4	2	С	0.75	XFC	SA	A	0	С	CC	RR		RJ-07	TP-10
											со	OP			TP-05, TP- 01
											PIT	Y2			
	Valve Name		RWCU S	iys Init Hi Sic	le Excess	Flow Che	ck Valve								

**Reactor Water Cleanup** 

Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1C41-F001A	M-99	C3	2	В	3	GL	МО	A	С	0	ĒT	Y2	RV-02		
											OMN-O	JOG	RV-02		
	Valve Name	:	SBLC St	orage Tank /	A Outlet V	alve									
1C41-F001B	M-99	B3	2	В	3	GL	МО	A	С	0	ET	Y2	RV-02		
											OMN-O	JOG	RV-02		
	Valve Name	:	SBLC St	orage Tank E	3 Outlet V	alve			·						
1C41-F004A	M-99	C5	1	A/D	1.5	SHR	EXP	A	С	O/C	DT	S2			
											LT-J	AppJ			
	Valve Name		A SBLC	Injection Squ	ib Valve								•		
1C41-F004B ·	M-99	B5	1	A/D	1.5	SHR	EXP	A	С	O/C	DT	S2			•
											LT-J	АррЈ			
	Valve Name		B SBLC	Injection Squ	ib Valve										
1C41-F006	M-99	D6	1	С	1.5	СК	SA	Α	С	O/C	CC	Y2		CS-11	
									-		со	Y2		CS-11	
	Valve Name		SBLC Inj	ection Line C	Outboard (	Check Val	ve								
1C41-F007	M-99	D7	1	A/C	1.5	СК	SA	Α	С	O/C	CC	Y2		CS-11	
											CO	Y2		CS-11	
											LT-J	AppJ			
•	Valve Name		SBLC Inj	ection Line I	nboard Cl	neck Valve							<u> </u>		
1C41-F008	M-99	D7	1	В	1.5	GA	М	Р	LO	0,	PIT	Y2			
	Valve Name		SBLC Inj	ection Line N	lanual St	op Valve			· · · · · · · ·						
1C41-F029A	M-99	D4	2	С	.75 x 1	RV	SA	A	С	0/C	RVT	Y10			
	Valve Name		A SBLC	Pump Discha	arge Relie	f Valve									
1C41-F029B	M-99	C4	2	С	.75 x 1	RV	SA	А	С	O/C	RVT	Y10			
	Valve Name		BSBLC	Pump Discha	arge Helle	t Valve									
1C41-F031	M-99	£3	2	B	3	GL	М	Р.	LC	C	PIT	Y2			
	Valve Name		SBLC Te	est Tank Outle	et Valve										
1C41-F033A	M-99	C5	2	С	1.5	СК	SA	A	SYS	O/C	ÇÇ	M3			
					-						со	M3			
	Valve Name	1	A SBLC	Pump Discha	irge Chec	k Valve		-	-					-1)Ma (	
1C41-F033B	M-99	B4	2	С	1.5	СК	SA	A	SYS	O/C	CC	M3			
											CO	MЗ			
	Valve Name		BSBLC	Pump Discha	arge Chec	k Valve					<b>.</b> ,				
2C41-F001A	M-145	C2	2	В	3	GL	MO	A	C	. 0	ET	Y2	RV-02		
				<b>.</b>							OMN-O	JOG	RV-02		
	Vaive Name	ŝ	SBLC St	orage Tank A	Outlet V	alve									

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otunia		quiu	001101

Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2C41-F001B	M-145	B2	2	В	3	GL	МО	Α	С	0	ET	Y2	RV-02		
											OMN-O	JOG	RV-02		
	Valve Name		SBLC St	orage Tank I	3 Outlet V	alve									
2C41-F004A	M-145	C5	1	A/D	1.5	SHR	EXP	A	С	O/C	DT	S2			
											LT-J	AppJ			
	Valve Name		A SBLC	Injection Squ	ib Valve									•	
2C41-F004B	M-145	B5	. 1	A/D	1.5	SHR	EXP	Α	С	O/C	DT	S2			
											LT-J	AppJ			
	Valve Name	• 1	B SBLC	Injection Squ	uib Valve										
2C41-F006	M-145	D6	1	С	1.5	СК	SA	A	С	O/C	CC	Y2		CS-11	
											CO	Y2		CS-11	
	Valve Name		SBLC Inj	ection Line (	Dutboard (	Check Val	lve								
2C41-F007	M-145	D7	1	A/C	1.5	CK	SA	A	С	O/C	CC	Y2		CS-11	
											CO	Y2		CS-11	
											LT-J	AppJ			
	Valve Name	)	SBLC In	ection Line I	nboard Cl	neck Valve	е								
2C41-F008	M-145	D7	1	В	1.5	GA	М	Р	LO	0	PIT	Y2			
	Valve Name	•	SBLC Inj	jection Line I	Manual St	op Valve									
2C41-F029A	M-145	D4	2	С	.75 x 1	RV	SA	А	С	O/C	RVT	Y10			
	Valve Name	)	A SBLC	Pump Disch	arge Relie	f Valve									
2C41-F029B	M-145	C4	2	С	.75 x 1	RV	SA	А	С	O/C	RVT	Y10			
	Valve Name	•	B SBLC	Pump Disch	arge Relie	f Valve									
2C41-F031	M-145	E3	2	В	3	GL	М	Р	LC	С	PIT	Y2			
	Valve Name	)	SBLC Te	est Tank Out	let Valve										
2C41-F033A	M-145	C4	2	С	1.5	CK	SA	A	SYS	O/C	CC	M3			
											CO	M3			
	Valve Name	•	A SBLC	Pump Disch	arge Cheo	k Valve		•							
2C41-F033B	M-145	B4	2	С	1.5	СК	SA	A	SYS	O/C	CC	M3			
											<b>CO</b>	MЗ			
	Valve Name	•	B SBLC	Pump Disch	arge Cheo	k Valve									

Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1VG001	M-89	A7	NC	B	20	BTF	MO	A	C	O/C	PIT	Y2			
											ST-O	MЗ			TP-11
	Valve Name	5	SBGT Eq	uipment Tra	in Inlet Da	mper									
1VG003	M-89	C2	3	В	20	BTF	MO	A	С	O/C	PIT	Y2			
											ST-O	МЗ			TP-11
	Valve Name	5	BGT Eq	uipment Tra	in Outlet [	Damper									
2VG001	M-89	E7	NC	В	20	BTF	MO	A	С	O/C	PIT	· Y2			
											ST-O	MЗ			TP-11
	Valve Name		BGT Eq	uipment Tra	in Inlet Da	mper									
2VG003	M-89	E2	3	В	20	BTF	MO	A	С	O/C	PIT	Y2			
				×							ST-O	М3			TP-11
	Valve Name	9	SBGT Eq	uipment Tra	in Outlet (	Damper									
2VG024A	M-89	E1	3	С	0.75	СК	SA	A	SYS	С	CCD	CM		<u> </u>	CM03
											COD	СМ			CM03
											OPR				CM03
	Valve Name	. 9	SBGT Se	rvice Air Inle	t Downstr	eam Cheo	ck Valve								
2VG025A	M-89	E1	3	С	0.75	СК	SA	A	SYS	С	CCD	СМ			CM03
											COD	СМ			CM03
											OPR				CM03
	Valve Name		SBGT Se	rvice Air Inle	t Upstrea	m Check	/alve								

Standby Gas Treatment

Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1VP053A	M-86-1	E2	2	A	8	GA	МО	A	SYS	С	ET	Y2	RV-02		
											LT-J	АррЈ			•
											OMN-C	JOG	RV-02		
	Valve Name		A DW Co	oler Outlet C	Otbd Isol	/alve	,								
1VP053B	M-86-1	C2	2	A	8	GA	MO	А	SYS	С	ET	Y2	RV-02		
											LT-J	AppJ			
											OMN-C	JOG	RV-02		
	Valve Name		B DW Co	oler Outlet C	Otbd Isol V	/alve					•	•			
1VP063A	M-86-1	D2	2	А	8	GA	MO	A	SYS	C	ET	Y2	RV-02		
											LT-J	AppJ			
											OMN-C	JOG	RV-02		
	Valve Name		A DW Co	oler Inlet Ot	bd Isol Va	lve									
1VP063B	M-86-1	B2	2	А	8	GA	MO	Α	SYS	С	ΕŤ	Y2	RV-02		
											LT-J	AppJ			
											OMN-C	JOG	RV-02		
	Valve Name		B DW Co	ooler Inlet Ot	bd Isol Va	lve									
1VP113A	M-86-1	D2	2	А	. 8	BTF	MO	A	0	С	LT-J	АррЈ			
											PIT	Y2		•	
	•										ST-C	М3			
	Valve Name		A DW Co	ooler Inlet Int	od Isol Va	lve									
1VP113B	M-86-1	B2	2	· <b>A</b>	8	BTF	MO	А	0	С	LT-J	АррЈ			
											PIT	Y2			
											ST-C	M3			
	Valve Name		B DW Co	oler inlet int	od Isol Va	lve									
1VP114A	M-86-1	£2	2	A	8	RIF	MO	A	0	С	L1-J	AppJ			
											PH .	Y2			•
	Volue Nome			nolor Outlat i	mbal taal \	lahua					51-0	M3		· ·	
4)/D114D						aive				<u> </u>		Appl			<u></u>
IVP114B	IVI-80-1	62	2	A	8	BIF	MO	А	0	U,		Аррј			
											PH ST C	. 12			
	Value Name			nalar Qutlat	nhơ loại \	lahua					51-0	NI3			
11/01074	Valve Name	E1	B D W C				C A			0/0	IT 1	Appl			
1VP197A	W-60-1	FI	2	A/C	0.75	HV	5A	А	U	0/0		AppJ			<b>TD 00</b>
	Volue Name			polor Outlet	Doliof Vak						HV I	10			19-00
1\/P107P	Valve (taffie	·					¢۸	Δ		0/0	171	Anni			
IVF 13/D	IVI-00- (	02	۷	ALC.	0.75	ΠV	SM	A	U			740 710			
	Valva Name		R DW C	noler Outlet I	Relief Val	<i>1</i> 0						10			· 11 °00
			5.0400												

**Primary Containment Chilled Water** 

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#### Primary Containment Chilled Water

Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1VP198A	M-86-1	E2	2	A/C	0.75	RV	SA	A	С	0/C	LT-J	AppJ	st. ng.         Relief Request         Deferred Just.           npJ		
	Valve Name	,	A DW Co	oler inlet Re	elief Valve						RVT	Y10			TP-08
1VP198B	M-86-1	A2	2	A/C	0.75	RV	SA	Α	С	O/C	LT-J	AppJ			
											RVT	Y10			TP-08
	Valve Name	l	B DW Co	oler Inlet Re	elief Valve										
2VP053A	M-133-1	E2	2	A	8	GA	MO	А	SYS	С	ET	Y2	RV-02		
											LT-J	AppJ			
											OMN-C	JOG	RV-02		
·····	Valve Name		A DW Co	oler Outlet C	Otbd Isol V	alve	•								
2VP053B	<b>M-133-</b> 1	C2	2	А	8	GA	МО	Α	SYS	С	ET	Y2	RV-02		
									•		LT-J	АррЈ			
											OMN-C	JOG	RV-02		
	Valve Name		B DW Co	oler Outlet C	Otbd Isol V	alve									
2VP063A	M-133-1	D2	2	Α	8	GA	МО	Α	SYS	С	ET	Y2	RV-02		
											LT-J	AppJ		Just.	
											OMN-C	JOG	RV-02		
	Valve Name		A DW Co	oler Inlet Ot	bd Isol Va	ive							<u> </u>		
2VP063B	M-133-1	B2	. 2	А	8	GA	МО	Α	SYS	С	ET	Y2	RV-02		
											LT-J	AppJ			
											OMN-C	JOG	RV-02		
	Valve Name		B DW Co	oler Inlet Ot	bd Isol Va	ve									<u>.</u>
2VP113A	M-133-1	D2	2	Α	8	BTF	MO	А	0	С	LT-J	АррЈ			
						•					PIT	Y2			
											ST-C	MЗ			
	Valve Name		A DW Co	oler inlet int	od Isol Val	ve									
2VP113B	M-133-1	B2	2	A	8	BTF	MO	A	0	C	LT-J	AppJ			
											PIT	Y2			
											ST-C	MЗ			
	Valve Name		B DW Co	oler inlet int	od Isol Vat	ve									
2VP114A	M-133-	E2	2	A	8	BTF	MO	А	0	С	LT-J	АррЈ			
											PIT	Y2			
											ST-C	M3			
	Valve Name		A DW Co	oler Outlet li	nbd Isol V	alve									
2VP114B	M-133-1	C2	2	A	8	BTF	MO	A	0	С	LT-J	АррЈ			
											PIT	Y2			
											ST-C	МЗ			
	Valve Name		B DW Co	oler Outlet I	nbd Isol V	alve									

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Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normai Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2VP197A	M-133-1	F1	2	A/C	0.75	RV	SA	A	С	O/C	LT-J	AppJ			
											RVT	Y10			TP-08
	Valve Name	· · ·	A DW Co	oler Outlet F	Relief Valv	e									
2VP197B	M-133-1	B5	2	A/C	0.75	RV	SA	A	С	O/C	LT-J	AppJ			
											RVT	Y10			TP-08
	Valve Name	. 1	B DW Co	oler Outlet F	Relief Valv	e									
2VP198A	M-133-1	A5	2	A/C	0.75	RV	SA	A	С	O/C	LT-J	AppJ			
							•				RVT	Y10			TP-08
	Valve Name		A DW Co	oler Inlet Re	eliet Valve										
2VP198B	M-133-1	A2	2	A/C	0.75	RV	SA	A	С	O/C	LT-J	AppJ		· · ·	
											RVT	Y10			TP-08
	Vaive Name	•	B DW Co	oler inlet Re	elief Valve									•	•

**Primary Containment Chilled Water** 

#### Primary Containment Purge

Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1VQ026	M-92-1	C2	2	A	26	BTF	AO	A	С	С	FS-C	MЗ		Deferred Just.	TP-03
											LT-J	AppJ			
											PIT	Y2			
											ST-C	М3			
	Valve Name	\$	Suppress	sion Chambe	r Vent/Pu	rge Inlet L	Ipstream	Isol							
1VQ027	M-92-1	C3	2	A	26	BTF	AO	A	С	С	FS-C	MЗ			TP-03
											LT-J	AppJ			
											PIT	Y2			
											ST-C	МЗ			
	Valve Name	9	Suppress	sion Chambe	r Vent/Pu	rge Inlet D	)ownstrm	Isol							
1VQ029	M-92-1	D2	2	A	26	BTF	AO	A	С	С	FS-C	МЗ			TP-03
											LT-J	АррЈ			
											PIT	Y2			
											ST-C	МЗ			
	Valve Name	. (	D/W Ven	t/Purge Inlet	Upstream	n Isolation									
1VQ030	M-92-1	D3	2	A	26	BTF	AO	A	С	с	FS-C	MЗ			TP-03
											٤T-J	AppJ			
											PIT	Y2			
											ST-C	M3			
	Valve Name	(	D/W Ven	t/Purge Inlet	Downstre	am Isolati	on								
1VQ031	M-92-1	C7	2	A	26	BTF	AO	A	С	С	FS-C	M3			TP-03
											LT-J	AppJ			
											PIT	Y2			
											ST-C	M3			
	Valve Name	\$	Suppress	sion Chambe	r Vent/Pu	rae Upstre	eam Isola	tion							
1VQ032	M-92-1	C7	2	Α	2	GL	MO	A	С	С	ET	Y2	RV-02		
		-								-	LT-J	AppJ		•	
											OMN-C	.106	BV-02		
	Valve Name		Supp Ch	amber Vent/	Purae Ou	tlet Upstrn	n isol Byr	ass							
1V0034	M-92-1		2	A	26	BTE	AO	A	C	С	ES-C	M3			TP-03
1.000	W OL 1		-	,,	20	0.11		~	U	Ũ	100	Anni			11 00
												7440 V0			
												12			
											SI-C	M3			
	Valve Name		J/W Ven	t/Purge Upst	ream Out	iet isolatio	n								
1 <b>VQ</b> 035	M-92-1	E6	2	A	2	GL	MO	A	С	С	ET	Y2	RV-02		
											LT-J	AppJ			
											OMN-C	JOG	RV-02		
	Valve Name	[	D/W Ven	t/Purge Upst	ream Out	let Isolatio	n Bypass								

