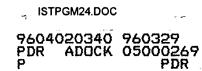
Oconee Nuclear Station ASME Inservice Testing Program

Revision 24

March 1996

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Approved by:		Date:	3-27-96



PDR

03/26/96 Rev.24

TABLE OF CONTENTS

1.0	Units	1, 2, and 3 IST Program
	1.1	Pump Inservice Testing Program
	1.2	Valve Inservice Testing Program
2.0	Delet	ed
3.0	Delet	ed
4.0	Relie	f Requests and Deferrals
	4.1	Valve Generic Relief Requests
	4.2	Valve Specific Relief Requests
	4.3	Valve Justification of Deferrals
	4.4	Pump Generic Relief Requests
	4.5	Pump Specific Relief Requests
5.0	Table	e of Abbreviations

ISTPGM24.DOC Rev.24 Page 1 of 1 03/26/96

Inservice Testing Program Submittal - Pumps

3/27/96

Interval 3, Submittal Revision 24

Description	Equipment ID	Flow Diagram	Test JOD Frequenc	y Speed	Inlet Press	DP	Vib	Flow Rate	Bearing Temp	Specific RR	Rev
BS - Building S	Spray										
Reactor Building Spray Pump 1A	ON1BS PU0001	OFD-103A-1.1	None .					·			
			Tested once quarterly	Per Code	Per Code	Per Code	Per Code	Per Code	GNR-PMP- 06	None	24
Reactor Building Spray Pump 1B	ON1BS PU0002	OFD-103A-1.1	None								
			Tested once quarterly	Per Code	Per Code	Per Code	Per Code	Per Code	GNR-PMP- 06	None	24
Reactor Building Spray Pump 2A	ON2BS PU0001	OFD-103A-2.1	None								
			Tested once quarterly	Per Code	Per Code	Per Code	Per Code	Per Code	GNR-PMP- 06	None	24
Reactor Building Spray Pump 2B	ON2BS PU0002	OFD-103A-2.1	None								
			Tested once quarterly	Per Code	Per Code	Per Code	Per Code	Per Code	GNR-PMP- 06	None	24



Description	Equipment ID	Flow Diagram	JOD	Test Frequency	Speed	Inlet Press	DP	Vib	Flow Rate	Bearing Temp	Specific RR	Rev
Reactor Building Spray Pump 3A	ON3BS PU0001	OFD-103A-3.1	None			•						
				Tested once quarterly	Per Code	Per Code	Per Code	Per Code	Per Code	GNR-PMP- 06	None	24
Reactor Building Spray Pump 3B	ON3BS PU0002	OFD-103A-3.1	None									
				Tested once quarterly	Per Code	Per Code	Per Code	Per Code	Per Code	GNR-PMP- 06	None	24





Description	Equipment ID	Flow Diagram	JOD	Test Frequency	Speed	Inlet Press	DP	Vib	Flow Rate	Bearing Temp	Specific RR	Rev
CCW - Condens	er Cooling Wa	iter										
SSF Auxiliary Service Water Pump	ON0CCWPU0002	OFD-133A-2.5	None									
				ested once quarterly	Per Code	Per Code	Per Code	Per Code	Per Code	GNR-PMP- 06	None	24
SSF HVAC Service Water Pump	ON0CCWPU0003	OFD-133A-2.5	None			·						
				ested once quarterly	Per Code	GNR-PMP- 01	Per Code	Per Code	Per Code	GNR-PMP- 06	None	24
SSF HVAC Service Water Pump	ON0CCWPU0004	OFD-133A-2.5	None									
				ested once quarterly	Per Code	GNR-PMP- 01	Per Code	Per Code	Per Code	GNR-PMP- 06	None	. 24
SSF Diesel Engine Service Water Pump	ON0CCWPU0005	OFD-133A-2.5	None									
				ested once quarterly	Per Code	Per Code	Per Code	Per Code	Per Code	GNR-PMP- 06	None	24
SSF Submersible Pump	ON0CCWPU0010	OFD-133A-2.5	None			<u> </u>	•					
				ested once every two	Per Code	Per Code	Per Code	Per Code	Per Code	GNR-PMP- 06	None	24



Description	Equipment ID	Flow Diagram	JOD	Test Frequency	Speed	Inlet Press	DP	Vib	Flow Rate	Bearing Temp	Specific RR	Rev
SSF Submersible Pump (Spare)	ON0CCWPU0011	OFD-133A-2.5	None									
				Tested once every two	Per Code	Per Code	Per Code	Per Code	Per Code	GNR-PMP- 06	None	24

Oconee Nuclear Station - IST Submittal for Pumps Interval 3, Submittal Revision 24 Page 4 of 15



Description	Equipment ID	Flow Diagram	Tes JOD Freque		Inlet Press	DP	Vib	Flow Rate	Bearing Temp	Specific RR	Rev
CS - Coolant Sto	rage										
RC Bleed Transfer Pump 1A	ON1CS PU0003	OFD-106A-1.1	None								
		-	Tested on quarter		GNR-PMP- 01	Per Code	Per Code	Per Code	GNR-PMP- 06	None	24
RC Bleed Transfer Pump 1B	ONICS PU0004	OFD-106A-1.1	None	<u> </u>							
			Tested on quarter		GNR-PMP- 01	Per Code	Per Code	Per Code	GNR-PMP- 06	None	24
Concentrated Boric Acid Transfer Pump 1	ONICS PU0005	OFD-106A-1.2	None								•
			Tested or quarter		GNR-PMP- 01	GNR-PMP- 02	Per Code	Per Code	GNR-PMP- 06	None	24
RC Bleed Transfer Pump 2A	ON2CS PU0003	OFD-106A-2.2	None								
-			Tested or quarter		Per Code	Per Code	Per Code	Per Code	GNR-PMP- 06	None	24
RC Bleed Transfer Pump 2B	ON2CS PU0004	OFD-106A-2.1	None								
			Tested or quarter		Per Code	Per Code	Per Code	Per Code	GNR-PMP- 06	None	24

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Page 5 of 15



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Description	Equipment ID	Flow Diagram	JOD F	Test Frequency	Speed	Inlet Press	DP	Vib	Flow Rate	Bearing Temp	Specific RR	Rev
Concentrated Boric Acid Transfer Pump 2	ON2CS PU0005	OFD-106A-2.1	None									
				sted once uarterly	Per Code	GNR-PMP- 01	GNR-PMP- 02	Per Code	Per Code	GNR-PMP- 06	None	24
RC Bleed Transfer Pump 3A	ON3CS PU0003	OFD-106A-3.2	None									
				sted once uarterly	Per Code	Per Code	Per Code	Per Code	Per Code	GNR-PMP- 06	None	24
RC Bleed Transfer Pump 3B	ON3CS PU0004	OFD-106A-3.2	None							•		
				sted once uarterly	Per Code	Per Code	Per Code	Per Code	Per Code	GNR-PMP- 06	None	24
Concentrated Boric Acid Transfer Pump	ON3CS PU0005	OFD-106A-3.1	None									
				sted once uarterly	Per Code	GNR-PMP- 01	GNR-PMP- 02	Per Code	Per Code	GNR-PMP- 06	None	24
Concentrated Boric Acid Transfer Pump	ON3CS PU0006	OFD-106A-3.1	None			-		-				
				sted once uarterly	Per Code	GNR-PMP- 01	GNR-PMP- 02	Per Code	Per Code	GNR-PMP- 06	None	24

Oconee Nuclear Station - IST Submittal for Pumps Interval 3, Submittal Revision 24 Page 6 of 15



Description	Equipment ID	Flow Diagram	Test JOD Frequen	cy Speed	Inlet Press	DP	Vib	Flow Rate	Bearing Temp	Specific RR	Rev
FDW - Feedwat	e r			<u>_</u>							
Turbine Driven EFDW Pump 1	ON1FDWPU0003	OFD-121D-1.1	None								
			Tested once quarterly	e Per Code	Per Code	Per Code	Per Code	Per Code	GNR-PMP- 06	None	24
Motor Driven EFDW Pump 1A	ON1FDWPU0004	OFD-121D-1.1	None				ć				
			Tested once quarterly	e Per Code	Per Code	Per Code	Per Code	Per Code	GNR-PMP- 06	None	24
Motor Driven EFDW Pump 1B	ON1FDWPU0005	OFD-121D-1.1	None								
			Tested once quarterly	e Per Code	Per Code	Per Code	Per Code	Per Code	GNR-PMP- 06	None	24
Turbine Driven EFDW Pump 2	ON2FDWPU0003	OFD-121D-2.1	None								
			Tested once quarterly	e Per Code	Per Code	Per Code	Per Code	Per Code	GNR-PMP- 06	None	24
Motor Driven EFDW Pump 2A	ON2FDWPU0004	OFD-121D-2.1	None								
			Tested once quarterly	e Per Code	Per Code	Per Code	Per Code	Per Code	GNR-PMP- 06	None	24



Description	Equipment ID	Flow Diagram	JOD	Test Frequency	Speed	Inlet Press	DP	Vib	Flow Rate	Bearing Temp	Specific RR	Rev
Motor Driven EFDW Pump 2B	ON2FDWPU0005	OFD-121D-2.1	None	-	`					· · · · ·		
				ested once quarterly	Per Code	Per Code	Per Code	Per Code	Per Code	GNR-PMP- 06	None	24
Turbine Driven EFDW Pump 3	ON3FDWPU0003	OFD-121D-3.1	None			-						
				ested once quarterly	Per Code	Per Code	Per Code	Per Code	Per Code	GNR-PMP- 06	None	24
Motor Driven EFDW Pump 3A	ON3FDWPU0004	OFD-121D-3.1	None									
				ested once quarterly	Per Code	Per Code	Per Code	Per Code	Per Code	GNR-PMP- 06	None	24
Motor Driven EFDW Pump 3B	ON3FDWPU0005	OFD-121D-3.1	None									
				ested once quarterly	Per Code	Per Code	Per Code	Per Code	Per Code	GNR-PMP- 06	None	24
FO - Fuel Oil												
		·							. ·			
SSF Diesel Engine Fuel Oil Transfer	ON0FO PU0005	OFD-135A-1.2	None									
				ested once quarterly	Per Code	Per Code	Per Code	Per Code	Per Code	GNR-PMP- 06	None	24







Description	Equipment ID	Flow Diagram	JOD	Test Frequency	Speed	Inlet Press	DP	Vib	Flow Rate	Bearing Temp	Specific RR	Rev
HPI - High Pre	ssure Injection	, ,										
High Pressure Injection Pump 1A	ON1HPIPU0001	OFD-101A-1.3	None									
			-	Tested once quarterly	Per Code	GNR-PMP- 01	Per Code	Per Code	Per Code	GNR-PMP- 06	None	24
High Pressure Injection Pump 1B	ON1HPIPU0002	OFD-101A-1.3	None									
				Tested once quarterly	Per Code	GNR-PMP- 01	Per Code	Per Code	Per Code	GNR-PMP- 06	None	24
High Pressure Injection Pump 1C	ON1HPIPU0003	OFD-101A-1.3	None									
				Tested once quarterly	Per Code	GNR-PMP- 01	Per Code	Per Code	Per Code	GNR-PMP- 06	None	24
SSF RC Makeup Pump 1	ON1HPIPU0005	OFD-101A-1.5	None		•							
				Tested once quarterly	Per Code	Per Code	GNR-PMP- 02	Per Code	Per Code	GNR-PMP- 06	None	24
High Pressure Injection Pump 2A	ON2HPIPU0001	OFD-101A-2.3	None									
				Tested once quarterly	Per Code	GNR-PMP- 01	Per Code	Per Code	Per Code	GNR-PMP- 06	None	24



Description	Equipment ID	Flow Diagram	JOD	Test Frequency	Speed	Inlet Press	DP	Vib	Flow Rate	Bearing Temp	Specific RR	Rev
High Pressure Injection Pump 2B	ON2HPIPU0002	OFD-101A-2.3	None	;								
				Tested once quarterly	Per Code	GNR-PMP- 01	Per Code	Per Code	Per Code	GNR-PMP- 06	None	24
High Pressure Injection Pump 2C	ON2HPIPU0003	OFD-101A-2.3	None	;								
				Tested once quarterly	Per Code	GNR-PMP- 01	Per Code	Per Code	Per Code	GNR-PMP- 06	None	24
SSF RC Makeup Pump 2	ON2HPIPU0005	OFD-101A-2.5	None	;							•	
· .				Tested once quarterly	Per Code	Per Code	GNR-PMP- 02	Per Code	Per Code	GNR-PMP- 06	None	24
High Pressure Injection Pump 3A	ON3HPIPU0001	OFD-101A-3.3	None	;								
				Tested once quarterly	Per Code	GNR-PMP- 01	Per Code	Per Code	Per Code	GNR-PMP- 06	None	24
High Pressure Injection Pump 3B	ON3HPIPU0002	OFD-101A-3.3	None	2			· .					
				Tested once quarterly	Per Code	GNR-PMP- 01	Per Code	Per Code	Per Code	GNR-PMP- 06	None	24
High Pressure Injection Pump 3C	ON3HPIPU0003	OFD-101A-3.3	None	;	· ·							
		. •		Tested once quarterly	Per Code	GNR-PMP- 01	Per Code	Per Code	Per Code	GNR-PMP- 06	None	24

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Description	Equipment ID	Flow Diagram	JOD	Test Frequency	Speed	Inlet Press	DP	Vib	Flow Rate	Bearing Temp	Specific RR	Rev
SSF RC Makeup Pump 3	ON3HPIPU0005	OFD-101A-3.5	None	1								
	· .			Tested once quarterly	Per Code	Per Code	GNR-PMP- 02	Per Code	Per Code	GNR-PMP- 06	None	24
						•						
					• .							
				•								
	2											
Denee Nuclear Station - 1	IST Submittal for Pumps			•							n	ge 11 of 1

Interval 3, Submittal Revision 24

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Description	Equipment ID	Flow Diagram	Test JOD Freque		Inlet Press	DP	Vib	Flow Rate	Bearing Temp	Specific RR	Rev
LPI - Low Pres	sure Injection										
Low Pressure Injection Pump 1A	ON1LPIPU0001	OFD-102A-1.2	None	<u></u>							
			Tested on quarterl		GNR-PMP- 01	Per Code	Per Code	Per Code	GNR-PMP- 06	None	24
Low Pressure Injection Pump 1B	ON1LPIPU0002	OFD-102A-1.2	None						. ,		-
			Tested on quarterly		GNR-PMP- 01	Per Code	Per Code	Per Code	GNR-PMP- 06	None	24
Low Pressure Injection Pump 1C	ON1LPIPU0003	OFD-102A-1.2	None								
			Tested on quarterly		GNR-PMP- 01	Per Code	Per Code	Per Code	GNR-PMP- 06	None	24
Low Pressure Injection Pump 2A	ON2LPIPU0001	OFD-102A-2.2	None		· · · · · · · · · · · · · · · · · · ·						
			Tested on quarterl		GNR-PMP- 01	Per Code	Per Code	Per Code	GNR-PMP- 06	None	24
Low Pressure Injection Pump 2B	ON2LPIPU0002	OFD-102A-2.2	None					·			
			Tested on quarterl		GNR-PMP- 01	Per Code	Per Code	Per Code	GNR-PMP- 06	None	24

Oconee Nuclear Station - IST Submittal for Pumps Interval 3, Submittal Revision 24

Description	Equipment ID	Flow Diagram	JOD	Test Frequency	Speed	Inlet Press	DP	Vib	Flow Rate	Bearing <u>Temp</u>	Specific RR	Rev
Low Pressure Injection Pump 2C	ON2LPIPU0003	OFD-102A-2.2	None									
	• · · · ·			sted once juarterly	Per Code	GNR-PMP- 01	Per Code	Per Code	Per Code	GNR-PMP- 06	None	24
Low Pressure Injection Pump 3A	ON3LPIPU0001	OFD-102A-3.2	None									
				sted once juarterly	Per Code	GNR-PMP- 01	Per Code	Per Code	Per Code	GNR-PMP- 06	None	24
Low Pressure Injection Pump 3B	ON3LPIPU0002	OFD-102A-3.2	None									
				sted once luarterly	Per Code	GNR-PMP- 01	Per Code	Per Code	Per Code	GNR-PMP- 06	None	24
Low Pressure Injection Pump 3C	ON3LPIPU0003	OFD-102A-3.2	None									
				sted once quarterly	Per Code	GNR-PMP- 01	Per Code	Per Code	Per Code	GNR-PMP- 06	None	24







Description	Equipment ID	Flow Diagram	JOD	Test Frequency	Speed	Inlet Press	DP	Vib	Flow Rate	Bearing Temp	Specific RR	Rev
LPSW - Low Pro	essure Service	Water					·					
Low Pressure Service Water Pump 1A	ON1LPSPU0001	OFD-124A-1.1	None									
				ested once quarterly	Per Code	GNR-PMP- 01	Per Code	Per Code	Per Code	GNR-PMP- 06	None	24
Low Pressure Service Water Pump 1B	ON1LPSPU0002	OFD-124A-1.1	None									
				ested once quarterly	Per Code	GNR-PMP- 01	Per Code	Per Code	Per Code	GNR-PMP- 06	None	24
Low Pressure Service Water Pump 1C	ON1LPSPU0003	OFD-124A-1.1	None									
				ested once quarterly	Per Code	GNR-PMP- 01	Per Code	Per Code	Per Code	GNR-PMP- 06	None	24
Low Pressure Service Water Pump 3A	ON3LPSPU0001	OFD-124A-3.1	None					<u> </u>				
				ested once quarterly	Per Code	GNR-PMP- 01	Per Code	Per Code	Per Code	GNR-PMP- 06	None	24
Low Pressure Service Water Pump 3B	ON3LPSPU0002	OFD-124A-3.1	None	·		19 - Aur - 19 - 11	·			· · · ,		
				ested once quarterly	Per Code	GNR-PMP- 01	Per Code	Per Code	Per Code	GNR-PMP- 06	None	24





Description	Equipment ID	Flow Diagram	Test JOD Frequence	y Speed	Inlet Press	DP	Vib	Flow Rate	Bearing Temp	Specific RR	Rev
TS - Keowee Ti	ırbine Sump										
AC Turbine Sump Pump 1	K1TSPU088SA	KFD-102A-1.1	None						,		•
· · · · ·			Tested once quarterly	Per Code	GNR-PMP-	Per Code	Per Code	Per Code	GNR-PMP- 06	RR-PMP- 05	24
DC Turbine Sump Pump 1	K1TSPU088SD	KFD-102A-1.1	None								
			Tested once quarterly	Per Code	GNR-PMP- 01	Per Code	Per Code	Per Code	GNR-PMP- 06	RR-PMP- 05	24
AC Turbine Sump Pump 2	K2TSPU088SA	KFD-102A-2.1	None								·
			Tested once quarterly	Per Code	GNR-PMP- 01	Per Code	Per Code	Per Code	GNR-PMP- 06	RR-PMP- 05	24
DC Turbine Sump Pump 2	K2TSPU088SD	KFD-102A-2.1	None								
	•		Tested once quarterly	Per Code	GNR-PMP- 01	Per Code	Per Code	Per Code	GNR-PMP- 06	RR-PMP- 05	24

Inservice Testing Program Submittal - Valves

3/27/96			L	Interval 3, l	Submittal Revi	sion 24	•						
Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Typ		Test Direction	Test Frequency	Frequency Description	Relief Request
AB - Ai	r Circuit Break	er Sj	vstem	-									
1AB-013	KFD-107A-1.1 J2	С	С	Yes .	Check	Self Actuated	None	FS	Full-Stroke Exercise Valve to Safety Position(s)	NA	Q	Tested once quarterly	None
1AB-014	KFD-107A-1.1 J3	С	A	Yes	Solenoid	Solenoid	None	ST	Measure Full-Stroke Time of Valve	Both (Strok Test)	e Q	Tested once quarterly	None
								LT	Leak-Rate Test Valve to Section XI Requirement(s)	NA	Q	Tested once quarterly	None
1AB-015	KFD-107A-1.1 K3	С	A ·	Yes	Solenoid	Solenoid	None						
								ST	Measure Full-Stroke Time of Valve	Both (Strok Test)	e Q	Tested once quarterly	None
			-					LT	Leak-Rate Test Valve to Section XI Requirement(s)	NA	Q	Tested once quarterly	None
2AB-023	. KFD-107A-1.1 J1.	2 C	С	Yes	Check	Self Actuated	None					•	
								FS	Full-Stroke Exercise Valve to Safety Position(s)	NA	Q	Tested once quarterly	None
2AB-024	KFD-107A-1.1 J1.	3 C	A	Yes	Solenoid	Solenoid	None						•
								ST	Measure Full-Stroke Time of Valve	Both (Strok Test)	e Q	Tested once quarterly	None
								LT	Leak-Rate Test Valve to Section XI Requirement(s)	NA)	Q	Tested once quarterly	None
2AB-025	KFD-107A-1.1 KI	3 C	A	Yes	Solenoid	Solenoid	None						
								LT	Leak-Rate Test Valve to Section XI Requirement(s)	NA)	Q	Tested once quarterly	None
								ST	Measure Full-Stroke Time of Valve	Both (Strok Test)	ce Q	Tested once quarterly	None
1AB-033	KFD-107A-1.1 J5	С	С	Yes	Check	Self Actuated	None					T 4 1	N
								FS	Full-Stroke Exercise Valve to Safety Position(s	NA)	Q	Tested once quarterly	None









Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Typ		Test Direction	Test Frequency	Frequency Description	Relief Request
1AB-034	KFD-107A-1.1 J6	С	A	Yes	Solenoid	Solenoid	None						
		•						LT	Leak-Rate Test Valve to Section XI Requirement(s)	NA	Q	Tested once quarterly	None
								ST	Measure Full-Stroke Time of Valve	Both (Stroke Test)	e Q	Tested once quarterly	None
1AB-035	KFD-107A-1.1 K6	С	A	Yes	Solenoid	Solenoid	None						
								ST	Measure Full-Stroke Time of Valve	Both (Stroke Test)	e Q	Tested once quarterly	None
								LT	Leak-Rate Test Valve to Section XI Requirement(s)	Both (Leak Test)	Q	Tested once quarterly	None
2AB-043	KFD-107A-1.1 J9	С	С	Yes	Check	Self Actuated	None						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	NA	Q	Tested once quarterly	None
2AB-044	KFD-107A-1.1 J9	С	A	Yes	Solenoid	Solenoid	None		· · · · · · · · · · · · · · · · · · ·				
								ST	Measure Full-Stroke Time of Valve	Both (Strok Test)	e Q	Tested once quarterly	None
		,						LT	Leak-Rate Test Valve to Section XI Requirement(s)	NA	Q	Tested once quarterly	None
2AB-045	KFD-107A-1.1 K9	С	A	Yes	Solenoid	Solenoid	None						
								LT	Leak-Rate Test Valve to Section XI Requirement(s)	NA	Q	Tested once quarterly	None
								ST	Measure Full-Stroke Time of Valve	Both (Strok Test)	e Q	Tested once quarterly	None





Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Typ		Test Direction	Test Frequenc	Frequency 9 Description	Relief Request
<u>AG - Keo</u>	wee Governo	r Air	System	n									
1AG-003	KFD-104A-1.1 G	, С	В	Yes	Globe	Manual	None						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	NA	Q	Tested once quarterly	None
2AG-003	KFD-104A-2.1 G	7 C	B	Yes	Globe	Manual	None						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	NA	Q	Tested once quarterly	None
1AG-004	KFD-104A-1.1 G8	3 C	C	No	Relief	Self Actuated	None						
				-				RV	Safety and Relief Valve Test	Closed to Open		Test relief valve per OM-1 schedul	
2AG-004	KFD-104A-2.1 G8	8 C	С	No	Relief	Self Actuated	None						
								RV	Safety and Relief Valve Test	Closed to Open		Test relief valve ber OM-1 schedule	







Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Typ		Test Direction	Test Frequency	Frequency Description	Relief Request
AS - Aux	iliary Steam S	Syster	m										
1AS-039	OFD-122A-1.4 H6	С	С	Yes	Check	Self Actuated	ON-AS-01						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	Q	Tested once quarterly	None
								SD	Sample Disassembly	Open to Closed		Disassem one vlv per grp ea. RFO	None
2AS-039	OFD-122A-2.4 H6	С	С	Yes	Check	Self Actuated	ON-AS-01	·					
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	Q	Tested once quarterly	None
								SD	Sample Disassembly	Open to Closed		Disassem one vlv per grp ea. RFO	None
3AS-039	OFD-122A-3.4 H6	C	С	Yes	Check	Self Actuated	ON-AS-01						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	Q	Tested once quarterly	None
								SD	Sample Disassembly	Open to Closed		Disassem one vlv per grp ea. RFO	None









Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Typ		Test Direction	Test Frequency	Frequency Description	Relief Reques
BA - Brea	uthing Air Sys	stem											
1BA-171	OFD-137A-1.3 G2	В	A	No	Ball	Manual	None						
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
2BA-171	OFD-137A-2.3 K2	В	A	No	Ball	Manual	None		· · · · · · · · · · · · · · · · · · ·				
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
3BA-171	OFD-137A-3.3 F2	В	A	No	Ball	Manual	None		•				
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
1BA-172	OFD-137A-1.3 G2	<u>р</u> В	A	No	Ball	Manual	None						
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
2BA-172	OFD-137A-2.3 K3	В	A	No	Ball	Manual	None						
	- 							LJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
3BA-172 ·	OFD-137A-3.3 F2	В	A	No	Ball	Manual	None						
		•						IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None

Inservice Testing Program Submittal - Valves

3/27/96			Ĺ	Interval 3,	Submittal Revi	ision 24							
Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Tes Typ		Test Direction	Test Frequency	Frequency Description	Relief Request
AB - Air	Circuit Break	er Sj	stem										
1AB-013	KFD-107A-1.1 J2	С	С	Yes	Check	Self Actuated	None						
							•	FS	Full-Stroke Exercise Valve to Safety Position(s)	NA)	Q	Tested once quarterly	None
1AB-014	KFD-107A-1.1 J3	С	A	Yes	Solenoid	Solenoid	None						
								ST	Measure Full-Stroke Time of Valve	Both (Strok Test)	ie Q	Tested once quarterly	. None
								LT	Leak-Rate Test Valve to Section XI Requirement(s)	NA)	Q	Tested once quarterly	None
1AB-015	KFD-107A-1.1 K3	С	A	Yes	Solenoid	Solenoid	None						
								ST	Measure Full-Stroke Time of Valve	Both (Strok Test)	ie Q	Tested once quarterly	None
								LT	Leak-Rate Test Valve to Section XI Requirement(s)	NA)	Q .	Tested once quarterly	None
2AB-023	KFD-107A-1.1 J12	2 C	С	Yes	Check	Self Actuated	None		<u></u>				
								FS	Full-Stroke Exercise Valve to Safety Position(s	NA)	Q	Tested once quarterly	None
2AB-024	KFD-107A-1.1 J1.	3 C.	A	Yes	Solenoid	Solenoid	None						
								ST	Measure Full-Stroke Time of Valve	Both (Strok Test)	ke Q	Tested once quarterly	None
								LT	Leak-Rate Test Valve to Section XI Requirement(s	NA)	Q	Tested once quarterly	None
2AB-025	KFD-107A-1.1 K1	3 C	A	Yes	Solenoid	Solenoid	None						
						•		LT	Leak-Rate Test Valve to Section XI Requirement(s	NA)	Q	Tested once quarterly	None
						·		ST	Measure Full-Stroke Time of Valve	Both (Strol Test)	ke Q	Tested once quarterly	None
1AB-033	KFD-107A-1.1 J5	С	C	Yes	Check	Self Actuated	None		- 10				
1110-033								FS	Full-Stroke Exercise Valve to Safety Position(s	NA	Q	Tested once quarterly	None







Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Typ		Test Direction	Test Frequency	Frequency Description	Relief Request
1AB-034	KFD-107A-1.1 J6	С	A	Yes	Solenoid	Solenoid	None						
					. ·			LT	Leak-Rate Test Valve to Section XI Requirement(s)	NA	Q.	Tested once quarterly	None
								ST	Measure Full-Stroke Time of Valve	Both (Stroke Test)	e Q	Tested once quarterly	None
1AB-035	KFD-107A-1.1 K6	С	A	Yes	Solenoid	Solenoid	None						
								ST	Measure Full-Stroke Time of Valve	Both (Stroke Test)	e Q	Tested once quarterly	None
								LT	Leak-Rate Test Valve to Section XI Requirement(s)	Both (Leak Test)	Q	Tested once quarterly	None
2AB-043	KFD-107A-1.1 J9	С	С	Yes	Check	Self Actuated	None						
							·	FS	Full-Stroke Exercise Valve to Safety Position(s)	NA	Q	Tested once quarterly	None
2AB-044	KFD-107A-1.1 J9	С	A	Yes	Solenoid	Solenoid	None						
						•		ST	Measure Full-Stroke Time of Valve	Both (Stroke Test)	e Q	Tested once quarterly	None
								LT	Leak-Rate Test Valve to Section XI Requirement(s)	NA	Q	Tested once quarterly	None
2AB-045	KFD-107A-1.1 K9	С	A	Yes	Solenoid	Solenoid	None						
								LT	Leak-Rate Test Valve to Section XI Requirement(s)	NA	Q	Tested once quarterly	None
								ST	Measure Full-Stroke Time of Valve	Both (Strok) Test)	e Q	Tested once quarterly	None

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Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Typ		Test Direction	Test Frequenc	Frequency y Description	Relief Request
AG - Keo	wee Governo	r Air	Systen	n									
1AG-003	KFD-104A-1.1 G7	С	В	Yes	Globe	Manual	None						
140-000							·	FS	Full-Stroke Exercise Valve to Safety Position(s)	NA	Q	Tested once quarterly	None
2AG-003	KFD-104A-2.1 G7	С	В	Yes	Globe	Manual	None						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	NA	Q	Tested once quarterly	None
1AG-004	KFD-104A-1.1 G8	C	С	No	Relief	Self Actuated	None						
								RV	Safety and Relief Valve Test	Closed to Open		Test relief valve per OM-1 schedule	GNR-VLV-010
2AG-004	KFD-104A-2.1 G8	C	С	No	Relief	Self Actuated	None						
	~~							RV	Safety and Relief Valve Test	Closed to Open		Test relief valve per OM-1 schedule	







Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Type		Test Direction	Test Frequency	Frequency Description	Relief Request
AS - Aux	iliary Steam S	Syster	m										
1AS-039	OFD-122A-1.4 H6	С	С	Yes	Check	Self Actuated	ON-AS-01						
					:			FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	Q	Tested once quarterly	None
								SD	Sample Disassembly	Open to Closed		Disassem one vlv per grp ea. RFO	None
2AS-039	OFD-122A-2.4 H6	С	С	Yes	Check	Self Actuated	ON-AS-01						
			•					FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	Q	Tested once quarterly	None
					`		•	SD	Sample Disassembly	Open to Closed		Disassem one vlv per grp ea. RFO	None
3AS-039	OFD-122A-3.4 H6	С	С	Yes	Check	Self Actuated	ON-AS-01				<u></u>	•	
AS-039								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	Q	Tested once quarterly	None
								SD	Sample Disassembly	Open to Closed		Disassem one vlv per grp ea. RFO	None

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Oconee Nuclear Station - IST Submittal for Valves Interval 3, Submittal Revision 24

AS - Auxiliary Steam System : Page 1







Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Typ		Test Direction	Test Frequency	Frequency Description	Relief Request
BA - Bree	athing Air Sys	stem											
1BA-171	OFD-137A-1.3 G2	В	A	No	Ball	Manual	None						
		•						LJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every efueling outage	None
2BA-171	OFD-137A-2.3 K2	В	A	No	Ball	Manual	None						
					·			IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every efueling outage	None
3BA-171	OFD-137A-3.3 F2	В	A	No	Ball	Manual	None						
								រ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
1BA-172	OFD-137A-1.3 G2	В	A	No	Ball	Manual	None						
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every efueling outage	None
2BA-172	OFD-137A-2.3 K3	В	A	No	Ball	Manual	None						
								LJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every efueling outage	None
3BA-172	OFD-137A-3.3 F2	В	A	No	Ball	Manual	None		×-				
								LJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None

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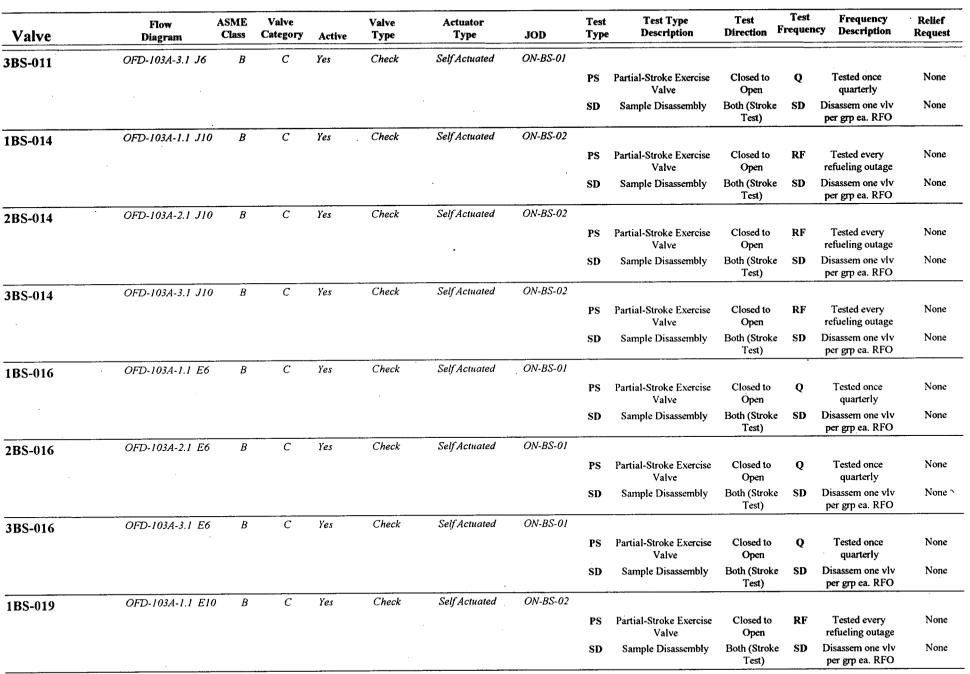




Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Type	Test Type Description	Test Direction	Test Frequency	Frequency Description	Relief Request
BS - Bui	lding Spray Sy	stem	1	-									
1BS-001	OFD-103A-1.1 J8	В	В	Yes	Globe	Limitorque	None	ST	Measure Full-Stroke	Closed to	Q	Tested once	None
									Time of Valve	Open		quarterly	
2BS-001	OFD-103A-2.1 J8	В	В	Yes	Globe	Limitorque	None	ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
3BS-001	OFD-103A-3.1 J8	В	В	Yes	Globe	Limitorque	None	ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
1BS-002	OFD-103A-1.1 E8	В	В	Yes	Globe	Limitorque	None	ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
2BS-002	OFD-103A-2.1 E8	В	В	Yes	Globe	Limitorque	None	ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
3BS-002	OFD-103A-3.1 E8	В	В	Yes	Globe	Limitorque	None	ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
2 B S-005	OFD-102A-2.1 E8	В	С	Yes	Check	Self Actuated	None	PS	Partial-Stroke Exercise Valve	Closed to Open	Q	Tested once quarterly	RR-VLV-01
2BS-006	OFD-102A-2.1 C10) B	C	Yes	Check	Self Actuated	None	PS	Partial-Stroke Exercise Valve	Closed to Open	Q	Tested once quarterly	RR-VLV-01
1BS-011	OFD-103A-1.1 J6	В	С	Yes	Check	Self Actuated	ON-BS-01	PS	Partial-Stroke Exercise Valve	Closed to Open	Q	Tested once quarterly	None
						,		SD	Sample Disassembly	Both (Strok Test)	ke SD	Disassem one vlv per grp ea. RFO	None
2BS-011	OFD-103A-2.1 J6	В	С	Yes	Check	Self Actuated	ON-BS-01	PS	Partial-Stroke Exercise Valve	Closed to Open	Q	Tested once quarterly	None
	/							SD	Sample Disassembly	Both (Strok Test)	ke SD	Disassem one vlv per grp ea. RFO	None







BS - Building Spray System : Page 2







Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Type		Test Direction	Test Frequenc	Frequency y Description	Relief Request
 2BS-019	OFD-103A-2.1 E10	В	С	Yes	Check	Self Actuated	ON-BS-02						
								PS	Partial-Stroke Exercise Valve	Closed to Open	RF	Tested every refueling outage	None
								SD	Sample Disassembly	Both (Strok Test)		Disassem one vlv per grp ea. RFO	None
3BS-019	OFD-103A-3.1 EI0) B	С	Yes	Check	Self Actuated	ON-BS-02						
505-017								PS	Partial-Stroke Exercise Valve	Closed to Open	RF	Tested every refueling outage	None
								SD	Sample Disassembly	Both (Strok Test)		Disassem one vlv per grp ea. RFO	None







Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Type	Test Type Description	Test Direction	Test Frequency	Frequency Description	Relief Request
C - Cond	ensate System												
1C-176	OFD-121A-1.8 17	С	В	Yes	Butterfly	Air	None	ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
2C-176	OFD-121A-2.8 17	С	В	Yes	Butterfly	Air	None	ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
3C-176	OFD-121A-3.8 17	С	В	Yes	Ball	Air	None	ST	Measure Full-Stroke	Open to Closed	Q	Tested once quarterly	None
1C-187	OFD-121A-1.8 G7	С	B	Yes	Butterfly	Air	None	ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
2C-187	OFD-121A-2.8 G7	С	В	Yes	Butterfly	Air	None	ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
3C-187	OFD-121A-3.8 G7	С	В	Yes	Ball	Air	None	ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
1C-192	OFD-121A-1.8 J7	С	В	Yes	Globe	Air	None	ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
2C-192	OFD-121A-2.8 J7	С	В	Yes	Globe	Air	None	ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
3C-192	OFD-121A-3.8 J7	C	· B	Yes	Globe	Air	None	ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
1C-391	OFD-121A-1.8 J11	C	В	Yes	Gate	Limitorque	None	ST	Measure Full-Stroke Time of Valve	Closed to Open	, Q	Tested once quarterly	None
2 C-3 91	OFD-121A-2.8 J11	C	B	Yes	Gate	Limitorque	None	ST	Measure Full-Stroke Time of Valve	Closed to Open	o Q	Tested once quarterly	None



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Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Typ		Test Direction	Test Frequency	Frequency Description	Relief Request
3C-391	OFD-121A-3.8 J11	C	В	Yes	Gate	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
1C-572	OFD-121A-1.8 E7	С	С	Yes	Check	Self Actuated	ON-C-02						
								PS	Partial-Stroke Exercise Valve	Closed to Open	Q	Tested once quarterly	None
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	CS 1	Fested every cold shutdown	None
2C-572	OFD-121A-2.8 E6	С	C.	Yes	Check	Self Actuated	ON-C-02						
								PS	Partial-Stroke Exercise Valve	Closed to Open	Q	Tested once quarterly	None
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	CS 7	Fested every cold shutdown	None
3C-572	OFD-121A-3.8 E7	С	С	Yes	Check	Self Actuated	ON-C-02		······································				
								PS	Partial-Stroke Exercise Valve	Closed to Open	Q	Tested once quarterly	None
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	CS (Fested every cold shutdown	None
1C-573	OFD-121A-1.8 E7	С	В	Yes	Gate	Manual	ON-C-01						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Open to Closed	CS 7	Fested every cold shutdown	None
2C-573	OFD-121A-2.8 D6	С	В	Yes	Gate	Manual	ON-C-01						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Open to Closed	CS 2	Fested every cold shutdown	None
3C-573	OFD-121A-3.8 D7	С	В	Yes	Gate	Manual	ON-C-01						
						· .		FS	Full-Stroke Exercise Valve to Safety Position(s)	Open to Closed	CS 7	Fested every cold shutdown	None
1C-850	OFD-121A-1.8 D4	С	С	Yes	Check	Self Actuated	ON-C-03						
-								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	CS	Fested every cold shutdown	None
2C-850	OFD-121A-2.8 D4	С	С	Yes	Check .	Self Actuated	ON-C-03						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	CS	Fested every cold shutdown	None
3C-850	OFD-121A-3.8 D4	С	С	Yes .	Check	Self Actuated	ON-C-03						
-								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	CS ⁷	Fested every cold shutdown	• None







Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Tes Typ		Test Direction	Test Frequency	Frequency Description	Relief Request
1C-852	OFD-121A-1.8 C4	С	С.	Yes	Check	Self Actuated	ON-C-03						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	CS 1	Fested every cold shutdown	None
2C-852	OFD-121A-2.8 C4	С	С	Yes	Check	Self Actuated	ON-C-03						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	CS 7	Fested every cold shutdown	None
3C-852	OFD-121A-3.8 C4	С	С	Yes	Check	Self Actuated	ON-C-03						
C-032	,						,	FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	CS 7	Fested every cold shutdown	None

Oconee Nuclear Station - IST Submittal for Valves Interval 3, Submittal Revision 24 C - Condensate System : Page 3









Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Type		Test Direction	Test Frequency	Frequency Description	Relief Request
CA - Che	mical Additio	n Sy	stem	******									
1CA-027	OFD-127B-1.2 G7	В	A	Yes	Globe	Manual	None						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Strok Test)	e Q	Tested once quarterly	None
							-	LJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
2CA-027	OFD-127B-2.2 G7	В	A	Yes	Gate	Manual	None						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Strok Test)	e Q	Tested once quarterly	None
								LJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
3CA-027	OFD-127B-3.2 G7	В	A	Yes	Globe	Manual	None						
5CA-027		•						FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Strok Test)	e Q	Tested once quarterly	None
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
1CA-029	OFD-127B-1.2 J7	В	A	Yes	Globe	Manual	None			· · ·			
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Strok Test)	e Q	Tested once quarterly	None
	•	,						IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
2CA-029	OFD-127B-2.2 J7	В	A	Yes	Gate	Manual	None						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Strok Test)	e Q	Tested once quarterly	None
		•						IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
3CA-029	OFD-127B-3.2 J7	В	A	Yes	Globe	Manual	None						
U CIR VAI								FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Strok Test)	e Q	Tested once quarterly	None
								រ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None







Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Type		Test Direction	Test Frequenc	Frequency 9 Description	Relief Reques
CC - Con	ponent Cooli	ng S	ystem										
1CC-007	OFD-144A-1.2 D13	В	A	Yes	Butterfly	Limitorque	ON-CC-O1			,			
								ST	Measure Full-Stroke Time of Valve	Open to Closed	CS	Tested every cold shutdown	None
								LJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
CC-007	OFD-144A-2.2 D11	В	A	Yes	Butterfly	Limitorque	ON-CC-01						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	CS	Tested every cold shutdown	None
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
BCC-007	OFD-144A-3.2 D11	В	A	Yes	Butterfly	Limitorque	ON-CC-01						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	CS	Tested every cold shutdown	None
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
CC-008	OFD-144A-1.2 D13	В	A	Yes	Butterfly	Air	ON-CC-01				-		
								ST	Measure Full-Stroke Time of Valve	Open to Closed	CS	Tested every cold shutdown	. None
								ដ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
2CC-008	OFD-144A-2.2 D13	B	A	Yes	Butterfly	Air	ON-CC-01						
200-000			·					ST	Measure Full-Stroke Time of Valve	Open to Closed	CS	Tested every cold shutdown	None
								ដ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
3CC-008	OFD-144A-3.2 D13	3 B	A	Yes	Butterfly	Air	ON-CC-01						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	CS	Tested every cold shutdown	None
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	Non
1CC-020	OFD-144A-1.2 D4	В	A/C	Yes	Check	Self Actuated	ON-CC-02		· · · · · · · · · · · · · · · · · · ·				
100-020								LJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Open to Closed	RF	Tested every refueling outage	Non







Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Typ		Test Direction	Test Frequency	Frequency Description	Relief Request
2CC-020	OFD-144A-2.2 D3	В	A/C	Yes	Check	Self Actuated	ON-CC-02						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Open to Closed	RF	Tested every refueling outage	None
								រ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
3CC-020	OFD-144A-3.2 D3	В	A/C	Yes	Check	Self Actuated	ON-CC-02						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Open to Closed	RF	Tested every refueling outage	None
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
1CC-024	OFD-144A-1.2 D2	В	A/C	Yes	Check	Self Actuated	ON-CC-02				•		
100 021								FS	Full-Stroke Exercise Valve to Safety Position(s)	 Open to Closed 	RF	Tested every refueling outage	None
								LJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
2CC-024	OFD-144A-2.2 D1	В	A/C	Yes	Check	Self Actuated	ON-CC-02					,	
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Open to Closed	RF	Tested every refueling outage	None
								LJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
3CC-024	OFD-144A-3.2 D1	В	A/C	Yes	Check	Self Actuated	ON-CC-02						
500-024								ដ	Leak-Rate Test Valve to App J Requirement(s)	Accident Directior	RF	Tested every refueling outage	None
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Open to Closed	RF	Tested every refueling outage	None
1CC-028	OFD-144A-1.2 J8	С	С	No	Relief	Self Actuated	None						
								RV	Safety and Relief Valve Test	Closed to Open		Test relief valve per OM-1 schedule	
2CC-028	OFD-144A-2.2 L7	C	, C	No	Relief	Self Actuated	None						
								RV	Safety and Relief Valve Test	Closed to Open		Test relief valve per OM-1 schedule	
3CC-028	OFD-144A-3.2 L7	С	С	No	Relief	Self Actuated	None						
								RV	Safety and Relief Valve Test	Closed to Open		Test relief valve per OM-1 schedul	
1CC-032	OFD-144A-1.2 18	C	С	No	Relief	Self Actuated	None						
100-032							·,	RV	Safety and Relief Valve Test	Closed to Open		Test relief valve per OM-1 schedul	



Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Type		Test Direction	Test Frequenc	Frequency Description	Relief Request
2CC-032	OFD-144A-2.2 K7	С	С	No	Relief	Self Actuated	None			01	DV	Test relief valve	CNP VI V 010
								RV	Safety and Relief Valve Test	Closed to Open	RV	er OM-1 schedule	
3CC-032	OFD-144A-3.2 K7	C	С	No	Relief	Self Actuated	None						
								RV	Safety and Relief Valve Test	Closed to Open		Test relief valve er OM-1 schedule	
1CC-036	OFD-144A-1.2 H8	C	С	No	Relief	Self Actuated	None						
								RV	Safety and Relief Valve Test	Closed to Open		Test relief valve per OM-1 schedule	
2CC-036	OFD-144A-2.2 J7	С	С	No	Relief	Self Actuated	None						
								RV	Safety and Relief Valve Test	Closed to Open	RV	Test relief valve per OM-1 schedule	
3CC-036	OFD-144A-3.2 J7	С	С	No	Relief	Self Actuated	None						
								RV	Safety and Relief Valve Test	Closed to Open	RV	Test relief valve per OM-1 schedule	
1CC-040	OFD-144A-1.2 G8	С	С	No	Relief	Self Actuated	None						
								RV	Safety and Relief Valve Test	Closed to Open	RV	Test relief valve per OM-1 schedule	
2CC-040	OFD-144A-2.2 H7	С	С	No	Relief	Self Actuated	None						
								RV	Safety and Relief Valve Test	Closed to Open	RV	Test relief valve per OM-1 schedule	
3CC-040	OFD-144A-3.2 H7	С	С	No	Relief	Self Actuated	None						
	X							RV	Safety and Relief Valve Test	Closed to Open	RV	Test relief valve per OM-1 schedule	
1CC-076	OFD-144A-1.3 H6	В	A/C	Yes	Check	Self Actuated	ON-CC-02						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Open to Closed	RF	Tested every refueling outage	None
				`				ដ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
2CC-076	OFD-144A-2.3 H6	В	A/C	Yes	Check	Self Actuated	ON-CC-02						
								FS	Full-Stroke Exercise Valve to Safety Position(s	Open to) Closed	RF	Tested every refueling outage	None
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None





Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Typ		Test Direction	Test Frequency	Frequency Description	Relief Request
3CC-076	OFD-144A-3.3 H6	В	A/C	Yes	Check	Self Actuated	ON-CC-02						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Open to Closed	RF	Tested every refueling outage	None
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
1CC-077	OFD-144A-1.3 H7	В	A/C	Yes	Check	Self Actuated	ON-CC-02						
								រ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Open to Closed	RF	Tested every refueling outage	None
2CC-077	OFD-144A-2.3 H7	В	A/C	Yes	Check	Self Actuated	ON-CC-02						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Open to Closed	RF	Tested every refueling outage	None
								LJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
3CC-077	OFD-144A-3.3 H7	В	A/C	Yes	Check	Self Actuated	ON-CC-02						
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Open to Closed	RF	Tested every refueling outage	None







Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Type	Test Type Description	Test Direction	Test Frequency	Frequency Description	Relief Request
CCW - Co	ndenser Coo	ling	Water	Syste	em								
1CCW-001	OFD-133A-1.2 12	С	В	Yes	Butterfly	Limitorque	None	÷				-	
							·	ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
1CCW-002	OFD-133A-1.2 I4	С	В	Yes	Butterfly	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
1CCW-003	OFD-133A-1.2 16	С	В	Yes	Butterfly	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
ICCW-004	OFD-133A-1.2 17	С	В	Yes	Butterfly	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
ICCW-005	OFD-133A-1.2 19	С	В	Yes	Butterfly	Limitorque	None						
							•	ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	· None
1CCW-006	OFD-133A-1.2 111	С	В	Yes	Butterfly	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
2CCW-007	OFD-133A-2.2 D2	. C	В	Yes	Butterfly	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
CCW-008	OFD-133A-3.2 B1	С	В	Yes	Butterfly	Motor - Other	None						
								ST	Measure Full-Stroke Time of Valve	Both (Strok Test)	te Q	Tested once quarterly	None
1CCW-010	OFD-133A-1.1 J2	С	В	Yes	Butterfly	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Both (Strok Test)	ke Q	Tested once quarterly	None
2CCW-010	OFD-133A-2.1 J2	С	В	Yes	Butterfly	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Both (Strok Test)	ke Q	Tested once quarterly	None
3CCW-010	OFD-133A-3.1 J2	. C	В	Yes	Butterfly	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Both (Strok Test)	ke Q	Tested once quarterly	None





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Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Type	Test Type Description	Test Direction	Test Frequency	Frequency Description	Relief Request
ICCW-011	OFD-133A-1.1 J5	С	В	Yes	Butterfly	Limitorque	None						
	<i>.</i>							ST	Measure Full-Stroke Time of Valve	Both (Stroke Test)	e Q	Tested once quarterly	None
2CCW-011	OFD-133A-2.1 J5	С	В	Yes	Butterfly	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Both (Stroke Test)	e Q	Tested once quarterly	None
3CCW-011	OFD-133A-3.1 J5	С	В	Yes	Butterfly	Limitorque	None		·				
								ST	Measure Full-Stroke Time of Valve	Both (Stroke Test)	e Q	Tested once quarterly	None
1CCW-012	OFD-133A-1.1 J7	С	В	Yes	Butterfly	Limitorque	None						
-								ST	Measure Full-Stroke Time of Valve	Both (Stroke Test)	e Q	Tested once quarterly	None
2CCW-012	OFD-133A-2.1 J7	С	В	Yes	Butterfly	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Both (Stroko Test)	e Q	Tested once quarterly	None
3CCW-012	OFD-133A-3.1 J7	С	В	Yes	Butterfly	Limitorque	None						
	• .							ST	Measure Full-Stroke Time of Valve	Both (Stroke Test)	e Q	Tested once quarterly	None
1CCW-013	OFD-133A-1.1 J10	С	В	Yes	Butterfly	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Both (Stroke Test)	e Q	Tested once quarterly	None
2CCW-013	OFD-133A-2.1 J10	С	В	Yes	Butterfly	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Both (Strok Test)	e Q	Tested once quarterly	None
3CCW-013	OFD-133A-3.1 J10	С	В	Yes	Butterfly	Limitorque	None	-					
								ST	Measure Full-Stroke Time of Valve	Both (Strok Test)	e Q	Tested once quarterly	None
3CCW-093	OFD-133A-3.2 D2	С	В	Yes	Butterfly	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
1CCW-268-SSF	OFD-133A-2.5 H14	4 C	В	Yes	Globe	Rotork	None						
								ST	Measure Full-Stroke Time of Valve	Both (Strok Test)	e Q	Tested once quarterly	None
2CCW-268-SSF	OFD-133A-2.5 H1.	3 C	В	Yes	Globe	Rotork	None						
								ST	Measure Full-Stroke Time of Valve	Both (Strok Test)	e Q	Tested once quarterly	None







Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator ¹ Type	JOD	Test Type		Test Direction	Test Frequency	Frequency Description	Relief Request
3CCW-268-SSF	OFD-133A-2.5 H12	С	В	Yes	· Globe	Rotork	None	ST	Measure Full-Stroke Time of Valve	Both (Stroke Test)	e Q	Tested once quarterly	None
1CCW-269-SSF	OFD-121D-1.1 G13	С	В	Yes	Gate	Rotork	ON-SSF-01	ST	Measure Full-Stroke Time of Valve	Both (Stroke Test)	e CS 7	Fested every cold shutdown	None
2CCW-269-SSF	OFD-121D-2.1 G13	С	В	Yes	Gate	Rotork	ON-SSF-01	ST	Measure Full-Stroke Time of Valve	Both (Stroko Test)	e CS T	Fested every cold shutdown	None
3CCW-269-SSF	OFD-121D-3.1 G13	С	В	Yes	Globe	Rotork	ON-SSF-01	ST	Measure Full-Stroke Time of Valve	Both (Stroko Test)	e CS	Fested every cold shutdown	None
CCW-271-SSF	OFD-133A-2.5 H5	С	С	Yes	Check	Self Actuated	None +	FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	Q	Tested once quarterly	None
CCW-274-SSF	OFD-133A-2.5 J6	С	С	Yes	Check	Self Actuated	None	FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	Q	Tested once quarterly	None
CCW-284-SSF	OFD-133A-2.5 G6	С	С	Yes	Check	Self Actuated	None	FS	.Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	Q	Tested once quarterly	None
CCW-286-SSF	OFD-133A-2.5 GI	<u>р</u> С	В	Yes	Gate	Manual	None	FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Strok Test)	e Q	Tested once quarterly	None
1CCW-287-SSF	OFD-133A-2.5 GI4	4 C	В	Yes	Gate	Rotork	None	ST	Measure Full-Stroke Time of Valve	Closed to Open	RF	Tested every refueling outage	None
2CCW-287-SSF	OFD-133A-2.5 G1.	3 C	В	Yes	Gate	Rotork	None	ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
3CCW-287-SSF	OFD-133A-2.5 G1	2 C	В	Yes	Gate	Rotork	None	ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
CCW-289-SSF	OFD-133A-2.5 J9	С	С	Yes	Check	Self Actuated	None	FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	Q	Tested once quarterly	None







Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Type		Test Direction	Test Frequency	Frequency Description	Relief Request
CCW-382-SSF	OFD-133A-2.5 L4	C	В	Yes	Ball	Manual	None	FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Strok Test)	e Q	Tested once quarterly	None
CCW-384-SSF	OFD-133A-2.5 F10	C C	В	Yes	Gate	Manual	None	FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Strok Test)	e Q	Tested once quarterly	None

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Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Typ		Test Direction	Test Frequency	Frequency Description	Relief Request
CF - Cor	e Flood Syster	m	<u></u>										
1CF-003	OFD-102A-1.3 G9	В	A	Yes	Globe	Limitorque	None						
							•	ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
					,		,	IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
2CF-003	OFD-102A-2.3 G10) B	A	Yes	Globe	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
								រ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
3CF-003	OFD-102A-3.3 G9	В	A	Yes	Globe	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
								រ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction		Tested every refueling outage	None
1CF-004	OFD-102A-1.3 G5	В	A	Yes	Globe	Limitorque	None		-				
								. ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction		Tested every refueling outage	None
2CF-004	OFD-102A-2.3 G4	В	A	Yes	Globe	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
					~			IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction		Tested every refueling outage	None
	OFD-102A-3.3 G5	В	A	Yes	Globe	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Directior		Tested every refueling outage	None
1CF-007	OFD-102A-1.3 G4	B	A	No	Globe	Manual	None				-		
								រ	Leak-Rate Test Valve to App J Requirement(s)	Accident Directior		Tested every refueling outage	None
2CF-007	OFD-102A-2.3 F3	В	A	No	Globe	Manual	None						
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Directior		Tested every refueling outage	None



Valve	Flow Diagram	ASME Class	Vaive Category	Active	Valve Type	Actuator Type	JOD	Tes Typ	• -	Test Direction	Test Frequency	Frequency Description	Relief Request
3CF-007	OFD-102A-3.3 G4	В	A	No	Globe	Manual	None						
								IJ	, Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
1CF-011	OFD-102A-1.3 E10	A	A/C	Yes	Check	Self Actuated	ON-CF-01						
								PS	Partial-Stroke Exercise Valve	Closed to Open	CS '	Fested every cold shutdown	None
,								LT	Leak-Rate Test Valve to Section XI Requirement(s)	Accident Direction	CS	Fested every cold shutdown	SRR-VLV-010
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	ŖF	Tested every refueling outage	None
2CF-011	OFD-102A-2.3 D10	A	A/C	Yes	Check	Self Actuated	ON-CF-01						
								LT	Leak-Rate Test Valve to Section XI Requirement(s)	Accident Direction	CS	l'ested every cold shutdown	SRR-VLV-010
								PS	Partial-Stroke Exercise Valve	Closed to Open	CS	Fested every cold shutdown	None
			·					FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	RF	Tested every refueling outage	None
3CF-011	OFD-102A-3.3 E10	A	A/C	Yes	Check	Self Actuated	ON-CF-01						
	. •							LT	Leak-Rate Test Valve to Section XI Requirement(s)	Accident Direction		Tested every cold shutdown	SRR-VLV-010
								PS	Partial-Stroke Exercise Valve	Closed to Open	CS	Tested every cold shutdown	None
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	RF	Tested every refueling outage	None
1CF-012	OFD-102A-1.3 D9	A	A/C	Yes	Check	Self Actuated	ON-CF-02			·			
								PS	Partial-Stroke Exercise Valve	Closed to Open	CS	Fested every cold shutdown	None
,								LT	Leak-Rate Test Valve to Section XI Requirement(s)	Accident Direction		Tested every cold shutdown	SRR-VLV-017
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	RF	Tested every refueling outage	None
2CF-012	OFD-102A-2.3 D10	A	A/C	Yes	Check	Self Actuated	ON-CF-02		· · · · · · · · · · · · · · · · · · ·				
		•						PS	Partial-Stroke Exercise Valve	Closed to Open	C\$	Fested every cold shutdown	None
						-		LT	Leak-Rate Test Valve to Section XI Requirement(s)	Accident Direction		Fested every cold shutdown	SRR-VLV-017
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	RF	Tested every refueling outage	None





Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Tes Typ		Test Direction	Test Fr e quenc	Frequency Y Description	Relief Request
3CF-012	OFD-102A-3.3 D9	A	A/C	Yes	Check	Self Actuated	ON-CF-02						
								LT	Leak-Rate Test Valve to Section XI Requirement(s)	Accident Direction		Tested every cold shutdown	SRR-VLV-017
								PS	Partial-Stroke Exercise Valve	Closed to Open	CS	Tested every cold shutdown	None
	·					· · · · · ·		FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	RF	Tested every refueling_outage	None
1CF-013	OFD-102A-1.3 E6	А	A/C	Yes	Check	Self Actuated	ON-CF-01			-			
								LT	Leak-Rate Test Valve to Section XI Requirement(s)	Accident Direction	CS	Tested every cold shutdown	SRR-VLV-010
								PS	Partial-Stroke Exercise Valve	Closed to Open	CS	Tested every cold shutdown	None
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	RF	Tested every refueling outage	None
2CF-013	OFD-102A-2.3 D6	Å	A/C	Yes	Check	Self Actuated	ON-CF-01						
								LT	Leak-Rate Test Valve to Section XI Requirement(s)	Accident Direction	CS	Tested every cold shutdown	SRR-VLV-010
								PS	Partial-Stroke Exercise Valve	Closed to Open	CS	Tested every cold shutdown	None
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	RF	Tested every refueling outage	None
3CF-013	OFD-102A-3.3 E6	A	A/C	Yes	Check	Self Actuated	ON-CF-01						· ·
								PS	Partial-Stroke Exercise Valve	Closed to Open	CS	Tested every cold shutdown	None
								LT	Leak-Rate Test Valve to Section XI Requirement(s)	Accident Direction	CS	Tested every cold shutdown	SRR-VLV-010
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	RF	Tested every refueling outage	None
1CF-014	OFD-102A-1.3 D7	А	A/C	Yes	Check	Self Actuated	ON-CF-02						
			`					PS	Partial-Stroke Exercise Valve	Closed to Open	CS	Tested every cold shutdown	None
								LT	Leak-Rate Test Valve to Section XI Requirement(s)	Accident Direction	CS	Tested every cold shutdown	SRR-VLV-017
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	RF	Tested every refueling outage	None



