

ENCLOSURE 1

NOTICE OF VIOLATION

Duke Power Company
McGuire Nuclear Station

Docket Nos. 50-369 and 50-370
License Nos. NPF-9 and NPF-17

The following violations were identified during an inspection conducted on February 7 - July 3, 1985. The Severity Levels were assigned in accordance with the NRC Enforcement Policy (10 CFR Part 2, Appendix C).

- A. Technical Specification (TS) 3.8.2.1 requires that all four DC sources be operable in Modes 1, 2, 3 and 4.

TS 4.8.2.1.2b states that once per 92 days each 125-volt battery connected cell demonstrate that the float voltage is greater than or equal to 2.13 volts. TS 4.8.2.1.2a requires the float voltage be checked for each pilot cell each seven days.

TS 4.8.2.1.2d states that each 18 months each 125-volt battery bank be demonstrated operable by verifying that it will supply a dummy load of at least 440 amperes for 60 minutes.

Contrary to the above:

1. Contrary to TS 3.8.2.1 and TS 4.8.2.1.2b, battery EVCA was technically inoperable from May 29, 1982 until February 5, 1985 because the actual battery float voltage was not monitored for cells 29 and 45. The apparent surveillance discrepancies were identified on February 1, 1985 and corrective action on battery EVCA was not initiated until February 5, 1985.
2. Contrary to TS 3.8.2.1 and TS 4.8.2.1.2d, on February 7, 1985, all four Vital DC sources were found to be technically inoperable because surveillance testing performed failed to demonstrate system operability in that the March and April 1984 service discharge tests for batteries EVCA, EVCB, EVCC and EVCD were not performed at the current and time specified by TS 4.8.2.1.2d.

This is a Severity Level IV violation (Supplement I).

- B. Technical Specification 6.8.1 requires that procedures be established, implemented and maintained covering the operation and maintenance of safety-related equipment.

Installation drawing MCM 1350.01-1, Rev. A, dated March 12, 1976, specifies a minimum clearance of one-eighth inch between the end cells and the battery rack.

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Contrary to the above, procedures related to battery surveillance and maintenance were inadequate in that:

1. Instructions/guidance relevant to monitoring and duration of single cell charging were not provided resulting in the battery being charged at a voltage higher than recommended by the Vendor for a period of two years.
2. Procedure IP-O-A-3061-01, 125 Volt Vital Battery Weekly/Monthly Inspection and Prevention Maintenance, provided inadequate guidance which allowed the inclusion of an unattached cell in battery EVCA six-cells average temperature calculation on February 23, 1984 and May 19, 1984.
3. Procedure IP-O-A-3061-01 was not followed on January 17, 1985, when the temperature variance of the six cells varied by 9F, exceeding the 5F acceptance criteria of the procedure, and corrective action was not taken. Additionally, water was added to battery EVCA and an equalizing charge was not performed as specified.
4. Procedure IP-O-A-3061-18, Installation and Removal of Jumpers on Battery Cells, was inadequate in that post-modification testing of the newly configured battery was not specified. Additionally, the procedure referred to Drawing MC 1705-01 for technical justification for jumper installation. Drawing MC 1705-01 had been revised in July 1984 and was no longer applicable.
5. Batteries were installed and/or maintained such that end cells were pressing against the battery rack end plate and did not have the 1/8-inch clearance specified by MCM 1350.01-1.

This is a Severity Level IV violation (Supplement I).

- C. 10 CFR 50.59 requires written safety evaluations of changes in the facility as described in the Safety Analysis Report which provides the bases for the determination that the change does not involve an unreviewed safety question.

Contrary to the above, the written safety evaluation performed for Operation of Single Cell Battery Charger, that was employed for attaching single cell chargers to cells 29 and 45, was deficient in that it did not include the bases for seismic considerations, maintaining voltage at higher potential than recommended by the vendor, or maintaining independence of class IE equipment. This information was necessary to determine whether an unresolved safety question was present.

This is a Severity Level IV violation (Supplement I).

Pursuant to 10 CFR 2.201, you are required to submit to this office within 30 days of the date of this Notice, a written statement or explanation in reply, including: (1) admission or denial of the alleged violations; (2) the reasons for the violations if admitted; (3) the corrective steps which have been taken and the results achieved; (4) corrective steps which will be taken to avoid further violations; and (5) the date when full compliance will be achieved.

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Security or safeguards information should be submitted as an enclosure to facilitate withholding it from public disclosure as required by 10 CFR 2.790(d) or 10 CFR 73.21.

Date: **AUG 15 1985**