

DUKE POWER COMPANY

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June 12, 1985

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Attention: Ms. E. G. Adensam, Chief
Licensing Branch No. 4

Subject: McGuire Nuclear Station
Docket Nos. 50-369 and 50-370
Receipt, Possession, and Storage of ONS Fuel Assemblies
License Amendments

Dear Mr. Denton:

My letter of April 3, 1985 (as supplemented by my letter dated May 14, 1985) submitted proposed license amendments to facility operating licenses NPF-9 and NPF-17 for McGuire Nuclear Station Units 1 and 2, respectively. The amendments seek to incorporate into the McGuire Unit 2 license authority to receive, possess and store irradiated Oconee Nuclear Station fuel assemblies under the same conditions as is presently authorized by the McGuire Unit 1 license.

With regard to the proposed amendments, the following information is provided to further clarify and support Duke's position on the impacts of this proposed change.

- With respect to the overall impacts of eventual off-site transportation of the 300 irradiated Oconee assemblies, the proposed amendment will have no effect whatsoever. Impacts due to off-site transportation are directly related to total assemblies shipped from a given location. For purposes of off-site travel, the location of the 300 Oconee assemblies will not change with this proposed amendment.
- The on-site path of travel for shipments of irradiated Oconee fuel going in to the McGuire Unit 2 fuel pool will be identical to the path followed by currently approved delivery to the Unit 1 pool with one exception. Unit 2 deliveries will require an additional 1000 feet of travel outside and around the auxiliary building to access the Unit 2 spent fuel pool loading area. This extra 1000 feet corresponds to the route that would be followed in moving McGuire spent fuel between the Unit 1 and Unit 2 spent fuel pool. The environmental impact of transporting spent fuel along this route has been previously evaluated (Amendment Nos. 25 (Unit 1)/ 6 (Unit 2)). Additionally, under no circumstances will any single shipment of spent fuel from Oconee be divided between the two McGuire spent fuel pools.

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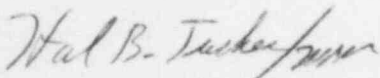
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- With respect to the overall impact of occupational radiological exposure, this proposed amendment is completely enveloped by previous worse case analyses referenced in either the final appeal board decision in 1981 or in the more recent amendment request and subsequent approval (Amendment Nos. 35 (Unit 1)/16 (Unit 2)) allowing for the rerack of both McGuire spent fuel pools. Storage of all 300 Oconee assemblies in one location would not be as impacting as the worse case situations looked at in these earlier analyses.
- As long as the maximum number of Oconee assemblies shipped to the McGuire Station remains at 300, as required above, no cumulative adverse environmental impacts would be created as a result of shipping Oconee fuel to both McGuire spent fuel pools rather than just one.
- Radiological and non-radiological (thermal) releases from the McGuire Nuclear Station will not be increased as a result of the proposed amendment. Storage of the 300 Oconee assemblies in two rather than one pool at the site will not increase the radionuclide concentration or the decay heat load in either pool over what has been previously analyzed.

This matter has previously been discussed in Telecons between Mr. Darl Hood of your staff and Mr. P. B. Nardoci et. al. (DPC) on June 11 and 12, 1985, during which this additional information was requested with respect to the environmental impact statement being prepared for these amendments. Should any further information be required, please advise.

Very truly yours,



Hal B. Tucker

PBN/mjf

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