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October 6, 1988

Nuclear Regulatory Commission  
Document Control Desk  
Washington, DC 20555

**DOCKET 50-255 - LICENSE DPR-20 - PALISADES PLANT -  
ADDITIONAL INFORMATION SUPPORTING RPS TECHNICAL  
SPECIFICATIONS CHANGE REQUEST**

In response to NRC questions on the qualifications of optical isolation devices for non-class 1E to class 1E isolation being installed as a part of the ongoing Reactor Protection System modification, the following information is provided.

One type of isolator utilized contains the Hewlett Packard 6N137 optical isolator which is similar to the Hewlett Packard HCPL-2630 isolator. The HCPL-2630 and 6N137 isolators have the same detector, same LED, and are manufactured by the same assembly process. The HCPL-2630 has been previously tested and found to be an acceptable class 1E isolation device, thus, there is no need for further testing of the 6N137. The maximum credible fault that the non class 1E side of the 6N137 device could be exposed to is 125 volts direct current which is fused at 10 amps. This is less than the fault the HCPL-2630 was exposed to during its qualification testing.

The other type of isolator utilized is the OPT022 ODC5AQ optical isolator which is similar to the OPT022 DC200P isolator. We have confirmation from OPT022 that the ODC5AQ and DC200P isolators are electrically the same. Differences exist only in the mounting method and control voltage level. The DC200P has been previously tested and found to be an acceptable class 1E isolation device, thus, there is no need for further testing of the ODC5AQ. The maximum credible fault that the non-class 1E side of the ODC5AQ could be exposed to is 125 volts direct current which is fused at 3 amps. This is less than the fault the DC200P was exposed to during its qualification testing.

*James L. Kuemin*

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OC1088-0162-NL04

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