



Regulatory

File Cy.

50-249

Commonwealth Edison Company

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WPW Ltr.#252-73

Dresden Nuclear Power Station
R. R. #1
Morris, Illinois 60450
March 30, 1973



Mr. A. Giambusso
Deputy Director for Reactor Projects
Directorate of Licensing
U. S. Atomic Energy Commission
Washington, D. C. 20545

SUBJECT: LICENSE DPR-25, DRESDEN NUCLEAR POWER STATION, UNIT 3,
SECTION 6.6.C.1 OF THE TECHNICAL SPECIFICATIONS.

Dear Mr. Giambusso:

This is to report a condition relating to the operation of the unit in which on March 3, 1973, a Barton differential pressure switch on the Low Pressure Coolant Injection, LPCI, system loop selection logic was found damaged.

PROBLEM AND INVESTIGATION

While conducting calibration checks following a modification to the Barton pressure switches, which added a locking device to the calibration adjustments, a damaged switch was discovered. Barton switch 3-261-35D, which monitors the differential pressure across the 3B recirculation pump and sets up the logic for the LPCI system loop selection circuitry, had jammed in the closed position.

An investigation revealed that a micro-switch internal to the Barton switch was inadvertently damaged during the locking device installation. It is believed the close proximity of the locking device to the micro-switch may have contributed to the inadvertent damaging of the micro-switch.

The differential pressure switches for the LPCI injection loop select circuitry, shown on P&ID M-357, are arranged in a one-out-of-two twice logic array. It would have required the failure of two differential pressure switches to disable the "B" loop injection logic. Since the switch failure did not render the "B" loop inoperable and the redundant "A" loop was available, the safety function of the LPCI system was not jeopardized.

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CORRECTIVE ACTION

Since the micro-switch is believed to have been inadvertently damaged during the locking device installation, the corrective action was to replace and calibrate the damaged Barton switch. In addition, all the other Barton pressure switches on both Units 2 and 3 have been recalibrated after the locking device installation to insure proper switch operation.

Sincerely,

W. P. Worden

W. P. Worden
Superintendent

WPW:do

cc: WPW Ltr. File