UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

NOV 23 1979

MEMORANDUM FOR: D. Ziemann, Chief
Operating Reactors Branch #2
Division of Operating Reactors

FROM: G. Lainas, Chief
Plant Systems Branch
Division of Operating Reactors

SUBJECT: BIG ROCK POINT FIRE PROTECTION:
DESIGN DETAIL REVIEW

Plant Name: Big Rock Point
Licensee: Consumers Power Company
Docket No.: 50-155
Project Manager: R. Silver
Status: See attached status sheet.

By letter of August 31, 1979, Consumers Power Company provided certain design criteria as requested by our Fire Protection SER of April 4, 1979, for the following proposed modifications: 3.1.3 Fire Barrier Penetrations; 3.1.23 Recirculation Pump Area Sprinklers; and 3.1.26 Protection of Reactor Depressurization System (RDS) Cables. We have reviewed these design criteria and find that: an adequate number and type of fire detectors will be installed in appropriate locations; hose connections and isolation valves will be provided to bypass breaks in the fire pump header; an adequate cable penetration fire stop design will be used; an appropriate water spray system will be installed for the recirculation pump oil hazard; and adequate barriers are being installed to protect RDS cables. Additionally, these modifications are being designed in accordance with appropriate NFPA standards. On this basis, we find that the design of these modifications provides the protection we intended in preparing our SER. Accordingly, we find the design criteria for these modifications to be acceptable.

Fire protection engineering support for this review was provided by DSS.

G. Lainas, Chief
Plant Systems Branch
Division of Operating Reactors

Enclosure:
As stated

cc: See next page

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Enclosure

STATUS -

BIG ROCK POINT

FIRE PROTECTION

	Status
3.1 Design Criteria Review:	
3.1.1 Alternate Safe Shutdown System	1/
3.1.3 Fire Detection System	Complete
3.1.4 Fire Pump Header	Complete
3.1.13 Fire Barrier Penetrations	Complete
3.1.23 Recirculation Pump Area Sprinkler	Complete
3.1.25 Shutdown Cooling Valves	Complete
3.1.26 Protection of RDS Cables	Complete

1/ Delayed for SEP

3.2 Incomplete Items:	
3.2.1 Fuel Pool Cooling	Under Review
3.2.2 Fire Brigade	Under Review
3.2.3 Cabling in Recirculation Pump Area	Under Review

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