



**Consumers
Power
Company**

COPY

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August 11, 1980

Director, Nuclear Reactor Regulation
Att Mr Dennis M Crutchfield, Chief
Operating Projects Branch No 5
US Nuclear Regulatory Commission
Washington, DC 20555

DOCKET 50-155 - LICENSE DPR-6 -
BIG ROCK POINT PLANT - RESPONSE TO
STAFF QUESTIONS ON SPENT FUEL POOL AREA

On December 19, 1979, a telephone discussion between Consumers Power Company and the NRC addressed spent fuel pool area radiation levels and monitoring. Mr Walter Paulson of your staff informed us on August 6, 1980 that responses to two questions resulting from this discussion had yet to be received. These questions involved an investigation into means to reduce radiation levels in the spent fuel pool area and existence of area monitors that alarm in the control room on low spent fuel pool water level.

Consumers Power Company has taken measures to reduce activity levels in the spent fuel pool area. The measures taken include recycling of the spent fuel pool coolant through the radwaste demineralizer, water lancing the weir over the surge tank and air lancing the surge tank. Wet smears on the fuel pool walls were taken for determination of crud buildup and its affect on dose rates. The wet smears indicated very minor activity and that cleaning of the spent fuel pool walls would not affect the overall area activity levels. The dose rates in the spent fuel pool area have been reduced by approximately 45% since December 1979 as shown by the following:

<u>Date</u>	<u>Fuel Pool Location(s) - (Dose Rate in mR/hr)</u>			
12/12/79	West End (14)	Middle (14)	East End (28)	Over Surge Tank (24)
--	Water lanced weir and surge tank and recycle of fuel pool through radwaste demineralizer			
02/01/80	West End (10)	Middle (12)	East End (18)	Over Surge Tank (14)
06/04/80	West End (12)	Middle (12)	East End (18)	Over Surge Tank (17)
07/17/80	West End (8)	Middle (6)	East End (15)	Over Surge Tank (15)

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Crutchfield
Big Rock Point
8/11/80
Spent Fuel Pool Area

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Big Rock Point has two area radiation monitors in the proximity of the spent fuel pool. These monitors are located near the SW corner of the spent fuel pool and on the steam drum enclosure wall approximately thirty (30) feet from the spent fuel pool. Both monitors alarm in the control room at approximately 10 mR/hr activity levels. Indication of high activity levels due to low spent fuel pool water level would be provided by these monitors in the control room. In addition to these permanent monitors, a portable monitor has been located at the east end of the spent fuel pool which has a local alarm set at approximately 100 mR/hr.

David P Hoffman (Signed)

David P Hoffman
Nuclear Licensing Administrator

CC JGKepler, USNRC