

LICENSEE EVENT REPORT

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

CON'T

REPORT
SOURCEEVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0	9	C	A	(11)	D	(12)	Z	(13)	X	X	X	X	X	X	(14)	Z	(15)	Z	(16)
7	8	9	10		11		12		13					18		19		20	
(17) LER RO REPORT NUMBER		EVENT YEAR				SEQUENTIAL REPORT NO.				OCCURRENCE CODE		REPORT TYPE		REVISION NO.					
		7	9	—		0	1	6	/	0	1	T	—	0					
		21	22	23		24		26	27	28	29	30	31	32					
ACTION TAKEN	FUTURE ACTION	EFFECT ON PLANT	SHUTDOWN METHOD	HOURS	(22)	ATTACHMENT SUBMITTED	NPRD-4 FORM SUB.	PRIME COMP SUPPLIER	COMPONENT MANUFACTURER										
E	G	Z	Z	0	0	0	Y	N	C	0	2	6	(26)						
33	34	35	36	37	38	40	41	42	43	44	45	46	47						

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

FACILITY STATUS (28) 1 5 H 7 8 9
 % POWER (29) 0 0 0 10 11 12
 OTHER STATUS (30) N/A 13 44
 METHOD OF DISCOVERY (31) B 45
 DISCOVERY DESCRIPTION (32) Scheduled Surveillance Test 46 84

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

		LOSS OF OR DAMAGE TO FACILITY		
		TYPE	DESCRIPTION	
1	9	Z	N/A	(42)

8 9 10 30
PUBLICITY
7906120409
ISSUED DESCRIPTION (45) NRC USE ONLY
2 0 N (44) N/A

NAME OF PREPARER

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NRC USE ONLY

REPORT DATE: June 1, 1979
OCCURRENCE DATE: May 21, 1979

REPORTABLE OCCURRENCE 79-16
ISSUE 0
Page 1 of 4

PORT ST. VRAIN NUCLEAR GENERATING STATION
PUBLIC SERVICE COMPANY OF COLORADO
P. O. BOX 361
PLATTEVILLE, COLORADO 80651

REPORT NO. 50-267/79-16/01-T-0

Final

IDENTIFICATION OF
OCCURRENCE:

On May 21, 1979, while the reactor was shutdown and depressurized for refueling, surveillance testing and preventive maintenance was being performed on the PCRV relief valve system. The cutting edge for the rupture discs was found out of tolerance, which could have prevented either relief valve from fulfilling the functional requirements of the system.

Since the reactor has been operated at power during the surveillance interval, this is reportable per Fort St. Vrain Technical Specification AC 7.5.2(a)5.

EVENT
DESCRIPTION:

While the reactor was shutdown and depressurized for refueling the low set rupture disc, M-11702, was removed from service for a scheduled surveillance bench test. See Figure 1. During this test the punch gap, (6), was found out of tolerance. The cutting edge, (1), was farther from the rupture disc, (5), than allowed by manufacturer's specifications. Since the low set rupture disc punch gap was out of tolerance, the high set rupture disc, M-11701, was also removed and bench tested. Its punch gap, (6), was also out of tolerance with the cutting edge, (1), being farther from the rupture disc, (5), than allowed by manufacturer's specification. The punch gap tolerances and actual measurements are listed below.

		<u>Punch Gap</u>	
		<u>Allowed*</u>	<u>Actual</u>
Low Set Rupture Disc	M-11702	0.065/0.085 in.	0.111 in.
High Set Rupture Disc	M-11701	0.065/0.085 in.	0.105 in.

*Per Ametek/Calmec Operation and Maintenance Manual PS-239 for M-11701 and M-11702 (Calmec Part Number 2002-503).

The manufacturer's representative was contacted and indicated that because of the large size and movement of these discs the punch would have probably cut the disc in both cases.

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CAUSE

DESCRIPTION:

During initial installation and testing, and subsequent surveillance testing of these rupture discs, the punch gap was checked per approved procedures. However, during the initial installation and testing some confusion resulted over the correct punch gap tolerances. Some of the procedures were changed from the original 0.065 to 0.085 inch punch gap to allow a 0.100 to 0.120 inch punch gap. This was apparently done on a verbal authorization of the technical representative present as no authorizing documentation can be found. These undocumented limits were still present on some of the approved procedures. The problem was discovered when the engineer supervising the surveillance this year used a procedure having the original tolerances as listed in the manual.

