Farley Nuclear Plant Unit 1 Inservice Testing Program

REVISION INSERTION INSTRUCTIONS February 27, 1980

Section/Page

Instruction

Valves: 3-55 and 3-101 3-102

Replace Add



Table V-1 Valve Test Program

System Name: Aux. Feedwater System

System Number: Q1N23

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

Revision Number: 2

Valve Number		e Class	De LOVEL	rdinates	tion XI ve Category	e (inches)	ve Type	uator Type	mal Position	t Requirements	t Alternates	ief . uests	oke Time Nit (Sec.)		
TPNS	Other	Cod	Humber	Coo	Sec	Siz	Val	Act	Nor	Tes	tes	Rel	Str Lim	Function	Remarks
V002G	None	3	D-175007	G-9	С	4	СК	SA	с	C۷	CS	3.1.32		MDAFW Discharge to Steam Generators	
	12-5-15											3.1.5			1.4.1
V002H	None	3	D-175007	H-9	с	4	СК	SA	С	cv	CS	3.1.32		TDAFW Discharge to Steam Generators	
	1000											3.1.7			
V003	None	3	D-175007	G-6	С	6	СК	SA	С	CV	CS	3.1.32		TDAFW Discharge to Steam Generators	
	공태가 문											3.1.7			
V006	None	3	D-175007	H-3	С	8	CK	SA	С	CSP		3.1.43		Turbine-Driven Aux. Feedwater Pump Suction	
V007A	None	3	D-175007	B-3	С	6	СК	SA	С	CSP		3.1.44		Motor-Driven Aux. Feedwater Pump Suction	
V007B	None	3	D-175007	E-3	C	6	СК	SA	С	CSP		3.1.44		Motor-Driven Aux. Feedwater	
V011A	1-M0V3350A	2	D-175007	B-10	С	4	СК	SA	С	cv	CS	3.1.5		Aux. Feedwater to Steam Generator	
												3.1.32			<u> </u>

3-55

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### 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 guarterly 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 a same for each test will provide assurance that the valve has opened ciently 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.

Revision 1 11/79 Revision 2 2/80

# 3.1.44.2 Alternace Testing

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A partial-stoke 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 NDAFW pump design flow to the Steam Generators during cold shutdown. Verificaton that design flow is reached provides assurance that the valve has opened in order to perform its function.

1