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P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
M-92-1	E7	2	A	26	BTF	AO	A	с	с	FS-C	M3	<u></u>		TP-03
	*									LT-J	AppJ			
										ΡΙΤ	Y2			
						,				ST-C	M3			
Valve Name		D/W Ven	t/Purge Outle	et Downs	tream Isola	ation								
M-92-1	B8	NC	В	26	BTF	МО	A	C	С	PIT	Y2			
										ST-C	М3			
Valve Name		rimary (	Contain Purg	e Air Filte	er Unit Ups	trm Isol							ne	
M-92-1	Β/	ŅĊ	В	26	BIF	мо	A	C	C		¥2			
Natur Name	,	<b>D</b> uim an 1	Dantain Dum							SI-C	M3			
M 02 1		- nimary (									M2	<u></u>		TD 02
Valve EPN         P&ID           1VQ036         M-92-1           Valve Name           1VQ037         M-92-1           Valve Name           1VQ038         M-92-1           Valve Name           1VQ040         M-92-1           Valve Name           1VQ042         M-92-1           Valve Name           1VQ043         M-92-1	00	2	~	20	DIF	AU	~	C		17.1				11-03
							•			PIT	72 72			
										0.12	MB	Relief Deferred Just.		
Valve Name	9	Supp Ch	amber Vent/	Purge Ou	itlet Downs	stream Is	ol			01-0	NIC			
M-92-1	D2	2	A	8	BTF	AO	A	С	c	FS-C	M3			TP-03
										LT-J	AppJ	· .		
							•			PIT	Y2		Deferred Just.	
										ST-C	МЗ			
Valve Name		Dw N2 Ir	erting Suppl	y Valve										
M-92-1	C2	2	A	8	BTF	AO	. A	С	· C	FS-C	MЗ			TP-03
				•						LT-J	AppJ			
										PIT	Y2			
										ST-C	МЗ			
Valve Name		Sup Chb	r N2 Inerting	Supply V	alve	8414						•		
M-92-1	D3	2	A	1.5	GL	MO	A	0	С	ET	Y2			
										LT-J	АррЈ			
			•							OMN-C	JOG	RV-02		
Valve Name	: i	Dw N2 N	lakeup Dwns	st Isol Val	ve			·				in a fill the start of the start		
M-92-1	D3	2	A	1.5	GL	MO	A	0	С	ET	Υ2	RV-02		
										LT-J	АррЈ			
Value Name		OW NO N	lakoun Lindi		hio					OMN-C	JOG	RV-02		
Valve Name	<u> </u>	0 W NZ N		1 501 Va	CI	MO	Δ				V2	BV-02		
IVI-9∠-1	03	2	<b>^</b>	1.0	GL	WIU	м	0	U	сі (Т.)	Ann I	HV-UZ		
										L1-0	֊իիշ			
										OMNLC		80.02		
	P&ID           M-92-1           Valve Name           M-92-1	P&ID         P&ID         Coor.           M-92-1         E7           Valve Name         M           M-92-1         B8           Valve Name         M           M-92-1         B7           Valve Name         M           M-92-1         C8           Valve Name         M           M-92-1         C2           Valve Name         M           M-92-1         C2           Valve Name         M           M-92-1         D3           Valve Name         M           M-92-1         C3	P&ID         P&ID         Code Coor.         Code Class           M-92-1         E7         2           Valve Name         D/W Ven           M-92-1         B8         NC           Valve Name         Primary 0           M-92-1         B7         NC           Valve Name         Primary 0           M-92-1         C8         2           Valve Name         Supp Ch           M-92-1         D2         2           Valve Name         Dw N2 in           M-92-1         C2         2           Valve Name         Dw N2 in           M-92-1         C2         2           Valve Name         Dw N2 in           M-92-1         D3         2      Valve Name         Dw N2 in           M-92-1         C3         2	P&ID Coor.P&ID ClassIST CategoryM-92-1E72AValve NameD/W Vent/Purge Outland M-92-1B8NCBValve NamePrimary Contain PurgM-92-1B7NCBValve NamePrimary Contain PurgM-92-1C82AValve NameSupp Charrber Vent/M-92-1D22AValve NameDw N2 Inerting SupplM-92-1C22AValve NameSup Chbr N2 InertingM-92-1D32AValve NameDw N2 Makeup DwnsM-92-1D32AValve NameDw N2 Makeup DwnsM-92-1D32AValve NameDw N2 Makeup UpstrM-92-1C32A	P&ID         P&ID         Code Coor.         IST Category         Valve Size           M-92-1         E7         2         A         26           Valve Name         D/W Vent/Purge Outlet Downs           M-92-1         B8         NC         B         26           Valve Name         Primary Contain Purge Air Filte           M-92-1         B7         NC         B         26           Valve Name         Primary Contain Purge Air Filte           M-92-1         C8         2         A         26           Valve Name         Primary Contain Purge Air Filte           M-92-1         C8         2         A         8           Valve Name         Supp Chamber Vent/Purge Ou           M-92-1         D2         2         A         8           Valve Name         Sup Chbr N2 Inerting Supply Valve           