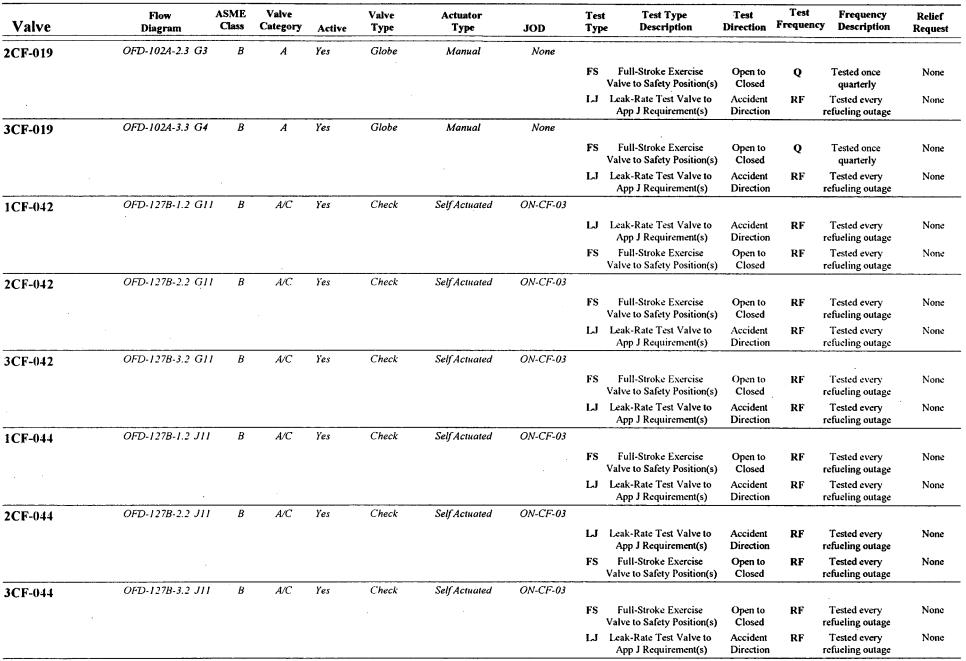




Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Tes Typ	••	Test Direction	Test Frequenc	Frequency Description	Relief Request
2CF-014	OFD-102A-2.3 D6	A	A/C	Yes	Check	Self Actuated	ON-CF-02	•					
								PS	Partial-Stroke Exercise Valve	Closed to Open	CS	Tested every cold shutdown	None
								LT	Leak-Rate Test Valve to Section XI Requirement(s)	Accident Direction	CS	Tested every cold shutdown	SRR-VLV-017
	. ·							FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	RF	Tested every refueling outage	None
3CF-014	OFD-102A-3.3 D7	А	· A/C	Yes	Check	Self Actuated	ON-CF-02						
								LT	Leak-Rate Test Valve to Section XI Requirement(s)	Accident Direction	CS	Tested every cold shutdown	SRR-VLV-017
								PS	Partial-Stroke Exercise Valve	Closed to Open	CS	Tested every cold shutdown	None
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	RF	Tested every refueling outage	None
1CF-015	OFD-102A-1.3 J10	В	С	No	Relief	Self Actuated	None						
								RV	Safety and Relief Valve Test	Closed to Open		Test relief valve er OM-1 schedule	
2CF-015	OFD-102A-2.3 H19) В	С	No	Relief	Self Actuated	None						
								RV	Safety and Relief Valve Test	Closed to Open		Test relief valve her OM-1 scheduld	
3CF-015	OFD-102A-3.3 110	В	С	No	Relief	Self Actuated	None						
								RV	Safety and Relief Valve Test	Closed to Open		Test relief valve ber OM-1 schedule	
1CF-017	OFD-102A-1.3 16	В	С	No	Relief	Self Actuated	None						
	•	•						RV	Safety and Relief Valve Test	Closed to Open		Test relief valve er OM-1 schedule	
2CF-017	OFD-102A-2.3 H6	В	С	No	Relief	Self Actuated	None						
								RV	Safety and Relief Valve Test	Closed to Open		Test relief valve er OM-1 schedule	
3CF-017	OFD-102A-3.3 16	В	С	No	Relief	Self Actuated	None		······································			···	
							•	RV	Safety and Relief Valve Test	Closed to Open		Test relief valve er OM-1 schedule	
1CF-019	OFD-102A-1.3 G4	В	A	Yes	Globe	Manual	None						
				•				FS	Full-Stroke Exercise Valve to Safety Position(s)	Open to Closed	Q	Tested once quarterly	None
								LJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None







CF - Core Flood System : Page 5





Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Type	Test Type Description	Test Direction	Test Frequency	Frequency Description	Relief Request
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Oconee Nuclear Station - IST Submittal for Valves Interval 3, Submittal Revision 24

CF - Core Flood System : Page 6

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Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Typ	••	Test Direction	Test Frequency	Frequency Description	Relief Reques
CS - Cool	lant Storage S	Syster	m										
1CS-005	OFD-107A-1.2 D5	В	A	Yes	Diaphragm	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
					·			Ы	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every efueling outage	None
CS-005	OFD-107A-2.2 D5	В	A	Yes	Diaphragm	Limitorque	None		·				
								ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
								Ľ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
CS-005	OFD-107A-3.2 D5	В	A	Yes	Diaphragm	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
						ι		LJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
CS-006	OFD-107A-1.2 D8	В	А	Yes	Diaphragm	Air	None						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
								LJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
2CS-006	OFD-107A-2.2 D8	В	А	Yes	Diaphragm	Air	None						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
								LJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
SCS-006	OFD-107A-3.2 D8	В	А	Yes	Diaphragm	Air	None						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
ICS-011	OFD-107A-1.1 J2	В	A/C	Yes	Check	Self Actuated	ON-CS-01						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Open to Closed	RF	Tested every refueling outage	None
	·							IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None

Oconee Nuclear Station - IST Submittal for Valves Interval 3, Submittal Revision 24

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CS - Coolant Storage System : Page 1









Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Typ	••	Test Direction	Test Frequency	Frequency Description	Relief Request
2CS-011	OFD-107A-2.1 J2	В	A/C	Yes	Check	Self Actuated	ON-CS-01		······································				
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Open to Closed	RF	Tested every refueling outage	None
								ដ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
3CS-011	OFD-107A-3.1 J3	В	A/C	Yes	Check	Self Actuated	ON-CS-01						
								រ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Open to Closed	RF	Tested every refueling outage	None
1CS-012	OFD-107A-1.1 J5	В	A/C	Yes	Check	Self Actuated	ON-CS-01						
								ដ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
	•							FS	Full-Stroke Exercise Valve to Safety Position(s)	Open to Closed	RF	Tested every refueling outage	None
2CS-012	OFD-107A-2.1 J5	В	A/C	Yes	Check	Self Actuated	ON-CS-01						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Open to Closed	RF	Tested every refueling outage	None
		•						ы	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
3CS-012	OFD-107A-3.1 J5	В	A/C	Yes	Check	Self Actuated	ON-CS-01						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Open to Closed	RF	Tested every refueling outage	None
								ដ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None





Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Typ		Test Direction	Test Frequenc	Frequency Y Description	Relief Request
DA - Die	sel Air Systen	t											
DA-006	OFD-137D-1.1 F4	С	С	No	Relief	Self Actuated	None						
								RV	Safety and Relief Valve Test	Closed to Open		Test relief valve per OM-1 schedule	
DA-011	OFD-137D-1.1 F7	, C	С	No	Relief	Self Actuated	None						· · · · · · · · · · · · · · · · · · ·
								RV	Safety and Relief Valve Test	Closed to Open	-	Test relief valve er OM-1 schedule	
DA-016	OFD-137D-1.2 F4	С	С	No	Relief	Self Actuated	None		··· • • • • • • •				
					×			RV	Safety and Relief Valve Test	Closed to Open		Test relief valve er OM-1 schedule	
DA-021	OFD-137D-1.2 F7	С	С	No	Relief	Self Actuated	None						
		•						RV	Safety and Relief Valve Test	Closed to Open		Test relief valve er OM-1 schedule	GNR-VLV-010

Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Tes Typ		Test Direction	Test Frequency	Frequency Description	Relief Reques
DW - Der	nineralized W	'ate r	System	n									
1DW-059	OFD-106E-1.1 H2	В	A	No	Diaphragm	Manual	None						•
								រ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
2DW-059	OFD-106E-2.1 H3	В	А	No	Diaphragm	Manual	None						
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every efueling outage	None
3DW-059	OFD-106E-3.1 H2	В	A	No	Diaphragm	Manual	None				-		
								រ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every efueling outage	Non
1DW-060	OFD-106E-1.1 H3	В	A	No	Diaphragm	Manual	None				· · · · · · · · · · · · · · · · · · ·		
								เม	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every efueling outage	None
2DW-060	OFD-106E-2.1 H4	В	A	No	Diaphragm	Manual	None						
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every efueling outage	None
3DW-060	OFD-106E-3.1 H4	В	А	No	Diaphragm	Manual	None					· · · · · · · · · · · · · · · · · · ·	
								LJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction		Tested every efueling outage	None
1DW-155	OFD-106E-1.1 E3	В	A/C	No	Check	Self Actuated	None						
	·				,			니	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction		Tested every efueling outage	None
1DW-156	OFD-106E-1.1 E4	В	A/C	No	Check	Self Actuated	None						
						-		ដ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction		Tested every efueling outage	None







Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Type	Test Type Description	Test Direction	Test Frequenc	Frequency Y Description	Relief Reques
FDW -	Feedwater Sys	tem											
1FDW-032	OFD-121B-1.3 J7	с	В	Yes	Globe	Air	ON-FDW-03						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	CS	Tested every cold shutdown	Non
2FDW-032	OFD-121B-2.3 J6	С	В	Yes	Globe	Air	ON-FDW-03						
							· · ·	ST	Measure Full-Stroke Time of Valve	Open to Closed	CS	Tested every cold shutdown	Non
3FDW-032	OFD-121B-3,3 J7	C	В	Yes	Globe	Air	ON-FDW-03						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	CS	Tested every cold shutdown	Non
1FDW-033	OFD-121B-1.3 J6	С	В	Yes	Gate	Limitorque	ON-FDW-01						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	CS .	Tested every cold shutdown	Non
2FDW-033	OFD-121B-2.3 K5	5 C	В	Yes	Gate	Limitorque	ON-FDW-01						
			•					ST	Measure Full-Stroke Time of Valve	Open to Closed	CS	Tested every cold shutdown	Non
3FDW-033	OFD-121B-3.3 Ke	5 C	В	Yes	Gate	Limitorque	ON-FDW-01			· · · · · · · · ·			
								ST	Measure Full-Stroke Time of Valve	Open to Closed	CS 7	Tested every cold shutdown	Non
1FDW-035	OFD-121B-1.3 L7	C C	В	Yes	Globe	Air	ON-FDW-01		······································				
								ST	Measure Full-Stroke Time of Valve	Open to Closed	CS 7	Tested every cold shutdown	Non
2FDW-035	OFD-121B-2.3 Ke	5 C	В	Yes	Globe	Air	ON-FDW-01						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	CS ²	Tested every cold shutdown	Non
3FDW-035	OFD-121B-3.3 K7	' С	В	Yes	Globe	Air	ON-FDW-01						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	CS 7	Fested every cold shutdown	None
1FDW-039	OFD-121D-1.1 J1	0 B	С	Yes	Check	Self Actuated	ON-FDW-04					· · ·	
								SD	Sample Disassembly	Both (Stroke Test)	s d I	Disassem one vlv per grp ea. RFO	Non
2FDW-039	OFD-121D-2.1 J1	0 B	С	Yes	Check	Self Actuated	ON-FDW-04						
								SD	Sample Disassembly	Both (Stroke Test)		Disassem one vlv per grp ea. RFO	None





Valve	Flow Diagram	ASME Class	Vaive Category	Active	Valve Type	Actuator Type	JOD	Test Type	Test Type Description	Test Direction	Test Frequenc	Frequency Y Description	Relief Request
3FDW-039	OFD-121D-3.1 J10	В	С	Yes	Check	Self Actuated	ON-FDW-04	SD	Sample Disassembly	Both (Stroke Test)	e SD	Disassem one vlv per grp ea. RFO	None
1FDW-041	OFD-121B-1.3 D7	С	В	Yes	Globe	Air	ON-FDW-03	ST	Measure Full-Stroke Time of Valve	Open to Closed	CS	Tested every cold shutdown	None
2FDW-041	OFD-121B-2.3 D5	С	В	Yes	Globe	Air	ON-FDW-03	ST	Measure Full-Stroke Time of Valve	Open to Closed	CS	Tested every cold shutdown	None
3FDW-041	QFD-121B-3.3 D7	С	В	Yes	Globe	Air	ON-FDW-03	ST	Measure Full-Stroke Time of Valve	Open to Closed	CS	Tested every cold shutdown	None
1FDW-042	OFD-121B-1.3 E6	С	В	Yes	Gate	Limitorque	ON-FDW-01	ST	Measure Full-Stroke Time of Valve	Open to Closed	CS	Tested every cold shutdown	None
2FDW-042	OFD-121B-2.3 E5	С	В	Yes .	Gate	Limitorque	ON-FDW-01	ST	Measure Full-Stroke Time of Valve	Open to Closed	CS	Tested every cold shutdown	None
3FDW-042	OFD-121B-3.3 E6	С	В	Yes	Gate	Limitorque	ON-FDW-01	ST	Measure Full-Stroke Time of Valve	Open to Closed	CS	Tested every cold shutdown	Noné
1FDW-044	OFD-121B-1.3 F7		В	Yes	Globe	Air	ON-FDW-01	ST	Measure Full-Stroke Time of Valve	Open to Closed	CS	Tested every cold shutdown	None
2FDW-044	OFD-121B-2.3 F7	С	В	Yes	Globe	Air	ON-FDW-01	ST	Measure Full-Stroke Time of Valve	Open to Closed	CS	Tested every cold shutdown	None
3FDW-044	OFD-121B-3.3 F7	C	В	Yes	Globe	Air	0Ń-FDW-01	ST	Measure Full-Stroke Time of Valve	' Open to Closed	CS	Tested every cold shutdown	None
1FDW-103	OFD-121B-1.5 K8	В	A	Yes	Gate	Limitorque	None	ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None



Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Type	••	Test Direction	Test Frequency	Frequency Description	Relief Request
2FDW-103	OFD-121B-2.5 J9	В	A	Yes	Gate	Rotork	None					····	
								ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
SFDW-103	OFD-121B-3.5 J9	В	A	Yes	Gate	Limitorque	None						
						· .		ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
					<u>19</u> , 10			ដ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
IFDW-104	OFD-121B-1.5 C8	В	А	Yes	Gate	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
	·							រ	Leak-Rate Test Valve to App J Requirement(s)	' Accident Direction	RF	Tested every refueling outage	None
2FDW-104	OFD-121B-2.5 C9	В	А	Yes	Gate	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
							•	LJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
3FDW-104	OFD-121B-3.5 D9	В	А	Yes	Gate	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
v								ដ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
1FDW-105	OFD-110A-1.1 D2	В	А	Yes	Gate	Limitorque	None						
								ST.	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
2FDW-105	OFD-110A-2.1 F3	В	А	Yes	Globe	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
								ដ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
3FDW-105	OFD-110A-3.1 D2	В	A	Yes	Gate	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None





Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Typ		Test Direction	Test Frequency	Frequency Description	Relief Request
1FDW-106	OFD-110A-1.1 D6	В	A	Yes	Globe	Air	None						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
								រ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every efueling outage	None
2FDW-106	OFD-110A-2.1 F6	В	A	Yes	Gate	Air	None						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF 1	Tested every efueling outage	None
3FDW-106	OFD-110A-3.1 D6	В	А	Yes	Globe	Air	None						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
								ដ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF 1	Tested every efueling outage	None
1FDW-107	OFD-110A-1.1 F3	B	А	Yes	Gate	Limitorque	None						
F DW-1 07								ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
								ដ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	y Description Tested once quarterly Tested every refueling outage Tested once quarterly Tested every refueling outage Tested once quarterly Tested every refueling outage Tested once quarterly Tested once quarterly Tested once quarterly Tested once	None
2FDW-107	OFD-110A-2.1 D3	В	A	Yes	Gate	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	Q		None
							uptor de set	IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	*	None
3FDW-107	OFD-110A-3.1 F3	В	А	Yes	Gate	Limitorque	None .						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	Q		None
·	1	41, -1						LJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF		None
1FDW-108	OFD-110A-1.1 F6	В	A	Yes	Globe	Air	None						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	Q		None
								ม	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	~	None
2FDW-108	OFD-110A-2.1 D6	В	A	Yes	Gate	Air	None						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	Q		None
								LJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF		None



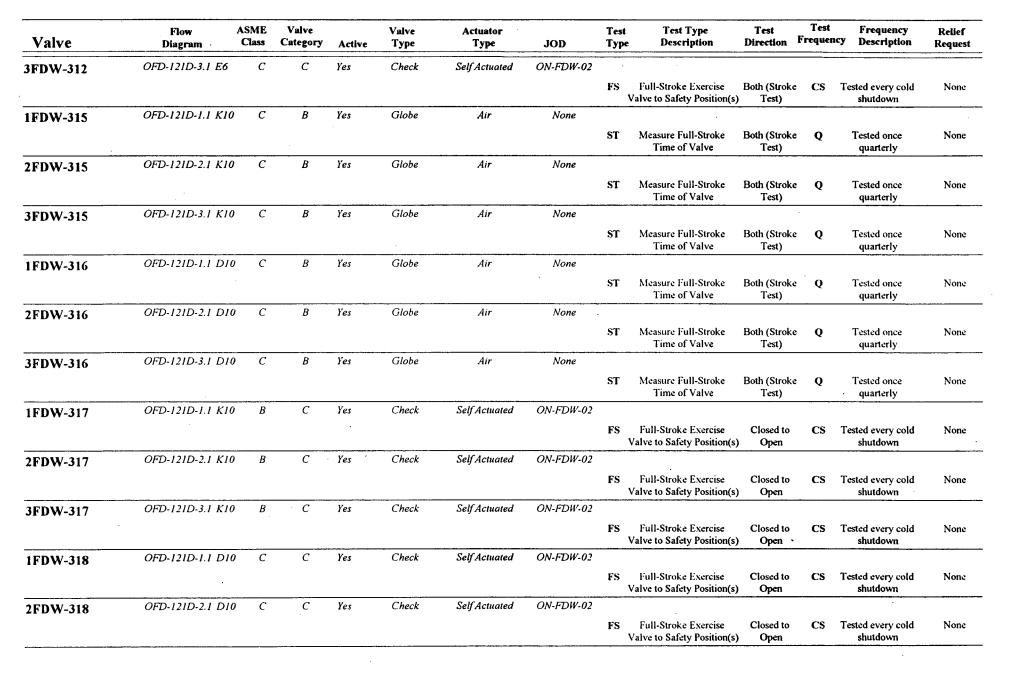




Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Tes Typ		Test Direction	Test Frequency	Frequency Description	Relief Request
3FDW-108	OFD-110A-3.1 F6	B	A	Yes	Globe	Air	None						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
1FDW-232	OFD-121D-1.1 KI	B	С	Yes	Check	Self Actuated	ON-FDW-02						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	CS 7	Fested every cold shutdown	None
2FDW-232	OFD-121D-2.1 K1.	B B	С	Yes	Check	Self Actuated	ON-FDW-02						· · · · · · · · · · · · · · · · · · ·
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	CS 1	Fested every cold shutdown	None
3FDW-232	OFD-121D-3.1 K1	B B	С	Yes	Check	Self Actuated	ON-FDW-02					···	
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	CS 1	Fested every cold shutdown	None
1FDW-233	OFD-121D-1.1 D1.	3 B	С	Yes	Check ·	Self Actuated	ON-FDW-02						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	CS 1	Fested every cold shutdown	None
FDW-233	OFD-121D-2.1 D1.	3 B	С	Yes	Check	Self Actuated	ON-FDW-02						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	CS 1	Fested every cold shutdown	None
3FDW-233	OFD-121D-3.1 D1.	3 B	С	Yes	Check	Self Actuated	ON-FDW-02						
, ,								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	CS 1	Fested every cold shutdown	None
1FDW-311	OFD-121D-1.1 J6	С	С	Yes	Check	Self Actuated	ON-FDW-02						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Stroke Test)	e CS 1	fested every cold shutdown	None
2FDW-311	OFD-121D-2.1 J6	С	C	Yes	Check	, Self Actuated	ON-FDW-02						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Stroke Test)	e CS 1	ested every cold shutdown	None
3FDW-311	OFD-121D-3.1 16	С	С	Yes	Check	Self Actuated	ON-FDW-02						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Stroke Test)	e CS T	ested every cold shutdown	None
1FDW-312	OFD-121D-1.1 E6	С	С	Yes	Check	Self Actuated	ON-FDW-02				•		
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Stroke Test)	e CS∖T	ested every cold shutdown	None
2FDW-312	OFD-121D-2.1 E7	С	С	Yes	Check	Self Actuated	ON-FDW-02					<u></u>	
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Stroke Test)	e CS T	ested every cold shutdown	None













Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Typ		Test Direction	Test Frequenc	Frequency 9 Description	Relief Request
3FDW-318	OFD-121D-3.1 D10	С	С	Yes	Check	Self Actuated	ON-FDW-02					· · · · · · · · · · · · · · · · · · ·	
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	CS	Tested every cold shutdown	None
1FDW-329	OFD-121B-1.5 J8	В	A	No	Gate	Manual	None						
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
2FDW-329	OFD-121B-2.5 18	В	Α	No	Gate	Manual	None						
								LJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
3FDW-329	OFD-121B-3.5 J8	В	Α	No	Gate	Manual	None						·
· .								ដ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
1FDW-331	OFD-121B-1.5 D8	В	А	No	Gate	Manual	None						
					۰.			IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
2FDW-331	OFD-121B-2.5 C8	В	A	No	Gate	Manual	None						
								LJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
3FDW-331	OFD-121B-3.5 D8	В	А	No	Gate	Manual	None						
								니	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
1FDW-334	OFD-121B-1.5 L6	В	Α	No	Gate	Manual	None						
	_'							ដ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
2FDW-334	OFD-121B-2.5 K7	В	Α	No	Gate	Manual	None						
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
3FDW-334	OFD-121B-3.5 L6	В	А	No	Gate	Manual	None	· .					
	• ·							IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
1FDW-335	OFD-121B-1.5 C6	В	. A	No	Gate	Manual	None						
		د						រ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
2FDW-335	OFD-121B-2.5 C6	В	A	No	Gate	Manual	None		· · · · · · · · · · · · · · · · · · ·				·
								រ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None







Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Tes Typ	**	Test Direction	Test Frequency	Frequency Description	Relief Request
3FDW-335	OFD-121B-3.5 C6	В	A	No	Gate	Manual	None						<u> </u>
								រ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
1FDW-345	OFD-121D-1.1 K12	В	С	Yes	Check	Self Actuated	ON-FDW-02						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	CS	Tested every cold shutdown	None
2FDW-345	OFD-121D-2.1 K12	В	С	Yes	Check	Self Actuated	ON-FDW-02						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	CS	Tested every cold shutdown	None
3FDW-345	OFD-121D-3.1 K13	B	С	Yes	Check	Self Actuated	ON-FDW-02						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	CS	Tested every cold shutdown	None
1FDW-346	OFD-121D-1.1 D12	В	С	Yes	Check	Self Actuated	ON-FDW-02						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	CS	Tested every cold shutdown	None
2FDW-346	OFD-121D-2.1 D12	В	C [.]	Yes	Check	Self Actuated	ON-FDW-02						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	CS	Tested every cold shutdown	None
3FDW-346	OFD-121D-3.1 D12	В	С	Yes	Check	Self Actuated	ON-FDW-02					•	
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	CS	Tested every cold shutdown	None .
1FDW-347-SSF	OFD-121D-1.1 D13	С	В	Yes	Gate	Rotork	ON-SSF-05						
							-	ST	Measure Full-Stroke Time of Valve	Both (Strok Test)	e CS	Tested every cold shutdown	None
2FDW-347-SSF	OFD-121D-2.1 D13	С	В	Yes	Gate	Rotork	ON-SSF-05	•					
								ST	Measure Full-Stroke Time of Valve	Both (Strok Test)	e CS	Tested every cold shutdown	None
3FDW-347-SSF	OFD-121D-3.1 D13	С	В	Yes	Globe	Rotork	ON-SSF-05						
								ST	Measure Full-Stroke Time of Valve	Both (Strok Test)	e CS	Tested every cold shutdown	None
1FDW-370	OFD-121D-1.1 K3	С	С	Yes	Check	Self Actuated	None						
						-		FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	Q	Tested once quarterly	None
2FDW-370	OFD-121D-2.1 K3	С	С	Yes	Check	Self Actuated	None						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	Q	Tested once quarterly	None





Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Typ	••	Test Direction	Test Frequency	Frequency Description	Relief Request
3FDW-370	OFD-121D-3.1 K4	С	С	Yes	Check	Self Actuated	None						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	Q	Tested once quarterly	None
1FDW-372	OFD-121D-1.1 K7	С	В	Yes	Gate	Rotork	None						<u> </u>
<u>.</u>								ST	Measure Full-Stroke Time of Valve	Open to Closed	- Q	Tested once quarterly	None
2FDW-372	OFD-121D-2.1 K7	С	В	Yes	Gate	Rotork	None						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
3FDW-372	OFD-121D-3.1 K7	С	В	Yes	Gate	Rotork	None						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
1FDW-373	OFD-121D-1.1 K7	С	С	Yes	Check	Self Actuated	ON-FDW-02						
								FS	Full-Stroke Exercise Valve to Safety Position(s)		e CS _i 1	Fested every cold shutdown	None
2FDW-373	OFD-121D-2.1 K7	С	C	Yes	Check	Self Actuated	ON-FDW-02						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Stroke Test)	e CS 1	Fested every cold shutdown	None
3FDW-373	OFD-121D-3.1 K7	С	С	Yes	Check	Self Actuated	ON-FDW-02						
					<u>.</u>			FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Stroke Test)	e CS 7	fested every cold shutdown	None
1FDW-378	OFD-121D-1.1 K3	С	С	Yes	Check	Self Actuated	None						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	Q	Tested once quarterly	None
2FDW-378	OFD-121D-2.1 K3	С	C	Yes	Check	Self Actuated	None						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	Q	Tested once quarterly	None
3FDW-378	OFD-121D-3.1 J4	Ċ	C	Yes	Check	Self Actuated	None						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	Q	Tested once quarterly	None
1FDW-380	OFD-121D-1.1 D3	С	С	Yes	Check	Self Actuated	None						
•								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	Q .	Tested once quarterly	None
2FDW-380	OFD-121D-2.1 D3	С	С	Yes	Check	Self Actuated	None						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	Q	Tested once quarterly	None

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Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Typ	**	Test Direction	Test Frequency	Frequency Description	Relief Request
3FDW-380	OFD-121D-3.1 D4	С	С	Yes	Check	Self Actuated	None						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	Q	Tested once quarterly	None
1FDW-382	OFD-121D-1.1 D7	С	В	Yes	Gate	Rotork	None		· · · · · · · · · · · · · · · · · · ·				
								ST	Measure Full-Stroke Time of Valve	Open to Closed	RF	Tested every refueling outage	None
2FDW-382	OFD-121D-2.1 D7	С	В	Yes	Gate	Rotork	None						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
3FDW-382	OFD-121D-3.1 D7	С	В	Yes	Gate	Rotork	None						
····· ··· - <u>-</u>								ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
1FDW-383	OFD-121D-1.1 D7	С	С	Yes	Check _	Self Actuated	ON-FDW-02						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Strok Test)	e CS 7	ested every cold shutdown	None
2FDW-383	OFD-121D-2.1 D6	С	. С	Yes	Check	Self Actuated	ON-FDW-02						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Strok Test)	e CS T	ested every cold shutdown	None
3FDW-383	OFD-121D-3.1 D7	С	С	Yes	Check	Self Actuated	ON-FDW-02						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Strok Test)	e CS 7	ested every cold shutdown	None
1FDW-388	OFD-121D-1.1 D3	С	С	Yes	Check	Self Actuated	None						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Opén	Q	Tested once quarterly	None
2FDW-388	OFD-121D-2.1 D3	С	С	Yes	Check	Self Actuated	None					· · ·	
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	Q	Tested once quarterly	None
3FDW-388	OFD-121D-3.1 D4	С	С	Yes	Check	Self Actuated	None						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	Q	Tested once quarterly	None
1FDW-432	OFD-121D-1.1 F10	C	С	Yes	Check	Self Actuated	ON-FDW-04						
								SD	Sample Disassembly	Open to Closed		Disassem one vlv per grp ea. RFO	None
2FDW-432	OFD-121D-2.1 E10) C	С	Yes	Check	Self Actuated	ON-FDW-04						
								SD	Sample Disassembly	Open to Closed)isassem one vlv per grp ea. RFO	None





Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Tes Typ	•••	Test Direction	Test Frequenc	Frequency Y Description	Relief Request
3FDW-432	OFD-121D-3.1 E10	В	С	Yes	Check	Self Actuated	ON-FDW-04		***			*	
								SD	Sample Disassembly	Open to Closed	SD	Disassem one vlv per grp ea. RFO	None
1FDW-442	OFD-121D-1.1 D11	В	С	Yes	Check	Self Actuated	ON-FDW-02						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Open to Closed	CS	Tested every cold shutdown	None
2FDW-442	OFD-121D-2.1 D11	В	С	Yes	Check	Self Actuated	ON-FDW-02						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Open to Closed	CS	Tested every cold shutdown	None
3FDW-442	OFD-121D-3.1 D11	В	С	Yes	Check	Self Actuated	ON-FDW-02						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Open to Closed	CS	Tested every cold shutdown	None





Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Typ	e Description	Test Direction	Test Frequency	Frequency Description	Relief Request
FO - Fu	el Oil System												
FO-050	OFD-135A-1.2 D7	С	C	Yes	Check	Self Actuated	None	FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	Q	Tested once quarterly	None
FO-052	OFD-135A-1.2 E5	С	С	No	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open	RV	Test relief valve er OM-1 schedule	GNR-VLV-010
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Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Typ	· · ·	Test Direction	Test Frequency	Frequency Description	Relief Request
FW - Filt	ered Water S	ysten	1										
1FW-064	OFD-106E-1.1 J2	В	Â	No	Diaphragm	Manual	None						
								រ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
2FW-064	OFD-106E-2.1 J3	В	A	No	Diaphragm	Manual	None						
								ដ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
3FW-064	OFD-106E-3.1 J3	В	A	No	Diaphragm	Manual	None		······································				
								រ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
1FW-065	OFD-106E-1.1 J4	В	A	No	Diaphragm	Manual	None	_					
								LJ	Leak-Rate Test Valve to App J Requirement(s)	Reverse Direction	RF	Tested every refueling outage	None
2FW-065	OFD-106E-2.1 J6	В	A	No	Diaphragm	Manual	None						
								ដ	Leak-Rate Test Valve to App J Requirement(s)	Reverse Direction	RF	Tested every refueling outage	None
3FW-065	OFD-106E-3.1 J4	В	А	No	Diaphragm	Manual	None						
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Reverse Direction	RF	Tested every refueling outage	None

Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Tes Typ		Test Direction	Test Frequency	Frequency Description	Relief Request
GBO - Ke	owee Turb. (Guide	Beari	ng Oi	l Syste	<u>m</u>							
1GBO-001	KFD-101A-1.1 ES	c C	С	Yes	Check	Self Actuated	None						
								FS	Full-Stroke Exercise Valve to Safety Position(s	Closed to) Open	Q	Tested once quarterly	None
2GBO-001	KFD-101A-2.1 E	5 C	С	Yes	Check	Self Actuated	None						
	,					·	Ŷ	FS	Full-Stroke Exercise Valve to Safety Position(s	Closed to) Open	Q	Tested once quarterly	None
1GBO-003	KFD-101A-1.1 E	5 C	С	Yes	Check	Self Actuated	None						
								FS	Full-Stroke Exercise Valve to Safety Position(s	Closed to) Open	Q	Tested once quarterly	None
2GBO-003	KFD-101A-2.1 E.	5 C	С	Yes	Check	Self Actuated	None						
								FS	Full-Stroke Exercise Valve to Safety Position(s	Closed to) Open	Q	Tested once quarterly	None

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Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Typ		Test Direction	Test Frequency	Frequency Description	Relief Request
GWD - Ga	seous Waste	Disp	oosal S	Syster	n								
1GWD-012	OFD-107A-1.1 J11	В	A	Yes	Diaphragm	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
			*					IJ	Leak-Rate Test Valve to App J Requirement(s)	Reverse Direction	RF	Tested every refueling outage	None
2GWD-012	OFD-107A-2.1 J11	В	A	Yes	Diaphragm	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Reverse Direction	RF	Tested every refueling outage	None
3GWD-012	OFD-107A-3.1 J11	В	A	Yes	Diaphragm	Limitorque	None					**************************************	
								ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Reverse Direction	RF	Tested every refueling outage	None
1GWD-013	OFD-107A-1.1 K1.	3 B	A	Yes	Diaphragm	Air	None						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
2GWD-013	OFD-107A-2.1 KI.	3 B	А	Yes	Diaphragm	Air	None						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
								រ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
3GWD-013	OFD-107A-3.1 K1.	3 B	A	Yes	Diaphragm	Air	None		and a second			· · · · · · · · · · · · · · · · · · ·	
								ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
								ដ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None



Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Tes Typ		Test Direction	Test Frequency	Frequency Description	Relief Reques
HPI - Hig	gh Pressure I	njecti	ion Sys	stem		<u></u>							
1HP-003	OFD-101A-1.1 L5	A	A	Yes	Globe	Limitorque	ON-HP-07						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	CS 7	fested every cold shutdown	None
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
HP-003	OFD-101A-2.1 L5	А	Α	Yes	Globe	Limitorque	ON-HP-07	·					
								ST	Measure Full-Stroke Time of Valve	Open to Closed	CS 7	Fested every cold shutdown	None
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
HP-003	OFD-101A-3.1 K5	А	А	Yes	Globe	Limitorque	ON-HP-07						
			·					ST	Measure Full-Stroke Time of Valve	Open to Closed	CS T	Fested every cold shutdown	None
								LJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
LHP-004	OFD-101A-1.1 J5	А	А	Yes	Globe	Limitorque	ON-HP-07						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	CS 1	ested every cold shutdown	None
	•							រ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage '	None
2HP-004	OFD-101A-2.1 J5	А	Α	Yes	Globe	Limitorque	ON-HP-07						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	CS 1	ested every cold shutdown	None
	1							IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
3HP-004	OFD-101A-3.1 J5	А	А	Yes	Globe	Limitorque	ON-HP-07						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	CS 1	ested every cold shutdown	None
								ដ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
IHP-005	OFD-101A-1.1 K8	В	A	Yes	Globe	Air	ON-HP-01						·
								ST	Measure Eull-Stroke Time of Valve	Open to Closed	CS 1	ested every cold shutdown	None
								ដ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None

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Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Typ		Test Direction	Test Frequenc	Frequency Description	Relief Request
2HP-005	OFD-101A-2.1 K8	В	A	Yes	Globe	Air	ON-HP-01						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	CS	Tested every cold shutdown	None
	·							IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
3HP-005	OFD-101A-3.1 K8	В	A	Yes	Globe	Air	ON-HP-01						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	CS	Tested every cold shutdown	None
								ដ	Leak-Rate Test Valve to. App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
1HP-020	OFD-101A-1.1 F5	• B	A	Yes	Globe	Limitorque	ON-HP-02						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	CS	Tested every cold shutdown	None
								い	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
2HP-020	OFD-101A-2.1 E6	В	A	Yes	Globe	Limitorque	ON-HP-02						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	CS	Tested every cold shutdown	None
·								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
3HP-020	OFD-101A-3.1 E6	В	A	Yes	Globe	Limitorque	ON-HP-02						,
								ST	Measure Full-Stroke Time of Valve	Open to Closed	CS	Tested every cold shutdown	None
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
1HP-021	OFD-101A-1.1 E7	В	A	Yes	Globe	Air	ON-HP-02						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	CS	Tested every cold shutdown	None
								LJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
2HP-021	OFD-101A-2.1 E8	В	A	Yes	Globe	Air	ON-HP-02						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	CS	Tested every cold shutdown	None
								រ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
3HP-021	OFD-101A-3.1 E7	В	A	Yes	Globe	Air	ON-HP-02						
-								ST	Measure Full-Stroke Time of Valve	Open to Closed	CS	Tested every cold shutdown	None
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None







Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Type	Test Type Description	Test Direction	Test Frequenc	Frequency Description	Relief Request
HP-024	OFD-101A-1.3 13	В	В	Yes	Gate	Limitorque	None						
	· · · · · · · · · · · · · · · · · · ·							ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
2HP-024	OFD-101A-2.3 13	В	В	Yes	Gate	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
3HP-024	OFD-101A-3.3 12	В	В	Yes	Gate	Limitorque	None					· ·	
				***				ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
IHP-025	OFD-101A-1.3 F3	В	B	Yes	Gate	Limitorque	None	,					•
								ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	Noné
2HP-025	OFD-101A-2.3 F3	В	В	Yes	Gate	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
BHP-025	OFD-101A-3.3 F3	В	В	Yes	Gate	Limitorque	None			<u>- 1</u>		· - · · · · · · · · · · · · · · · · · ·	
						· · · ·		ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
1HP-026	OFD-101A-1.4 J7	В	В	Yes	Globe	Limitorque	ON-HP-03						
								ST	Measure Full-Stroke Time of Valve	Both (Stroke Test)	e CS	Fested every cold shutdown	None
2HP-026	OFD-101A-2.4 J7	В	В	Yes	Globe	Limitorque	ON-HP-03						
	•							ST	Measure Full-Stroke Time of Valve	Both (Stroke Test)	CS C	Fested every cold shutdown	None
3HP-026	OFD-101A-3.4 J6	В	В	Yes	Globe	Limitorque	ON-HP-03						
								ST	Measure Full-Stroke Time of Valve	Both (Stroke Test)	e CS	Fested every cold shutdown	None
1HP-027	OFD-101A-1.4 D7	В	В	Yes	Globe	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Both (Stroke Test)	e Q	Tested once quarterly	None
2HP-027	OFD-101A-2.4 D7	В	В	Yes	Globe	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Both (Stroke Test)	e Q	Tested once quarterly	None
3HP-027	OFD-101A-3.4 D7	В	В	Yes	Globe	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Both (Stroke Test)	e Q	Tested once quarterly	None





Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Type		Test Direction	Test Frequenc	Frequency Y Description	Relief Request
1HP-043	OFD-101A-1.1 J13	С	С	No	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open		Test relief valve per OM-1 schedul	
2HP-043	OFD-101A-2.1 J13	С	Ċ	No	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open		Test relief valve er OM-1 schedul	GNR-VLV-010
3HP-043	OFD-101A-3.1 J13	С	C	No	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open	RV	Test relief valve per OM-1 schedul	GNR-VLV-010 e
1HP-045	OFD-109A-1.1 G3	С	С	No	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open	RV	Test relief valve per OM-1 schedul	GNR-VLV-010
2HP-045	OFD-109A-1.1 G10) C	С	No	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open	RV	Test relief valve per OM-1 schedul	GNR-VLV-010
3HP-045	OFD-109A-3.1 H4	С	С	No	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open		Test relief valve per OM-1 schedul	GNR-VLV-010 e
3HP-048	OFD-109A-3.1 H9	С	С	No	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open	RV	Test relief valve per OM-1 schedul	GNR-VLV-010 e
HP-048	OFD-109A-1.1 G7	С	С	No	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open	RV	Test relief valve per OM-1 schedu	GNR-VLV-010 le
1HP-055	OFD-101A-1.2 H2	В	С	No	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open		Test relief valve per OM-1 schedu	GNR-VLV-010
2HP-055	OFD-101A-2.2 H2	В	С	No	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open		Test relief valve per OM-1 schedu	GNR-VLV-010
3HP-055	OFD-101A-3.2 H2	В	С	Νο	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open		Test relief valve per OM-1 schedu	GNR-VLV-010 le
1HP-056	OFD-101A-1.2 H1	0 B	С	No	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open		Test relief valve per OM-1 schedu	GNR-VLV-010 le





Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Typ		Test Direction	Test Frequenc	Frequency Y Description	Relief Request
2HP-056	OFD-101A-2.2 H9	В	С	No	Relief	Self Actuated	None	RV	Safety and Relief Valve	Closed to	RV	Test relief valve	GNR-VLV-010
									Test	Open	I	per OM-1 schedule	
3HP-056	OFD-101A-3.2 H9	В	С	No	Relief	Self Actuated	None						
								RV	Safety and Relief Valve Test	Closed to Open	RV	Test relief valve per OM-1 schedule	
1HP-071	OFD-101A-1.1 F10	В	С	No	Relief	Self Actuated	None						
								RV	Safety and Relief Valve Test	Closed to Open	RV	Test relief valve per OM-1 schedule	
2HP-071	OFD-101A-2.1 F10	В	С	No	Relief	Self Actuated	None						
								RV	Safety and Relief Valve Test	Closed to Open	RV1	Test relief valve er OM-1 schedule	
3HP-071	OFD-101A-3.1 F10	В	С	No	Relief	Self Actuated	None						
								RV	Safety and Relief Valve Test	Closed to Open	RV	Test relief valve per OM-1 scheduk	
1HP-078	OFD-101A-1.2 F6	В	С	Yes	Stop Check	Self Actuated	None						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	Q	Tested once quarterly	None
2HP-078	OFD-101A-2.2 F6	В	С	Yes	Stop Check	Self Actuated	None						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	Q	Tested once quarterly	None
3HP-078	OFD-101A-3.2 F6	В	С	Yes	Stop Check	Self Actuated	None		`				
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	Q	Tested once quarterly	None
1HP-079	OFD-101A-1.2 C10) B	С	No	Relief	Self Actuated	None						
								RV	Safety and Relief Valve Test	Closed to Open	RV	Test relief valve per OM-1 schedule	
2HP-079	OFD-101A-2.2 C8	В	С	No	Relief	Self Actuated	None						
								RV	Safety and Relief Valve Test	Closed to Open	RV	Test relief valve per OM-1 schedule	
3HP-079	OFD-101A-3.2 C11	В	С	No	Relief	Self Actuated	None						
								RV	Safety and Relief Valve Test	Closed to Open	RV	Test relief valve per OM-1 schedule	
1HP-097	OFD-101A-1.2 D12	? B	A/C	Yes	Check	Self Actuated	ON-HP-05						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	Q	Tested once quarterly	None
	-							LT	Leak-Rate Test Valve to Section XI Requirement(s)	Accident Direction	RF	Tested every refueling outage	None

HPI - High Pressure Injection System : Page 5









Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Typ	· • •	Test Direction	Test Frequency	Frequency Description	Relief Request
2HP-097	OFD-101A-2.2 D12	? В	A/C	Yes	Check	Self Actuated	ON-HP-05						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	Q	Tested once quarterly	None
								LT	Leak-Rate Test Valve to Section XI Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
3HP-097	OFD-101A-3.2 D1	? B	A/C	Yes	Check	Self Actuated	ON-HP-05						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	Q	Tested once quarterly	None
								LT	Leak-Rate Test Valve to Section XI Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
1HP-101	OFD-101A-1.3 J3	В	A/C	Yes	Check	Self Actuated	ON-HP-10						
								PS	Partial-Stroke Exercise Valve	Closed to Open	CS 1	Fested every cold shutdown	None
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Strok Test)	e RF.	Tested every refueling outage	None
								LT	Leak-Rate Test Valve to Section XI Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
2HP-101	OFD-101A-2.3 J3	В	A/C	Yes	Check	Self Actuated	ON-HP-10						
								PS	Partial-Stroke Exercise Valve	Closed to Open	CS ·	Fested every cold shutdown	None
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Strok Test)	e RF	Tested every refueling outage	None
			•					LT	Leak-Rate Test Valve to Section XI Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
3HP-101	OFD-101A-3.3 J2	В	A/C	Yes	Check	Self Actuated	ON-HP-10						
								PS	Partial-Stroke Exercise Valve	Closed to Open	CS ·	Fested every cold shutdown	None
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Strok Test)	e RF	Tested every refueling outage	None
								LT	Leak-Rate Test Valve to Section XI Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
1HP-102	OFD-101A-1.3 E3	В	A/C	Yes	Check	Self Actuated	ON-HP-10		-				
	• •							PS	Partial-Stroke Exercise Valve	Closed to Open	CS 7	Fested every cold shutdown	None
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Strok Test)	e RF	Tested every refueling outage	None
								LT	Leak-Rate Test Valve to Section XI Requirement(s)	Accident Direction	RF	Tested every refueling outage	None



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Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Tes Typ		Test Direction	Test Frequenc	Frequency 9 Description	Relief Request
2HP-102	OFD-101A-2.3 E3	В	A/C	Yes	Check	Self Actuated	ON-HP-10				· · · · · · · · · · · · · · · · · · ·	· <u> </u>	
								PS	Partial-Stroke Exercise Valve	Closed to Open	CS /	Tested every cold shutdown	None
								LT	Leak-Rate Test Valve to Section XI Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Stroke Test)	e RF	Tested every refueling outage	None
3HP-102	OFD-101A-3.3 E2	В	A/C	Yes	Check	Self Actuated	ON-HP-10						
				,				PS	Partial-Stroke Exercise Valve	Closed to Open	CS	Tested every cold shutdown	None
								LT	Leak-Rate Test Valve to Section XI Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Stroke Test)	e RF	Tested every refueling outage	None
1HP-104	OFD-101A-1.3 K6	В	С	No	Relief	Self Actuated	None						
•								RV	Safety and Relief Valve Test	Closed to Open	RV	Test relief valve per OM-1 schedule	
2HP-104	OFD-101A-2.3 K6	В	С	No	Relief	Self Actuated	None						
								RV	Safety and Relief Valve Test	Closed to Open	RV	Test relief valve per OM-1 schedul	
3HP-104	OFD-101A-3.3 J5	В	С	No	Relief	Self Actuated	None						
								RV	Safety and Relief Valve Test	Closed to Open	RV	Test relief valve per OM-1 schedul	
1HP-105	OFD-101A-1.3 J10	В	С	Yes	Check	Self Actuated	ON-HP-11						
								PS	Partial-Stroke Exercise Valve	Closed to Open	Q	Tested once quarterly	None
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Strok Test)	e RF	Tested every refueling outage	None
2HP-105	OFD-101A-2.3 J10	В	С	Yes	Check	Self Actuated	ON-HP-11						
								PS	Partial-Stroke Exercise Valve	Closed to Open	Q	Tested once quarterly	None
·								FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Strok Test)	e RF	Tested every refueling outage	None
3HP-105	OFD-101A-3.3 J10	· B	С	Yes	Check	Self Actuated	ON-HP-11						
								PS	Partial-Stroke Exercise Valve	Closed to Open	Q	Tested once quarterly	None
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Strok Test)	e RF	Tested every refueling outage	None





Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Type		Test Direction	Test Frequenc	Frequency 79 Description	Relief Request
1HP-108	OFD-101A-1.3 H6	В	С	No	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open	RV	Test relief valve per OM-1 schedule	
2HP-108	OFD-101A-2.3 H6	В	С	No	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open	RV	Test relief valve per OM-1 schedule	
3HP-108	OFD-101A-3.3 H5	В	С	No	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open	RV	Test relief valve per OM-1 schedule	
1HP-109	OFD-101A-1.3 G10) B	С	Yes	Check	Self Actuated	ON-HP-11	PS	Partial-Stroke Exercise Valve	Closed to Open	Q	Tested once quarterly	None
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Stroke Test)	e RF	Tested every refueling outage	None
2HP-109	OFD-101A-2.3 G10) B	С	Yes	Check	Self Actuated	ON-HP-11	PS	Partial-Stroke Exercise Valve	Closed to Open	Q	Tested once quarterly	None
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Stroke) Test)	e RF	Tested every refueling outage	None
3HP-109	OFD-101A-3.3 GI	о <u>В</u>	С	Yes	Check	Self Actuated	ON-HP-11	PS	Partial-Stroke Exercise Valve	Closed to Open	Q	Tested once quarterly	None
								FS	Full-Stroke Exercise Valve to Safety Position(s	Both (Strok) Test)	e RF	Tested every refueling outage	None
1HP-112	OFD-101A-1.3 E6	В	С	No	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open	RV	Test relief valve per OM-1 schedul	
2HP-112	OFD-101A-2.3 D6	В	С	No	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open	RV	Test relief valve per OM-1 schedul	
3HP-112	OFD-101A-3.3 C5	В	С	No	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open	RV	Test relief valve per OM-1 schedul	
1HP-113	OFD-101A-1.3 D1	0 B	С	Yes	Check	Self Actuated	ON-HP-11	PS	Partial-Stroke Exercise Valve	Closed to Open	Q	Tested once quarterly	None
								FS	Full-Stroke Exercise Valve to Safety Position(s	Both (Strok	e RF	Tested every refueling outage	None





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Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Typ		Test Direction	Test Frequency	Frequency Description	Relief Request
2HP-113	OFD-101A-2.3 D10) B	С	Yes	Check	Self Actuated	ON-HP-11						
			•					PS	Partial-Stroke Exercise Valve	Closed to Open	Q	Tested once quarterly	None
. •								FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Stroke Test)		Tested every refueling outage	None
BHP-113	OFD-101A-3.3 D10) B	С	Yes	Check	Self Actuated	ON-HP-11						*
								PS	Partial-Stroke Exercise Valve	Closed to Open	Q	Tested once quarterly	None
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Stroke Test)	e RF	Tested every refueling outage	None
1HP-126	OFD-101A-1.4 J13	А	С	Yes	Stop Check	Self Actuated	ON-HP-12						
								PS	Partial-Stroke Exercise Valve	Closed to Open	CS ⁷	l'ested every cold shutdown	None
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	RF	Tested every refueling outage	None
2HP-126	OFD-101A-2.4 J13	A	С	Yes	Stop Check	Self Actuated	ON-HP-12						
								PS	Partial-Stroke Exercise Valve	Closed to Open	CS	Tested every cold shutdown	None
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	RF	Tested every refueling outage	None
3HP-126	OFD-101A-3.4 J11	A	С	Yes	Stop Check	Self Actuated	ON-HP-12		· ·				
							,	PS	Partial-Stroke Exercise Valve	Closed to Open	CS ·	Tested every cold shutdown	None
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	RF	Tested every refueling outage	None
1HP-127	OFD-101A-1.4 J13	A	С	Yes	Stop Check	Self Actuated	ON-HP-12						
· · · ·								PS	Partial-Stroke Exercise Valve	Closed to Open	CS	Tested every cold shutdown	None
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	RF	Tested every refueling outage	None
2HP-127	OFD-101A-2.4 J13	A	С	Yes	Stop Check	Self Actuated	ON-HP-12						
								PS	Partial-Stroke Exercise Valve	Closed to Open	CS	Tested every cold shutdown	None
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	RF	Tested every refueling outage	None
3HP-127	OFD-101A-3.4 J11	A	C	Yes	Stop Check	Self Actuated	ON-HP-12						
5111 - 1 2 /					•			PS	Partial-Stroke Exercise Valve	Closed to Open	CS	Tested every cold shutdown	None
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	RF	Tested every refueling outage	None





Valve	Flow Diagram	ASME Class	Valve Category	Active	Vaive Type	Actuator Type	JOD	Test Type	Test Type Description	Test Direction	Test Frequency	Frequency Description	Relief Reques
1HP-144	OFD-101A-1.4 G13	B	A/C	Yes	Stop Check	Self Actuated	ON-HP-17						
								เป	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Stroke Test)		Tested every refueling outage	None
2HP-144	OFD-101A-2.4 F12	В	A/C	Yes	Stop Check	Self Actuated	<i>ON-HP-17</i>						
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
								FS V	Full-Stroke Exercise Valve to Safety Position(s)	Both (Stroke Test)		Tested every refueling outage	None
3HP-144	OFD-101A-3.4 H13	B	A/C	Yes	Stop Check	Self Actuated	ON-HP-17						
									Leak-Rate Test Valve to App J Requirement(s)	Accident Direction		Tested every refueling outage	None
	· · · · · · · · · · · · · · · · · · ·							FS \	Full-Stroke Exercise Valve to Safety Position(s)	Both (Stroke Test)		Tested every refueling outage	None
1HP-145	OFD-101A-1.4 F13	В	A/C	Yes	Stop Check	Self Actuated	ON-HP-17						
·								FS ۱	Full-Stroke Exercise Valve to Safety Position(s)	Both (Stroke Test)		Tested every refueling outage	None
								LJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
2HP-145	OFD-101A-2.4 G12	? В	A/C	Yes	Stop Check	Self Actuated	ON-HP-17						
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
		1. 1						FS V	Full-Stroke Exercise Valve to Safety Position(s)	Both (Stroke Test)		Tested every refueling outage	None
3HP-145	OFD-101A-3.4 113	В	A/C	Yes	Stop Check	Self Actuated	ON-HP-17						
								FS V	Full-Stroke Exercise Valve to Safety Position(s)	Both (Stroke Test)		Tested every refueling outage	None
					-			لہا 	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
1HP-146	OFD-101A-1.4 H13	B	A/C	Yes	Stop Check	Self Actuated	ON-HP-17						
								ដ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Stroke Test)		Tested every refueling outage	None
2HP-146	OFD-101A-2.4 H12	? B	A/C	Yes	Check	Self Actuated	ON-HP-17						
								FS V	Full-Stroke Exercise Valve to Safety Position(s)	Both (Stroke Test)		Tested every refueling outage	None
								ដ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None

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HPI - High Pressure Injection System : Page 10







Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Typ	••	Test Direction	Test Frequency	Frequency Description	Relief Request
3HP-146	OFD-101A-3.4 G13	В	A/C	Yes	Stop Check	Self Actuated	ON-HP-17				·····		
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Stroke Test)		Tested every refueling outage	None
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
1HP-147	OFD-101A-1.4 112	В	A/C	Yes	Check	Self Actuated	ON-HP-17						
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Stroke Test)		Tested every refueling outage	None
2HP-147	OFD-101A-2.4 112	В	A/C	Yes	Check	Self Actuated	ON-HP-17						
					•			FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Stroke Test)		Tested every refueling outage	None
			•				_	រ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
3HP-147	OFD-101A-3.4 F13	В	A/C	Yes	Stop Check	Self Actuated	ON-HP-17						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Stroke Test)		Tested every refueling outage	None
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
1HP-152	OFD-101A-1.4 D14	1. A	С	Yes	Stop Check	Self Actuated	ON-HP-13						
							-	PS	Partial-Stroke Exercise Valve	Closed to Open	CS 1	fested every cold shutdown	None
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	RF	Tested every refueling outage	None
2HP-152	OFD-101A-2.4 D13	₿ A	С	Yes	Stop Check	Self Actuated	ON-HP-13						
								PS	Partial-Stroke Exercise Valve	Closed to Open	CS 1	Fested every cold shutdown	None
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	RF	Tested every refueling outage	None
3HP-152	OFD-101A-3.4 D13	3 A	С	Yes	Stop Check	Self Actuated	ON-HP-13					· · · · · · · · · · · · · · · · · · ·	<u> </u>
								PS	Partial-Stroke Exercise Valve	Closed to Open	CS 1	Fested every cold shutdown	None
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	RF	Tested every refueling outage	None
1HP-153	OFD-101A-1.4 E13	A	С	Yes	Stop Check	Self Actuated	ON-HP-13	<u> </u>	<u> </u>				
								PS	Partial-Stroke Exercise Valve	Closed to Open	CS 1	fested every cold shutdown	None
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	RF	Tested every refueling outage	None

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Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Typ		Test Direction	Test Frequenc	Frequency Y Description	Relief Request
2HP-153	OFD-101A-2.4 E13	A	С	Yes	Stop Check	Self Actuated	ON-HP-13		······································				
								PS	Partial-Stroke Exercise Valve	Closed to Open	CS	Tested every cold shutdown	None
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	RF	Tested every refueling outage	None
3HP-153	OFD-101A-3.4 E13	A	С	Yes	Stop Check	Self Actuated	ON-HP-13						
								PS	Partial-Stroke Exercise Valve	Closed to Open	CS	Tested every cold shutdown	None
					<u> </u>			FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	RF	Tested every refueling outage	None
1HP-155	OFD-127B-1.2 H7	В	А	No	Globe	Manual	None						
		•						ដ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
2HP-155	OFD-127B-2.2 H7	В	А	No	Globe	Manual	None						
			_					IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
3HP-155	OFD-127B-3.2 H7	В	А	No	Globe	Manual	None						
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
1HP-156	OFD-127B-1.2 17	В	A	No	Globe	Manual	None						
								ដ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
2HP-156	OFD-127B-2.2 17	В	A	No	Globe	Manual	None						
								ដ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
3HP-156	OFD-127B-3.2 17	В	A	No	Globe	Manual	None				·		
								ដ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
1HP-188	OFD-101A-1.4 D11	A	С	Yes	Check	Self Actuated	ON-HP-14						
								PS	Partial-Stroke Exercise Valve	Closed to Open	CS	Tested every cold shutdown	None
								FS,	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	RF	Tested every refueling outage	None
2HP-188	OFD-101A-2.4 D11	A	С	Yes	Check	Self Actuated	ON-HP-14						
								PS	Partial-Stroke Exercise Valve	Closed to Open	CS	Tested every cold shutdown	None
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	RF	Tested every refueling outage	None

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HPI - High Pressure Injection System : Page 12





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Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Typ		Test Direction	Test Frequenc	Frequency Y Description	Relief Request
 3HP-188	OFD-101A-3.4 D10	A	С	Yes	Check	Self Actuated	ON-HP-14						
								PS	Partial-Stroke Exercise Valve	Closed to Open	CS	Tested every cold shutdown	None
·								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	RF	Tested every refueling outage	None
IHP-189	OFD-101A-1.2 F6	B	С	Yes	Check	Self Actuated	ON-HP-08	SD	Sample Disassembly	Closed to	SD	Disassem one vlv	None
	OFD-101A-2.2 F5	B	<u>с</u>	Yes	Check	Self Actuated	ON-HP-08			Open		per grp ea. RFO	
2HP-189	OFD-101A-2.2 F3	Б	C	162	Check	Self Activated	0//•/// •00	SD	Sample Disassembly	Closed to Open	SD	Disassem one vlv per grp ea. RFO	None
3HP-189	OFD-101A-3.2 F5	В	С	Yes	Check	Self Actuated	ON-HP-08			<u> </u>	· · · ·		
	· .							SD	Sample Disassembly	Closed to Open	SD	Disassem one vlv per grp ea. RFO	None
1HP-194	OFD-101A-1.4 J10	A	С	Yes	Check	Self Actuated	ON-HP-15					·	
								PS	Partial-Stroke Exercise Valve	Closed to Open	Q	Tested once quarterly	None
				·				FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	RF	Tested every refueling outage	None
2HP-194	OFD-101A-2.4 J10	A	Ċ	Yes	Check	Self Actuated	ON-HP-15						
					,			PS	Partial-Stroke Exercise Valve	Closed to Open	Q .	Tested once quarterly	None
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	RF	Tested every refueling outage	None
3HP-194	OFD-101A-3.4 J8	A	С	Yes	Check	Self Actuated	ON-HP-15						
								PS	Partial-Stroke Exercise Valve	Closed to Open	Q	Tested once quarterly	None
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	RF	Tested every refueling outage	None
1HP-247	OFD-101A-1.3 K10	В	В	Yes	Globe	Manual	ON-HP-06						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Open to Closed	CS	Tested every cold shutdown	None
2HP-247	OFD-101A-2.3 K10	В	В	Yes	Globe	Manual	ON-HP-06						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Open to Closed	CS	Tested every cold shutdown	None
3HP-247	OFD-101A-3.3 K9	В	В	Yes	Globe	Manual	ON-HP-06	-	-		-		
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Open to Closed	CS	Tested every cold shutdown	None

