NRC FORM 366 (7-77)

U. S. NUCLEAR REGULATORY COMMISSION

LICENSEE EVENT REPORT

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

(1) (2) LICENSEE CODE: NEFCS1 | LICENSE NUMBER: 0000000000 (3) | LICENSE TYPE: 4111 1 (4) | CAT (5)

CON'T

REPORT SOURCE: L (6) | DOCKET NUMBER: 05000285 (7) | EVENT DATE: 011779 (8) | REPORT DATE: 012479 (9)

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

During steady state power operation it was noted that the A channel of the reactor protective system (RPS) for axial power distribution (APD) trip setpoint was fluctuating in the nonconservative direction. The RPS A channel for APD was bypassed with the three remaining channels still operable.

SYSTEM CODE: IA (11) | CAUSE CODE: E (12) | CAUSE SUBCODE: G (13) | COMPONENT CODE: INSTRU (14) | COMP. SUBCODE: Y (15) | VALVE SUBCODE: Z (16)

(17) LER/RO REPORT NUMBER: EVENT YEAR 79 | SEQUENTIAL REPORT NO. 002 | OCCURRENCE CODE 03 | REPORT TYPE L | REVISION NO. 0

ACTION TAKEN: C (18) | FUTURE ACTION: Z (19) | EFFECT ON PLANT: Z (20) | SHUTDOWN METHOD: Z (21) | HOURS (22): 0000 | ATTACHMENT SUBMITTED: Y (23) | NPRD-4 FORM SUB.: N (24) | PRIME COMP. SUPPLIER: N (25) | COMPONENT MANUFACTURER: B165 (26)

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

The Bell and Howell Potentiometer Module Part No. 384612/001 failed allowing the RPS A channel APD setpoints to fluctuate in the nonconservative direction. The module was replaced, recalibrated and tested and the channel was returned to normal. The RPS will continue to be monitored by both visual inspection and surveillance testing to detect any future failures.

FACILITY STATUS: E (28) | % POWER: 099 (29) | OTHER STATUS (30): NA | METHOD OF DISCOVERY: A (31) | DISCOVERY DESCRIPTION (32): Visual Inspection

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

PERSONNEL EXPOSURES: NUMBER 000 (37) | TYPE Z (38) | DESCRIPTION (39): NA

PERSONNEL INJURIES: NUMBER 000 (40) | DESCRIPTION (41): NA

LOSS OF OR DAMAGE TO FACILITY: TYPE Z (42) | DESCRIPTION (43): NA

PUBLICITY: ISSUED N (44) | DESCRIPTION (45): NA

NRC USE ONLY

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LER 79-002
Omaha Public Power District
Fort Calhoun Station Unit No. 1
Docket No. 05000285

Attachment No. 1

Safety Analysis

The Reactor Protective System (RPS) is so designed that no single failure can prevent the safe and systematic shutdown of the unit if required.

During the time the RPS A channel for Axial Power Distribution (APD) was inoperable, the three remaining RPS channels were operable to perform their design function, providing adequate reactor protection.

The RPS A channel for APD was repaired, calibrated and tested and returned to service; this and all RPS channels will continue to be monitored by both visual inspection and the surveillance testing program to detect any future failures.

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Attachment No. 2

Failure Data

This is the first event of a potentiometer module failure in the reactor protective system.

R. Andrews