

LICENSEE EVENT REPORT

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

01 1 L Q A D 1 2 0 0 0 - 0 0 0 - 0 0 0 3 4 1 1 1 1 4 5
7 8 9 LICENSE CODE 14 15 LICENSE NUMBER 25 26 LICENSE TYPE 30 37 CAT 58

CON'T

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

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

02 On November 21, 1983, while performing a receipt inspection of NAMCO Controls limit

03 switches, all seven switches in Lot #00873, with Model No. 180-21302, were found to

04 have been assembled improperly. The model number identifies the switches as

05 rotating clockwise, when in fact, they were found to rotate counter-clockwise. This

06 report was written in accordance with Technical Specification 6.6.B.1.i, to identify

07 a potentially generic defect in Lot #00873 limit switches. The switches, which are

08 used on MSIVs, could also have been found defective

09 during installation or functional testing.

09 SYSTEM CODE C C 11 CAUSE CODE B 12 CAUSE SUBCODE B 13 COMPONENT CODE I N S T R U 14 COMP SUBCODE S 15 VALVE SUBCODE Z 16

17 LER/RO REPORT NUMBER 8 3 21 22 SEQUENTIAL REPORT NO. 0 4 5 24 26 OCCURRENCE CODE 0 1 28 29 REPORT TYPE T 30 31 REVISION NO. 0 32

ACTION TAKEN B 18 Z 19 EFFECT ON PLANT Z 20 SHUTDOWN METHOD Z 21 HOURS 0 0 0 0 37 40 ATTACHMENT SUBMITTED Y 23 NPRD-4 FORM SUB. N 24 PRIME COMP. SUPPLIER L 25 COMPONENT MANUFACTURER N 0 0 7 26

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

10 The cause of the occurrence is apparently an assembly error during manufacturing.

11 The spring had been installed on the opposite side of the switch actuating arm.

12 The limit switches were tagged with Quality Assurance Hold Tags to prevent

13 inadvertent use of the switches. The switches will be repaired at the Station and

14 used as necessary.

15 FACILITY STATUS Z 28 % POWER Z Z Z 29 OTHER STATUS NA 30 METHOD OF DISCOVERY C 31 DISCOVERY DESCRIPTION Special Receipt Inspection 32

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

17 PERSONNEL EXPOSURES NUMBER 0 0 0 37 TYPE Z 38 DESCRIPTION NA 39

18 PERSONNEL INJURIES NUMBER 0 0 0 40 DESCRIPTION NA 41

8312090019 831128
PDR ADOCK 05000254
S PDR

19 LOSS OF OR DAMAGE TO FACILITY TYPE Z 42 DESCRIPTION NA 43

20 PUBLICITY ISSUED N 44 DESCRIPTION NA 45

NAME OF PREPARER E Mendenhall

PHONE 309-654-2241, ext 172

NRC USE ONLY

- I. LER NUMBER: LER/RO 83-45/01T-0
- II. LICENSEE NAME: Commonwealth Edison Company
Quad-Cities Nuclear Power Station
- III. FACILITY NAME: Unit One
- IV. DOCKET NUMBER: 050-254
- V. EVENT DESCRIPTION:

On November 16, 1983, the Storeroom at Quad-Cities Station received 32 limit switches that were ordered on Commonwealth Edison purchase order number 281286 from Namco Controls of Mentor, Ohio. The parts were ordered Safety Related, 10 CFR 21 applicable, and environmentally qualified per the appropriate IEEE Standards. A total of 32 limit switches were ordered, 16 each of clockwise and counter-clockwise direction of rotation of the limit switch arm. Namco Controls Part Number EA-180-21302 indicates clockwise rotation of the actuating arm.

Of the 16 limit switches sent with the EA-180-21302 part number, engraved on the part, there were 9 switches from Lot Number 35398 and 7 switches from Lot Number 00873. Upon receipt of these parts, the Storeroom requested an Electrician assist in the inspection of these parts. That inspection included a continuity check of the switch contacts and a functional check of the limit switch actuator. At this time it was discovered that all 7 limit switches from Lot Number 00873 were incorrectly assembled for counter-clockwise rotation of the limit switch actuating arm.

VI. PROBABLE CONSEQUENCES OF THE OCCURRENCE:

These parts were intended to be used for position indication on the Main Steam Isolation Valves. They provide trip signals to the Reactor Protection System for 10 percent closure of the MSIVs. This scram signal anticipates the pressure and flux transients which would occur when the valves are closed. As assembled, the parts in question would not have performed their intended function. The defective parts, if not identified during the receipt inspection, would have been discovered by Electrical Maintenance during installation when attempting to set the limit switch arm for proper actuation or during the required functional test of the MSIV position indication following repairs. Because of these inspections and testing procedures, the defective parts were not installed in any safety related system.

VII. CAUSE:

The parts in question had the correct (as ordered) part number stamped on the part nameplate. The purchase order, besides giving correct part numbers, also listed numerous specifications for each part ordered including the direction of arm rotation for actuation. Therefore, the supplier apparently sent incorrectly assembled (defective) parts. This incident identifies a potentially generic defect in Namco Controls Part Number EA-180-21302, Lot Number 00873, and is reportable under Technical Specification 6.6.B.1.i.

VIII. CORRECTIVE ACTION:

The immediate corrective action included placing Quality Assurance Hold Tags on each part identified as defective. This will prevent the inadvertent installation of these parts. In accordance with the Company's Quality Assurance Manual, a Discrepancy Record was initiated which will document the corrective actions taken and provide the necessary management reviews.

Following the issuance of the Discrepancy Record, Site Quality Assurance personnel notified the other CEC nuclear station's Quality Assurance Departments to be cognizant of this problem.

A Safety Related Work Request was written to disassemble and repair the defective parts. Upon completion, the parts will be inspected and tested prior to being placed in the Storeroom.



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DMB

NJK-83-438

November 28, 1983

J. Keppler, Regional Administrator
Office of Inspection and Enforcement
Region III
U. S. Nuclear Regulatory Commission
799 Roosevelt Road
Glen Ellyn, IL 60137

Reference: Quad-Cities Nuclear Power Station
Docket Number 50-254, DPR-29, Unit One
Appendix A, Section 6.6.B.1.i

Enclosed please find Reportable Occurrence Report Number RO 83-45/01T-0 for Quad-Cities Nuclear Power Station. This occurrence was previously reported to Region III, Office of Inspection and Enforcement by telephone and by telecopy on November 22, 1983.

This report is submitted to you in accordance with the requirements of Technical Specification 6.6.B.1.i, identifying a potentially generic problem in components important to safety.

Respectfully,

COMMONWEALTH EDISON COMPANY
QUAD-CITIES NUCLEAR POWER STATION

L. J. Hower for
N. J. Kalivianakis
Station Superintendent

NJK:DGC/bb

Enclosure

cc B. Rybak
A. Morrongiello
INPO Records Center

DEC - 2 1983

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