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SUBJECT: Reports error identified in previous Kewaunee LBLOCA analysis by Siemens Power Corp on 960925. Change in PCT for temp calculated in analysis of record is greater than 50 F. Re-analysis performed correcting PCT to 2044 F.

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10 CFR 50.46

U.S. Nuclear Regulatory Commission
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Washington, D.C. 20555


Ladies/Gentlemen:

Docket 50-305
Operating License DPR-43
Kewaunee Nuclear Power Plant
Emergency Core Cooling System Analysis

On September 25, 1996, Wisconsin Public Service Corporation (WPSC) was notified by the Siemens Power Corporation that an error had been identified in a previous Kewaunee large break loss of coolant accident (LBLOCA) analysis. This error is being reported in accordance with 10 CFR 50.46(a)(3)(ii), because the change in peak cladding temperature (PCT) from the temperature calculated in the analysis of record (AOR) is greater than 50°F.

The RODEX2 computer code is used in performing the AOR for the LBLOCA at Kewaunee. Siemens discovered that the RODEX2 calculation performed in 1986 had not correctly identified the maximum initial stored energy used in the LBLOCA analysis limiting case; and that this incorrect energy has been propagated in the analysis since 1986. A re-analysis was performed by Siemens with the post-1991 reflood model using the correct stored energy and as-built resinter density change data. The actual affect on the PCT was determined to be a reduction of 6.5°F relative to the AOR PCT; and therefore, the corrected PCT is 2044°F. The acceptance criteria of 10 CFR 50.46(b) continue to be satisfied.

Sincerely,


Mark L. Marchi
Manager - Nuclear Business Group

PRR

cc - US NRC - Region III
US NRC Senior Resident Inspector

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