



THE CLEVELAND ELECTRIC ILLUMINATING COMPANY

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MURRAY R. EDELMAN
SR. VICE PRESIDENT
NUCLEAR

July 30, 1986
PY-CEI/NRR-0511 L

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Perry Nuclear Power Plant
Docket No. 50-440
Additional Change to
Technical Specifications for
Full Power Licensing

Dear Mr. Denton:

This letter supplements our letters dated June 18, 1986 and July 18, 1986 and provides one additional change that the Cleveland Electric Illuminating Company requests be included in the Technical Specifications which will accompany the full-power operating license for the Perry Nuclear Power Plant - Unit 1. This item represents enhancements to the Technical Specifications. The justification and the proposed markup pages are attached.

This change does not affect CEI's ability to safely operate the Perry Nuclear Power Plant-Unit 1 under its current license. Thus, no amendment of the present low-power license is being requested. If you have any questions, please call me.

Very truly yours,

Murray R. Edelman
Senior Vice President
Nuclear Group

Attachments

MRE:njc

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Justification
Technical Specification 3.8.4.2
Reactor Protection System Electric Power Monitoring

Technical Specification 3.8.4.2 is presently applicable at all times. This change request would change the applicability of Specification 3.8.4.2 to Operational Conditions 1, 2, 3, 4^{*}, and 5.

The RPS Electric Power Monitoring Assemblies maintain the voltage and frequency of the output of the RPS MG sets to acceptable values. If the voltage and frequency of the power to the RPS and the containment isolation instruments is maintained within the limits of Surveillance Requirement 4.8.4.2, the assumptions used in the setpoint calculation will remain valid. Thus, confidence in the RPS instrumentation and the isolation actuation instrumentation to actuate at their respective setpoints is assured.

The RPS instrumentation and the isolation actuation instrumentation is only required during specified operational conditions, not at all times. The purpose of the RPS is to:

- a. Preserve the integrity of the fuel cladding.
- b. Preserve the integrity of the reactor coolant system.
- c. Minimize the energy which must be adsorbed following a loss-of-coolant accident, and
- d. Prevent inadvertant criticality.

The purpose of the isolation actuation instrumentation is to mitigate the consequences of accidents by prescribing trip setpoints and response times for the isolation of the reactor systems.

Changing the applicability of Specification 3.8.4.2 will not reduce the effectiveness of either the RPS instrumentation or the isolation actuation instrumentation. This change will only make the applicability of the power supply for this instrumentation consistent with the applicability for the instrumentation itself.

* Must be demonstrated OPERABLE prior to control rod withdrawal.

ELECTRICAL POWER SYSTEMS

REACTOR PROTECTION SYSTEM ELECTRIC POWER MONITORING

LIMITING CONDITION FOR OPERATION

3.8.4.2 Two RPS electric power monitoring assemblies for each inservice RPS MG set or alternate power supply shall be OPERABLE.

APPLICABILITY: ~~At all times:~~ OPERATIONAL CONDITIONS 1, 2, 3, 4*, and 5.

ACTION:

- a. With one RPS electric power monitoring assembly for an inservice RPS MG set or alternate power supply inoperable, restore the inoperable power monitoring assembly to OPERABLE status within 72 hours or remove the associated RPS MG set or alternate power supply from service.
- b. With both RPS electric power monitoring assemblies for an inservice RPS MG set or alternate power supply inoperable, restore at least one electric power monitoring assembly to OPERABLE status within 30 minutes or remove the associated RPS MG set or alternate power supply from service.

SURVEILLANCE REQUIREMENTS

4.8.4.2 The above specified RPS electric power monitoring assemblies shall be determined OPERABLE:

- a. By performance of a CHANNEL FUNCTIONAL TEST each time the unit is in COLD SHUTDOWN for a period of more than 24 hours, unless performed within the previous 6 months, and
- b. At least once per 18 months by demonstrating the OPERABILITY of over-voltage, under-voltage and under-frequency protective instrumentation by performance of a CHANNEL CALIBRATION including simulated automatic actuation of the protective relays, tripping logic and output circuit breakers and verifying the following setpoints.
 1. Over-voltage \leq 132 VAC,
 2. Under-voltage \geq 108 VAC, and
 3. Under-frequency \geq 57 Hz.

* Must be demonstrated OPERABLE prior to control rod withdrawal.