M-92-1         D3         2         A         1.5           Valve Name         Sup Chbr N2 Inerting Supply V         Valve           M-92-1         D3         2         A         1.5           Valve Name         Dw N2 Makeup Dwnst Isol Valva           M-92-1         D3         2         A         1.5           Va	P&IDP&IDCodeIST ClassValve CategoryValve SizeValve TypeM-92-1E72A26BTFValve NameD/W Vent/Purge Outlet Downstream IsolaM-92-1B8NCB26BTFValve NamePrimary Contain Purge Air Filter Unit UpsM-92-1B7NCB26BTFValve NamePrimary Contain Purge Air Filter Unit DwnM-92-1C82A26BTFValve NameSupp Chamber Vent/Purge Outlet DownsM-92-1D22A8BTFValve NameDw N2 Inerting Supply ValveM-92-1C22A8BTFValve NameDw N2 Inerting Supply ValveM-92-1D32A1.5GLValve NameDw N2 Makeup Dwnst Isol ValveM-92-1D32A1.5GLValve NameDw N2 Makeup Upstrm Isol ValveM-92-1C32A1.5GL	P&IDP&IDCodeIST ClassValve CategoryValve SizeValve TypeACT. TypeM-92-1E72A26BTFAOValve NameD/W Vent/Purge Outlet Downstream IsolationM-92-1B8NCB26BTFMOValve NamePrimary Contain Purge Air Filter Unit Upstrm IsolM-92-1B7NCB26BTFMOValve NamePrimary Contain Purge Air Filter Unit Dwnstrm IsolM-92-1C82A26BTFAOValve NameSupp Chamber Vent/Purge Outlet Downstream IsoM-92-1D22A8BTFAOValve NameSupp Chamber Vent/Purge Outlet Downstream IsoM-92-1D22A8BTFAOValve NameSup Chbr N2 Inerting Supply ValveValveM-92-1D32A1.5GLMOValve NameDw N2 Makeup Dwnst Isol ValveM-92-1D32A1.5GLMOValve NameDw N2 Makeup Dwnst Isol ValveM-92-1D32A1.5GLMOValve NameDw N2 Makeup Upstrm Isol ValveM-92-1C32A1.5GLMO	P&IDPAIDCodeIST ClassValve SizeValve SizeValve TypeActive / PressiveM-92-1E72A26BTFAOAValve NameD/W Vent/Purge Outlet Downstream IsolationMoAValve NameD/W Vent/Purge Outlet Downstream IsolationACTActive / ACTM-92-1B8NCB26BTFMOAValve NamePrimary Contain Purge Air Filter Unit Upstrm IsolAValve NamePrimary Contain Purge Air Filter Unit Dwnstrm IsolAValve NameSupp Chamber Vent/Purge Outlet Downstream IsolAM-92-1C82A8BTFAOAValve NameSupp Chamber Vent/Purge Outlet Downstream IsolAValve NameDw N2 Inerting Supply ValveAAValve NameSup Chbr N2 Inerting Supply ValveAM-92-1D32A1.5GLMOAValve NameDw N2 Makeup Dwnst Isol ValveAAAAValve NameDw N2 Makeup Upstrm Isol ValveAAAAValve NameDw N2 Makeup Upstrm Isol ValveAAAAAValve NameDw N2 Makeup Upstrm Isol ValveAAAAAAAAAAAAAAAAAAAAAAAABCAAAA	P&IDP&IDCode ClassIST CategoryValve SizeValve TypeACT., PositionActive / PositionNormal PositionM-92-1E72A26BTFAOACValve NameD/W Vent/Purge Outlet Downstream IsolationMACCValve NameD/W Vent/Purge Outlet Downstream IsolationMACValve NamePrimary Contain Purge Air Filter Unit Upstrm IsolACValve NamePrimary Contain Purge Air Filter Unit Upstrm IsolACValve NamePrimary Contain Purge Air Filter Unit Downstream IsolACValve NameSupp Chamber Vent/Purge Outlet Downstream IsolACValve NameSupp Chamber Vent/Purge Outlet Downstream IsolACValve NameDw N2 Inerting Supply ValveAACValve NameSup Chibr N2 Inerting Supply ValveAACValve NameDw N2 Makeup Dwmst Isol ValveMAOValve NameDw N2 Makeup Upstrm Isol ValveAOAOValve NameDw N2 Makeup Upstrm Isol ValveMAOAOValve NameDw N2 Makeup Upstrm Isol ValveMAO<	P&ID         P&ID         Code         IST         Valve         Yalve         Active / Type         Active / Passive         Normal Position         Safety Position           M-92-1         E7         2         A         26         BTF         AO         A         C         C           Valve Name         D/W Vent/Purge Outlet Downstream Isolation          C         C         C           Valve Name         D/W Vent/Purge Outlet Downstream Isolation         M         AO         A         C         C           M-92-1         B8         NC         B         26         BTF         MO         A         C         C           Valve Name         Primary Contain Purge Air Filter Unit Upstrm Isol          C         C         C           Valve Name         Supp Chamber Vent/Purge Outlet Downstream Isol         A         C         C         C           Valve Name         Supp Chamber Vent/Purge Outlet Downstream Isol         A         C         C         C           Valve Name         Dw N2 Inerting Supply Valve         A         B         BTF         AO         A         C         C           Valve Name         Sup Chbr N2 Inerting Supply Valve         M         A         1.5	P&ID         P&ID         Code         IST         Valve         Valve         ACT.         