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SUBJECT: Advises NRC that all mods to correct human engineering discrepancies per Reg Guide 1.97 completed except for items identified in util 921118 ltr. Util will not use wide-range portion of instruments until problem resolved.

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DUKE POWER

May 10, 1993

U.S. Nuclear Regulatory Commission
Attention Document Control Desk
Washington, DC 20555

Subject: Duke Power Company
Oconee Nuclear Station
Docket No. 50-269
Detailed Control Room Design Review (DCRDR)
Regulatory Guide 1.97

By letter of April 20, 1988, Duke committed to have all Regulatory Guide 1.97 and Human Engineering Discrepancy (HED) modifications on Unit 1 completed by the beginning of cycle 15. This letter is to inform NRC the last of the Unit 1 modifications, with the exception of those items identified in our November 18, 1992 letter which have been determine to be unnecessary, and the Low Pressure Service Water flow instruments to the Low Pressure Injection Coolers, identified in Duke's April 29, 1993 letter, have been completed.

For your information, in the process of performing the calibration at 100% power on Units 1 and 3 instrumentation installed to satisfy the Regulatory Guide 1.97 variable, Neutron Flux, addressed on Page 5-27 of Duke's September 28, 1984 response to Regulatory Guide 1.97; we found an instrument error problem. When the electrical cabinet doors are opened and a metal piece covering the circuit board is removed, the air flow change causes an instrument drift. This error is less than 2% of the 10.3 decade span and is mainly detectable on the computer display or during calibration using digital instruments, but can also be seen on the Control Room indicator. It is most noticeable when reactor power is at 100% and can result in a reading as high as 150% power. The indication returns to normal when the cabinet is closed. This error only affects the wide range portion of these instruments and not the power range instruments. Duke is working with the vendor to resolve this problem and expects to have a resolution within the next 3 to 6 weeks. Until this problem is resolved, Duke will not use the wide range portion of these instruments and will continue to use the original instrumentation monitoring this variable.

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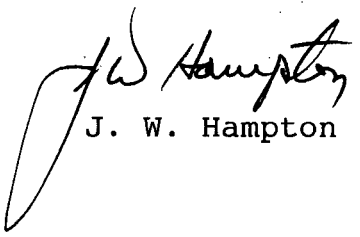
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If you have questions or need further information, please contact
M. E. Patrick at (803) 885-3292.

Very truly yours,



J. W. Hampton

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