BIRKEL

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JAN 04 1978

Docket Nos. 50-369
and 50-370

Duke Power Company
ATTN: Mr. William O. Parker, Jr.
Vice President, Steam Production
P. O. Box 2178
422 South Church Street
Charlotte, North Carolina 28242

Gentlemen:

SUBJECT: STORAGE OF OCONEE SPENT FUEL AT THE MCGUIRE NUCLEAR STATION

In Revision 24 of the FSAR for the McGuire Nuclear Station, you proposed the storage of Oconee spent fuel at the McGuire Station. We are reviewing this proposal and have determined that we need additional information to complete our evaluation. The enclosure describes the required information.

We would appreciate an early response in order to continue our review.

Sincerely,

Original signed by
Karl Kniel

Karl Kniel, Chief
Light Water Reactors
Branch No. 2
Division of Project Management

Enclosure:
Request for Additional
Information

ccs w/enclosure:
See page 2

DPM:LWR #2	DPM:LWR #2
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ENCLOSURE

JAN 04 1978

AUXILIARY SYSTEMS BRANCH
REQUEST FOR ADDITIONAL INFORMATION
MCGUIRE NUCLEAR STATION, UNITS 1&2
DOCKET NOS. 50-369/370

10.24 (9.1.4)

a. Demonstrate that the insertion of the proposed spacer in the storage rack will not block or restrict the fluid flow necessary for spent fuel decay heat removal.

b. Demonstrate that the location and method of attaching the 5-1/2" spacers in the McGuire fuel racks do not nullify the McGuire fuel rack seismic Category I design. The effect of gaps, sloshing water, and increase of effective mass and damping due to submergence in water should be considered. Provide drawings to show the location and means of attaching the spacer in the storage rack.

c. Describe the measures that will be taken to assure that only Oconee fuel assemblies can be stored in the storage rack locations where the 5-1/2" spacers are inserted, and how to prevent McGuire fuel being stored in such locations inadvertently.

d. Discuss the adverse consequences of storing the McGuire fuel assemblies in location which are allocated for Oconee fuels, i.e., locations where 5-1/2" spacers are attached.

10.24 Discuss the consequences if one or more of the 5-1/2" spacers were not in place when the Oconee fuel bundle is inserted into a spent fuel rack.

e. (RSP) Indicate the maximum quantity of Oconee spent fuel assemblies that will be stored in the McGuire facility. Will there be sufficient storage space for emergency unloading of an entire McGuire cone following its startup?

f. Demonstrate that the special fuel handling tool for Oconee fuel will have the same seismic and quality group classification as McGuire fuel handling equipment. In addition, demonstrate that the special handling tool is capable of holding its load during a seismic event.

g. Describe the hoist which will be used to handle Oconee spent fuel assemblies. Demonstrate that the maximum uplift force of the hoist will not exceed the design limit of the McGuire spent fuel storage rack or the Oconee spent fuel assembly.

h. You indicate that a portion of the Oconee fuel assembly would extend above the fuel rack when stored in the McGuire facility. Provide the results of an analysis

indicating the expected amount of fuel damage as a result of dropping either a McGuire or Oconee fuel bundle onto the portion of the Oconee fuel bundle extending above the fuel racks in the spent fuel.