Active /         Position         Salety         Test registion           M-92-1         E7         2         A         26         BTF         AO         A         C         C         FS-C           M-92-1         E7         2         A         26         BTF         AO         A         C         C         FS-C           Valve Name         D/W Vent/Purge Outer Downstream Isolation          A         C         C         PIT           M-92-1         B8         NC         B         26         BTF         MO         A         C         C         PIT           Valve Name         Primary Contain Purge Air Filter Unit Dewnstrm Isol         A         C         C         PIT           M-92-1         C8         2         A         26         BTF         AO         A         C         C         FS-C           M-92-1         C8         2         A         26         BTF         AO         A         C         C         FS-C           M-92-1         D2         A         8         BTF         AO         A <t< td=""><td>PAID         PAID         Coor.         Class         Category         Valve Size         Yalve Type         ACT. Type         Active/ Pasive         Normal Position         Safety Seliton         Test Rqmt         Fest Freq.           M-92-1         E7         2         A         26         BTF         AO         A         C         C         FSC         M3           M-92-1         B7         D/W Vent/Purge Outlet Downstream Isolaton         -         -         C         PIT         Y2           M-92-1         B8         NC         B         26         BTF         MO         A         C         C         PIT         Y2           M-92-1         B7         NC         B         26         BTF         MO         A         C         C         PIT         Y2           Valve Name         Primary Contain Purge Air Filter Unit Dunstrm Isol         -         -         ST-C         M3         LT-J         AppJ           M-92-1         C8         2         A         26         BTF         AO         A         C         C         FS-C         M3           M-92-1         D2         A         8         BTF         AO         A         C</td><td>PAID       Code       IST Class       Valve base       Valve Type       Active Passive Pas</td><td>PAID         Code         IST         Valve Size         Valve Valve Valve Mage         Active Type         Active Pasition         Normal Pasition         Safety Mage         Test Request         Relief Request         Defende Just.           M-92-1         E7         2         A         26         BTF         AO         A         C         C         FSC         M3         L         Just.         Just.</td></t<>	PAID         PAID         Coor.         Class         Category         Valve Size         Yalve Type         ACT. Type         Active/ Pasive         Normal Position         Safety Seliton         Test Rqmt         Fest Freq.           M-92-1         E7         2         A         26         BTF         AO         A         C         C         FSC         M3           M-92-1         B7         D/W Vent/Purge Outlet Downstream Isolaton         -         -         C         PIT         Y2           M-92-1         B8         NC         B         26         BTF         MO         A         C         C         PIT         Y2           M-92-1         B7         NC         B         26         BTF         MO         A         C         C         PIT         Y2           Valve Name         Primary Contain Purge Air Filter Unit Dunstrm Isol         -         -         ST-C         M3         LT-J         AppJ           M-92-1         C8         2         A         26         BTF         AO         A         C         C         FS-C         M3           M-92-1         D2         A         8         BTF         AO         A         C	PAID       Code       IST Class       Valve base       Valve Type       Active Passive Pas	PAID         Code         IST         Valve Size         Valve Valve Valve Mage         Active Type         Active Pasition         Normal Pasition         Safety Mage         Test Request         Relief Request         Defende Just.           M-92-1         E7         2         A         26         BTF         AO         A         C         C         FSC         M3         L         Just.         Just.

