



Consumers  
Power  
Company

Regulatory Docket File

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

May 25, 1977

Director of Nuclear Reactor Regulation  
Att: Mr Don K Davis, Acting Branch Chief  
Operating Reactor Branch No 2  
US Nuclear Regulatory Commission  
Washington, DC 20555



DOCKET 50-155 - LICENSE DPR-6 -  
BIG ROCK POINT PLANT - REQUEST  
FOR T/S CHANGE - REMOVAL OF  
RADWASTE CONCENTRATOR SYSTEM

Transmitted herewith are three (3) original and thirty-seven (37) conformed copies of a request for a change to the Technical Specifications of License DPR-6, Docket 50-155, issued to Consumers Power Company on May 1, 1964 for the Big Rock Point Plant.

The purpose of this request is to allow a modification to the liquid radioactive waste collection system. The proposed change would allow replacing the presently installed radwaste concentrator, condenser and associated piping and instrumentation with two cartridge filter units. The purpose of this modification is to conform to standards established by the State of Michigan NPDES permits whereby the discharge of total suspended solids is limited to a 30 mg/l daily average, and a 100 mg/l daily maximum. These limitations and, therefore, the proposed modification must be implemented by July 1, 1977.

Thus, it is requested that approval of this Technical Specifications change request be granted by June 22, 1977.

David A Bixel  
Nuclear Licensing Administrator

CC: JGKepler, USNRC

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CONSUMERS POWER COMPANY

Docket 50-155

Request for Change to the Technical Specifications

License DPR-6

For the reasons hereinafter set forth, it is requested that the Technical Specifications contained in Provisional Operating License DPR-6, Docket 50-155, be changed as described in Section I, below.

I. Changes

- a. Delete Section 6.5.2(c).
- b. From the discussion contained at the end of Section 6.5.2, delete the terms: "Concentrator feed pump" and "concentrator."

NOTE: Revised Page 66 is attached to the end of this submittal.

II. Discussion

Effective July 1, 1977, Consumers Power Company is required to conform to the total suspended solids discharged requirements of the Federal Water Pollution Control Act of 1972 as utilized by the State of Michigan in issuing NPDES permits. In order to meet these requirements, it is necessary to modify the liquid radioactive waste collection system. In general, the modifications would consist of removing the radwaste concentrator, the concentrator feed pump, the concentrator condenser and either removing or blanking the associated piping. In place of the removed equipment, two cartridge filter units will be installed. This new installation will allow taking a suction on either the chemical waste receiver or the dirty waste receiver tanks (No 1 or No 2) and recirculating the contents of the tanks through the filter assemblies until the required total suspended solids level is reached. The filter assemblies will be monitored and alarmed, thereby allowing rapid operator action, if necessary. Past operating experience indicates that the expected activity levels are low. Therefore, reasonably free access to the equipment is assured. If any release of activity did occur, it would be confined to the radwaste room.

The effect of this change would be to lower the discharge levels of suspended solids to within acceptable limits, and to provide further reduction in liquid waste radioactivity levels. The system will be flexible enough to allow varied cartridge filter sizes to conform to the requirements of any filtration process necessary. The radwaste concentrator at Big Rock Point has not proved satisfactory and has not been used at all for several years. Thus, it is requested that the planned modifications be approved and the applicable Technical Specifications be changed.

III. Conclusion

Based on the foregoing, both the Big Rock Point Plant Review Committee and the Safety and Audit Review Board have concluded that this change does not involve an unreviewed safety question.

CONSUMERS POWER COMPANY

By Stephen H. Howell  
Stephen H. Howell, Vice President

Sworn and subscribed to before me this 25th day of May 1977.

Sylvia B. Ball  
Sylvia B. Ball, Notary Public  
Jackson County, Michigan  
My commission expires April 13, 1980.