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Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Type		Test Direction	Test Frequenc	Frequency Description	Relief Request
1HP-248	OFD-101A-1.3 L10	В	С	Yes	Stop Check	Self Actuated	ON-HP-16	SD	Sample Disassembly	Closed to Open	SD	Disassem one vlv per grp ea. RFO	None
2HP-248	OFD-101A-2.3 L10	В	С	Yes	Stop Check	Self Actuated	ON-HP-16	SD	Sample Disassembly	Closed to Open	SD	Disassem one vlv per grp ea. RFO	None
3HP-248	OFD-101A-3.3 H9	В	С	Yes	Stop Check	Self Actuated	ON-HP-16	SD	Sample Disassembly	Closed to Open	SD	Disassem one vlv per grp ea. RFO	None
1HP-249	OFD-101A-1.3 H9	В	В	Yes	Globe	Manual	ON-HP-06	FS	Full-Stroke Exercise Valve to Safety Position(s)	Open to Closed	CS	Tested every cold shutdown	None
2HP-249	OFD-101A-2.3 H9	В	В	Yes	Globe	Manual	ON-HP-06	FS	Full-Stroke Exercise Valve to Safety Position(s)	Open to Closed	CS	Tested every cold shutdown	None
3HP-249	OFD-101A-3.3 H9	В	В	Yes	Globe	Manual	ON-HP-06	FS	Full-Stroke Exercise Valve to Safety Position(s)	Open to Closed	CS	Tested every cold shutdown	None
1HP-250	OFD-101A-1.3 19	В	С	Yes	Stop Check	Self Actuated	ON-HP-16	SD	Sample Disassembly	Closed to Open	SD	Disassem one vlv per grp ea. RFO	None
2HP-250	OFD-101A-2.3 19	В	С	Yes	Stop Check	Self Actuated	ON-HP-16	SD	Sample Disassembly	Closed to Open	SD	Disassem one vlv per grp ea. RFO	None
3HP-250	OFD-101A-3.3 19	В	С	Yes	Stop Check	Self Actuated	ON-HP-16	SD	Sample Disassembly	Closed to Open	SD	Disassem one vlv per grp ea. RFO	None
1HP-251	OFD-101A-1.3 D9	В	В	Yes	Globe	Manual	ON-HP-06	FS	Full-Stroke Exercise Valve to Safety Position(s)	Open to Closed	CS	Tested every cold shutdown	None
2HP-251	OFD-101A-2.3 D9	B	В	Yes	Globe	Manual	ON-HP-06	FS	Full-Stroke Exercise Valve to Safety Position(s)	Open to Closed	CS	Tested every cold shutdown	None
3HP-251	OFD-101A-3.3 D8	В	В	Yes	Globe	Manual	ON-HP-06	FS	Full-Stroke Exercise Valve to Safety Position(s)	Open to Closed	CS	Tested every cold shutdown	None





Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Typ		Test Direction	Test Frequency	Frequency Description	Relief Request
1HP-252	OFD-101A-1.3 E9	В	С	Yes	Stop Check	Self Actuated	ON-HP-16	SD	Sample Disassembly	Closed to Open	SD	Disassem one vlv per grp ea. RFO	None
2HP-252	OFD-101A-2.3 E9	В	С	Yes	Stop Check	Self Actuated	ON-HP-16	SD	Sample Disassembly	Closed to Open	SD	Disassem one viv per grp ea. RFO	None
3HP-252	OFD-101A-3.3 F8	В	С	Yes	Stop Check	Self Actuated	ON-HP-16	SD	Sample Disassembly	Closed to Open	SD	Disassem one vlv per grp ea. RFO	None
3HP-285	OFD-101A-3.4 F11	В	A/C	Yes	Stop Check	Self Actuated	ON-HP-17	LJ FS	Leak-Rate Test Valve to App J Requirement(s) Full-Stroke Exercise Valve to Safety Position(s	Accident Direction Both (Stroke) Test)	RF e RF	Tested every refueling outage Tested every refueling outage	None
2HP-286	OFD-101A-2.4 H10) В	A/C	Yes	Stop Check	Self Actuated	ON-HP-17	LJ FS	Leak-Rate Test Valve to App J Requirement(s) Full-Stroke Exercise Valve to Safety Position(s	Accident Direction Both (Stroke	RF e RF	Tested every refueling outage Tested every refueling outage	None
1HP-302	OFD-101A-1.1 F10	B	C	No	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open		Test relief valve per OM-1 schedule	
2HP-302	OFD-101A-2.1 F8	В	С	No	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open	RV	Test relief valve per OM-1 schedule	
3HP-302	OFD-101A-3.1 F8	В	С	No	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open	RV	Test relief valve per OM-1 schedule	
1HP-304	OFD-101A-1.1 G6	С	С	No	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open	RV	Test relief valve per OM-1 schedule	
1HP-363	OFD-101A-1.2 F7	B,	В	Yes	Globe	Manual	None	FS	Full-Stroke Exercise Valve to Safety Position(s	Closed to	Q	Tested once quarterly	None
2HP-363	OFD-101A-2.2 F7	В	В	Yes	Gate	Manual	None	FS	Full-Stroke Exercise Valve to Safety Position(s	Closed to) Open	Q	Tested once quarterly	None

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Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Typ	••	Test Direction	Test Frequency	Frequency Description	Relief Request
3HP-363	OFD-101A-3.2 F7	В	B	Yes	Gate	Manual	None						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	Q	Tested once quarterly	None
1HP-364	OFD-101A-1.2 F7	В	С	Yes	Check	Self Actuated	ON-HP-09	SD	Sample Disassembly	Closed to Open		Disassem one vlv per grp ea. RFO	None
2HP-364	OFD-101A-2.2 F7	В	С	Yes	Check	Self Actuated	ON-HP-09		· · · · · · · · · · · · · · · · · · ·				
								SD	Sample Disassembly	Closed to Open	SD 1	Disassem one vlv per grp ea. RFO	None
3HP-364	OFD-101A-3.2 F8	В	С	Yes	Check	Self Actuated	ON-HP-09						
							<u>, , ,</u>	SD	Sample Disassembly	Closed to Open	SD 1	Disassem one vlv per grp ea. RFO	None
2HP-389	OFD-101A-2.4 110	В	A/C	Yes	Check	Self Actuated	ON-HP-17						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Strok Test)	e RF	Tested every refueling outage	None
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
1HP-390	OFD-101A-1.4 F10	В	A/C	Yes	Check	Self Actuated	ON-HP-17		<u></u>			<u> </u>	
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Strok Test)		Tested every refueling outage	None
								ដ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
2HP-390	OFD-101A-2.4 G10) B	A/C	Yes	Check	Self Actuated	ON-HP-17						
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Strok Test)	e RF	Tested every refueling outage	None
3HP-390	OFD-101A-3.4 111	В	A/C	Yes	Check	Self Actuated	ON-HP-17						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Strok Test)	e RF	Tested every refueling outage	None
								LJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
1HP-393	OFD-101A-1.4 110	В	A/C	Yes	Check	Self Actuated	ON-HP-17						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Strok Test)	e RF	Tested every refueling outage	None
								រ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None







Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Type		Test Direction	Test Frequenc	Frequency Y Description	Relief Request
	OFD-101A-1.5 F11	В	В	Yes	Gate	Rotork	ON-SSF-03		•				
								ST	Measure Full-Stroke Time of Valve	Closed to Open	CS	Tested every cold shutdown	None
2HP-398-SSF	OFD-101A-2.5 F11	В	В	Yes	Gate	Rotork	ON-SSF-03						
								ST	Measure Full-Stroke Time of Valve	Closed to Open	CS	Tested every cold shutdown	None
3HP-398-SSF	OFD-101A-3.5 F11	В	В	Yes	Gate	Rotork	ON-SSF-03						
								ST	Measure Full-Stroke Time of Valve	Closed to Open	CS	Tested every cold shutdown	None
1HP-399-SSF	OFD-101A-1.5 G13	B	С	Yes	Check	Self Actuated	ON-SSF-02						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	CS	Tested every cold shutdown	None
2HP-399-SSF	OFD-101A-2.5 H13	B	С	Yes	Check	Self Actuated	ON-SSF-02						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	CS	Tested every cold shutdown	None
3HP-399-SSF	OFD-101A-3.5 H13	B	Ċ	Yes	Check	Self Actuated	ON-SSF-02						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	CS	Tested every cold shutdown	None
1HP-400-SSF	OFD-101A-1.5 H13	B	С	Yes	Check	Self Actuated	ON-SSF-02						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	CS	Tested every cold shutdown	None
2HP-400-SSF	OFD-101A-2.5 G13	B B	С	Yes	Check	Self Actuated	ON-SSF-02						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	CS	Tested every cold shutdown	None .
3HP-400-SSF	OFD-101A-3.5 G1	3 B	Ċ	Yes	Check	Self Actuated	ON-SSF-02						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	CS	Tested every cold shutdown	None
1HP-401-SSF	OFD-101A-1.5 F13	В	· C	Yes	Check	Self Actuated	ON-SSF-02						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	CS	Tested every cold shutdown	None
2HP-401-SSF	OFD-101A-2.5 F13	В	С	Yes	Check	Self Actuated	ON-SSF-02				•		
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	CS	Tested every cold shutdown	None
3HP-401-SSF	OFD-101A-3.5 F13	В	С	Yes	Check	Self Actuated	ON-SSF-02						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	CS	Tested every cold shutdown	None

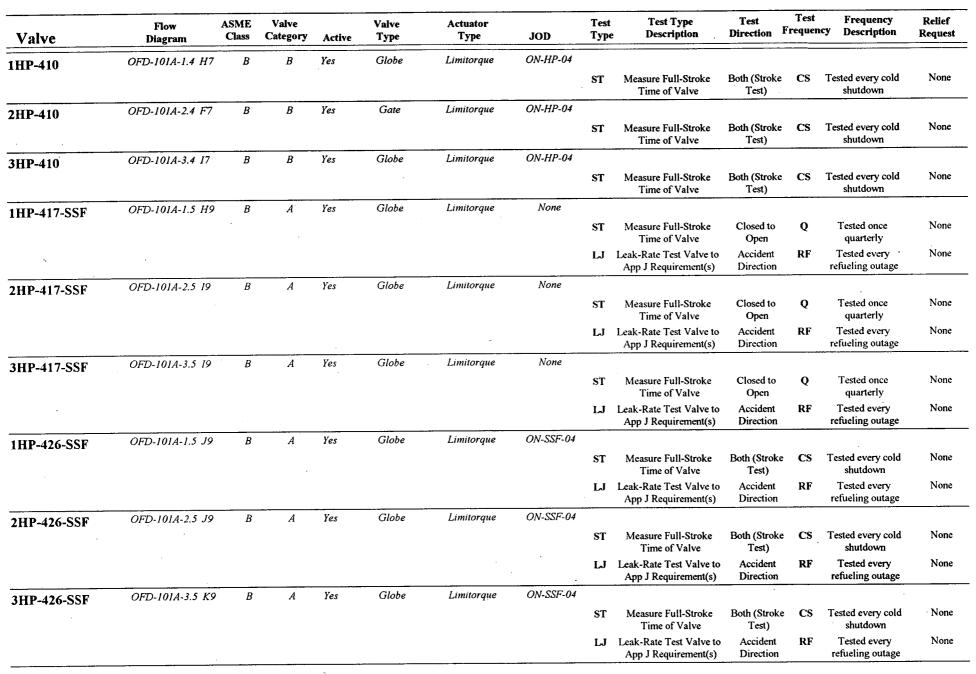




Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOĐ	Test Typ		Test Direction	Test Frequenc	Frequency Y Description	Relief Request
1HP-402-SSF	OFD-101A-1.5 F13	В	С	Yes	Check	Self Actuated	ON-SSF-02			01		T	N
							•	FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	CS	Tested every cold shutdown	None
2HP-402-SSF	OFD-101A-2.5 F13	В	C ·	Yes	Check	Self Actuated	ON-SSF-02						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	CS	Tested every cold shutdown	None
3HP-402-SSF	OFD-101A-3.5 F13	В	С	Yes	Check	Self Actuated	ON-SSF-02						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	CS	Tested every cold shutdown	None
1HP-404	OFD-101A-1.5 G9	В	С	No	Relief	Self Actuated	None		<u>^</u>				
					•			RV	Safety and Relief Valve Test	Closed to Open	RV	Test relief valve per OM-1 schedule	
2HP-404	OFD-101A-2.5 G9	В	С	No	Relief	Self Actuated	None						
								RV	Safety and Relief Valve Test	Closed to Open	RV	Test relief valve per OM-1 schedule	
3HP-404	OFD-101A-3.5 G9	В	С	No	Relief	- Self Actuated	None						
								RV	Safety and Relief Valve Test	Closed to Open	RV	Test relief valve per OM-1 schedule	
1HP-405-SSF	OFD-101A-1.5 H10) B	A	No	Gate	Rotork	None	÷					
								ដ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
2HP-405-SSF	OFD-101A-2.5 H10) B	A	No	Gate	Rotork	None						
								ដ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
3HP-405-SSF	OFD-101A-3.5 H10) B	A	No	Gate	Rotork	None						
								ដ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
1HP-409	OFD-101A-1.4 D7	В	В	Yes	Globe	Limitorque	ON-HP-04						
								ST	Measure Full-Stroke Time of Valve	Both (Strok Test)	e CS	Tested every cold shutdown	None
2HP-409	OFD-101A-2.4 E8	В	В	Yes	Gate	Limitorque	ON-HP-04						
								ST	Measure Full-Stroke Time of Valve	Both (Strok Test)	e CS	Tested every cold shutdown	None
3HP-409	OFD-101A-3.4 E8	В	В	Yes	Globe	Limitorque	ON-HP-04						
							<u> </u>	ST	Measure Full-Stroke Time of Valve	Both (Strok Test)	e CS	Tested every cold shutdown	None









Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Type		Test Direction	Test Frequency	Frequency Description	Relief Request
HP-428-SSF	OFD-101A-1.5 J13	В	A .	Yes	Gate	Rotork	None		-				
111 -420-551								ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
								LJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
2HP-428-SSF	OFD-101A-2.5 J13	В	A	Yes	Gate	Rotork	None						
								ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
BHP-428-SSF	OFD-101A-3.5 J13	В	A	Yes	Gate	Rotork	None						
JIII -420-331								ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
								រ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
	OFD-101A-1.4 G10) B	A/C	Yes	Check	Self Actuated	ON-HP-17						
1117-434								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Strok) Test)		Tested every refueling outage	None
2HP-454	OFD-101A-2.4 G10) B	A/C	Yes	Stop Check	. Self Actuated	ON-HP-17						
287-434					-			FS	Full-Stroke Exercise Valve to Safety Position(s	Both (Strok) Test)	e RF	Tested every refueling outage	None
								LJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
3HP-454	OFD-101A-3.4 H1	I B	A/C	Yes	Check	Self Actuated	ON-HP-17		<u></u>				•
5111 -454								FS	Full-Stroke Exercise Valve to Safety Position(s	Both (Strok) Test)	e RF	Tested every refueling outage	None
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
 1HP-457	OFD-101A-1.4 H1	0 B	A/C	Yes	Check	Self Actuated	ON-HP-17						
1111 -437							·	រ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
								FS	Full-Stroke Exercise Valve to Safety Position(s	Both (Strok) Test)	ke RF	Tested every refueling outage	None
3HP-457	OFD-101A-3.4 G1	1 B	A/C	Yes	Stop Check	Self Actuated	ON-HP-17		· · · · · ·				
JNT-4J/		۔ د		,	-			FS	Full-Stroke Exercise Valve to Safety Position(s	Both (Strok) Test)	(e RF	Tested every refueling outage	None
								រ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction		Tested every refueling outage	None

Oconee Nuclear Station - IST Submittal for Valves

HPI - High Pressure Injection System : Page 20

Interval 3, Submittal Revision 24

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	Flow	ASME	Valve		Valve	Actuator		Test	Test Type	Test	Test	Frequency	Relief
Valve	Diagram	Class	Category	Active	Туре	Туре	JOD	Туре	Description	Direction	Frequency	Description	Request







Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Type	• -	Test Direction	Test Frequency	Frequency Description	Relief Request
IA - Insti	rument Air Sy	stem											
	OFD-137B-1.2 D4	В	A	No	Ball	Manual	None					·	
								LJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
2IA-090	OFD-137B-1.2 D7	В	A	No	Ball	Manual	None		· · · · · · · · · · · · · · · · · · ·				
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
3LA-090	OFD-137B-1.2 D1	1 B	A	No	Ball	Manual	None						
								LJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every efueling outage	None
1IA-091	OFD-137B-1.2 C4	В	A	No	Ball	Manual	None						
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
2IA-091	OFD-137B-1.2 C7	В	A	No	Ball	Manual	None						
								ដ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every efueling outage	None
3IA-091	OFD-137B-1.2 C1	1 B	A	No	Ball	Manual	None						
								កា	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every efueling outage	None







Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Type	Test Type Description	Test Direction	Test Frequency	Frequency Description	Relief Request
LPI - Loi	v Pressure Inj	iectio	on Syst	em									
1LP-001	OFD-102A-1.1 H2	A	В	Yes	Gate	Limitorque	ON-LP-01	ST	Measure Full-Stroke Time of Valve	Closed to Open	CS 7	fested every cold shutdown	None
2LP-001	OFD-102A-2.1 H2	A	В	Yes	Gate	Limitorque	ON-LP-01			•			
, ,								ST	Measure Full-Stroke Time of Valve	Closed to Open	CS 7	Fested every cold shutdown	None
3LP-001	OFD-102A-3.1 H2	A	В	Yes	Gate	Rotork	ON-LP-01						
								ST	Measure Full-Stroke Time of Valve	Closed to Open	CS T	Fested every cold shutdown	None
1LP-002	OFD-102A-1.1 H2	A	В	Yes	Gate	Limitorque	ON-LP-01						
								ST	Measure Full-Stroke Time of Valve	Closed to Open	CS 7	Fested every cold shutdown	None
2LP-002	OFD-102A-2.1 H2	A	В	Yes	Gate	Limitorque	ON-LP-01						
								ST	Measure Full-Stroke Time of Valve	Closed to Open	CS [·]	Fested every cold shutdown	None
3LP-002	OFD-102A-3.1 H2	A	В	Yes	Gate	Rotork	ON-LP-01						
								ST	Measure Full-Stroke Time of Valve	Closed to Open	CS [·]	Fested every cold shutdown	None
2LP-003	OFD-102A-2.1 H6	В	В	Yes	Gate	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
3LP-003	OFD-102A-3.1 H6	В	В	Yes	Gate	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
1LP-009	OFD-102A-1.2 17	В	В	Yes	Gate	Limitorque	None		•				•
								ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
2LP-009	OFD-102A-2.2 18	В	В	Yes	Gate	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
3LP-009	OFD-102A-3.2 17	В	В	Yes	Gate	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None



Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Type	Test Type Description	Test Direction	Test Frequency	Frequency Description	Relief Request
1LP-010	OFD-102A-1.2 G7	В	В	Yes	Gate	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
2LP-010	OFD-102A-2.2 H8	В	В	Yes	Gate	Limitorque	None	ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
3LP-010	OFD-102A-3.2 G7	В	В	Yes	Gate	Limitorque	None			Open		quarterry	
3LF-010		-						ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
1LP-012	OFD-102A-1.2 K11	В	В	Yes	Globe	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Both (Stroke Test)	e Q	Tested once quarterly	None
2LP-012	OFD-102A-2.2 K11	B	В	Yes	Globe	Limitorque	None						
				•				ST	Measure Full-Stroke Time of Valve	Both (Stroko Test)	e Q	Tested once quarterly	None
3LP-012	OFD-102A-3.2 K11	В	В	Yes	Globe	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Both (Stroke Test)	e Q	Tested once quarterly	None
1LP-014	OFD-102A-1.2 E11	В	В	Yes	Globe	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Both (Stroke Test)	e Q	Tested once quarterly	None
2LP-014	OFD-102A-2.2 E11	В	. В	Yes	Globe	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Both (Stroke Test)	e Q	Tested once quarterly	None
3LP-014	OFD-102A-3.2 E11	В	В	Yes	Globe	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Both (Stroke Test)	e Q	Tested once quarterly	None
1LP-015	OFD-102A-1.2 L11	• <i>B</i>	В	Yes	Gate	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
2LP-015	OFD-102A-2.2 L11	В	В	Yes	Gate	Limitorque	None				•		
								ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
3LP-015	OFD-102A-3.2 K12	? В	В	Yes	Gate	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None







Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Type	Test Type Description	Test Direction	Test Frequency	Frequency Description	Relief Request
1LP-016	OFD-102A-1.2 D11	В	В	Yes	Gate	Limitorque	None	CT.	Measure Full-Stroke	Closed to	0	Tested once	None
								ST	Time of Valve	Open	<u>v</u>	quarterly	NONC
2LP-016	OFD-102A-2.2 D11	В	В	Yes	Gate	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
3LP-016	OFD-102A-3.2 E12	В	В	Yes	Gate	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
1LP-017	OFD-102A-1.2 K13	В	В	Yes	Gate	Limitorque	ON-LP-07	-					
								ST	Measure Full-Stroke Time of Valve	Both (Strok Test)	e CS T	ested every cold shutdown	None
2LP-017	OFD-102A-2.2 K12	В	В	Yes	Gate	Limitorque	ON-LP-07						
								ST	Measure Full-Stroke Time of Valve	Both (Strok Test)	e CS 7	ested every cold shutdown	None
3LP-017	OFD-102A-3.2 K13	В	В	Yes	Gate	Limitorque	ON-LP-07						
								ST	Measure Full-Stroke Time of Valve	Both (Strok Test)	e CS 1	Tested every cold shutdown	None
1LP-018	OFD-102A-1.2 E13	В	В	Yes	Gate	Limitorque	ON-LP-07						
		`						ST	Measure Full-Stroke Time of Valve	Both (Strok Test)	e CS T	Fested every cold shutdown	None
2LP-018	OFD-102A-2.2 E13	B	В	Yes	Gate	Limitorque	ON-LP-07						
								ST	Measure Full-Stroke Time of Valve	Both (Strok Test)	e CS	fested every cold shutdown	None
3LP-018	OFD-102A-3.2 E13	B	В	Yes	Gate	Limitorque	ON-LP-07						
								ST	Measure Full-Stroke Time of Valve	Both (Strok Test)	e CS [^]	Fested every cold shutdown	None
1LP-019	OFD-102A-1.1 D5	В	B	Yes	Gate	Limitorque	None				_		
								ST	Measure Full-Stroke Time of Valve	Both (Strok Test)	e Q	Tested once quarterly	None
2LP-019	OFD-102A-2.1 D5	В	В	Yes	Gate	Limitorque	None						
			·					ST	Measure Full-Stroke Time of Valve	Both (Strok Test)	e Q	Tested once quarterly	None
3LP-019	OFD-102A-3.1 D5	В	В	Yes	Gate	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Both (Strok Test)	ie Q	Tested once quarterly	None



Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Type		Test Direction	Test Frequency	Frequency Description	Relief Request
1LP-020	OFD-102A-1.1 D5	В	В	Yes	Gate	Limitorque	None		······				
111-020								ST	Measure Full-Stroke Time of Valve	Both (Stroke Test)	e Q	Tested once quarterly	None
2LP-020	OFD-102A-2.1 D5	В	В	Yes	Gate	Limitorque	None						
					- ·			ST	Measure Full-Stroke Time of Valve	Both (Stroke Test)	e Q	Tested once quarterly	None
3LP-020	OFD-102A-3.1 D5	В	В	Yes	Gate	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Both (Stroke Test)	e Q	Tested once quarterly	None
1LP-021	OFD-102A-1.1 F7	В	В	Yes	Gate	Limitorque	None			•			
·								ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
2LP-021	OFD-102A-2.1 E7	В	В	Yes	Gate	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
3LP-021	OFD-102A-3.1 E7	В	В	Yes	Gate	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
1LP-022	OFD-102A-1.1 D7	В	В	Yes	Gate	Limitorque	None						
· · · · ·								ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
2LP-022	OFD-102A-2.1 D7	В	В	Yes	Gate	Limitorque	None		· ·				
							·	ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
3LP-022	OFD-102A-3.1 D7	В	В	Yes	Gate	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
1LP-028	OFD-102A-1.1 H1	0 B	В	Yes	Gate	Manual	ON-LP-05						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Open to Closed	CS	Tested every cold shutdown	None
2LP-028	OFD-102A-2.1 H1	0 B	В	Yes	Gate	Manual	ON-LP-05					1	
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Open to Closed	CS '	Tested every cold shutdown	None
3LP-028	OFD-102A-3.1 H1	0 B	В	Yes	Gate	Manual	ON-LP-05						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Open to Closed	CS	Tested every cold shutdown	None

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Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Typ		Test Direction	Test Frequency	Frequency Description	Relief Request
1LP-029	OFD-102A-1.1 F6	В	A/C	Yes	Check	Self Actuated	None						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Stroke Test)	e Q	Tested once quarterly	None
ς.								LT	Leak-Rate Test Valve to Section XI Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
2LP-029	OFD-102A-2.1 F6	В	A/C	Yes	Check	Self Actuated	None						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Stroke Test)	e Q	Tested once quarterly	None
3								LT	Leak-Rate Test Valve to Section XI Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
3LP-029	OFD-102A-3.1 E7	В	A/C	Yes	Check	Self Actuated	None					•	
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Stroke Test)	e Q	Tested once quarterly	None
								LT	Leak-Rate Test Valve to Section XI Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
1LP-030	OFD-102A-1.1 D6	В	A/C	Yes	Check	Self Actuated	None						
							×	FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Stroke Test)	e Q	Tested once quarterly	None
	ι,							LT	Leak-Rate Test Valve to Section XI Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
2LP-030	OFD-102A-2.1 D6	В	A/C	Yes	Check	Self Actuated	None						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Stroke Test)	e Q	Tested once quarterly	None
								LT	Leak-Rate Test Valve to Section XI Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
3LP-030	OFD-102A-3.1 C6	В	A/C	Yes	Check	Self Actuated	None						
·								FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Strok Test)	e Q	Tested once quarterly	None
								LT	Leak-Rate Test Valve to Section XI Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
1LP-031	OFD-102A-1.2 K5	В	С	Yes	Check	Self Actuated	ON-LP-04						
								PS	Partial-Stroke Exercise Valve	Closed to Open	Q	Tested once quarterly	None
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Strok Test)	e CS	Fested every cold shutdown	None
2LP-031	OFD-102A-2.2 K5	В	C	Yes	Check	Self Actuated	ON-LP-04					-	
and ver								PS	Partial-Stroke Exercise Valve	Closed to Open	Q	Tested once quarterly	None
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Strok Test)	e CS '	Tested every cold shutdown	None

Oconee Nuclear Station - IST Submittal for Valves Interval 3, Submittal Revision 24

LPI - Low Pressure Injection System : Page 5







Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Typ		Test Direction	Test Frequency	Frequency Description	Relief Request
3LP-031	OFD-102A-3.2 K5	В	С	Yes	Check	Self Actuated	ON-LP-04						
								PS	Partial-Stroke Exercise Valve	Closed to Open	Q	Tested once quarterly	None
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Stroke Test)	e CS	Fested every cold shutdown	None
1LP-033	OFD-102A-1.2 E6	В	С	Yes	Check	Self Actuated	None						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Strok Test)	e Q	Tested once quarterly	None
2LP-033	OFD-102A-2.2 E5	В	С	Yes	Check	Self Actuated	None						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Strok Test)	e Q	Tested once quarterly	None
3LP-033	OFD-102A-3.2 E5	В	С	Yes	Check	Self Actuated	None						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Strok Test)	e Q	Tested once quarterly	None
1LP-047	OFD-102A-1.2 E14	A	A/C	Yes	Check	Self Actuated	ON-LP-02						
C								LT	Leak-Rate Test Valve to Section XI Requirement(s)	Accident Direction	CS .	Fested every cold shutdown	None
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Strok) Test)	e CS .	Tested every cold shutdown	None
2LP-047	OFD-102A-2.2 E14	A	A/C	Yes	Check	Self Actuated	ON-LP-02						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Strok) Test)	e CS '	Tested every cold shutdown	None
3LP-047	OFD-102A-3.2 E14	I A	A/C	Yes	Check	Self Actuated	ON-LP-02						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Strok) Test)	e CS ´	Tested every cold shutdown	None
1LP-048	OFD-102A-1.2 K14	4 A	A/C	Yes	Check	Self Actuated	ON-LP-02						
								FS	Full-Stroke Exercise Valve to Safety Position(s	Both (Strok) Test)	e CS	Tested every cold shutdown	None
								LT	Leak-Rate Test Valve to Section XI Requirement(s)	Accident Direction	CS	Tested every cold shutdown	None
2LP-048	OFD-102A-2.2 K1-	4 A	A/C	Yes	Check	Self Actuated	ON-LP-02						
,								FS	Full-Stroke Exercise Valve to Safety Position(s	Both (Strok) Test)	e CS	Tested every cold shutdown	None
		`						LT	Leak-Rate Test Valve to Section XI Requirement(s	Accident) Direction	CS	Tested every cold shutdown	None
3LP-048	OFD-102A-3.2 KI	4 A	A/C	Yes	Check	Self Actuated	ON-LP-02				<u>-</u>		
			•					FS	Full-Stroke Exercise Valve to Safety Position(s	Both (Strok) Test)	e CS	Tested every cold shutdown	None





Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Typ		Test Direction	Test Frequenc	Frequency By Description	Relief Request
1LP-055	OFD-101A-1.3 K3	В	С	Yes	Check	Self Actuated	ON-LP-06		· · ·				
								PS	Partial-Stroke Exercise Valve	Closed to Open	CS	Tested every cold shutdown	None
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	RF	Tested every refueling outage	None
2LP-055	OFD-101A-2.3 K3	В	С	Yes	Check	Self Actuated	ON-LP-06						
								PS	Partial-Stroke Exercise Valve	Closed to Open	CS	Tested every cold shutdown	None
		,						FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	RF	Tested every refueling outage	None
3LP-055	OFD-101A-3.3 K3	В	С	Yes	Check	Self Actuated	ON-LP-06						-
								PS	Partial-Stroke Exercise Valve	Closed to Open	CS	Tested every cold shutdown	None
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	RF	Tested every refueling outage	None
1LP-057	OFD-101A-1.3 C3	В	С	Yes	Check	Self Actuated	ON-LP-06						
								PS	Partial-Stroke Exercise Valve	Closed to Open	CS	Tested every cold shutdown	None
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	RF	Tested every refueling outage	None
2LP-057	OFD-101A-2.3 C3	В	С	Yes	Check	Self Actuated	ON-LP-06						
•								PS	Partial-Stroke Exercise Valve	Closed to Open	CS	Tested every cold shutdown	None
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	RF	Tested every refueling outage	None
3LP-057	OFD-101A-3.3 D2	В	С	Yes	Check	Self Actuated	ON-LP-06						•
	. *							PS	Partial-Stroke Exercise Valve	Closed to Open	CS	Tested every cold shutdown	None
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	RF	Tested every refueling outage	None
1LP-060	OFD-102A-1.1 J9	С	С	No	Relief	Self Actuated	None						
								RV	Safety and Relief Valve Test	Closed to Open	RV	Test relief valve per OM-1 schedule	
2LP-060	OFD-102A-2.1 J9	С	C _	No	Relief	Self Actuated	None						
				·				RV	Safety and Relief Valve Test	Closed to Open	RV	Test relief valve per OM-1 schedule	
3LP-060	OFD-102A-3.1 J9	С	С	No	Relief	Self Actuated	None						
								RV	Safety and Relief Valve Test	Closed to Open		Test relief valve per OM-1 schedule	

