

Docket Nos.: 50-254  
and 50-265

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Mr. L. D. Butterfield, Jr.  
Nuclear Licensing Manager  
Commonwealth Edison Company  
Post Office Box 767  
Chicago, Illinois 60690

Dear Mr. Butterfield:

SUBJECT: 24/48 VDC POWER SUPPLY CLASSIFICATION AND TS STATUS  
(TAC NOS. 57784 AND 57785)

The purpose of this letter is to summarize discussions between NRR, Region III, and Commonwealth Edison Company (CECo) concerning safety-related classification of 24/48 VDC power supply components and/or system, and to recommend the manner in which this system should be classified.

The 24/48 Volt DC system supplies electrical power to source range and intermediate range neutron flux instrumentation which are counted upon to provide the post accident neutron monitoring capability prescribed by Regulatory Guide (RG) 1.97, "Instrumentation for Light Water Cooled Nuclear Power Plants to Assess Plant Conditions During and Following an Accident". RG 1.97, Revision 2, designates neutron flux as a key Type B variable which must be measured by instrumentation that meets Category 1 design and qualification criteria. Category 1 instrumentation is required to be energized from station Class 1E standby power sources in accordance with RG 1.32, "Criteria for Safety-Related Electric Power Systems for Nuclear Power Plants".

On June 12, 1984 the Commission issued Quad Cities Nuclear Power Station (QCNP) an Order confirming CECo commitments regarding emergency response capability. In accordance with the timetable established by this order, CECo issued a letter dated August 1, 1985 which documented their review of existing instrumentation against the requirements of RG 1.97 and described proposed actions for compliance. This letter stated that the 24/48 VDC electrical bus, which supplies power to neutron flux monitoring instrumentation, complies with RG 1.97.

To date, only the batteries of the 24/48 VDC system at QCNP have been upgraded to Class 1E standards. Other 24/48 VDC power supply components (e.g. battery chargers) are not Class 1E. Furthermore, neither the 24/48 VDC system or any of its components are currently classified as safety-related.

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To be consistent with RG 1.97 Category 1 design and qualification criteria, the staff recommends a safety-related classification for the 24/48 VDC power system. Accordingly, CECO should reclassify 24/48 VDC batteries, and other 24/48 VDC power supply components as appropriate, to comply with RG 1.97. Communications with Station and Corporate engineering personnel indicate the safety-related classification status of 24/48 VDC power supply components and/or system at QCNPS is presently under evaluation.

Thierry Ross, Project Manager  
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Mr. L. D. Butterfield, Jr.  
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