

U.S. NUCLEAR REGULATORY COMMISSION  
LICENSEE EVENT REPORT

CONTROL BLOCK / / / / / / (1) (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)  
 /0/1/ /V/A/N/A/S/1/ (2) /0/0/-/0/0/0/0/0/-/0/0/ (3) /4/1/1/1/1/ (4) / / / (5)  
 LICENSEE CODE LICENSE NUMBER LICENSE TYPE CAT  
 /0/1/ REPORT /L/ (6) /0/5/0/0/0/3/3/8/ (7) /0/3/2/1/8/3/ (8) /0/4/1/4/8/3/ (9)  
 SOURCE DOCKET NUMBER EVENT DATE REPORT DATE

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

/0/2/ / On March 21, 1983, with Unit 1 at 93 percent of Rated Thermal Power (RTP) and /  
 /0/3/ / Unit 2 at 100 percent of RTP, an engineering review of Auxiliary Feedwater Pump /  
 /0/4/ / Periodic Tests revealed that the steam driven Auxiliary Feedwater Pump tests did /  
 /0/5/ / not meet ASME XI IWP requirements. Both the Unit 1 and 2 steam driven Auxiliary /  
 /0/6/ / Feedwater Pump procedures were deficient. This event is reportable pursuant to /  
 /0/7/ / T.S. 6.9.1.9.c. Operability of the steam driven Auxiliary Feedwater Pumps was /  
 /0/8/ / not affected. The public health and safety were not affected. /

SYSTEM	CAUSE	CAUSE	COMP.	VALVE
CODE	CODE	SUBCODE	SUBCODE	SUBCODE

/0/9/	/H/H/ (11)	/D/ (12)	/Z/ (13)	/P/U/M/P/X/X/ (14)	/B/ (15)	/Z/ (16)
	LER/RO	EVENT YEAR	SEQUENTIAL	OCCURRENCE	REPORT	REVISION
(17)	REPORT		REPORT NO.	CODE	TYPE	NO.
	NUMBER	/8/3/	/-/	/0/1/5/	/ / /	/0/3/
					/L/	/-/
						/0/

ACTION	FUTURE	EFFECT	SHUTDOWN	ATTACHMENT	NPRD-4	PRIME COMP.	COMPONENT
TAKEN	ACTION	ON PLANT	METHOD	SUBMITTED	FORM SUB.	SUPPLIER	MANUFACTURER
/X/ (18)	/G/ (19)	/Z/ (20)	/Z/ (21)	/0/0/0/0/ (22)	/Y/ (23)	/N/ (24)	/A/ (25)
							/I/0/7/5/ (26)

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

/1/0/ / ASME XI IWP requirements were not properly incorporated into the steam driven /  
 /1/1/ / Auxiliary Feedwater testing procedures. The reason for the omissions is unknown. /  
 /1/2/ / On March 22, 1983 both the Unit 1 and Unit 2 steam driven Auxiliary Feedwater /  
 /1/3/ / Pumps passed tests which were conducted pursuant to ASME XI IWP requirements. /  
 /1/4/ / Procedures are being corrected. /

FACILITY	METHOD OF	DISCOVERY	DISCOVERY DESCRIPTION (32)
STATUS	%POWER	OTHER STATUS	
/1/5/	/E/ (28)	/0/9/3/ (29)	/ NA / (30) /C/ (31) /Engineering Procedure Review/

ACTIVITY	CONTENT	AMOUNT OF ACTIVITY (35)	LOCATION OF RELEASE (36)
RELEASED	OF RELEASE		
/1/6/	/Z/ (33)	/Z/ (34)	/ NA /

PERSONNEL EXPOSURES	DESCRIPTION (39)
NUMBER	TYPE
/1/7/	/0/0/0/ (37) /Z/ (38)

PERSONNEL INJURIES	DESCRIPTION (41)
NUMBER	
/1/8/	/0/0/0/ (40) / NA /

LOSS OF OR DAMAGE TO FACILITY	(43)
TYPE	DESCRIPTION
/1/9/	/Z/ (42) / NA /

PUBLICITY	ISSUED	DESCRIPTION (45)	NRC USE ONLY
	/N/ (44)	/ NA /	/ / / / / / / / / / /

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#### Description of Event

On March 21, 1983, with Unit 1 at 93 percent of Rated Thermal Power and Unit 2 at 100 percent of Rated Thermal Power, an engineering review of Auxiliary Feedwater Pump Periodic Tests revealed that the steam driven Auxiliary Feedwater Pumps tests did not meet ASME XI IWP requirements.

ASME XI IWP-3100 (1974 edition with Summer 1975 Addenda) requires inservice pump tests to be conducted at a reference speed. The speed is assumed to be the nominal motor nameplate speed for pumps with constant speed drives. The speed of variable speed drives must be adjusted to the reference speed. ASME XI IWP-4400 requires speed measurement on all pumps except those driven by directly coupled synchronous or induction motors.

The steam driven Auxiliary Feedwater Pump speed is controlled by a Woodward governor. The governor was set to obtain a pump discharge pressure and flow greater than those specified in T.S. 4.7.1.2.a.2. The speed of the pump should have been measured. The governor should have been set to obtain a reference speed. In addition to the omission of the speed measurements a complete review of the steam driven Auxiliary Feedwater Pump Periodic Test revealed that vibration measurements required by ASME XI IWP-4510 had been omitted.

This event is reportable pursuant to T.S. 6.9.1.9.c. Both the Unit 1 and Unit 2 steam driven Auxiliary Feedwater Pumps were affected.

#### Probable Consequences of Occurrence

Testing performed pursuant to ASME XI IWP requirements subsequent to this event did not detect pump degradation. Since no pump degradation of the pumps had occurred, setting the governor to obtain required head and flow, as had been the practice prior to this event, effectively set the pump speed at the nominal nameplate speed.

The pumps were capable of performing their design function. On each unit two redundant 100 percent motor driven Auxiliary Feedwater Pumps are available. The public health and safety were not affected.

#### Cause of Event

ASME XI IWP requirements were not properly incorporated into steam driven Auxiliary Feedwater Pump testing procedures. The reason for the omissions is unknown.

Immediate Corrective Action

On March 21, 1983, tests were run on the Unit 1 and 2 steam driven Auxiliary Feedwater Pumps to obtain data required by subsection IWP of ASME XI. On March 22, 1983, the Performance Engineer determined that measurement errors had been made during March 21, 1983 testing and requested additional testing. On March 22, 1983 both the Unit 1 and 2 steam driven Auxiliary Feedwater Pumps passed tests which were conducted pursuant to ASME XI IWP requirements.

Scheduled Corrective Action

Surveillance procedures for the steam driven Auxiliary Feedwater Pumps are being changed to incorporate all ASME XI IWP requirements.

Actions Taken to Prevent Recurrence

The scheduled corrective actions should prevent recurrence.

Generic Implications

This event has no generic implications.