

CONSUMERS POWER COMPANY  
Docket 50-155  
Request for Change to the Technical Specifications  
License DPH-6

For the reasons hereinafter set forth, it is requested that the Technical Specifications contained in the Facility Operating License DPR-6, Docket 50-155, issued to Consumers Power Company on May 1, 1964, for the Big Rock Point Plant be changed as described in Section I below:

I. Changes

Replace section 6.4.1.(b), Stack Gas Monitoring System with the following:

"(b)

There shall be an isokinetic probe, permanently fixed in the stack approximately one-third up from the base, to collect stack gas and particulate samples that are withdrawn with a gas pump through flow-metering and regulating equipment. The monitoring system will be divided into a high range (accident) monitor consisting of a removable particulate and iodine filter and an ion chamber for noble gas monitoring and a normal range monitor consisting of a gamma scintillation detector monitoring the removable particulate and iodine filters and downstream of this, a beta scintillation detector for noble gas monitoring. The gas flow is automatically switched from the normal to the high range monitor for high activity samples. The filters for the normal range monitor shall be removed and checked for radioactive contamination as specified in Section 6.4.3(b). The equipment shall permit determination of fission gas activities and gaseous activation products from  $10^{-5}$  to  $10^4$  uCi/cc. The system shall have a high radiation alarm which shall be annunciated in the control room. The alarm setting is specified in Section 6.4.3(b).

Replace Section 6.4.3(b), Operating Requirements with the following:

"(b)

The stack-gas monitoring system shall normally be in service. With the monitoring system inoperable, restore to operable status within 72 hours, or, in lieu of any other report required by Specification 6.9.2, prepare and submit a Special Report to the Commission pursuant to Specification 6.9.4 within the next 14 days outlining the cause of the inoperability and the plans for restoring the system to OPERABLE status. The alarm normally shall be set to annunciate in the control room at a level that corresponds to a stack release rate of 0.1 Curie per second. At stack release rates above 0.1 Curie per second, the alarm shall be set approximately a factor of two above the expected stack release rate, but in no event above 0.47/E Curies per second.

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The calibration of the normal and high range monitoring system shall be check at least monthly. The particulate and iodine filters of the normal range monitor shall be analyzed at least weekly. (The filters of the high-range monitor are not used during normal operation.)"

Add to Section 6.9.4:

"(d) Stack Gas Monitoring System Reports."

## II. Discussion

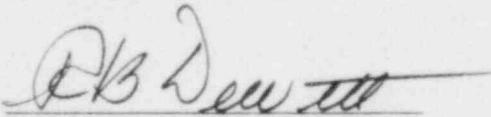
The operability of the Stack Gas Monitoring System ensures that sufficient radiological data is available for estimating potential radiation doses to the public as a result of routine or accidental release of radioactive materials through the plant stack. This capability is required to evaluate the need for initiating protective measures to protect the health and safety of the public. (This instrumentation is consistent with the recommendations of NUREG-0737, Section II.F.1 - Attachments 1 and 2, and is designed to meet the requirements of a category 2 system per Regulatory Guide 1.97.)

## III. Conclusion

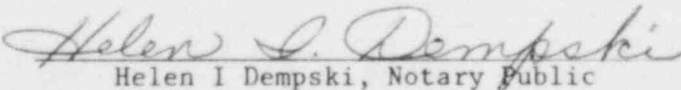
Based on the foregoing, both the Big Rock Point Plant Review Committee and the Safety and Audit Review Board have reviewed these changes and find them acceptable.

CONSUMERS POWER COMPANY

By

  
R B DeWitt, Vice President  
Nuclear Operations

Sworn and subscribed to before me this 15th day of December, 1981.

  
Helen I Dempski, Notary Public

Jackson County, Michigan

My commission expires December 14, 1983.