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U. S. Nuclear Regulatory Commission  
Attention: Document Control Desk  
Washington, DC 20555-0001

Subject: Duke Energy Corporation  
Oconee Nuclear Station, Unit 3  
Docket No. 50-287  
End-of-Cycle-19 Steam Generator Tube Inspection -  
Report on Indication of Circumferential Defects

The Oconee Facility Operating License, DPR-55, License Condition No. 5, requires that following each inservice inspection of Steam Generator (SG) tubes, the Nuclear Regulatory Commission be provided information concerning any circumferential crack indications identified during the inspection. The information specified by the License Condition is provided below:

1. Describe indications of circumferential cracking in the secondary side roll (lower roll in the upper tubesheet or upper roll in the lower tubesheet) if rerolled.

One tube with two circumferential indications was identified in the upper transition of a re-rolled tube. The indications had an arc length of 92 and 42 degrees with a maximum depth of 98% and 96% through wall (TW) respectively. The tube was plugged.

2. Describe indications of circumferential cracking in the original roll or heat affected zone adjacent to the tube-to-tubesheet seal weld if no reroll is present.

Three (3) tubes had circumferential indications that had not been previously re-rolled. All were located in the clad area near the heat-affected zone of the tube-to-tubesheet weld. All three tubes were rerolled.

None of the above tubes were predicted to fail due to the estimated LBLOCA axial load.

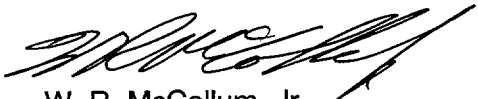
3. Provide the best-estimate total leakage that would result from an analysis of the limiting Large Break Loss of Coolant Accident (LBLOCA) based on circumferential cracking in the original tube-to-tubesheet rolls, tube-to-tubesheet rerolls, and heat affected zones of seal welds as found during each inspection.

The best estimate of the above-described leakage is 0.2 gpm based on circumferential indications in the rerolled tubes. This estimate leakage would maintain offsite dose well below the limits of 10 CFR 100.

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file'd 01/17/02

Please contact Robert Douglas at 864-885-3073 with any questions regarding this submittal.

Very Truly Yours,



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