



Consumers
Power
Company

James W Cook

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July 18, 1983

Harold R Denton, Director
Office of Nuclear Reactor Regulation
Division of Licensing
US Nuclear Regulatory Commission
Washington, DC 20555

MIDLAND ENERGY CENTER
MIDLAND DOCKET NOS 50-329, 50-330 -
SER OPEN ITEM RELATED TO CRACKING IN THE
REACTOR COOLANT SYSTEM MAKEUP NOZZLES -
FILE 0505.16, M1.9 SERIAL 23735

REFERENCE J W COOK LETTER TO H R DENTON (NRC) SERIAL 22343 DATED APRIL 13,
1983

This letter provides information on the subject of reactor coolant system makeup (MU) nozzles. The information was requested by the NRC during a telephone conference call on July 13, 1983, and responds to topics related to Open Item Number 8 of the Midland SER.

The referenced letter documents those actions already taken by the Company to address the issue of makeup nozzle cracking. In order to resolve the SER Open Item, the design specifications for the minimum continuous makeup flow need to be specified. Accordingly, Consumers Power Company commits to maintaining a minimum continuous makeup flow of between 1.5 and 3 gpm. At this flow rate, flow and thermal stratification should not occur in the makeup line, thereby avoiding thermal fatigue of the MU nozzle assembly. The basis for this conclusion is contained in the B&W report to Consumers Power Company which was enclosed with the above referenced letter. That report is titled "Babcock & Wilcox 177 Fuel Assembly Owner's Group Safe End Task Force Report on Generic Investigation of HPI/MU Nozzle Component Cracking," B&W Document Number 77-1141514-00.

It is expected that this information should provide the NRC with the information necessary to complete SER Open Item Number 8.

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CONSUMERS POWER COMPANY
Midland Units 1 and 2
Docket No 50-329, 50-330

Letter Serial 23735 Dated July 18, 1983

At the request of the Commission and pursuant to the Atomic Energy Act of 1954, and the Energy Reorganization Act of 1974, as amended and the Commission's Rules and Regulations thereunder, Consumers Power Company submits information on continuous makeup flow to reactor coolant system makeup nozzles.

CONSUMERS POWER COMPANY

By J W Cook
J W Cook, Vice President
Projects, Engineering and Construction

Sworn and subscribed before me this 19th day of July 1983.

Beverly A. Avery
Notary Public
Jackson County, Michigan

My Commission Expires January 16, 1985