Primary Containment Purge

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1VQ051 V 1VQ068 2VQ026 V 2VQ027	M-92-1 Valve Name M-92-1 Valve Name M-138-1 Valve Name	C3 E7 C2	2 Sup Chbr 2 DW Vent 2	A r N2 Makeup A /purge Outle A	1.5 9 Upstrm II 2 t Dwnst Is 26	GL sol Valve GL sol Byp Va BTF	MO MO Ive	A	O C	O C	ET LT-J OMN-C ET LT-J	Y2 AppJ JOG Y2 AppJ	RV-02 RV-02 RV-02		
1VQ068 2VQ026 2VQ027	Valve Name M-92-1 Valve Name M-138-1 Valve Name M-138-1	E7 E7 C2	Sup Chbi 2 DW Vent 2	r N2 Makeup A /purge Outle A	t Dwnst Is	GL GL iol Byp Va BTF	MO	A	C	c	LT-J OMN-C ET LT-J	AppJ JOG Y2 AppJ	RV-02 RV-02		
1VQ068 2VQ026 2VQ027	Valve Name M-92-1 Valve Name M-138-1 Valve Name M-138-1	E7 E7 C2	Sup Chbi 2 DW Vent 2	r N2 Makeup A /purge Outle A	2 2 t Dwnst Is 26	SOI Valve GL SOI Byp Va BTF	MO	A	C	c	OMN-C ET LT-J	JOG Y2 AppJ	RV-02 RV-02		<del>.</del>
1VQ068 2VQ026 2VQ027	Valve Name M-92-1 Valve Name M-138-1 Valve Name M-138-1	E7 E7 C2 S	Sup Chbi 2 DW Vent 2	r N2 Makeup A /purge Outle A	t Dwnst Is	GL GL Sol Byp Va BTF	MO	A	c	c	ET LT-J	Y2 AppJ	RV-02	u,u,u	
1VQ068 2VQ026 2VQ027	M-92-1 Valve Name M-138-1 Valve Name M-138-1	E7 C2	2 DW Vent 2	A /purge Outle A	2 t Dwnst Is 26	GL Sol Byp Va BTF	MO	A	С	Ċ	ET LT-J	Y2 AppJ	RV-02		
2VQ026 2VQ027	Valve Name M-138-1 Valve Name M-138-1	C2	DW Vent	/purge Outle A	t Dwnst Is 26	ol Byp Va BTF	lve				LT-J	AppJ			
2VQ026 2VQ027	Valve Name M-138-1 Valve Name M-138-1	C2 S	OW Vent 2	/purge Outle A	t Dwnst is 26	ol Byp Va BTF	lve				OMNLC				
2VQ026 2VQ027	Valve Name M-138-1 Valve Name M-138-1	C2	OW Vent	/purge Outle A	t Dwnst is 26	ol Byp Va BTF	lve				OWIN-C	JOG	RV-02		
2VQ026 V 2VQ027	M-138-1 Valve Name M-138-1	C2	2	A	26	BTF	40								
2VQ027	Valve Name M-138-1	ç					AO	A	С	С	FS-C	MЗ			TP-03
V 2VQ027	Valve Name M-138-1	ę									LT-J	Аррј			
2VQ027	Valve Name M-138-1	5									PIT	Y2			
1 2VQ027	Valve Name M-138-1	ę									ST-C	М3			
2VQ027	M-138-1		Suppress	sion Chambe	r Vent/Pu	irge Inlet L	lpstream	isol							
		С3	2	Α	26	BTF	AO	Α	С	С	FS-C	M3			TP-03
											LT-J	AppJ			
											PIT	Y2			
						•					ST-C	М3			
V	Vaive Name	5	Suppress	sion Chambe	r Vent/Pu	irge Inlet D	)ownstrm	Isol							<u></u>
2VQ029	M-138-1	D2	2	Α	26	BTF	AO	Α	С	С	FS-C	M3			TP-03
											LT-J	AppJ			
											PIT	Y2			
,	Value Nama	-	14411000	t/Duran Inlat	Lington	loolotion					ST-C	M3			
21/0020	M 120 1	L			Opstream	BTC					FS C				TD 02
20000	IVI-100-1	03	2	~	20	DI	AU	~	C	U	13-0	Appl			11-03
											<u>р</u> іт	vqu~			
											ST-C	Ma			
1	Valve Name	r	)/W Ven	t/Pume Inlet	Downstre	am Isolati	nn				0,0				
200031	M-138-1		2	A	26	BTF	AQ	A	C		FS-C	M3			TP-03
21000			-						· ·		1 <b>T</b> -J	Apol			
											PIT	Y2			
											ST-C	M3			
١	Valve Name	S	Suppress	sion Chambe	r Vent/Pu	rge Upstre	eam Isola	tion							
2VQ032	M-138-1	C7	2	A	2	GL	MO	A	С	c	ET	Y2	RV-02		
											LT-J	AppJ			
											OMN-C	JOG	RV-02		
١	Valve Name	ç	Supp Ch	amber Vent/	Purae Out	tlet Uostrin	i Isol Rvn	855				-		•	

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Primary	Containment	Purae
	oomanningin	i uigo

Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2VQ034	M-138-1	E6	2	A	26	BTF	AO	A	C	С	FS-C	МЗ			TP-03 -
											LT-J	AppJ			
											PIT	Y2			
											ST-C	MЗ			
	Valve Name		D/W Ver	t/Purge Upst	ream Out	let Isolatio	n								
2VQ035	M-138-1	E6	2	A	2	GL	MO	Α	С	С	ET	· Y2	RV-02		
											LT-J	AppJ		•	
											OMN-C	JOG	RV-02		
	Valve Name	۱ 	D/W Ver	t/Purge Ups	tream Out	let Isolatio	n Bypass	6							
2VQ036	M-138-1	E7	2	A	26	BTF	AO	A	С	С	FS-C	МЗ			TP-03
											LT-J	АррЈ			
											PIT	Y2			
											ST-C	M3			
	Valve Name	: 	D/W Ver	t/Purge Outl	et Downsi	tream Isola	ation			يى يىلى بىك بىلىن					
2VQ037	M-138-1	1 B8	NC	. В	26	BTF	MO	Α	С	С	PIT	Y2			
											ST-C	МЗ	,		
	Valve Name		Primary	Contain Purg	e Air Filte	r Unit Ups	trm Isol	<u></u>							
2VQ038	M-138-1	1 B7	NC	В	26	BTF	МО	A	С	С	PIT	Y2			
	Valve Name	<b>ب</b>	Primary	Contain Purg	e Air Filte	r Unit Dwr	nstrm Iso	ł			ST-C	MЗ		· .	
2VQ040	M-138-1	1 C8	2	A	26	BTF	AO	A	С	С	FS-C	M3			TP-03
											LT-J	АррЈ			
											PIT	Y2	•		
											ST-C	M3			
	Valve Name	ł	Supp Ch	amber Vent/	Purge Ou	tlet Downs	stream Is	ol							
2VQ042	M-138-1	1 D2	2	A	8	BTF	AO	A	С	С	FS-C	MЗ			TP-03
											LT-J	AppJ			
											PIT	Y2			
											ST-C	MЗ			
	Valve Name		Dw N2 II	nerting Suppl	y Valve		-								
2VQ043	M-138-1	1 C2	2	A	8	BTF	AO	A	С	С	FS-C	M3			TP-03
											LT-J	AppJ		•	
											PIT	Y2		Deferred Just.	
											ST-C	MЗ			
	Valve Name	÷	Sup Chb	r N2 Inerting	Supply V	alve									

Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2VQ047	M-138-1	D3	2	A	1.5	GL	мо	A	0	С.	ET	Y2	RV-02		
											LT-J	AppJ			
											OMN-C	JOG	RV-02		
	Valve Name	1	Dw N2 M	akeup Dwns	t Isol Valv	/e									
2VQ048	M-138-1	D3	2	A	1.5	GL	MO	A	0	С	ET	Y2	RV-02		
											LT-J	Аррј			
											OMN-C	JOG	RV-02		
	Valve Name	ł	Dw N2 M	akeup Upstr	m Isol Val	lve									
2VQ050	M-138-1	C3	2	A	1.5	GL	MO	A	0	0	ET	Y2	RV-02	<u></u>	
											LT-J	AppJ			
											OMN-C	JOG	RV-02		
	Valve Name		Sup Chb	r N2 Makeup	Dwnst Is	ol Valve									
2VQ051	M-138-1	C3	2	A	1.5	GL	МО	A	0	0	ET	Y2	RV-02		
											LT-J	AppJ			
											OMN-C	JOG	RV-02		
	Valve Name		Sup Chb	r N2 Makeup	Upstrm I	sol Valve									
2VQ068	M-138-1	E7	2	A	2	GL	MO	A	С	С	ET	Y2	RV-02		
											LT-J	AppJ			
											OMN-C	JOG	RV-02		
	Valve Name	1	DW Vent	/Purge Outle	t Dwnst Is	sol Byp Va	lve								

Primary Containment Purge

#### Reactor Building Closed Cooling Water

Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
1WR029	M-90-2	A7	2	A	6	GA	MO	A	0	С	ET	Y2	RV-02		
											LT-J	АррЈ			
											OMN-C	JOG	RV-02		
	Valve Name	1	RBCCW	Supply Out	oard Isola	tion Valve									
1WR040	M-90-2	B4	2	A	6	GA	MO	A	0	С	ET	Y2	RV-02		
										,	LT-J	AppJ			
											OMN-C	JOG	RV-02		
	Valve Name		RBCCW	Return Outb	oard Isola	tion Valve									
1WR179	M-90-2	B7	2	A	6	GA	MO	A	0	С	ET	Y2	RV-02		
											LT-J	AppJ			
											OMN-C	JOG	RV-02		
	Valve Name		RBCCW	Supply Inbo	ard Isolati	on Valve									
1WR180	M-90-2	B4	2	Α	6	GA	MO	Α	. 0	С	ET	Y2	RV-02		
											LT-J	AppJ			
											OMN-C	JOG	RV-02		
Valve EPN 1WR029 1WR040 1WR179 1WR179 1WR180 1WR225 1WR225 2WR029 2WR040 2WR040 2WR179 2WR180	Valve Name		RBCCW	Return Inbo	ard Isolatio	on Valve									
1WR225	M-90-2	B7	2	A/C	.75 x 1	RV	SA	A	С	O/C	LT-J	AppJ			
IVIN220							•				RVT	Y10			TP-08
	Valve Name		DW Equi	PRBCCW S	Supply Reli	ef Valve					- <u>, -</u>				
1WR226	M-90-2	84	2	A/C	./5 x 1	RV	SA	A	С	O/C		AppJ			<b>TD</b> 44
	Nakis Mama				Detries Dell	al Makia					HVI	¥10			TP-08
	Valve Name				eturn Heil						<b>FT</b>				
2000029	191-130-2	. 01	2	A	υ	GA	IVIU	A	0	U	E)	12	HV-02		
												Appu	P)/ 02		
	Valve Name	1	RBCCW	Supply Out	oard leola	tion Valve					Owne-C	300	11.02		
2WB040	M-136-2	B4	2		6	GA	MO	A		<u> </u>	FT	¥2	BV-02		
21111010			L		Ū	Cir (	mo		U	Ŭ	LT-1	Anol	IIV OL		
											OMN-C	JOG	BV-02		
	Valve Name		RBCCW	Return Out	oard Isola	tion Valve									
2WR179	M-136-2	B7	2	A	6	GA	МО	A	0	C	ET	Y2	RV-02		
									-		LT-J	AppJ			
											OMN-C	JOG	<b>RV-02</b>		
	Valve Name	1	RBCCW	Supply Inbo	ard Isolati	on Valve									
2WR180	M-136-2	B4	2	A	6	GA	MO	A	0	С	ET	Y2	RV-02		
											LT-J	AppJ			
											OMN-C	JOG	RV-02		

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#### Reactor Building Closed Cooling Water

Valve EPN	P&ID	P&ID Coor.	Code Class	IST Category	Valve Size	Valve Type	АСТ. Туре	Active / Passive	Normal Position	Safety Position	Test Rqmt	Test Freq.	Relief Request	Deferred Just.	Tech. Pos.
2WR225	M-136-2	B8	2	A/C	.75 x 1	RV	SA	A	С	O/C	LT-J	AppJ			
											RVT	Y10			TP-08
	Valve Name	ļ	DW Equi	p RBCCW S	Supply Rel	ief Valve									
2WR226	M-136-2	2 B4	2	A/C	.75 x 1	RV	SA	A	С	O/C	LT-J	АррЈ			
	· .										RVT	Y10			ŢP-08
	Valve Name	l	DW Equi	p RBCCW F	Return Reli	et Valve									·