

Farley Nuclear Plant Unit 1
Inservice Testing ProgramREVISION INSERTION INSTRUCTIONS
February 27, 1980Section/PageInstruction

Valves:

3-55 and 3-101

3-102

Replace

Add

Table V-1 Valve Test Program

System Name: Aux. Feedwater System

Revision Number: 2

System Number: Q1N23

(Note: See Table V-2 for Legend of Symbols)

Valve Number		Code Class	P&ID/Sh Number	Coordinates	Section XI Valve Category	Size (inches)	Valve Type	Actuator Type	Normal Position	Test Requirements	Test Alternates	Relief Requests	Stroke Time Limit (Sec.)	Function	Remarks
TPNS	Other														
V002G	None	3	D-175007	G-9	C	4	CK	SA	C	CV	CS	3.1.32	--	MDAFW Discharge to Steam Generators	
												3.1.5	--		
V002H	None	3	D-175007	H-9	C	4	CK	SA	C	CV	CS	3.1.32	--	TDAFW Discharge to Steam Generators	
												3.1.7	--		
V003	None	3	D-175007	G-6	C	6	CK	SA	C	CV	CS	3.1.32	--	TDAFW Discharge to Steam Generators	
												3.1.7	--		
V006	None	3	D-175007	H-3	C	8	CK	SA	C	CSP	--	3.1.43	--	Turbine-Driven Aux. Feedwater Pump Suction	
V007A	None	3	D-175007	B-3	C	6	CK	SA	C	CSP	--	3.1.44	--	Motor-Driven Aux. Feedwater Pump Suction	
V007B	None	3	D-175007	E-3	C	6	CK	SA	C	CSP	--	3.1.44	--	Motor-Driven Aux. Feedwater Pump Suction	
V011A	1-MOV3350A	2	D-175007	B-10	C	4	CK	SA	C	CV	CS	3.1.5	--	Aux. Feedwater to Steam Generator	
												3.1.32			

3-55

3.1.42 Test Requirement

IWV-3520(2) requires that confirmation that the disk moves away from the seat shall be by visual observation, by electrical signal, by appropriate pressure indications, or by other positive means.

3.1.42.1 Basis for Relief

Due to plant design, the operability of this normally closed check valve cannot be determined by any of the specific methods allowed in IWV-3520(2).

3.1.42.2 Alternate Testing

The only positive means of demonstrating operability is by verification of flow such that the valve is full-stroke exercised. A flow greater than or equal to the manufacturer's minimum full-open value (Flow \geq 70 GPM) will be verified quarterly provided the associated charging pump is operable.

3.1.43 Test Requirement

IWV-3520(2) requires that confirmation that the disk moves away from the seat shall be by visual observation, by electrical signal, by appropriate pressure indications, or by other positive means.

3.1.43.1 Basis for Relief

Due to plant design, the operability of this normally closed check valve cannot be determined by any of the specific methods allowed in IWV-3520(2).

3.1.43.2 Alternate Testing

The only positive means of demonstrating operability is by verification of flow such that the valve moves to perform its function. A partial-stroke test will be accomplished during the quarterly testing of the TDAFW pump. Acceptance of the pump test will provide assurance that the valve has partially opened. A full-stroke test will be accomplished by providing AFW system design flow into the Steam Generators during a mode of operation approaching or leaving cold shutdown in which steam is available. Verification of this flow in conjunction with verification that the control valve position is the same for each test will provide assurance that the valve has opened sufficiently to perform its function.

3.1.44 Test Requirement

Sub-Article IWV-3520(2) requires that the differential pressure for equivalent flow be no greater than that observed during preoperational testing when flow is used to test a swing or tilting disk valve.

3.1.44.1 Basis for Relief

No instrumentation is provided for the determination of differential pressure across the valve.

3.1.44.2 Alternate Testing

A partial-stroke test will be accomplished during the quarterly testing of the MDAFW pumps. Acceptance of the pump test will provide assurance that the valve has partially opened. A full-stroke test will be accomplished by providing MDAFW pump design flow to the Steam Generators during cold shutdown. Verification that design flow is reached provides assurance that the valve has opened in order to perform its function.

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