

General Offices: 212 West Michigan Avenue, Jackson, Michigan 49201 • Area Code 517 788-0550

April 7, 1969

Regulatory File Cy. Re: Docket 50-155 DPR-6 7EK

Dr. P. A. Morris, Director Division of Reactor Licensing United States Atomic Energy Commission Washington, DC 20545

Dear Dr. Morris:

Attention: Mr. D. J. Skovholt

Enclosed herewith are one original and twenty (20) conformed copies of a Special Report SR-10 covering the performance evaluation of the centermelt fuel after the first period of irradiation. This formal report follows a number of oral presentations to members of your staff and represents a complete summary of all the data collected to date.

The report concludes that (a) the fuel performed very satisfactorily and remarkably close to design expectations from the standpoint of operation with central UO_2 melting and (b) that the unique failure of the two rods in the powder centermelt fuel was caused by a peculiar set of flow and power distribution conditions. Tests show that the anomalous flow and power distribution conditions can be remedied with a straightforward fix, as outlined in the attached report.

The amount of detail contained in the report is due in part to the near simultaneous, parallel demand to report the results comprehensively to the program sponsors, EURATOM and AEC-RDT, and General Electric has attempted to conserve time and funds by preparing a single document to serve both purposes. Thus, essentially all of this special report will be published in a few months as part of the semiannual progress report on the R&D program.

Contingent upon the concurrence of your staff, it is our intention to proceed with the fix and continue the irradiation of the centermelt fuel in the hope of safely meeting the goals of the R&D program. We would like to arrange a meeting regarding this special report once you and your staff have had an opportunity to review it.

Yours very truly,

het l. Howele

Robert L. Haueter Assistant Electric Production Superintendent - Nuclear

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Consumers Power Company	APEIL 7, 1968		10, 1969	12	16
Jackson, Michigan (Robert L. Kaueter)	LTR. MEMO:		EPORT:	OTHER	
To: Dr. Peter A. Morris	ORIG.: CC: OTHER: 1 20 COAf'd CYB				
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