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SUBJECT: Forwards changes to ONS Unit 3 Cycle 16 reload rept which addresses new LOCA linear heat rate limit analyses performed for Mark B10T fuel due to change in fuel rod pre-pressure described in util 950313 ltr. TS bases rev also encl.

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DUKE POWER

May 2, 1995

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

Subject: Oconee Nuclear Station
Docket Nos. 50-269, -270, -287
Unit 3 Cycle 16 Reload Technical Specifications
Supplement 4

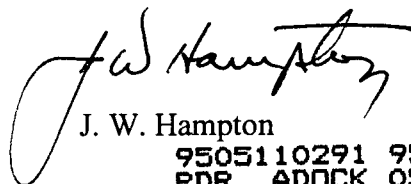
An amendment request was submitted on November 22, 1994 to support operation of Unit 3 at full rated power during Cycle 16. On March 13, 1995, Duke Power submitted additional information describing a change in the pre-pressure of the Batch 18 fuel. Revised LOCA linear heat rate limit analyses for the Mark B10T fuel have been performed due to this change in the fuel rod pre-pressure.

The analyses utilize the approved LOCA Evaluation Model outlined in BAW-10104PA, Rev. 5 and the applications topical outlined in BAW-10103A, Rev. 3. Fuel performance input data is based on the TACO3 computer code (BAW-10162PA). The pin prefill pressure for the Batch 18 fuel is 370 psia versus a prefill pressure of 245 psia used in the previous LOCA analyses. The increased pin pressure results in earlier cladding deformation during blowdown. The plastic deformation reduces the gap conductance and results in higher fuel temperatures at the end of blowdown. The linear heat rate must be reduced at the upper elevations to reduce the initial fuel temperatures and offset detrimental effects of the cladding plastic deformation.

Analyses have been completed to establish LOCA linear heat rate limits for the Mark B10T fuel for up to 25,000 MWD/mtU. Attachment 1 provides changes to the Oconee 3 Cycle 16 Reload Report which address the new LOCA analyses. Attachment 2 provides a change to the bases of the Technical Specifications which address the new LOCA limits for the fresh Batch 18 fuel.

This additional information does not affect the conclusions of the previously submitted No Significant Hazards Consideration Evaluation and Environmental Impact Analysis. Please contact J. E. Burchfield at (803) 885-3292 if you have any questions.

Very truly yours,



J. W. Hampton

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May 2, 1995

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