

LICENSEE EVENT REPORT

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

0 1 | P | A | T | M | I | 2 | 2 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 0 | 3 | 4 | 1 | 1 | 1 | 1 | 4 | 5

CON'T
0 1 | REPORT SOURCE | L | 6 | 0 | 5 | 0 | 0 | 0 | 0 | 3 | 2 | 0 | 7 | 0 | 4 | 2 | 4 | 7 | 1 | 1 | 1 | 1 | 1 | 1 | 9 | 9

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 | While in Mode 1, a reactor trip occurred causing several main steam relief valves
0 3 | to lift. Due to inadequate design, several steel liners used to protect the bellows
0 4 | in the Discharge Piping were ejected. Because this event was on the secondary side
0 5 | of the plant, and no radiation was released, this event posed no threat to the
0 6 | health and safety of the public.

0 7 | _____
0 8 | _____

0 9 | SYSTEM CODE | CC (11) | CAUSE CODE | B (12) | CAUSE SUBCODE | A (13) | COMPONENT CODE | Z Z Z Z Z Z Z (14) | COMP SUBCODE | Z (15) | VALVE SUBCODE | Z (16)

17 | LER/RO REPORT NUMBER | 7 8 | SEQUENTIAL REPORT NO. | 0 3 4 | OCCURRENCE CODE | 0 1 | REPORT TYPE | T | REVISION NO. | 1 |
ACTION TAKEN | F (18) | FUTURE ACTION | A (19) | EFFECT ON PLANT | C (20) | SHUTDOWN METHOD | Z (21) | HOURS | 0 0 0 0 (22) | ATTACHMENT SUBMITTED | Y (23) | NPRO-3 FORM SUB. | N (24) | PRIME COMP. SUPPLIER | Z (25) | COMPONENT MANUFACTURER | Z C C C (26)

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 | This event was caused by an inadequate design which allowed the use of Bellows
1 1 | Liners qualified for 180 f/sec. steam velocity in a location where velocities up to
1 2 | 950 f/sec. could be experienced. The under-designed bellows liners are being re-
1 3 | placed by liners of an appropriate design.

1 4 | _____
1 5 | FACILITY STATUS | B (28) | % POWER | 0 3 0 (29) | OTHER STATUS | NA (30) | METHOD OF DISCOVERY | C (31) | DISCOVERY DESCRIPTION | Non-Routine Inspection (32)

1 6 | ACTIVITY CONTENT | Z (33) | RELEASED OF RELEASE | Z (34) | AMOUNT OF ACTIVITY | NA (35) | LOCATION OF RELEASE | NA (36)

1 7 | PERSONNEL EXPOSURES | NUMBER | 0 0 0 (37) | TYPE | Z (38) | DESCRIPTION | NA (39)

1 8 | PERSONNEL INJURIES | NUMBER | 0 0 0 (40) | DESCRIPTION | NA (41)

1 9 | LOSS OF OR DAMAGE TO FACILITY | TYPE | D (42) | DESCRIPTION | Various sized pits, dents etc. in bellows and liners (43)

2 0 | PUBLICITY | ISSUED | 44 | DESCRIPTION | Weekly News Release (45) | NRC USE ONLY | 7904190334

NAME OF PREPARED R. A. Lengel

PHONE 929-3601 (215) Ext. 148 2

Attachment to LER 78-34/1T

Following a reactor trip at approximately 1630 on 4-23-78, it was noted that several screens for the main steam relief valve outlet piping were missing or damaged. The subsequent investigation revealed that several of the stainless steel liners for the horizontal expansion bellows in the piping experienced failure in the heat affected area of the weld, and were ejected from the piping when the relief valves lifted. When the trip occurred, the relief valves experienced excessive blowdown. This could have been caused by the liners blocking the relief valve discharge path, thus establishing an uneven loading on the relief valve stem. The valves were removed, and the piping, bellows and liners were inspected; no blockage was found.

All horizontal bellows liners are being replaced with adequately designed liners.

The main steam relief valves are being replaced by valves of a different design. Prior to criticality, the new relief valves will be tested to assure proper blowdown characteristics.

52-751