LPI - Low Pressure Injection System : Page 7







Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve e Type	Actuator Type	JOD	Test Type		Test Direction	Test Frequen	Frequency Sy Description	Relief Request
1LP-061	OFD-102A-1.1 J10	С	С	Yes	Vacuum Breaker	Self Actuated	None						
								RV	Safety and Relief Valve Test	Closed to Open	RV	Test relief valve per OM-1 schedule	
2LP-061	OFD-102A-2.1 J10	С	С	Yes	Vacuum Breaker	Self Actuated	None	,	<u></u>				
								RV	Safety and Relief Valve Test	Closed to Open	RV	Test relief valve per OM-1 schedule	
3LP-061	OFD-102A-3.1 J10	С	С	Yes	Vacuum Breaker	Self Actuated	None						
		٠						RV	Safety and Relief Valve Test	Closed to Open	RV	Test relief valve per OM-1 schedule	
1LP-103	OFD-102A-1.1 H2	А	В	Yes	. Gate	Rotork	ON-LP-03						
								ST	Measure Full-Stroke Time of Valve	Closed to Open	CS	Tested every cold shutdown	None
2LP-103	OFD-102A-2.1 H2	A	В	Yes	Gate	Rotork	ON-LP-03						
								ST	Measure Full-Stroke Time of Valve	Closed to Open	CS	Tested every cold shutdown	None
3LP-103	OFD-102A-3.1 G2	A	В	Yes	Gate	Rotork	ON-LP-03						
								ST	Measure Full-Stroke Time of Valve	Closed to Open	CS	Tested every cold shutdown	None
1LP-104	OFD-102A-1.1 F2	А	В	Yes	Gate	Rotork	ON-LP-03						
								ST	Measure Full-Stroke Time of Valve	Closed to Open	CS	Tested every cold shutdown	None
2LP-104	OFD-102A-2.1 F2	A	В	Yes	Gate	Rotork	ON-LP-03						
								ST	Measure Full-Stroke Time of Valve	Closed to Open	CS	Tested every cold shutdown	None
3LP-104	OFD-102A-3.1 G2	А	В	Yes	Gate	• Rotork	ON-LP-03		- 1				
								ST	Measure Full-Stroke Time of Valve	Closed to Open	CS	Tested every cold shutdown	None
1LP-105	OFD-102A-1.1 H2	В	В	Yes	Gate	Rotork	ON-LP-08						
							•	ST	Measure Full-Stroke Time of Valve	Closed to Open	CS	Tested every cold shutdown	None







Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Type	Test Type Description	Test Direction	Test Frequency	Frequency Description	Relief Request
LPSW - La	ow Pressure	Serv	ice Wa	ter Sy	vstem								
1LPSW-004	OFD-124B-1.1 K6	Ċ	В	Yes	Gate	Limitorque	None	ST	Measure Full-Stroke Time of Valve	Both (Strok Test)	e Q	Tested once quarterly	None
2LPSW-004	OFD-124B-2.1 K6	С	B	Yes	Gate	Limitorque	None	ST	Measure Full-Stroke Time of Valve	Both (Strok Test)	e Q	Tested once quarterly	None
3LPSW-004	OFD-124B-3.1 K6	С	В	Yes	Gate	Limitorque	None	ST	Measure Full-Stroke Time of Valve	Both (Strok Test)	e Q	Tested once quarterly	None
1LPSW-005	OFD-124B-1.1 H6	C	В	Yes	Gate	Limitorque	None	ST	Measure Full-Stroke Time of Valve	Both (Strok Test)	e Q	Tested once quarterly	None
2LPSW-005	OFD-124B-2.1 H6	С	В	Yes	Gate	Limitorque	None	ST	Measure Full-Stroke Time of Valve	Both (Strok Test)	ie Q	Tested once quarterly	None
3LPSW-005	OFD-124B-3.1 H6	С	В	Yes	Gate	Limitorque	None	st	Measure Full-Stroke Time of Valve	Both (Strok Test)	ke Q	Tested once quarterly	None
1LPSW-006	OFD-124B-1.4 L2	В	В	Yes	Gate	Limitorque	ON-LPSW-01	ST	Measure Full-Stroke Time of Valve	Open to Closed	CS ·	Fested every cold shutdown	None
2LPSW-006	OFD-124B-2.4 L2	В	В	Yes	Gate	Limitorque	ON-LPSW-01	ST	Measure Full-Stroke Time of Valve	Open to Closed	CS	Tested every cold shutdown	None
3LPSW-006	OFD-124B-3.4 L2	В	В	Yes	Gate	Limitorque	ON-LPSW-01	ST	Measure Full-Stroke Time of Valve	Open to Closed	CS	Tested every cold shutdown	None
1LPSW-015	OFD-124B-1.4 G1	4 B	A	Yes	Butterfly	Limitorque	ON-LPSW-01	ST	Measure Full-Stroke Time of Valve	Open to Closed		Tested every cold shutdown	None
						<u></u>		LJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Directior		Tested every refueling outage	None





Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Type		Test Direction	Test Frequenc	Frequency Y Description	Relief Request
2LPSW-015	OFD-124B-2.4 G14	В	A	Yes	Butterfly	Limitorque	ON-LPSW-01						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	CS	Tested every cold shutdown	None
						·		IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
3LPSW-015	OFD-124B-3.4 G14	В	A	Yes	Butterfly	Limitorque	ON-LPSW-01					•	
				•				ST	Measure Full-Stroke Time of Valve	Open to Closed	CS	Tested every cold shutdown	None
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
1LPSW-018	OFD-124B-1.2 D3	В	В	Yes	Butterfly	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
2LPSW-018	OFD-124B-2.2 D3	В	· B	Yes	Butterfly	Limitorque	None					-	
· .	•						· .	ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
3LPSW-018	· OFD-124B-3.2 C3	В	В	Yes	Butterfly	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
1LPSW-021	OFD-124B-1.2 D8	В	В	Yes	Butterfly	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
2LPSW-021	OFD-124B-2.2 D8	В	В	Yes	Butterfly	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
3LPSW-021	OFD-124B-3.2 C8	В	В	Yes	Butterfly	Limitorque	None						
								sŤ	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
1LPSW-024	OFD-124B-1.2 D12	2 B	В	Yes	Butterfly	Limitorque	None			•			
								ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
2LPSW-024	OFD-124B-2.2 D1	2 B	В	Yes	Butterfly	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
3LPSW-024	OFD-124B-3.2 C12	2 B	В	Yes	Butterfly	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None

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Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Type		Test Direction	Test Frequency	Frequency Description	Relief Request
LPSW-025	OFD-124A-1.1 D7	С	С	Yes	Check	Self Actuated	None	FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Stroko Test)	e Q	Tested once quarterly	None
LPSW-028	OFD-124A-1.1 J7	C	С	Yes	Check	Self Actuated	None	FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Stroko Test)	e Q	Tested once quarterly	None
LPSW-031	OFD-124A-1.1 G7	· C	С	Yes	Check	Self Actuated	None	FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Stroke Test)	e Q	Tested once quarterly	None
3LPSW-045	OFD-124A-3.1 E10	C	В	Yes	Butterfly	Rotork	ON-LPSW-02	ST	Measure Full-Stroke Time of Valve	Open to Closed	CS 1	ested every cold shutdown	None
1LPSW-075	OFD-124B-1.1 K6	С	С	Yes	Check	Self Actuated	None	FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	Q	Tested once quarterly	None
2LPSW-075	OFD-124B-2.1 K7	С	С	Yes	Check	Self Actuated	None	FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	Q	Tested once quarterly	None
3LPSW-075	OFD-124B-3.1 K6	С	С	Yes	Check	Self Actuated	None	FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	Q	Tested once quarterly	None
1LPSW-076	OFD-124B-1.1 H6	C	С	Yes	Check	Self Actuated	None	FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	Q	Tested once quarterly	None
2LPSW-076	OFD-124B-2.1 H7	С	С	Yes	Check	Self Actuated	None	FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to) Open	Q	Tested once quarterly	None
3LPSW-076	OFD-124B-3.1 H6	С	С	Yes	Check	Self Actuated	None	FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to) Open	Q	Tested once quarterly	None
3LPSW-121	OFD-124A-3.1 J7	С	C	Yes	Check	Self Actuated	None	FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Strok) Test)	e Q	Tested once quarterly	None
3LPSW-124	OFD-124A-3.1 G7	С	C	Yes	Check	Self Actuated	None	FS	Full-Stroke Exercise Valve to Safety Position(s	Both (Strok) Test)	ie Q	Tested once quarterly	None





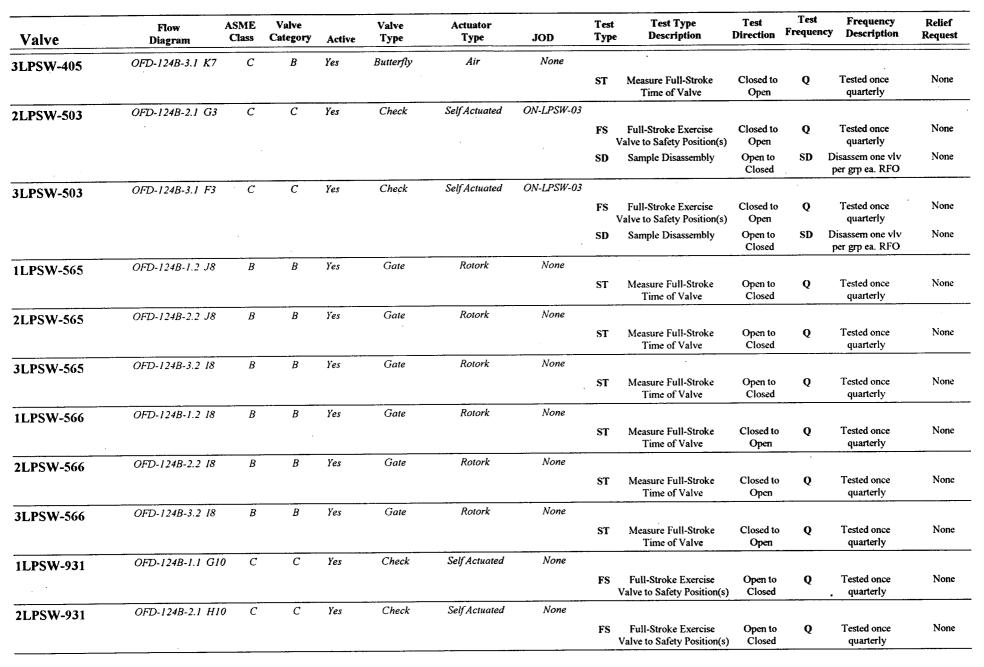




Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Type		Test Direction	Test Frequency	Frequency Description	Relief Request
LPSW-139	OFD-124A-1.1 C8	С	В	Yes	Butterfly	Rotork	None						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
1LPSW-148	OFD-124B-1.1 L4	С	С	Yes	Check	Self Actuated	ON-LPSW-03						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	Q	Tested once quarterly	None
					,			SD	Sample Disassembly	Open to Closed		Disassem one vlv per grp ea. RFO	None
2LPSW-148	OFD-124B-2.1 L7	С	С	Yes	Check	Self Actuated	None						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Stroke Test)	e Q	Tested once quarterly	None
3LPSW-148	OFD-124B-3.1 L4	С	С	Yes	Check	Self Actuated	ON-LPSW-03						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	Q	Tested once quarterly	None
	• •							SD	Sample Disassembly	Open to Closed		Disassem one vlv per grp ea. RFO	None
1LPSW-151	OFD-124B-1.1 F3	С	С	Yes	Check	Self Actuated	ON-LPSW-03						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	Q	Tested once quarterly	None
								SD	Sample Disassembly	Open to Closed		Disassem one vlv per grp ea. RFO	None
1LPSW-251	OFD-124B-1.1 J8	С	В	Yes	Butterfly	Air	None						
								ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
2LPSW-251	OFD-124B-2.1 J8	С	В	Yes	Butterfly	Air	None						
								ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
1LPSW-252	OFD-124B-1.1 18	C	В	Yes	Butterfly	Air	None						
6								ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
2LPSW-252	OFD-124B-2.1 18	С	В	Yes	Butterfly	Air	None						
					e			ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
3LPSW-404	OFD-124B-3.1 H7	С	В	Yes	Butterfly	Air	None						
•								ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None











Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Type	Test Type Description	Test Direction	Test Frequency	Frequency Description	Relief Reques
LPSW-931	OFD-124B-3.1 KI	LI C	С	Yes	Check	Self Actuated	None						
								FS V	Full-Stroke Exercise alve to Safety Position(s)	Open to Closed	Q	Tested once quarterly	None
						· · · ·							
										·			
	-												
												-	
				÷									
Oconee Nuclear Station	- IST Submittal for V Pevision 24	'alves							LPSW-	Low Pres	sure Servi	ce Water Syst	tem : Pa







Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Type		Test Direction	Test Frequency	Frequency Description	Relief Reques
LRT - Lea	nk Rate Test S	Syste	m										
1LRT-017	OFD-137E-1.1 K10) B	A	No	Diaphragm	Air	None	IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
2LRT-017	OFD-137E-1.1 H10	0 B	A	No	Diaphragm	Air	· None	IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every efueling outage	Non
3LRT-017	OFD-137E-1.1 E9	В	A	No	Diaphragm	Air	None	LJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	Non
1LRT-024	OFD-137E-1.1 112	В	A	No	Globe	Manual	None	LJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	Non
2LRT-024	OFD-137E-1.1 G1	I B	A	No	Diaphragm	Manual	None	LJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	Non
3LRT-024	OFD-137E-1.1 C1.	1 B	A	No	Globe	Manual	None	ГЛ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	Nor
1LRT-025	OFD-137E-1.1 112	? В	A	No	Globe	Manual	None	រ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	Nor
2LRT-025	OFD-137E-1.1 G1	1 B	A	No	Globe	Manual	None	LJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	Nor
3LRT-025	OFD-137E-1.1 CI	1 B	A	No	Globe	Manual	None	IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	Nor
2LRT-036	OFD-137E-1.1 F1	1 B	A	No	Globe	Manual	None	IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	Nor
3LRT-036	OFD-137E-1.1 C1	1 B	A	No	Globe	Manual	None	IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident	RF	Tested every refueling outage	Nor







Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Type		Test Direction	Test Frequency	Frequency Description	Relief Request
2LRT-037	OFD-137E-1.1 F11	В	A	No	Globe	Manual	None		•				
26.R1-037								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
3LRT-037	OFD-137E-1.1 C11	В	A	No	Globe	Manual	None						
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
1LRT-038	OFD-137E-1.1 J12	В	A	No	Globe	Manual	None						
								រ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
2LRT-038	OFD-137E-1.1 H11	В	A	No	Globe	Manual	None						
								រ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
3LRT-038	OFD-137E-1.1 D1	B	A	No	Globe	Manual	None						
	,							IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
1LRT-039	OFD-137E-1.1 J13	В	A	No	Globe	Manual	None						
								LJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
21 RT-039	OFD-137E-1.1 H1	2. B	A	No	Globe	Manual	None					•	
LRT-039								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
3LRT-039	OFD-137E-1.1 D1	I B	A	No	Globe	Manual	None						
3LK1-037								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None



Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Type		Test Direction	Test Frequency	Frequency Description	Relief Request
LWD - Liq	uid Waste D	ispo:	sal Sys	tem									
1LWD-001	OFD-107B-1.1 C11	В	A	Yes	Diaphragm	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
						·		IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
2LWD-001	OFD-107B-2.1 C11	В	A	Yes	Diaphragm	Limitorque	None		· · · · · · · · · · · · · · · · · · ·			-	
2LW D-001								ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
		•						IJ	Leak-Rate Test Valve to App J Requirement(s)	Reverse Direction	RF	Tested every refueling outage	None
3LWD-001	OFD-107B-3.1 C11	В	A	Yes	Diaphragm	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
								ដ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
1LWD-002	OFD-107B-1:1 C11	B	A	Yes	Diaphragm	Air	None						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
2LWD-002	OFD-107B-2.1 C12	? · B	A	Yes	Diaphragm	Air	· None						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
						×		IJ	Leak-Rate Test Valve to App J Requirement(s)	Reverse Direction	RF	Tested every refueling outage	None
3LWD-002	OFD-107B-3.1 C12	2 B	A	Yes	Diaphragm	Air	None						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once •quarterly	None
								LJ	Leak-Rate Test Valve to App J Requirement(s)	Reverse Direction	RF	Tested every refueling outage	None
1LWD-099	OFD-107D-1.2 E9	В	A	No	Gate	Manual	None						
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction		ested every ILRT outage	None
2LWD-099	. OFD-107D-2.2 G8	В	A	No	Gate	Manual	None						
								រ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction		ested every ILRT outage	None







Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Type		Test Direction	Test Frequency	Frequency Description	Relief Request
3LWD-099	OFD-107D-3.2 G3	В	A	No	Gate	Manual	None						
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction		sted every ILRT outage	None
1LWD-103	OFD-107D-1.2 E9	В	A	No	Gate	Manual	None						
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction		sted every ILRT outage	None
2LWD-103	OFD-107D-2.2 G8	В	A	No	Gate	Manual	None		· · · · · · · · · · · · · · · · · · ·				
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction		sted every ILRT outage	None
3LWD-103	OFD-107D-3.2 G3	В	A	No	Gate	Manual	None				``		
LWD-103						·		IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction		sted every ILRT outage	None







Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Type		Test Direction	Test Frequency	Frequency Description	Relief Request
MS - Mai	n Steam Syst	em											
1MS-001	OFD-122A-1.1 J9	В	С	Yes	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open		Test relief valve er OM-1 schedule	
2MS-001	OFD-122A-2.1 J9	В	С	Yes	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open		Test relief valve er OM-1 schedul	
3MS-001	OFD-122A-3.1 J9	В	С	Yes	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open		Test relief valve er OM-1 schedul	
1MS-002	OFD-122A-1.1 J4	В	С	Yes	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open		Test relief valve er OM-1 schedul	
2MS-002	OFD-122A-2.1 J4	В	С	Yes	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open		Test relief valve er OM-1 schedul	
3MS-002	OFD-122A-3.1 J4	В	С	Yes	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open		Test relief valve ber OM-1 schedul	
1MS-003	OFD-122A-1.1 J7	B	С	Yes	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open		Test relief valve per OM-1 schedul	
2MS-003	OFD-122A-2.1 J7	В	С	Yes	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open		Test relief valve per OM-1 schedul	
3MS-003	OFD-1224-3.1 J7	В	С	Yes	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open		Test relief valve ber OM-1 schedul	
1MS-004	OFD-122A-1.1 J5	В	С	Yes	Relief	Self Actuated	None	RV		Closed to Open	RV	Test relief valve per OM-1 schedu	GNR-VLV-01
2MS-004	OFD-122A-2.1 J5	В	С	Yes	Relief	Self Actuated	None	RV		Closed to Open	o RV	Test relief valve per OM-1 schedu	GNR-VLV-01







Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Type	Test Type Description	Test Direction	Test Frequenc	Frequency Description	Relief Request
3MS-004	OFD-122A-3.1 J5	В	С	Yes	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open	RV	Test relief valve per OM-1 schedule	
1MS-005	OFD-122A-1.1 J8	В	С	Yes	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open	RV	Test relief valve per OM-1 schedule	
2MS-005	OFD-1224-2.1 J8	В	С	Yes	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open	RV	Test relief valve per OM-1 schedule	
3MS-005	OFD-122A-3.1 J8	В	С	Yes	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open	RV	Test relief valve per OM-1 schedule	
1MS-006	OFD-122A-1.1 J5	<i>B</i>	С	Yes	Relief	Self Actuated	None	· RV	Safety and Relief Valve Test	Closed to Open	RV	Test relief valve per OM-1 schedule	
2MS-006	OFD-122A-2.1 J5	В	С	Yes	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open	RV	Test relief valve per OM-1 schedule	
3MS-006	OFD-122A-3.1 J5	В	С	Yes	Relief ·	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open	RV	Test relief valve per OM-1 schedule	
1MS-007	OFD-122A-1.1 J7	В	С	Yes	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open	RV	Test relief valve per OM-1 schedule	GNR-VLV-010
2MS-007	OFD-122A-2.1 J7	В	С	Yes	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open	RV	Test relief valve per OM-1 schedule	
3MS-007	OFD-122A-3.1 J7	В	С	Yes	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open	RV	Test relief valve per OM-1 schedule	
1MS-008	OFD-122A-1.1 J6	В	С	Yes	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open	RV	Test relief valve per OM-1 schedule	
2MS-008	OFD-122A-2.1 J6	В	С	Yes	Relief	Self Actuated	None	RV	Safety and Relief Value Test	Closed to Open	RV	Test relief valve per OM-1 schedule	







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Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Type		Test Direction	Test Frequenc	Frequency y Description	Relief Request
3MS-008	OFD-122A-3.1 J6	В	С	Yes	Relief	Self Actuated	None		· · · · · · · · · · · · · · · · · · ·				·······
51415-000								RV	Safety and Relief Valve Test	Closed to Open	RV	Test relief valve per OM-1 schedule	
1MS-009	OFD-122A-1.1 D9	В	С	Yes	Relief	Self Actuated	None						
								RV	Safety and Relief Valve Test	Closed to Open	RV	Test relief valve per OM-1 schedule	
2MS-009	OFD-122A-2.1 D9	В	С	Yes	Relief	Self Actuated	None						
								RV	Safety and Relief Valve Test	Closed to Open	RV	Test relief valve per OM-1 schedule	
3MS-009	OFD-122A-3.1 D9	В	С	Yes	Relief	Self Actuated	None						
								RV	Safety and Relief Valve Test	Closed to Open	RV	Test relief valve per OM-1 schedule	
1MS-010	OFD-122A-1.1 D4	В	C_	Yes	Relief	Self Actuated	None					•	
								RV	Safety and Relief Valve Test .	Closed to Open	RV	Test relief valve per OM-1 schedule	
2MS-010	OFD-122A-2.1 D4	В	С	Yes	Relief	Self Actuated	None						
								RV	Safety and Relief Valve Test	Closed to Open	RV	Test relief valve per OM-1 schedule	
3MS-010	OFD-122A-3.1 D4	В	. C	Yes	Relief	Self Actuated	None				_		
								RV	Safety and Relief Valve Test	Closed to Open	RV	Test relief valve per OM-1 schedule	
1MS-011	OFD-122A-1.1 D7	В	С	Yes	Relief	Self Actuated	None						
								RV	Safety and Relief Valve Test	Closed to Open	RV	Test relief valve per OM-1 schedule	
2MS-011	OFD-122A-2.1 D7	В	С	Yes	Relief	Self Actuated	None						
								RV	Safety and Relief Valve Test	Closed to Open	RV	Test relief valve per OM-1 schedule	
3MS-011	OFD-122A-3.1 D7	В	С	Yes	Relief	Self Actuated	None						•
								RV	Safety and Relief Valve Test	Closed to Open		Test relief valve per OM-1 schedule	
1MS-012	OFD-122A-1.1 D5	В	С	Yes	Relief	Self Actuated	None						
								RV	Safety and Relief Valve Test	Closed to Open		Test relief valve per OM-1 schedule	
2MS-012	OFD-122A-2.1 D5	В	С	Yes	Relief	Self Actuated	None	-					
<u>.</u>								RV	Safety and Relief Valve Test	Closed to Open		Test relief valve per OM-1 schedule	

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Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Type	Test Type Description	Test Direction	Test Frequency	Frequency Description	Relief Request
3MS-012	OFD-122A-3.1 D5	В	C	Yes	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open		Test relief valve er OM-1 schedule	
1MS-013	OFD-1224-1.1 D8	В	С	Yes	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open		Test relief valve er OM-1 schedule	
2MS-013	OFD-122A-2.1 D8	В	С	Yes	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open		Test relief valve er OM-1 schedul	
3MS-013	OFD-122A-3.1 D8	В	С	Yes	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open		Test relief valve er OM-1 schedul	
1MS-014	OFD-122A-1.1 D5	В	С	Yes	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open		Test relief valve er OM-1 schedul	
2MS-014	OFD-122A-2.1 D5	В	С	Yes	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open		Test relief valve per OM-1 schedul	
3MS-014	OFD-122A-3.1 D5	В	С	Yes	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open		Test relief valve per OM-1 schedul	GNR-VLV-010
1MS-015	OFD-122A-1.1 D7	В	С	Yes	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open		Test relief valve ber OM-1 schedul	GNR-VLV-010
2MS-015	OFD-122A-2.1 D7	В	С	Yes	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open		Test relief valve per OM-1 schedul	GNR-VLV-010
3MS-015	OFD-122A-3.1 D7	В	С	Yes	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open		Test relief valve per OM-1 schedul	GNR-VLV-010
1MS-016	OFD-122A-1.1 D6	В	С	Yes	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open		Test relief valve per OM-1 schedul	GNR-VLV-010
2MS-016	OFD-122A-2.1 D6	5 B	С	Yes	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open		Test relief valve per OM-1 schedul	GNR-VLV-010

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Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Type	Test Type Description	Test Direction	Test Frequen	Frequency CY Description	Relief Request
3MS-016	OFD-122A-3.1 D6	В	С	Yes	Relief	Self Actuated	None						
								RV	Safety and Relief Valve Test	Closed to Open	RV	Test relief valve per OM-1 schedule	
1MS-017	OFD-122A-1.2 15	В	В	Yes	Gate	Limitorque	ON-MS-02						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	CS	Tested every cold shutdown	None
2MS-017	OFD-122A-2.2 15	В	В	Yes	Gate	Limitorque	ON-MS-02						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	CS	Tested every cold shutdown	None
3MS-017	OFD-122A-3.2 15	В	В	Yes	Gate	Limitorque	ON-MS-02	-					
								ST	Measure Full-Stroke Time of Valve	Open to Closed	CS	Tested every cold shutdown	None
1MS-024	OFD-122A-1.2 H3	В	В	Yes	Gate	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Both (Strok Test)	e Q	Tested once quarterly	None
2MS-024	OFD-122A-2.2 H3	В	В	Yes	Gate	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Both (Strok Test)	e Q	Tested once quarterly	None
3MS-024	OFD-122A-3.2 H3	В	В	Yes	Gate	Limitorque	None						
		,						ST	Measure Full-Stroke Time of Valve	Both (Strok Test)	e Q	Tested once quarterly	None
1MS-026	OFD-122A-1.2 D5	В	В	Yes	Gate	Limitorque	ON-MS-02					•	
								ST	Measure Full-Stroke Time of Valve	Open to Closed	CS	Tested every cold shutdown	None
2MS-026	OFD-122A-2.2 D5	В	В	Yes	Gate	Limitorque	ON-MS-02						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	CS	Tested every cold shutdown	None
3MS-026	OFD-122A-3.2 D5	В	В	Yes	Gate	Limitorque	ON-MS-02						
	·							ST	Measure Full-Stroke Time of Valve	Open to Closed	CS	Tested every cold shutdown	None
1MS-033	OFD-122A-1.2 E3	В	В	Yes	Gate	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Both (Strok Test)	e Q	Tested once - quarterly	None
2MS-033	OFD-122A-2.2 E3	В	В	Yes	Gate	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Both (Strok Test)	e Q	Tested once quarterly	None



Valve	Flow Diagram	ASME Class	Valve Category	Active	Vaive Type	Actuator Type	JOD	Test Type	Test Type Description	Test Direction	Test Frequency	Frequency Description	Relief Request
3MS-033	OFD-122A-3.2 E3	В	В	Yes	Gate	Limitorque	None						
						•		ST	Measure Full-Stroke Time of Valve	Both (Stroke Test)	Q	Tested once quarterly	None
1MS-035	OFD-122A-1.3 L2	В	В	Yes	Gate	Limitorque	ON-MS-03						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	CS '	Fested every cold shutdown	None
2MS-035	OFD-122A-2.3 L2	В	В	Yes	Gate	Limitorque	ON-MS-03						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	CS	Fested every cold shutdown	None
3MS-035	OFD-122A-3.3 L2	В	В	Yes	Gate	Limitorque	ON-MS-03						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	CS	Tested every cold shutdown	None
1MS-036	OFD-122A-1.3 F2	В	В	Yes	Gate	Limitorque	ON-MS-03						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	CS	Tested every cold shutdown	None
2MS-036	OFD-122A-2.3 F2	В	В	Yes	Gate	Limitorque	ON-MS-03						
,						· ·		ST	Measure Full-Stroke Time of Valve	Open to Closed	CS	Tested every cold shutdown	None
3MS-036	OFD-122A-3.3 F2	В	В	Yes	Gate	Limitorque	ON-MS-03						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	CS	Tested every cold shutdown	None
1MS-076	OFD-122A-1.1 C10) B	В	Yes	Gate	Limitorque	ON-MS-04						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	CS	Tested every cold shutdown	None
2MS-076	OFD-122A-2.1 110	В	В	Yes	Gate	Limitorque	ON-MS-04						
								ST	Measure Full-Stroke Time of Valve	Open to Closed		Tested every cold shutdown	None
3MS-076	OFD-122A-3.1 110	В	В	Yes	Gate	Limitorque	ON-MS-04						
· · ·								ST	Measure Full-Stroke Time of Valve	Open to Closed	CS	Tested every cold shutdown	None
1MS-079	OFD-122A-1.1 110	В	В	Yes	Gate	Limitorque	ON-MS-04						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	CS	Tested every cold shutdown	None
2MS-079	OFD-122A-2.1 C10) B	В	Yes	Gate	Limitorque	ON-MS-04						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	CS	Tested every cold shutdown	None

