NRC FORM 366 (7-77)

U. S. NUCLEAR REGULATORY COMMISSION

LICENSEE EVENT REPORT

CONTROL BLOCK: (1) (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

01 LICENSEE CODE: I L Z I S 1 (2) LICENSE NUMBER: 0 0 - 0 0 0 0 0 - 0 0 (3) LICENSE TYPE: 4 1 1 1 1 (4) CAT (5)

CON'T 01 REPORT SOURCE: L (6) DOCKET NUMBER: 0 5 0 0 0 2 9 5 (7) EVENT DATE: 1 0 2 5 8 2 (8) REPORT DATE: 1 1 1 9 8 2 (9)

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

02 #1 Penetration Pressurization (PP) air compressor failed to run during
03 an auto start upon sensing a low PP air supply header pressure. #1 PP
04 air compressor was declared inoperable and this placed the PP system
05 in a degraded mode (TS 3.9.2.D). There were no safety implications
06 since system remained pressurized from IA system and other PP compres-
07 sors were operable. This is the first event of this type.
08

09	SYSTEM CODE	CAUSE CODE	CAUSE SUBCODE	COMPONENT CODE	COMP. SUBCODE	VALVE SUBCODE
	S D (11)	E (12)	F (13)	B L O W E R (14)	X (15)	Z (16)

(17) LER/RO REPORT NUMBER	EVENT YEAR		SEQUENTIAL REPORT NO.		OCCURRENCE CODE	REPORT TYPE		REVISION NO.
	8 2	—	0 3 7	/	0 3	L	—	0

ACTION TAKEN	FUTURE ACTION	EFFECT ON PLANT	SHUTDOWN METHOD	HOURS (22)	ATTACHMENT SUBMITTED	NPRD-4 FORM SUB.	PRIME COMP. SUPPLIER	COMPONENT MANUFACTURER
A (18)	A (19)	Z (20)	Z (21)	0 0 0 0	Y (23)	Y (24)	A (25)	P 1 3 5 (26)

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

10 Failure was caused by damaged drive belts (2 of 4 found broken with
11 burnt marks). They became stretched with age and slipped from the
12 sheave as motor was turning. A new set of belts was installed and
13 compressor operates satisfactorily. Other PP compressors are being
14 investigated for similar problems. No further response is necessary.

15	FACILITY STATUS	% POWER	OTHER STATUS (30)	METHOD OF DISCOVERY	DISCOVERY DESCRIPTION (32)
	E (28)	1 0 0 (29)	NA	A (31)	Operator Observation

16	ACTIVITY RELEASED	CONTENT OF RELEASE	AMOUNT OF ACTIVITY (35)	LOCATION OF RELEASE (36)
	Z (33)	Z (34)	NA	NA

PERSONNEL EXPOSURES

17	NUMBER	TYPE	DESCRIPTION (39)
	0 0 0 (37)	Z (38)	NA

PERSONNEL INJURIES

18	NUMBER	DESCRIPTION (41)
	0 0 0 (40)	NA

LOSS OF OR DAMAGE TO FACILITY (43)

19	TYPE	DESCRIPTION
	Z (42)	NA

PUBLICITY

20	ISSUED	DESCRIPTION (45)	NRC USE ONLY
	N (44)		

8211290749 821119
PDR ADOCK 05000295
S PDR

NAME OF PREPARER Kyung Shim PHONE: 312-746-2084 ext.331

ATTACHMENT TO LER

NO. 82 - 037 / 03 L - 0

COMMONWEALTH EDISON CO.

ZION GENERATING STATION

50-295

Description of Event On 10/25/82, #1 Penetration Pressurization (PP) air compressor failed to run during an auto start upon sensing a low PP air supply header pressure. #1 PP air compressor was declared inoperable, and this placed the PP system in a degraded mode (TS3.9.2.D).

Consequences of Occurrence There were no safety implications since PP system remained pressurized from IA system , and other PP compressors were operable. This is the first event of this type.

Cause of Occurrence The compressor failure was caused by damaged drive belts (2 out of 4 found broken with burnt marks). They became stretched with age and slipped from the sheave as motor was turning. Excessive friction had generated between the two contacting surfaces, and belts finally gave away. During maintenance, another problem was discovered with the compressor - worn out piston rings due to age. Although this was not related to the belt failure problem, worn out rings would certainly have degraded the compressor performance. Other internal components such as packing rings and wiper rings were showing signs of wear due to natural cause, also. The compressors are load tested every refueling outage for proper performance as per Tech Spec Surveillance Requirement 4.9.2.D.

Corrective Actions A new set of belts as well as all worn out internal components have been replaced. The compressor has been load tested, and it operates satisfactorily. The other two compressors will also be load tested to verify operability. No further response is necessary.