Because the manufacturer has gone out of business and all records are in storage, it would be extremely difficult to document the higher specifications at this time. Therefore, the punch gaps have been decreased to a maximum of 0.085 inches.

CORRECTIVE

ACTION:

The punch has been machined to produce a punch gap of 0.085 inches on both M-11701 and M-11702.

The procedures concerning these rupture discs have been reviewed and the correct specifications for the punch gap verified.

Since there is no mechanism for the punch gap measurement to change in service, no further corrective action is anticipated.

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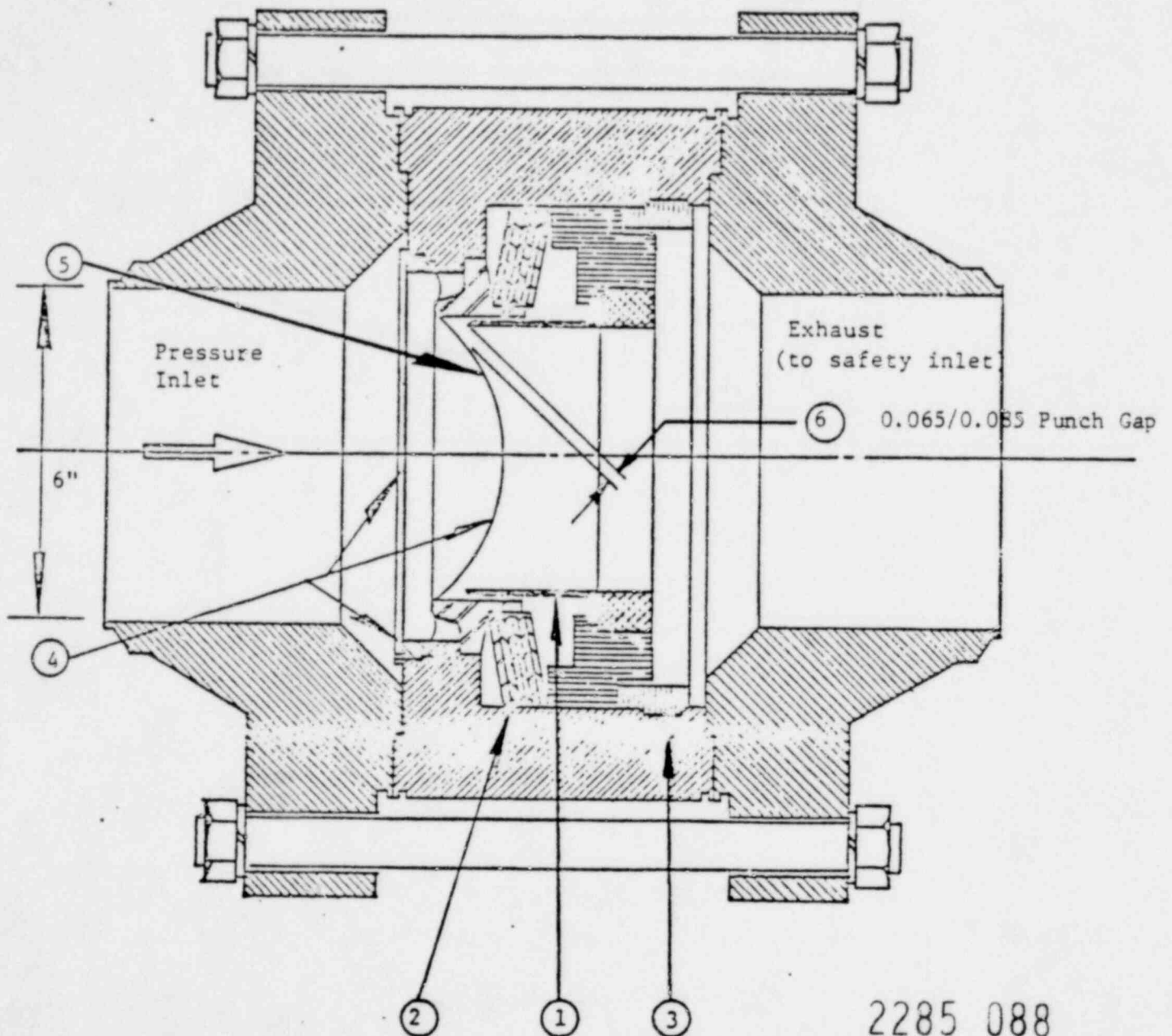


FIGURE 1 - RUPTURE DISC ASSEMBLY

POOR ORIGINAL

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