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Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Type		Test Direction	Test Frequenc	Frequency Y Description	Relief Request
3MS-079	OFD-1224-3.1 C10	B	В	Yes	Gate	Limitorque	ON-MS-04	ST	Measure Full-Stroke	Open to	CS	Tested every cold	None
	OFD-122A-1.4 12	В	В	Yes	Gate	Limitorque	None	<u> </u>	Time of Valve	Closed		shutdown	
1MS-082	OFD-122A-1.4 12	Б	Б		Guie	Limitorque	110110	ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
2MS-082	OFD-122A-2.4 12	В	В	Yes	Gate	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
3MS-082	OFD-122A-3.4 12	В	В	Yes	Gate	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
1MS-083	OFD-122A-1.4 H2	С	С	Yes	Check	Self Actuated	None						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Stroke Test)	e Q	Tested once quarterly	None
2MS-083	OFD-122A-2.4 H2	С	С	Yes	Check	Self Actuated	None						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Stroke Test)	e Q	Tested once quarterly	None
3MS-083	OFD-122A-3.4 H2	С	С	Yes	Check	Self Actuated	None						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Stroke Test)	e Q	Tested once quarterly	None
1MS-084	OFD-122A-1.4 G2	В	В	Yes	Gate	Limitorque	None					<i>j</i>	
				-				ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
2MS-084	OFD-122A-2.4 G2	В	В	Yes	Gate	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
3MS-084	OFD-122A-3.4 G2	В	В	Yes	Gate	Limitorque	None			-			
					-			ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
1MS-085	OFD-122A-1.4 G2	С	С	Yes	Check	Self Actuated	None						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Strok Test)	e Q	Tested once quarterly	None
2MS-085	OFD-122A-2.4 G2	С	С	Yes	Check	Self Actuated	None						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Strok Test)	e Q	Tested once quarterly	None

MS - Main Steam System : Page 7

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Valve	Flow Diagram	ASME Class	.Valve Category	Active	Valve Type	Actuator Type	JOD	Test Type		Test Direction	Test Frequency	Frequency Description	Relief Request
3MS-085	OFD-122A-3.4 G2	С	С	Yes	Check	Self Actuated	None	FS	Full-Stroke Exercise	Both (Stroke	e Q	Tested once	None
							None		Valve to Safety Position(s)	Test)		quarterly	<u></u>
1MS-087	OFD-122A-1.4 H3	С	В	Yes	Globe	Air	None	PS	Partial-Stroke Exercise Valve	Both (Stroke Test)	e Q	Tested once quarterly	None
2MS-087	OFD-122A-2.4 H3	С	В	Yes	Globe	Air	None						
								PS	Partial-Stroke Exercise Valve	Both (Stroke Test)	e Q	Tested once quarterly	None
3MS-087	OFD-122A-3.4 H3	С	В	Yes	Ball	Air	None						
								PS	Partial-Stroke Exercise Valve	Both (Stroke Test)	e Q	Tested once quarterly	None
1MS-091	OFD-122A-1.4 H5	С	C.	Yes	Check	Self Actuated	None						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	Q	Tested once quarterly	None
2MS-091	OFD-122A-2.4 H5	С	C ·	Yes	Check	Self Actuated	None						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	Q	Tested once quarterly	None
3MS-091	OFD-122A-3.4 H5	С	С	Yes	Check	Self Actuated	None						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	Q	Tested once quarterly	None
1MS-092	OFD-122A-1.4 H6	С	С	Yes	Relief	Self Actuated	None						
-								RV	Safety and Relief Valve Test	Closed to Open		Test relief valve er OM-1 schedule	
2MS-092	OFD-122A-2.4 H6	С	С	Yes	Relief	Self Actuated	None						
								RV	Safety and Relief Valve Test	Closed to Open		Test relief valve er OM-1 schedule	
3MS-092	OFD-122A-3.4 H6	С	С	Yes	Relief	Self Actuated	None						
								RV	Safety and Relief Valve Test	Closed to Open		Test relief valve er OM-1 schedule	
1MS-093	OFD-122A-1.4 H7	С	В	Yes	Ball	Air	None						
-								ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
2MS-093	OFD-122A-2.4 H7	С	В	Yes	Ball	Air	None						
								ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None

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Valve	Flo w Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Type		Test Direction	Test Frequency	Frequency Description	Relief Request
3MS-093	OFD-122A-3.4 H7	C	В	Yes	Ball	Air	None	ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
1MS-094	OFD-122A-1.4 H8	С	В	Yes	Stop	Self Actuated	None	FS	Full-Stroke Exercise Valve to Safety Position(s)	Open to Closed	Q	Tested once quarterly	None
2MS-094	OFD-122A-2.4 H8	С	B	Yes	Stop	Self Actuated	None	FS	Full-Stroke Exercise Valve to Safety Position(s)	Open to Closed	Q	Tested once quarterly	None
3MS-094	OFD-122A-3.4 H8	С	В	Yes	Stop	Self Actuated	None	FS	Full-Stroke Exercise Valve to Safety Position(s)	Open to Closed	Q	Tested once quarterly	None
1MS-102	OFD-122B-1.1 J3	В	В	Yes	Stop	Hydraulic	ON-MS-01	PS	Partial-Stroke Exercise Valve	Open to Closed	Q	Tested once quarterly	None
								ST	Measure Full-Stroke Time of Valve	Open to Closed	CS ·	Fested every cold shutdown	None
2MS-102	OFD-122B-2.1 J3	В	В	Yes	Stop	Hydraulic	ON-MS-01	PS	Partial-Stroke Exercise Valve	Open to Closed	Q	Tested once quarterly	None
								ST	Measure Full-Stroke Time of Valve	Open to Closed	CS	Tested every cold shutdown	None
3MS-102	OFD-122B-3.1 J3	В	В	Yes	Stop	Hydraulic	ON-MS-01	PS	Partial-Stroke Exercise Valve	Open to Closed	Q	Tested once quarterly	None
								ST	Measure Full-Stroke Time of Valve	Open to Closed	CS	Tested every cold shutdown	None
1MS-103	OFD-122B-1.1 J4	В	В	Yes	Stop	Hydraulic	ON-MS-01	PS	Partial-Stroke Exercise	Open to	Q	Tested once	None
								ST	Valve Measure Full-Stroke Time of Valve	Closed Open to Closed	CS	quarterly Tested every cold shutdown	None
2MS-103	OFD-122B-2.1 J4	В	В	Yes	Stop	Hydraulic	ON-MS-01						
21413-145				·				PS	Partial-Stroke Exercise Valve	Open to Closed	-	Tested once quarterly	None
								ST	Measure Full-Stroke Time of Valve	Open to Closed	CS	Tested every cold shutdown	None





Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Type	Test Type Description	Test Direction	Test Frequency	Frequency Description	Relief Request
3MS-103	OFD-122B-3.1 J4	В	В	Yes	Stop	Hydraulic	ON-MS-01						
								PS	Partial-Stroke Exercise Valve	Open to Closed	Q	Tested once quarterly	None
								ST	Measure Full-Stroke Time of Valve	Open to Closed	CS '	Fested every cold shutdown	None
1MS-104	OFD-122B-1.1 J4	В	В	Yes	Stop	Hydraulic	ON-MS-01						
								PS	Partial-Stroke Exercise Valve	Open to Closed	Q	Tested once quarterly	None
								ST	Measure Full-Stroke Time of Valve	Open to Closed	CS	Tested every cold shutdown	None
2MS-104	OFD-122B-2.1 J4	В	В	Yes	Stop	Hydraulic	ON-MS-01						
		•						PS	Partial-Stroke Exercise Valve	Open to Closed	Q	Tested once quarterly	None
								ST	Measure Full-Stroke Time of Valve	Open to Closed	CS	Tested every cold shutdown	None
3MS-104	OFD-122B-3.1 J4	В	В	Yes	Stop	Hydraulic	ON-MS-01						
51415-10-								PS	Partial-Stroke Exercise Valve	Open to Closed	Q	Tested once quarterly	None
								ST	Measure Full-Stroke Time of Valve	Open to Closed	CS	Tested every cold shutdown	None
1MS-105	OFD-122B-1.1 J5	В	В	Yes	Stop	Hydraulic	ON-MS-01						
1115-105								PS	Partial-Stroke Exercise Valve	Open to Closed	Q	Tested once quarterly	None
								ST	Measure Full-Stroke Time of Valve	Open to Closed	CS	Tested every cold shutdown	None
2MS-105	OFD-122B-2.1 J5	В	В	Yes	Stop	Hydraulic	ON-MS-01						
								PS	Partial-Stroke Exercise Valve	Open to Closed	Q	Tested once quarterly	None
								ST	Measure Full-Stroke Time of Valve	Open to Closed	CS	Tested every cold shutdown	None
3MS-105	OFD-122B-3.1 J5	В	B	Yes	Stop	Hydraulic	ON-MS-01						
01120 100								PS	Partial-Stroke Exercise Valve	Open to Closed	Q	Tested once quarterly	None
					•			ST	Measure Full-Stroke Time of Valve	Open to Closed	CS	Tested every cold shutdown	None







Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Typ		Test Direction	Test Frequency	Frequency Description	Relief Request
N - Nitroge	en System												
IN-106	OFD-127B-1.2 E4	В	А	No	Ġlobe	Manual	None	LJ	Leak-Rate Test Valve to	Accident	RF	Tested every	None
							·		App J Requirement(s)	Direction		refueling outage	
N-107	OFD-127B-1.2 F4	В	A	No	Globe	Manual	None	រេ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
IN-129	OFD-127B-1.2 G7	В	A/C	Yes	Check	Self Actuated	ON-N-01						
.11-129	· · · · · · · · · · · · · · · · · · ·							IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Open to Closed	RF	Tested every refueling outage	None
2N-129	OFD-127B-2.2 G7	В	A/C	Yes	Check -	Self Actuated	ON-N-01						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Open to Closed	RF	Tested every refueling outage	None
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
3N-129	OFD-127B-3.2 G7	В	A/C	Yes	Check	Self Actuated	ON-N-01						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Open to Closed	RF	Tested every refueling outage	None
					x			LJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction		Tested every refueling outage	None
1N-131	OFD-127B-1.2 J7	В	A/C	Yes	Check	Self Actuated	ON-N-01						
								LJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction		Tested every refueling outage	None
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Open to Closed	RF	Tested every refueling outage	None
2N-131	OFD-127B-2.2 J7	В	A/C	Yes	Check	Self Actuated	ON-N-01						
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction		Tested every refueling outage	None
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Open to Closed	RF	Tested every refueling outage	None
3N-131	OFD-127B-3.2 J7	В	A/C	Yes	Check	Self Actuated	ON-N-01						
								LJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Directior		Tested every refueling outage	None
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Open to Closed	RF	Tested every refueling outage	None





Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD			Test Direction	Test Frequency	Frequency Description	Relief Request
OFD-127B-1.2 E10	В	A	No	Check	Self Actuated	None						
							LJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
OFD-127B-2.2 E10	В	A	No	Check	Self Actuated	None	,					
							LJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
OFD-127B-3.2 E10	В	A	No	Check	Self Actuated	None						
							LJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
OFD-127B-2.2 E7	В	A	No	Globe	Manual	None						
							រ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
OFD-127B-3.2 E7	В	A	No	Globe	Manual	None						
							IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
	Diagram OFD-127B-1.2 E10 OFD-127B-2.2 E10 OFD-127B-3.2 E10 OFD-127B-3.2 E7	Diagram Class Diagram Class OFD-127B-1.2 E10 B OFD-127B-2.2 E10 B OFD-127B-3.2 E10 B OFD-127B-3.2 E10 B OFD-127B-2.2 E7 B	DiagramClassCategoryOFD-127B-1.2E10BAOFD-127B-2.2E10BAOFD-127B-3.2E10BAOFD-127B-2.2E7BA	DiagramClassCategoryActiveOFD-127B-1.2 E10BANoOFD-127B-2.2 E10BANoOFD-127B-3.2 E10BANoOFD-127B-3.2 E10BANoOFD-127B-2.2 E7BANo	Diagram Class Category Active Type OFD-127B-1.2 E10 B A No Check OFD-127B-2.2 E10 B A No Check OFD-127B-3.2 E10 B A No Check OFD-127B-3.2 E10 B A No Check OFD-127B-3.2 E10 B A No Check	Diagram Class Category Active Type Type OFD-127B-1.2 E10 B A No Check Self Actuated OFD-127B-2.2 E10 B A No Check Self Actuated OFD-127B-3.2 E10 B A No Check Self Actuated	Diagram Class Category Active Type Type JOD OFD-127B-1.2 E10 B A No Check Self Actuated None OFD-127B-2.2 E10 B A No Check Self Actuated None OFD-127B-3.2 E10 B A No Check Self Actuated None OFD-127B-3.2 E10 B A No Check Self Actuated None OFD-127B-3.2 E10 B A No Check Self Actuated None OFD-127B-3.2 E10 B A No Check Self Actuated None OFD-127B-3.2 E10 B A No Check Self Actuated None	PilowItomClassCategoryActiveTypeTypeJODTypeOFD-127B-1.2 E10BANoCheckSelf ActuatedNoneLJOFD-127B-2.2 E10BANoCheckSelf ActuatedNoneLJOFD-127B-3.2 E10BANoCheckSelf ActuatedNoneLJOFD-127B-3.2 E10BANoCheckSelf ActuatedNoneLJOFD-127B-3.2 E10BANoCheckSelf ActuatedNoneLJOFD-127B-3.2 E10BANoGlobeManualNoneLJOFD-127B-3.2 E7BANoGlobeManualNoneLJOFD-127B-3.2 E7BANoGlobeManualNoneLJ	How DiagramKonte ClassCategory ActiveActiveTypeTypeJODTypeDescriptionOFD-127B-1.2 E10BANoCheckSelf ActuatedNoneLJLeak-Rate Test Valve to App J Requirement(s)OFD-127B-2.2 E10BANoCheckSelf ActuatedNoneLJLeak-Rate Test Valve to App J Requirement(s)OFD-127B-2.2 E10BANoCheckSelf ActuatedNoneLJLeak-Rate Test Valve to App J Requirement(s)OFD-127B-3.2 E10BANoCheckSelf ActuatedNoneLJLeak-Rate Test Valve to App J Requirement(s)OFD-127B-3.2 E10BANoCheckSelf ActuatedNoneLJLeak-Rate Test Valve to App J Requirement(s)OFD-127B-3.2 E7BANoGlobeManualNoneLJLeak-Rate Test Valve to App J Requirement(s)OFD-127B-3.2 E7BANoGlobeManualNoneLJLeak-Rate Test Valve to App J Requirement(s)OFD-127B-3.2 E7BANoGlobeManualNoneLJLeak-Rate Test Valve to App J Requirement(s)	Flow DiagramClass CategoryCategory ActiveActiveTypeTypeJODTypeDescriptionDirectionOFD-127B-1.2 E10BANoCheckSelf ActuatedNoneLiLeak-Rate Test Valve to App J Requirement(s)Accident DirectionOFD-127B-2.2 E10BANoCheckSelf ActuatedNoneLiLeak-Rate Test Valve to App J Requirement(s)Accident DirectionOFD-127B-2.2 E10BANoCheckSelf ActuatedNoneLiLeak-Rate Test Valve to App J Requirement(s)Accident DirectionOFD-127B-3.2 E10BANoCheckSelf ActuatedNoneLiLeak-Rate Test Valve to App J Requirement(s)Accident DirectionOFD-127B-3.2 E10BANoCheckSelf ActuatedNoneLiLeak-Rate Test Valve to App J Requirement(s)Accident DirectionOFD-127B-3.2 E7BANoGlobeManualNoneLiLeak-Rate Test Valve to App J Requirement(s)Accident DirectionOFD-127B-3.2 E7BANoGlobeManualNoneLiLeak-Rate Test Valve to App J Requirement(s)Accident DirectionOFD-127B-3.2 E7BANoGlobeManualNoneLiLiLeak-Rate Test Valve to AccidentAccident Direction	Flow DlagramASME ClassValve CategoryValve ActiveValve TypeValve TypeActuator TypeTest Type JODTest TypeTest Type DescriptionFrequencyOFD-127B-1.2 E10BANoCheckSelf ActuatedNoneLJLeak-Rate Test Valve to App J Requirement(s)Accident DirectionRFOFD-127B-2.2 E10BANoCheckSelf ActuatedNoneLJLeak-Rate Test Valve to App J Requirement(s)Accident DirectionRFOFD-127B-3.2 E10BANoCheckSelf ActuatedNoneLJLeak-Rate Test Valve to App J Requirement(s)Accident DirectionRFOFD-127B-3.2 E10BANoCheckSelf ActuatedNoneLJLeak-Rate Test Valve to App J Requirement(s)Accident DirectionRFOFD-127B-2.2 E7BANoGlobeManualNoneLJLeak-Rate Test Valve to App J Requirement(s)Accident DirectionRFOFD-127B-3.2 E7BANoGlobeManualNoneLJLeak-Rate Test Valve to App J Requirement(s)Accident DirectionRFOFD-127B-3.2 E7BANoGlobeManualNoneLJLeak-Rate Test Valve to App J Requirement(s)Accident DirectionRFOFD-127B-3.2 E7BANoGlobeManualNoneKIKILJLeak-Rate Test Valve to App J Requirement(s)Accident 	Flow DlagramASME ClassValve Category ActiveValve TypeValve TypeValve TypeActuator TypeTest Type DoTest TypeTest Type DescriptionTest Type DirectionFrequency DirectionFrequency DescriptionOFD-127B-1.2 E10BANoCheckSelf ActuatedNoneLJ Leak-Rate Test Valve to App J Requirement(s)RFTested every refueling outageOFD-127B-2.2 E10BANoCheckSelf ActuatedNoneLJ Leak-Rate Test Valve to App J Requirement(s)Accident DirectionRFTested every refueling outageOFD-127B-3.2 E10BANoCheckSelf ActuatedNoneLJ Leak-Rate Test Valve to App J Requirement(s)Accident DirectionRFTested every refueling outageOFD-127B-2.2 E7BANoGlobeManualNoneLJ Leak-Rate Test Valve to App J Requirement(s)Accident DirectionRFTested every refueling outageOFD-127B-3.2 E7BANoGlobeManualNoneLJ Leak-Rate Test Valve to App J Requirement(s)Accident DirectionRFTested every refueling outageOFD-127B-3.2 E7BANoGlobeManualNoneLJ Leak-Rate Test Valve to App J Requirement(s)Accident AccidentRFTested every refueling outage





Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Typ		Test Direction	Test Frequen	Frequency CY Description	Relief Request
OG - Keo	wee Governo	r Oil	Systen	n							. <i>•</i>		
10G-013	KFD-105A-1.1 H1	1 C	С	No	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open		Test relief valve per OM-1 schedulo	
20G-013	KFD-105A-2.1 H1	1 C	С	No	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open	RV	Test relief valve per OM-1 schedulo	GNR-VLV-01
10G-016	KFD-105A-1.1 H8	С	C	No	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open		Test relief valve per OM-1 schedule	
20G-016	KFD-105-2.1 H8	C	C	No	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open		Test relief valve per OM-1 schedule	
10G-019	KFD-105A-1.1 H5	С	С	No	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open		Test relief valve per OM-1 schedul	
20G-019	KED-105A-2.1 HS	С	С	No	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open		Test relief valve per OM-1 schedul	





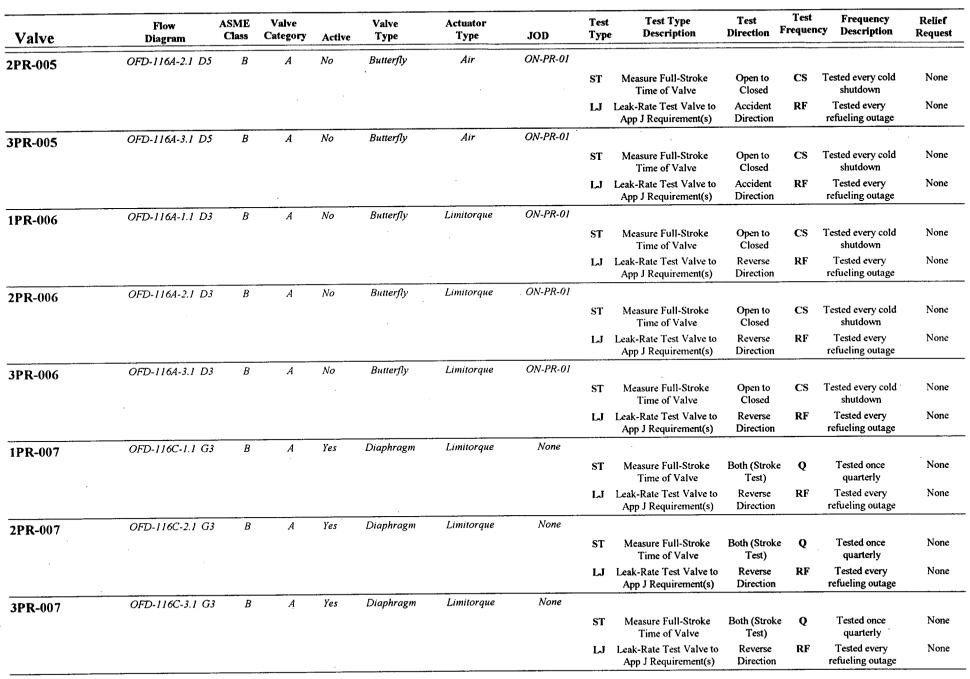


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Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Type		Test Direction	Test Frequency	Frequency Description	Relief Request
PR - Purş	ge System									•			
IPR-001	OFD-116A-1.1 F3	В	A	No	Butterfly	Limitorque	ON-PR-01						
	· .							ST	Measure Full-Stroke Time of Valve	Open to Closed	CS 7	Fested every cold shutdown	None
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Reverse Direction	RF	Tested every refueling outage	None
PR-001	OFD-116A-2.1 G3	В	A	No	Butterfly	Limitorque	ON-PR-01		· · · · · · · · · · · · · · · · · · ·				
								ST	Measure Full-Stroke Time of Valve	Open to Closed	CS 7	Tested every cold shutdown	None
						~		IJ	Leak-Rate Test Valve to App J Requirement(s)	Reverse Direction	RF	Tested every refueling outage	None
3PR-001	OFD-116A-3.1 G3	В	A	No	Butterfly	Limitorque	ON-PR-01						
		÷						ST	Measure Full-Stroke Time of Valve	Open to Closed	CS 7	Tested every cold shutdown	None
	·							IJ	Leak-Rate Test Valve to App J Requirement(s)	Reverse Direction	RF	Tested every refueling outage	None
IPR-002	OFD-116A-1.1 F5	В	A	No	.Butterfly	Air .	ON-PR-01						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	CS 7	Tested every cold shutdown	None
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
2PR-002	OFD-116A-2.1 G5	В	A	No	Butterfly	Air	ON-PR-01						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	CS	Tested every cold shutdown	None
								LJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
3PR-002	OFD-116A-3.1 G5	В	A	No	Butterfly	Air	ON-PR-01						
_						·		ST	Measure Full-Stroke Time of Valve	Open to Closed	CS	Tested every cold shutdown	None
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
1PR-005	OFD-116A-1.1 D5	В	A	No	Butterfly	Air	ON-PR-01		·				
	·							ST	Measure Full-Stroke Time of Valve	Open to Closed	CS '	Tested every cold shutdown	None
								LJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None







Oconee Nuclear Station - IST Submittal for Valves

Interval 3, Submittal Revision 24

PR - Purge System : Page 2







Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Typ		Test Direction	Test Frequency	Frequency Description	Relief Request
1PR-008	OFD-116C-1.1 K3	 B	A	Yes	Diaphragm	Air	None					· · · · · · · · · · · · · · · · · · ·	
								ST	Measure Full-Stroke Time of Valve	Both (Stroke Test)	e Q	Tested once quarterly	None
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
2PR-008	OFD-116C-2.1 K3	В	A	Yes	Diaphragm	Air	None		<u>.</u>				
								ST	Measure Full-Stroke Time of Valve	Both (Stroke Test)	e Q	Tested once quarterly	None
						•		IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
3PR-008	OFD-116C-3.1 K3	В	A	Yes	Diaphragm	Air	None						
								ST	Measure Full-Stroke Time of Valve	Both (Stroke Test)	e Q	Tested once quarterly	None
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
1PR-009	OFD-116C-1.1 D2	В	A	Yes	Diaphragm	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Both (Strok) Test)	e Q	Tested once quarterly	None
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Reverse Direction	RF	Tested every refueling outage	None
2PR-009	OFD-116C-2.1 D2	В	A	Yes	Diaphragm	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Both (Strok Test)	e Q	Tested once quarterly	None
								LJ	Leak-Rate Test Valve to App J Requirement(s)	Reverse Direction	RF	Tested every refueling outage	None
3PR-009	OFD-116C-3.1 D2	В	А	Yes	Diaphragm	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Both (Strok Test)	e Q	Tested once quarterly	None
								រ	Leak-Rate Test Valve to App J Requirement(s)	Reverse Direction	RF	Tested every refueling outage	None
1PR-010	OFD-116C-1.1 C4	В	A	Yes	Diaphragm	Air	None						
		۰.						ST	Measure Full-Stroke Time of Valve	Both (Strok Test)	e Q	Tested once quarterly	None
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
2PR-010	OFD-116C-2.1 C4	В	A	Yes	Diaphragm	Air	None						
								ST	Measure Full-Stroke Time of Valve	Both (Strok Test)	e Q	Tested once quarterly	None
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None





Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Type	Test Type Description	Test Direction	Test Frequency	Frequency Description	Relief Request
3PR-010	OFD-116C-3.1 C4	В	A	Yes	Diaphragm	Air	None						
JI N- 010								ST	Measure Full-Stroke Time of Valve	Both (Stroke Test)	e Q	Tested once quarterly	None
								LJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
1PR-015	OFD-116B-1.1 111	С	В	Yes	Butterfly	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
2PR-015	OFD-116B-2.1 111	С	В	Yes	Butterfly	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
3PR-015	OFD-116B-3.1 111	С	В	Yes	Butterfly	Limitorque	None						
					. *			ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
1PR-019	OFD-116B-1.1 E11	С	В	Yes	Butterfly	Limitorque	None				•		
								ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
2PR-019	OFD-116B-2.1 E11	С	В	Yes	Butterfly	Limitorque	None						
				,				ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
3PR-019	OFD-116B-3.1 E11	C	В	Yes	Butterfly	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
1PR-034	OFD-116B-1.1 111	С	С	Yes	Check	Self Actuated	None						
								FS	Full-Stroke Exercise Valve to Safety Position(s	Both (Strok) Test)	e Q	Tested once quarterly	None
2PR-034	OFD-116B-2.1 111	С	C	Yes	Check	Self Actuated	None						
								FS	Full-Stroke Exercise Valve to Safety Position(s	Both (Strok) Test)	e Q	Tested once quarterly	None
3PR-034	OFD-116B-3.1 111	С	С	Yes	Check	Self Actuated	None						
								FS	Full-Stroke Exercise Valve to Safety Position(s	Both (Strok) Test)	e Q	Tested once quarterly	None
1PR-035	OFD-116B-1.1 E1	С	С	Yes	Check	Self Actuated	None						
							,	FS	Full-Stroke Exercise Valve to Safety Position(s	Both (Strok) Test)	e Q	Tested once quarterly	None
2PR-035	OFD-116B-2.1 E1	I C	С	Yes	Check	Self Actuated	None						
								FS	Full-Stroke Exercise Valve to Safety Position(s	Both (Strok 5) Test)	te Q	Tested once quarterly	None

Oconee Nuclear Station - IST Submittal for Valves Interval 3, Submittal Revision 24 PR - Purge System : Page 4



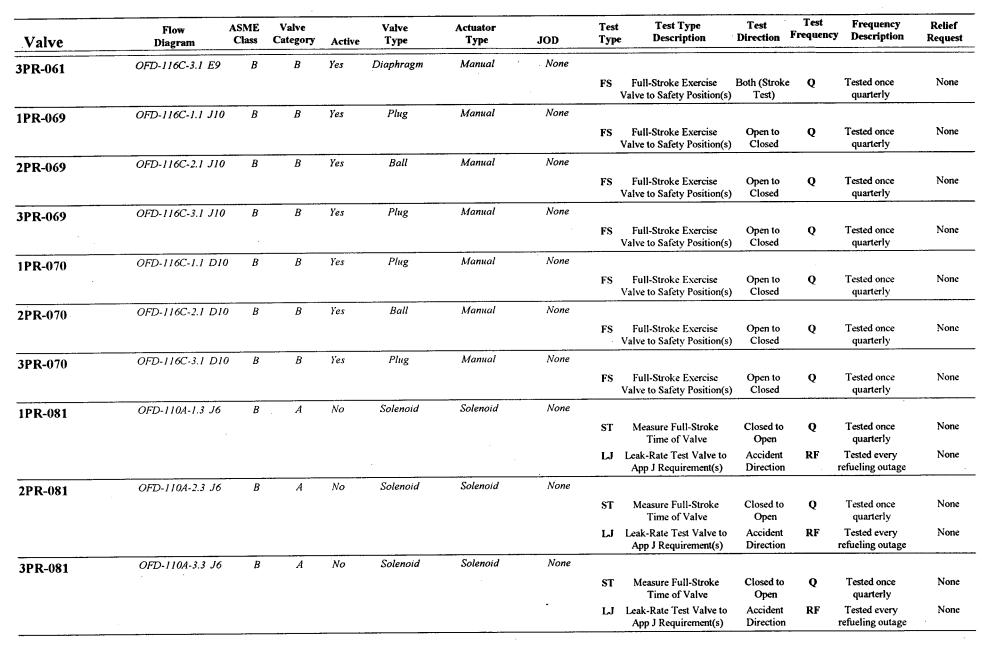




Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Type		Test Direction	Test Frequency	Frequency Description	Relief Request
3PR-035	OFD-116B-3.1 E11	С	С	Yes	Check	Self Actuated	None						
511005								FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Stroke Test)	e Q	Tested once quarterly	None
1PR-059	OFD-116C-1.1 H2	В	A	Yes	Diaphragm	Rotork	None						
								ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
						· .		្រុ	Leak-Rate Test Valve to App J Requirement(s)	Reverse Direction	RF	Tested every refueling outage	None
2PR-059	OFD-116C-2.1 H3	В	A	Yes	Diaphragm	Rotork	None						
								ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Reverse Direction	RF	Tested every refueling outage	None
3PR-059	OFD-116C-3.1 H3	В	А	Yes	Diaphragm	Rotork	None						
								ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Reverse Direction	RF	Tested every refueling outage	None
1PR-060	OFD-116C-1.1 D3	В	A	Yes	Diaphragm	Rotork	None						
								ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
			^					LJ	Leak-Rate Test Valve to App J Requirement(s)	Reverse Direction	RF	Tested every refueling outage	None
2PR-060	OFD-116C-2.1 D3	В	A	Yes	Diaphragm	Rotork	None						
								ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Reverse Direction	RF	Tested every refueling outage	None
3PR-060	OFD-116C-3.1 D3	В	А	Yes	Diaphragm	Rotork	None						
								ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
								LJ	Leak-Rate Test Valve to App J Requirement(s)	Reverse Direction	RF	Tested every refueling outage	None
1PR-061	OFD-116C-1.1 F9	В	В	Yes	Diaphragm	Manual	None						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Stroke Test)	e Q	Tested once quarterly	None
2PR-061	OFD-116C-2.1 E9	В	В	Yes	Diaphragm	Manual	None						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Strok Test)	e Q	Tested once quarterly	None

