NRC FOR	U. S. NUCLEAR REGULATORY COMMISSION
- A.,	CONTROL BLOCK: 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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CON'T	REPORT SOURCE L 6 0 5 0 0 3 4 6 0 0 2 1 7 8 0 8 1 0 5 8 1 9 DOCKET NUMBER 68 69 EVENT DATE 74 75 REPORT DATE 80
02	(NP-33-80-23) On 2/17/80 at 2048 hours, it was noted by operations personnel that the
03	Safety Features Actuation System (SFAS) Channel 3 Borated Water Storage Tank (BWST)
0 4	level indication was reading six feet higher than the other three indications. The
0 5	channel was declared inoperable at 2103 hours and placed in the tripped condition in
06	accordance with the action statement of Technical Specification 3.3.2.1. There was no
07	danger to the health and safety of the public or station personnel. The remaining
08	three BWST level instrument strings were operable.
	SYSTEM CAUSE CAUSE CAUSE COMPONENT CODE SUBCODE SUBCOD
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	ACTION FUTURE EFFECT SHUTDOWN TAKEN ACTION ON FLANT METHOD 33 00 10 10 10 10 10 10 10 10 10 10 10 10
1	L The cause is the inadequacy of the design of the freeze protection. The heat trace
	I vendor. Thermon Manufacturing Company, did not take into consideration the heat losses
	I through the pipe and tubing supports. A temporary windbreak was constructed around the
	I transmitter, and with the aid of a portable heater, Channel 3 was made operable at
	1 2200 hours on 2/17/80.
7 8	9 FACILITY SPOWER OTHER STATUS 30 METHOD OF DISCOVERY DESCRIPTION 32 LE[(28) 0 9 9 (29) NA LA 31 Operator observation 9
7 8	9 10 12 13 44 45 46 60 ACTIVITY CONTENT AMOUNT OF ACTIVITY 35 LOCATION OF RELEASE 36
1 6	Z (33) Z (34) NA II 80 9 10 11 44 45 80
1 7	NUMBER NUMBER 9 11 12 0 0 0 0 0 0 0 0 0 0 0 0 0
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10	LOSS OF OR DAMAGE TO FACILITY (43) TYPE DESCRIPTION Z (42) NA 80
7 8	B110200584 B11005 Image: State St
7 DVR 80-	Daniel Trautman PHONE (419) 259-5000, Ext. 235 g

TOLEDO EDISON COMPANY DAVIS-BESSE NUCLEAK POWER STATION UNIT ONE SUPPLEMENTAL INFORMATION FOR LER NP-33-80-23

DATE OF EVENT: February 17, 1980

FACILITY: Davis-Besse Unit 1

IDENTIFICATION OF OCCURRENCE: Borated Water Storage Tank (BWST) Level Indication in Safety Features Actuation System (SFAS) Channel 3 was out of tolerance

Conditions Prior to Occurrence: The unit was in Mode 1 with Power (MWT) = 2753 and Load (Gross MWE) = 915

Description of Occurrence: On February 17, 1980 at 2048 hours, it was noted by operations personnel that the SFAS Channel 3 BWST level indication was reading approximately six feet higher than the other three BWST level indications. The channel was declared inoperable by operations personnel and at 2103 hours, the channel was placed in the tripped condition. This occurrence placed the unit in Action Statement 9 of Technical Specification 3.3.2.1. This technical specification states that BWST level instrument strings shall be operable in Modes 1, 2, and 3. Action Statement 9 states that with one channel inoperable, operation may proceed provided (a) the inoperable unit is placed in the tripped condition within one hour, and (b) the remaining three channels are operable.

Designation of Apparent Cause of Occurrence: The cause of the occurrence is the inadequacy of the design of the freeze protection. The heat trace vendor, Thermon Manufacturing Company, did not take into consideration the heat losses through the pipe and tubing supports. During ambient conditions well below freezing, the areas adjacent to the supports begin to freeze even though the rest of the pipe is well above freezing. In addition, Facility Change Request 79-123, which installed new enclosures around the level transmitters and relocated heat trace temperature sensors to worst case locations, was insufficient to protect against freezing during high wind conditions.

<u>Analysis of Occurrence</u>: There was no danger to the health and safety of the public or to station personnel. The remaining three BWST level instrument strings were operable during the period which Channel 3 BWST level instrument string was inoperable.

<u>Corrective Action</u>: On February 17, 1980 at 2200 hours, a temporary windbreak was constructed around the BWST level transmitter and a portable propane heater placed inside the windbreak. Within a short period of time after application of additional heating, the Channel 3 BWST level indication returned to normal. Surveillance Test ST 5099.01 was performed and on February 17, 1980, the Channel 3 BWST level instrument was declared operable. This removed the unit from the action statement. Toledo Edison has taken steps with Thermon Manufacturing Company to increase the voltage of the installed heat trace. In addition, Facility Change Request 79-123 has been extended to include heat tracing to the pipe supports for LT 1525A and C.

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TOLEDC EDISON COMPANY DAVIS-BESSE NUCLEAR POWER STATION UNIT ONE SUPPLEMENTAL INFORMATION FOR LER NP-33-80-23

Failure Data: Previous similar incidents occurring concerning BWST level indication failure due to freezing were reported under Licensee Event Reports NP-33-77-107, NP-33-78-01 (78-001), NP-33-79-32 (79-028), and NP-33-78-142 (78-121).

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