

To DCS 11/30/82
Return to L Tyon 396-88

NOV 26 1982

FCUP:MHK
70-2964, 70-2965

Consumers Power Company
ATTN: James W. Cook
Vice President - Projects, Engineering,
and Construction
1945 West Parnall Road
Jackson, MI 49201

Gentlemen:

We have reviewed your June 22, 1982 application for licenses to receive, inspect, possess, store, and transfer fresh fuel assemblies at Midland Plant Units 1 and 2. Enclosed are requests for additional information which are necessary for us to complete the review. We will continue our review upon receipt of the information.

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Mark H. Killinger
Uranium Process Licensing Section
Uranium Fuel Licensing Branch
Division of Fuel Cycle and
Material Safety, NMSS

Enclosure: As stated

cc: Dale Wuokko

Distribution:

Docket No. 70-2964 70-2965

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DATE	11/23/82	11/23/82	11/23/82	11/23/82		

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New Fuel Storage Areas

Based on the information provided, we are unable to confirm that k-effective for the new fuel storage arrays will be subcritical if the arrays are immersed in low density moderators (mist). For us to continue our review, we require the following:

1. A legible drawing showing the relative locations of the new fuel storage areas and the spent fuel pool.
2. If the stainless steel checker plates on top of the vaults are designed to preclude low density moderators in the new fuel storage areas, please provide a description of the plates, including drawings, and administrative controls to be used to assure against mist in the vaults.
3. If the checker plates are not designed to preclude mist in the vaults, please provide physical dimensions and spacing of the stainless steel cans surrounding each fuel assembly. Also, provide the configuration of fuel assemblies in each of the two areas, including information on spacing between assemblies.

Spent Fuel Pool

We are unable to determine the chemical and physical properties of the Boraflex or the number of Boraflex sheets in the storage racks. Please provide the following information:

1. An expanded drawing of Q&R Figure 4A-1 of Exhibit B-IV (spent fuel storage racks). We are especially interested in whether there are one or two Boraflex sheets between assemblies.
2. The physical and chemical properties of the Boraflex used in the spent fuel racks, including the density and weight percentages of different elements and compounds.

General

1. Please provide the maximum enrichment desired on the license.

2. We understand from the application (paragraphs 1.2.1 and 1.2.3) that upon receipt, the fuel assemblies will be moved through the following areas: first, the fuel assemblies may be stored in their shipping containers in a temporary controlled access area; second, they will be placed in the fuel handling and storage areas; finally, they will be transferred for extended storage in both the New Fuel Storage Vaults and the Spent Fuel Pool. Please confirm that whenever more than 20 full shipping containers are on site, arrays of more than 20 containers will be spaced at least 20 feet, edge-to-edge, from other fuel assemblies or arrays of containers.

Paragraph 2.2.4 of the application states that four fuel assemblies could be located outside approved storage racks or shipping containers. Please confirm that no two assemblies will be within six feet of each other at any time, especially considering possible relative locations when one assembly is in the New Fuel Elevator.

3. If the fuel assemblies are in plastic dust wrappers, please describe controls to assure drainage from the wrappers will occur.
4. Please confirm that lost or stolen material will be reported in accordance with 10 CFR Part 70.52 as well as 10 CFR Part 20.402.