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Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Typ		Test Direction	Test Frequency	Frequency Description	Relief Request
IPR-084	OFD-110A-1.3 K6	В	A	No	Solenoid	Solenoid	None				<u> </u>		
								ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
PR-084	OFD-110A-2.3 K6	В	A	No	Solenoid	Solenoid	None						
								ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once . quarterly	None
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
3PR-084	OFD-110A-3.3 K6	В	A	No	Solenoid	Solenoid	None		· .				
	·							ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
								រ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
1PR-087	OFD-110A-1.3 E6	В	А	No	Solenoid	Solenoid	None						
								ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
								ដ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
2PR-087	OFD-110A-2.3 E6	В	A	No	Solenoid	Solenoid	None						
								ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
								· LJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
3PR-087	OFD-110A-3.3 E6	В	A	No	Solenoid	Solenoid	None						
								ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
	X							IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
1PR-090	OFD-110A-1.3 F6	В	A	No	Solenoid	Solenoid	None				· ·		
								ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
								LJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
2PR-090	OFD-110A-2.3 F6	В	A	No	Solenoid	Solenoid	None						
								ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
								រោ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None

Oconee Nuclear Station - IST Submittal for Valves Interval 3, Submittal Revision 24

PR - Purge System : Page 7







Valve		Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Type		Test Direction	Test Frequency	Frequency Description	Relief Request
3PR-090	1	OFD-110A-3.3 F6	В	A	No	Solenoid	Solenoid	None					, ,	
				·					ST	Measure Full-Stroke Time of Valve	Closed to Open	Q	Tested once quarterly	None
									IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
1PR-115		OFD-116B-1.1 15	С	С	Yes	Check	Self Actuated	None						
									FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	Q	Tested once quarterly	None
2PR-115		OFD-116B-2.1 15	С	С	Yes	Check	Self Actuated	None						
									FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	Q	Tested once quarterly	None
3PR-115		OFD-116B-3.1 15	С	С	Yes	Check	Self Actuated	None						-
									FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	Q	Tested once quarterly	None
1PR-116		OFD-116B-1.1 E5	С	С	Yes	Check	Self Actuated	None						
									FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	Q	Tested once quarterly	None
2PR-116		OFD-116B-2.1 E5	C	C	Yes	Check	Self Actuated	None						
									FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	Q	Tested once quarterly	None
3PR-116		OFD-116B-3.1 E5	С	С	Yes	Check	Self Actuated	None						•
									FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	Q	Tested once quarterly	None







Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Type		Test Direction	Test Frequency	Frequency Description	Relief Reques
RC - Rea	ctor Coolant S	Syste	m										
1RC-001	OFD-100A-1.2 H10) A	В	Yes	Globe	Solenoid	ON-RC-02	ST	Measure Full-Stroke Time of Valve	Both (Strok Test)	e CS	Fested every cold shutdown	None
	OFD-100A-2.2 H10) A	В	Yes	Globe	Solenoid	ON-RC-02			1030)	•		
2RC-001	0FD-100A-2.2 1110	/ A	D	105	0.000			ST	Measure Full-Stroke Time of Valve	Both (Strok Test)	e CS	Fested every cold shutdown	None
3RC-001	OFD-100A-3.2 H10) A	В	Yes	Globe	Solenoid	ON-RC-02						
								ST	Measure Full-Stroke Time of Valve	Both (Strok Test)	e CS	Fested every cold shutdown	None
1RC-004	OFD-100A-1.2 J9	A	В	Yes	Gate	Limitorque	ON-RC-03						
								ST	Measure Full-Stroke Time of Valve	Both (Strok Test)	e CS	Tested every cold shutdown	None
2RC-004	OFD-100A-2.2 J9	A	В	Yes	Gate	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Both (Strok Test)	e Q	Tested once quarterly	None
3RC-004	OFD-100A-3.2 J9	A	В	Yes	Gate	Limitorque	None					. (_	
								ST	Measure Full-Stroke Time of Valve	Both (Strok Test)	ie Q	Tested once quarterly	None
1RC-005	OFD-110A-1.1 13	A	A	Yes	Gate	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
								. LJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction		Tested every refueling outage	None
2RC-005	OFD-110A-2.1 13	A	A	Yes	Globe	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	Non
								Г	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction		Tested every refueling outage	Non
3RC-005	OFD-110A-3.1 13	A	A	Yes	Gate	Limitorque	None						
UINC -000								ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
								រេ	Leak-Rate Test Valve to App J Requirement(s)	Accident Directior		Tested every refueling outage	None





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Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Type	e Description	Test Direction	Test Frequency	Frequency Description	Relief Request
1RC-006	OFD-110A-1.1 H3	A	A	Yes	Gate	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
2RC-006	OFD-110A-2.1 H3	A	A	Yes	Globe	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
3RC-006	OFD-110A-3.1 H3	A	A	Yes	Globe	Limitorque	None						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
								រ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
1RC-007	OFD-110A-1.1 16	В	A	Yes	Gate	Air	None						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
								LJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
2RC-007	OFD-110A-2.1 16	В	A	Yes	Gate	Air	None						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
								រ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
3RC-007	OFD-110A-3.1 16	В	A	Yes	Gate	Air	None						
	·							ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
1RC-066	OFD-100A-1.2 J9	A	В	Yes	Relief	Solenoid	None						
								RV	Safety and Relief Valve Test	Closed to Open	CS .	Fested every cold shutdown	GNR-VLV-010
2RC-066	OFD-100A-2.2 J9	A	В	Yes	Relief	Solenoid	None		· ·				
								RV	Safety and Relief Valve Test	Closed to Open	CS ·	Fested every cold shutdown	GNR-VLV-010
3RC-066	OFD-100A-3.2 J9	A	В	Yes	Relief	Solenoid	None	``	i. Birne a sec				
							``	RV	Safety and Relief Valve Test	Closed to Open	CS ⁷	Tested every cold shutdown	GNR-VLV-010

Oconee Nuclear Station - IST Submittal for Valves

Interval 3, Submittal Revision 24

RC - Reactor Coolant System : Page 2







Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Typ		Test Direction	Test Frequenc	Frequency By Description	Relief Request
1RC-067	OFD-100A-1.2 J7	A	С	Yes	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open	CS	Tested every cold shutdown	GNR-VLV-010
2RC-067	OFD-100A-2.2 J8	A	C	Yes	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open	CS	Tested every cold shutdown	GNR-VLV-010
3RC-067	OFD-100A-3.2 J8	A	С	Yes	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open	CS	Tested every cold shutdown	GNR-VLV-010
1RC-068	OFD-100A-1.2 J7	A	С	Yes	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open	CS	Tested every cold shutdown	GNR-VLV-010
2RC-068	OFD-100A-2.2 J7	А	С	Yes	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open	CS	Tested every cold shutdown	GNR-VLV-010
3RC-068	OFD-100A-3.2 J7	A	С	Yes	Relief	Self Actuated	None	RV	Safety and Relief Valve Test	Closed to Open	CS	Tested every cold shutdown	GNR-VLV-010
1RC-164	OFD-110A-1.4 G4	В	A	Yes	Solenoid	Solenoid	None	ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
<u>. </u>								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
2RC-164	OFD-110A-2.4 G4	В	A	Yes	Solenoid	Solenoid	None	ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
3RC-164	OFD-110A-3.4 G4	В	A	Yes	Solenoid	Solenoid	None	ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
			i				·	IJ		Accident Direction	RF	Tested every refueling outage	None
1RC-165	OFD-110A-1.4 G4	С	A	Yes	Solenoid	Solenoid	None	ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
								ĹJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None







Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Type		Test Direction	Test Frequency	Frequency Description	Relief Request
2RC-165	OFD-110A-2.4 G	4 C	A	Yes	Solenoid	Solenoid	None						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
								Ы	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
3RC-165	OFD-110A-3.4 G	4 C	A	Yes	Solenoid	Solenoid	None						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
1-Rx-CKs	NA N	4 NA	С	Yes	Check	Self Actuated	None						
							•	FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Strok Test)		Tested every refueling outage	RR-VLV-024
2-Rx-CKs	NA N	A NA	С	Yes	Check	Self Actuated	None		······································				
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Strok Test)		Tested every refueling outage	RR-VLV-024
3-Rx-CKs	NA N	A NA	С	Yes	Check	Self Actuated	None						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Both (Strok Test)		Tested every refueling outage	RR-VLV-024



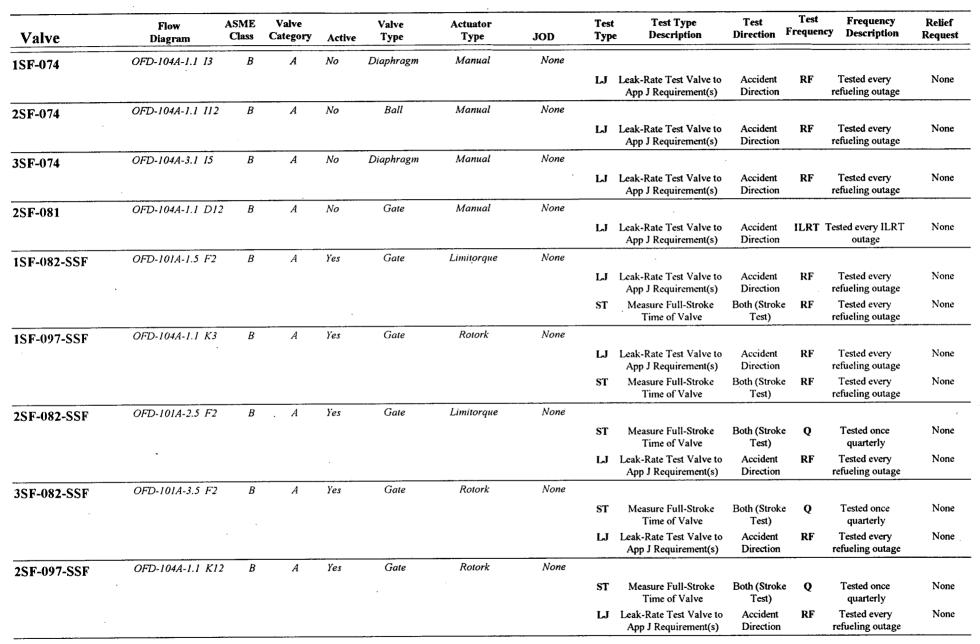




Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Typ		Test Direction	Test Frequenc	Frequency Y Description	Relief Request
SF - Spen	et Fuel System	1											
1SF-060	OFD-104A-1.1 D3	В	А	No	Gate	Manual	None	ដ	Leak-Rate Test Valve to	Accident Direction		Fested every ILRT	None
	OFD-104A-3.1 C5	B	A	No	Gate	Manual	None		App J Requirement(s)	Direction		outage	
3SF-060	<i>UPD-104A-3.1</i> CJ	Б	A	NO	Gule	Manadi	Tone	IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction		Fested every ILRT outage	None
1SF-061	OFD-104A-1.1 D3	В	A	No	Gate	Manual	None						
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction		Fested every ILRT outage	None
2SF-061	OFD-104A-1.1 D12	? B	A	No	Gate	Manual	None						
								LJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction		Fested every ILRT outage	None
3SF-061	OFD-104A-3.1 C4	В	A	No	Gate	Manual	None						
					_			IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction		Fested every ILRT outage	None
1SF-072	OFD-104A-1.1 J3	B	А	No	Diaphragm	Manual	None			-			
-								ដ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
2SF-072	OFD-104A-1.1 J12	В	A	No	Ball	Manual	None						
							·	រ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
3SF-072	OFD-104A-3.1 J4	В	A	No	Diaphragm	Manual	None						
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
1SF-073	OFD-104A-1.1 J3	В	Α	No	Diaphragm	Manual	None				•		
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
2SF-073	OFD-104A-1.1 J12	В	Α	No	Ball	Manual	None						
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None
3SF-073	OFD-104A-3.1 J5	В	A	No	Diaphragm	Manual	None						
								LJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every refueling outage	None











Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Type		Test Direction	Test Frequency	Frequency Description	Relief Request
3SF-097-SSF	OFD-104A-3.1 K3	В	A	Yes	Gate	Rotork	None						
								ST	Measure Full-Stroke Time of Valve	Both (Stroke Test)	e Q	Tested once quarterly	None
								IJ	Leak-Rate Test Valve to App J Requirement(s)	Accident Direction	RF	Tested every efueling outage	None

Oconee Nuclear Station - IST Submittal for Valves Interval 3, Submittal Revision 24 SF - Spent Fuel System : Page 3







Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Type		Test Direction	Test Frequency	Frequency Description	Relief Request
SSH - Sec	cond Stage R	eheat	t Syste	m									
1SSH-022	OFD-122B-1.1 16	В	С	No	Relief	Self Actuated	None						
								RV	Safety and Relief Valve Test	Closed to Open		Test relief valve er OM-1 schedule	
2SSH-022	OFD-122B-2.1 16	В	С	No	Relief	Self Actuated	None						
								RV	Safety and Relief Valve Test	Closed to Open		Test relief valve er OM-1 schedule	
3SSH-022	OFD-122B-3.1 16	В	С	No	Relief	Self Actuated	None						
VUULL VMM								RV -	Safety and Relief Valve Test	Closed to Open		Test relief valve er OM-1 schedule	







Valve	Flow Diagram	ASME Class	Valve Category	Active	. Valve Type	Actuator Type	JOD	Test Typ		Test Direction	Test Frequency	Frequency Description	Relief Request
TS - Keon	vee Turbine	Sump	Syste	m					·				
1TS-002	KFD-102A-1.1 G	8 C	С	Yes	Check	Self Actuated	None						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	Q	Tested once quarterly	None
2TS-002	KFD-102A-2.1 G	8 C	С	Yes	Check	Self Actuated	None						
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	Q,	Tested once quarterly	None
1TS-004	KFD-102A-1.1 H	8 C	С	Yes	Check	Self Actuated	None						· · ·
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	Q	Tested once quarterly	None
2TS-004	KFD-102A-2.1 H	8 C	С	Yes	Check	Self Actuated	None					,	
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	Q	Tested once quarterly	None







Valve	Flow Diagram	ASME Class	Valve Category	Active	Valve Type	Actuator Type	JOD	Test Type		Test Direction	Test Frequency	Frequency Description	Relief Request
WL - Keo	wee T <mark>urb.</mark> Ge	n. C	ooling	Wtr	System					-			
1WL-011	KFD-100A-1.1 J1	С	В	Yes	Globe	Air	None						
								ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
2WL-011	KFD-100A-2.1 J1	С	В	Yes	Globe	Air	None		· · · ·			•	
						-		ST	Measure Full-Stroke Time of Valve	Open to Closed	Q	Tested once quarterly	None
1WL-040	KFD-100A-1.1 B1	I C	С	Yes	Vacuum Breaker	Self Actuated	None		<u> </u>				
								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	Q	Tested once quarterly	None
2WL-040	KFD-100A-2.1 B1	1 C	С	Yes	Vacuum Breaker	Self Actuated	None						
24412-040								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	Q	Tested once quarterly	None
1WL-077	KFD-100A-1.1 F1) C	С	Yes	Vacuum Breaker	Self Actuated	None						
1 TT LJ V/ /								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	Q __	Tested once quarterly	None
2WL-077	KFD-100A-2.1 F1	0 C	С	Yes	Vacuum Breaker	Self Actuated	None						
4 11 L -0 / /								FS	Full-Stroke Exercise Valve to Safety Position(s)	Closed to Open	Q	Tested once quarterly	None

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Oconee Units 1 and 2

Specific Relief Request

Item Number:

RR-VLV-11

Valve(s):

2BS-5, 6

B/B

С

Flow Diagram / Coordinates:

OFD-102A-2.1/E-8, C-10

¶4.3.2.2 Exercising Requirements.

Function:

Loop A and Loop B BWST suction line check valves.

ISI Class/Duke Class:

Valve Category:

Test Requirement:

Basis for Interim Relief:

Alternate Testing:

present piping size configuration prevents recirculation flow from equaling design spray flow. Normal recirculation flow is approximately 1250 gpm and full flow for this system is 1500 gpm.

These valves cannot be full-stroke exercised because the

The present check valves can not be disassembled because this would require cutting the valve out of the line and re-welding it back in place. The current check valves are of a split-body design and are welded in the piping as opposed to being flanged and bolted; so in order to disassemble and inspect the valves, they would have to be cut out of the line. Please reference attached drawing OM-245-23 to see the valve design.

These valves will be partial-stroked tested quarterly, until they are cut out and removed from the system on the following schedule:

Unit 2 End of Cycle 15

03/26/96 Rev. 24 RR-VLV-11 Page 1 of 2

4.3 VALVE JUSTIFICATION FOR DEFERRALS

stification for Deferral	Applicability	Status
ON-AS-01	EFWPT AS Supply Checks	Written 02/13/95
ON-AS-02	Main Steam Supply Checks	Deleted 09/01/95
ON-BS-01	A or B RBSP Discharge Checks	Written 02/13/95
ON-BS-02	A or B RBS Containment Isol. Checks	Written 02/13/95
ON-C-01	MDEFWPs Suction from UST Block	Written 02/13/95
ON-C-02	MDEFWPs Suction from UST Check	Written 02/13/95
ON-C-03	MDEFWPs Suction from Hotwell Check	Written 02/13/95
ON-CC-01	CC Supply/Return Containment Isol.	Written 02/13/95
ON-CC-02	CC Supply Containment Isol. Check	Written 02/13/95
ON-CF-01	CFT A and B Outlet Checks	Revised 09/01/95
ON-CF-02	LPI/CF Header Checks	Revised 09/01/95
ON-CF-03	CFT A and B Inlet Checks	Written 02/13/95
ON-CS-01	Quench Tank Recirc. Containment Isol. Check	Written 02/13/95
ON-FDW-01	OTSG Startup Block and Control	Written 02/13/95
ON-FDW-02	TDEFWP Discharge Checks, EFW to OTSG A or B, and	Written 02/13/95
	OTSG Emergency Header Checks	
ON-FDW-03	A or B OTSG Main Flow Control	Written 02/13/95
ON-FDW-04	Normal FDW to Emergency Checks	Written 02/13/95
ON-HP-01	Letdown Containment Isolation	Written 02/13/95
ON-HP-02	RCP Seal Return Containment Isol.	Written 02/13/95
ON-HP-02	HPI Loop A Emergency Injection Control	Written 02/13/95
ON-HP-04	HPI A or B Crossover Valves	Written 02/13/95
ON-HP-05	LDST Outlet Checks	Written 02/13/95
ON-HP-06	HPI Pump Min. Recirculation Block	Written 02/13/95
ON-HP-07	Letdown Containment Isolation	Written 02/13/95
ON-HP-08	RC Seal Return Line Check	Written 02/13/95
ON-HP-09	HPI Min. Recirc. to LPI Suction Check	Written 02/13/95
ON-HP-10	HPI Pump Emergency Suction Checks	Written 02/13/95
ON-HP-11	HPI Pump Discharge Checks	Written 02/13/95
ON-HP-12	A1 or A2 Loop Injection Stop Checks	Written 02/13/95
ON-HP-12	B1 or B2 Loop Injection Stop Checks	Written 02/13/95
ON-HP-13 ON-HP-14	HPI Loop B Emergency Injection Checks	Written 02/13/95
ON-HP-14 ON-HP-15	HPI Loop A Emergency/Normal Injection Checks	Written 02/13/9
	HPI Pump Min. Recirculation Stop Checks	Written 02/13/9
ON-HP-16 ON-HP-17	RCP Seal Supply Containment Isol. Checks	Written 02/13/9
	Decay Heat Drop Line Isolation	Written 02/13/9
ON-LP-01	A or B LPI Header Containment Isol. Checks	Written 02/13/9
ON-LP-02	Post-LOCA Boron Dilution Valves	Written 02/13/9
ON-LP-03		Written 02/13/9
ON-LP-04	A LPI Pump Discharge BWST Outlet Isolation	Written 02/13/9
ON-LP-05		Written 02/13/9
ON-LP-06	LPI Supply to HPI Isolation	Written 03/01/9
ON-LP-07	A or B LPI Header Isolation	Written 09/01/9
ON-LP-08	LPI Post Boron Dilution Valves	whiten 09/01/9

ISTPGM24.DOC Rev.24

Justification for Deferral	Applicability	Status
ON-LPSW-01	RCP Cooler Supply and Discharge Block	Written 02/13/95
ON-LPSW-02	U3 MTOT Cooler Supply Block	Written 02/13/95
ON-LPSW-03	Normal/Emergency Supply Checks to HPIP Motor	Written 02/13/95
ON-LPSW-04	· · · · ·	Deleted 03/26/96
ON-MS-01	Turbine Stop	Written 02/13/95
ON-MS-02	Main Steam Turbine Bypass	Written 02/13/95
ON-MS-03	MS Supply to FDWPTs Block	Written 02/13/95
ON-MS-04	MS Supply to SSRH Block	Written 02/13/95
ON-MS-05	MS Supply to AS Checks	Deleted 09/01/95
ON-N-01	CFT A and B Inlet Containment Isol. Checks	Written 02/13/95
ON-PR-01	RB Purge Containment Isolation	Revised 03/26/96
ON-RC-01		Deleted 03/26/96
ON-RC-02	Pressurizer Spray Control	Written 02/13/95
ON-RC-03	RCS Pressure Boundary Isolation	Submitted 09/01/9
ON-SSF-01	SSF ASW Supply to A OTSG	Written 02/13/95
ON-SSF-02	SSF RC Makeup Supply to RCP Seals	Written 02/13/95
ON-SSF-03	SSF RC Makeup to RCP Seals Block	Written 02/13/95
ON-SSF-04	Letdown to Spent Fuel Vent	Written 02/13/95
ON-SSF-05	SSF AFW Supply to B OTSG Control	Written 02/13/95

Justification for Deferrals written 02/13/95 were generated as a result of adopting the guidelines presented in OM-10. A cross-reference of 'old' Relief Requests and Cold Shutdown Justifications is contained in Attachment 1 (Summary of Program Changes) of the 02/21/95 Duke letter to the NRC (Response to 11/23/94 NRC SER).

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Oconee Units 1, 2, and 3

Justification for Deferral

1PR-1, 2PR-1, and 3PR-1 Valve: 1PR-2, 2PR-2, and 3PR-2 1PR-5, 2PR-5, and 3PR-5 1PR-6, 2PR-6, and 3PR-6 Flow Diagram: OFD-116A-1.1/F-3, OFD-116A-2.1/G-3, and OFD-116A-3.1/G-3 OFD-116A-1.1/F-5, OFD-116A-2.1/G-5, and OFD-116A-3.1/G-5 OFD-116A-1.1/D-5, OFD-116A-2.1/D-5, and OFD-116A-3.1/D-5 OFD-116A-1.1/D-3, OFD-116A-2.1/D-3, and OFD-116A-3.1/D-3 Code Category: Α B/C

NA

NA

ON-PR-01

ISI Class/Duke Class:

Function:

Item Number:

Test Requirement:

Basis for Deferral:

Test Alternative & Frequency:

These valves are passive Type A valves. They are considered passive since Technical Specification 3.6 requires them to be closed and deenergized when containment integrity is required . Although these valves are passive, they are stroked at a CS frequency per the ONS Supplemental 10CFR50 Appendix B Program.

Reactor building purge containment isolation valves.

ON-PR-01 Page 1 of 1 03/26/96

4.4 PUMP GENERIC RELIEF REQUESTS

Relief Request	Applicability	Status
GNR-PMP-01	Pumps in operation when test is started	No change
GNR-PMP-02	Positive Displacement Pumps	Revised 9/01/95
GNR-PMP-03		Deleted 2/13/95
GNR-PMP-04		Deleted 2/13/95
GNR-PMP-05	,	Deleted 9/01/95
GNR-PMP-06	All Pumps (Bearing Temperature Measurement)	Revised 9/01/95

ISTPGM24.DOC Rev.24 Page 1 of 1 03/26/96

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4.5 PUMP SPECIFIC RELIEF REQUESTS

Relief Request	Applicability	Status
RR-PMP-01		Deleted 2/13/95
RR-PMP-02		Deleted 3/26/96
RR-PMP-03		Deleted 2/13/95
RR-PMP-04		Deleted 2/13/95
RR-PMP-05	Keowee Turbine Sump Pumps	Submitted 3/26/96

ISTPGM24.DOC Rev.24 Page 1 of 1 03/26/96

Oconee Units 1, 2, and 3

(Keowee Hydro Station Units 1 and 2)

Specific Relief Request

Item Number:

RR-PMP-05

Pump(s):

Function:

K1TSPU88SD K1TSPU88SA K2TSPU88SD K2TSPU88SA

KFD-102A-1.1/H7

KFD-102A-1.1/G7 KFD-102A-2.1/H7 KFD-102A-2.1/G7

C/F

Flow Diagram / Coordinates:

These pumps maintain water level below 34" in the sump as measured from the bottom of the sump. This is below the level at which water can enter the Turbine Guide Bearing Reservoir.

ISI Class/Duke Class:

Test Requirement:

IWP-3100 Inservice Test Procedure (Table IWP-3100-1) and IWP-3300 Scope of Tests

Measure pump inlet pressure before pump startup and during test. Observe proper lubricant level or pressure during test. Measure pump bearing temperature at least one inservice test each vear.

IWP-3210 Allowable Ranges of Inservice Test Quantities

If these ranges cannot be met, the Owner shall specify in the record of tests (IWP-6000) the reduced range limits to allow the pump to fulfill its function, and those limits shall be used in lieu of the ranges given in Table IWP-3100-2.

IWP-3500 Duration of Tests

When measurement of bearing temperature is not required, each pump shall be run at least 5 minutes under conditions as stable as the system permits. At the end of this time at least one measurement or observation of each of the quantities specified shall be made and recorded.

IWP-4110 Quality (Table IWP-4110-1) and IWP-4600 Flow Measument

Flow rate instrument accuracy must be within $\pm 2\%$ of full scale. Flow rate shall be measured using a rate or quantity meter installed in the pump test circuit. The meter may be in any class that provides an overall readout repeatability within the accuracy limits of Table IWP-4110-1. Where the meter does not indicate the flow rate directly, the record shall include the method used to reduce the data.

Per NUREG-1482 Section 5.1.2 and discussion in the ONS ASME Inservice Testing Program Document Section 5.2.9, inlet pressure, proper lubricant level or pressure, and bearing temperature are no longer required to be monitored. These data provide no useful data with regards to the intent of IST requirements.

Per discussion in Section 5.8.1 in the ONS ASME Inservice Testing Program Document, alternate acceptance criteria are used in lieu of the acceptance criteria prescribed in Table IWP-3100-2. This is consistent with IWP since the procedures clearly specify the acceptance criteria, and the procedures reference the ONS ASME Inservice Testing Program Document.

Per discussion in Section 5.8 of NUREG-1482, a licensee may follow the requirements of Paragraph 5.6 OM-6 for the duration of tests if it determines the shorter duration represents stable operation pursuant to 10 CFR 50.55a (f)(4)(iv). Paragraph 5.6 OM-6 states after pump conditions are as stable as the system permits, each pump shall be run at least 2 min. At the end of this time at least one measurement or observation of each of the quantities required shall be made and recorded. These pumps are aligned to drain the turbine wheel pit sump. The sump volume that can be removed by the sump pumps is limited to ensure adequate margin for safety when performing the test. This limits run time of the pumps to approximately 7 minutes.

No flow instrumentation exists on the suction or discharge piping for the subject pumps Pumping rate must be measured by determining the time period required to drain a predetermined volume from the sump. Indications are placed on the wall of the sump to mark the starting and finishing levels for the test. The indications are permanent placards mounted on the wall of the sump, so they are not subject to electrical drift and the uncertainty limits imposed on such equipment.

Alternate acceptance criteria are documented in the test procedures and in the ONS ASME Inservice Testing Program Document.

Vibration measurement will commence as soon as the pumps are started to ensure that sufficient data are collected during the IST. A stopwatch is started when the level in the sump is even with the indicator marking the test starting level. The stopwatch is stopped and pressure readings are recorded when the level in the sump is even with the indicator marking the test finishing level. Pumping rate will be determined by measuring the time required to reduce the sump level from the upper to lower placards. Acceptance criteria will be based on differential pressure developed by the pump and time required to reduce sump level from the upper to lower placards.

Alternate Testing:

Basis for Relief:

RR-PMP-05 Page 2 of 2

5.0 Table of Abbreviations

Parameter	Abbreviation	Description
Valve Type	GT	Gate valve
	GB	Globe valve
	СК	Check valve
	RV	Relief valve
	SC	Stop check
	BF	Butterfly valve
	DI	Diaphragm valve
	EX	Explosive valve
	BA	Ball valve
	SN	Solenoid valve
	PG	Plug valve
	ST	Stop valve
	VB	Vacuum breaker
Actuator Type	ML	Motor operated (Limitorque)
	MR	Motor operated (Rotork)
	MO	Motor operated (Other)
3	SO	Solenoid operated
	ÂÔ	Air operated
	НО	Hydraulic operated
	SA	Self actuated
	MA	Manual
	PA	Pilot Actuated
Test(s) Performed	ST	Stroke Time
	FS	Full-stroke exercise to safety position(s)
	PS	Partial-stroke exercise
	LT	Leak-rate test to Section XI requirements
	LJ	Leak-rate test to Appendix J requirments
	SD	Sample Disassembly
	FT	Observe the fail-safe operation of the valve
	Pl	Verify the valve's remote position indication
	RV	Safety and relief valve test
	EX	Explosive valve test
Test Frequency	Q	Test performed once quarterly
reactivequency	CS	Test performed at cold shutdown
	RF	Test performed each reactor refueling outage
1	2Y	Test performed every two years
	RV	Test relief valve at OM-1 schedule
	ILRT	Test containment isolation valve at ILRT
		schedule
	SD	Disassemble, inspect, and manually exercise
		one valve from specified group each reactor
		refueling outage

Draft NUREG-1482 was used as a model for deciding what abbreviations to use in the program. The IST Program Document contains a description of the Duke System Piping Class designations and applicable design criteria.