

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

CONTROL BLOCK:

CON'T

0	1
7	8

REPORT SOURCE

L	6	0	5	0	0	0	3	1	7	7	0	3	1	6	8	2	8	0	4	1	5	8	2	9
60	61	DOCKET NUMBER						68	69	EVENT DATE						74	75	REPORT DATE						80

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 | At 1432, during normal operation, the capacity of #11 Charging Pump de-
0 3 | creased to zero. #12 Charging Pump was started and its capacity was
0 4 | found to be 22 GPM. As the capacity of both pumps were below Tech Spec
0 5 | minimum of 40 GPM per pump, the pumps were declared inoperable (T.S.
0 6 | 3.1.2.4). #11 Charging Pump was vented several times and returned to
0 7 | service at 1615, this terminating the event. #13 Charging Pump remained
0 8 | operable during the event. Similar event: 50-317/81-21.

SYSTEM CODE		CAUSE CODE		CAUSE SUBCODE		COMPONENT CODE				COMP. SUBCODE		VALVE SUBCODE					
C	G	E	X	P	U	M	P	X	X	E	Z						
9	10	11	12	13	14	15	16	17	18	19	20						
EVENT YEAR		SEQUENTIAL REPORT NO.		OCCURRENCE CODE		REPORT TYPE		REVISION NO.									
8	2	0	1	2	0	3	L	0									
21	22	23	24	25	26	27	28	29									
ACTION TAKEN		FUTURE ACTION		EFFECT ON PLANT		SHUTDOWN METHOD		HOURS		ATTACHMENT SUBMITTED		NPRD-4 FORM SUB		PRIME COMP. SUPPLIER		COMPONENT MANUFACTURER	
A	X	Z	Z	0	0	0	Y	N	A	A	4	8	0				
13	14	15	16	17	18	19	20	21	22	23	24	25	26				

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 Pump was bound when its discharge desurger lost its nitrogen precharge

1 1 due to a ruptured bladder. As pump was started, its discharge relief

1 2 valve lifted, sending N₂ to the pump suction line where it expanded

1 3 and bound the pump. Deterioration of bladders in storage is probable

1 4 cause of bladder failure. Storage, shelf-life limits to be imposed.

7	8	9	FACILITY STATUS										% POWER										OTHER STATUS										METHOD OF DISCOVERY										DISCOVERY DESCRIPTION									
1	5		E	28	1	0	0	29	13	NA	44	A	31	45	46	Operator Observation										32																										

ACTIVITY CONTENT
RELEASED OF RELEASE

1 6 Z 33 Z 34 NA

AMOUNT OF ACTIVITY (35)

LOCATION OF RELEASE (36)

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

7		8	9	11		12	13	
PERSONNEL INJURIES								
NUMBER				DESCRIPTION				
1	2	0	0	0	(40)	NA		

[illegible]

7 8 9 10
PUBLICITY
ISSUED DESCRIPTION (45) 82042702104
(2) (0) (N) (44) NA
11 12 13 14 15 16 17 18 19 20
NRC USE ONLY

NAME OF PREPARER

G. S. Pavis

PHONE

301-269-4742

LER NO. 82-12/3L
DOCKET NO. 50-317
LICENSE NO. DPR-53
EVENT DATE 03-16-82
REPORT DATE 04-15-82
ATTACHMENT

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES

At 1432, during normal operation, #13 Charging Pump was running when #11 Charging pump was started. Flow was established for less than a minute before its capacity decreased to zero. #12 Charging Pump, awaiting maintenance due to a packing leak, was then started and its flow was 22 GPM. As the capacity of both pumps were below the minimum required by the Technical Specifications (40 GPM per pump), the pumps were declared inoperable (T.S. 3.1.2.4). #11 Charging Pump was vented several times and its capacity restored, thus it was declared operable at 1615. #13 Charging Pump remained operable during the event. Similar event: 50-317/81-21.

CAUSE DESCRIPTION AND CORRECTIVE ACTION

No. 11 Charging Pump became bound when its discharge desurger bladder had ruptured, and thus lost its nitrogen precharge. The nitrogen from the ruptured bladder entered the discharge piping when #11 Charging Pump was not operating. After the pump was started, its discharge relief valve lifted discharged the nitrogen to the Charging Pump suction piping where it expanded and bound the pump. Investigation of this event yielded the partial deterioration of the bladder prior to installation as the most probable cause of the bladder rupture. Corrective action consists of establishing a maximum shelf-life and storage environment limits for spare bladders in order to minimize bladder deterioration prior to installation.