(7.071	LICENSEE EVENT REPORT
	CONTROL BLOCK:
	M A P P S 1 0 0 - 0 0 0 0 - 0 0 3 4 1 1 1 1 4 5 UICENSEE CODE 14 15 LICENSE NUMBER 25 26 LICENSE TYPE JO 57 CAT 58 5
CON'T	REPORT L 6 0 5 0 - 0 2 9 3 0 0 4 1 7 8 1 3 0 5 1 9 8 1 9 SOURCE 50 61 DOCKET NUMBER 58 59 EVENT DATE 74 75 REPORT DATE 30
0 2	EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10) On 4/17/81, at 1130 hrs, routine surveillance testing was being conducted on the Cardox
03	System hose reels and nozzles. After successfully testing the 51 ft. level hose station,
04	a test was conducted on the 23 ft. level hose reel and nozzle. The nozzle failed to
0 5	deliver an adequate stream. A fire watch was immediately established as required by
0 6	Technical Specifications. Approximately two hours later, the system was satisfactorily
07	retested and returned to service. (Refer to Attachment)
03	J
	SYSTEM CAUSE CAUSE CAUSE COMPONENT CODE COMPONENT CODE SUBCODE SUBCOD
	Image: Securital NUMBER SECURATIAL REPORT NO. OCCURRENCE CODE REPORT TYPE NO. 17 REPORT NO. 0 1 5 0 3 1 0 0 0 3 1 0 3 1 32
	ACTION PUTURE EFFECT SHUTLOWN HOURS 22 ATTACHMENT NPRD-4 PRIME COMP. COMPONENT TAKEN ACTION ON PLANT METHOD HOURS 22 ATTACHMENT FORM SUB. SUPPLIER MANUFACTURER H 18 F 19 Z 20 Z 21 0 0 0 0 0 V 23 ATTACHMENT FORM SUB. SUPPLIER MANUFACTURER 33 34 35 Z 20 Z 21 0 0 0 0 0 V 23 ATTACHMENT FORM SUB. SUPPLIER MANUFACTURER 40 41 42 43 44 47 47
10	CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27) The probable cause of this event is believed to have been icing of CO2 pipes which re-
	stricted the flow of CO2. Fire Brigade members have been instructed by memo (MSG-
1 2	81-77) to lay fire water hoses in these areas during a fire to be utilized as a
13	backup to the CO2 system. An engineering evaluation has been requested to determine
	the appropriate long term corrective action. (Refer to Attachment)
7 8	30 FACILITY STATUS
	3 10 12 13 44 45 46 80 ACTIVITY CONTENT 12 13 44 45 46 80 ELEASED OF RELEASE AMOUNT OF ACTIVITY 35 LOCATION OF RELEASE 36 Z 33 Z 34 N.A. N.A. N.A.
7 3	3 10 11 14 45 30 PERSONNEL EXPOSURES TYPE DESCRIPTION (39) N.A. 30 0 0 0 (37) Z (38) N.A.
7 û	9 PERSONNEL INJURIES 30
7 8	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
19	Z 42 N.A.
7 3	3 PUBLICITY PUBLICITY ISSUED DESCRIPTION (45) N.A.
810	5280 1238 M. Thomas McLoughlin PHONE: 617-746-7900

BOSTON EDISON COMPANY PILGRIM NUCLEAR POWER STATION DOCKET NO. 50-293

Attachment to LER 81-015/03L-0

Description

On April 17, 1981 the once a cycle surveillance (8.B.5) was being conducted on the Cardox Fire Protection System. This system consists of a storage unit having a capacity of 4 tons which maintains liquid CO_2 at a low temperature (-1°F.) and low pressure (300 psig.). The system is used for fire protection of the cable spreading room, as a supply source for three CO_2 fire hose stations (23' switchgear, 37' switchgear and 51' generator area) and for generator purge.

When a CO_2 hose nozzle is removed from its brackets the master selector value for the hose system opens allowing CO_2 to reach all three nozzles. CO_2 can then be discharged by operating the squeeze trigger on the nozzle.

The CO_2 hose reel on the 51' elevation was the first tested and was satisfactory. The 23' elevation was then tested and failed. The 37' elevation was then satisfactorily tested. The testing at the 51' elevation permitted liquid and vaporous CO_2 to reach all three hose reels. Heavy frost coating was observed on the pipes during this testing. The 23' elevation was retested within minutes and again failed. This CO_2 station was declared inoperable, a maintenance request issued and a fire watch established. Two hours later this hose station was satisfactorily tested and declared operable.

Cause and Corrective Action

Preliminary analysis indicates that the piping leading to the 23' elevation hose station froze and plugged upon actuation of the 51' elevation hose station. During the two hour period of inactivity the systems piping is believed to have defrosted, permitting a successful testing of the twenty three foot elevation switchgear room hose and reel station. An engineering analysis has been requested to investigate this incident and determine the long term corrective action.

To eliminate the development of any adverse condition in the short term the fire brigade has been appraised by memo of this potential problem. Additionally, they have been advised to immediately lay a fire water hose backup in the event that a fire occurs which requires the use of this system.