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SUBJECT: Discusses status of heat exchangers identified by listed safety related functions served by low pressure svc water sys, per NRC request.

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April 6, 1987

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

Subject: Oconee Nuclear Station  
Docket Nos. 50-269, -270, -287

Dear Sir:

Recent testing of the heat exchangers associated with the Low Pressure Injection (LPI) System and the Reactor Building Cooling Unit (RBCU) System have indicated degraded performance. This degradation of performance has been attributed to fouling of the coolers by the raw lake water supplied by the Low Pressure Service Water (LPSW) System. Duke has discussed this situation with members of the NRC Staff, and the Staff has requested additional information regarding the other safety-related coolers serviced by the LPSW system. The safety-related functions served by the LPSW system are (FSAR Section 9.2.2):

- (a) Reactor Building Cooling Units (RBCU)
- (b) Decay Heat Removal (DHR) Coolers
- (c) High Pressure Injection Pump (HPIP) motor bearing coolers
- (d) Motor Driven Emergency Feedwater Pump (MDEFWP) motor air coolers
- (e) Turbine Driven Emergency Feedwater Pump (TDEFWP) turbine bearing oil coolers

The subsequent paragraphs provide a discussion of the status of the heat exchangers identified by (c) through (e) above.

The High Pressure Injection Pump Motor Coolers were removed from the Preventive Maintenance (PM) Program in September of 1985. The bases for this is as follows: The coolers are made of approximately 25 turns of 1/2" copper tubing. The elbows on the inlet and outlet are welded and partial motor disassembly would be required to remove the cooling coils. The coolers are equipped with flow gauges. A monthly flow test is performed. If the flow test fails, the cooling coils are replaced. The piping supplying these coolers has been changed from carbon steel to stainless steel which will help prevent any build-up of corrosion products.

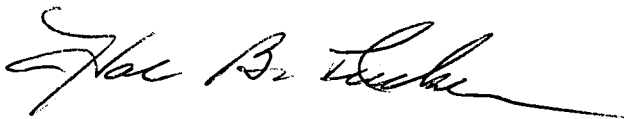
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The Motor Driven Emergency Feedwater Pump Motor Coolers are similar in configuration to the High Pressure Injection Pump Motor Coolers. They are also not on the PM Program because the coils cannot be readily cleaned. A flow test is performed, and the coils are replaced if the flow test fails.

The Emergency Feedwater Pump Turbine Oil Coolers, (one per unit) are on a schedule by which they are opened, cleaned, and inspected each refueling outage. The inlet and outlet piping to the Unit 1 cooler has been changed from carbon steel to stainless steel to reduce build-up of corrosion products. This modification will also be performed on Units 2 and 3.

Very truly yours,



Hal B. Tucker

PFG/17/sbn

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