

August 13, 1983

Docket No. 50-155
LS05-83-08-020

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Mr. David J. Vandewalle
Nuclear Licensing Administrator
Consumers Power Company
1945 West Parnall Road
Jackson, Michigan 49201

Dear Mr. Vandewalle:

SUBJECT: SPENT FUEL POOL THERMAL/STRUCTURAL ANALYSIS
Big Rock Point Plant

By letter dated May 16, 1983, we approved the addition of spent fuel to the Big Rock Point spent fuel pool up to the operating license limit of 193 assemblies during plant shutdown. We concluded that with the plant in shutdown, accessibility to the containment was ensured and the ability to keep the temperature of the pool below 111°F using a fire hose was ensured. We also concluded that the structural integrity of the pool was adequate at 111°F. However, we indicated that additional evaluation of the pool structural integrity under thermal loads and NRC approval would be required before plant start-up.

Based on additional review since that time, we have concluded that the issue of the structural integrity of the Big Rock Point spent fuel pool under the thermal loads resulting from loss of normal pool cooling has been adequately addressed to allow the plant to resume power operation. This conclusion is supported by the enclosed Safety Evaluation (SE).

As the SE explains, based on the cooling capacity of the remote spent fuel pool make-up line, we conclude that the temperature of the pool will be maintained no higher than 150°F in the event of accident rendering the containment inaccessible and disabling the normal pool cooling systems. The SE also explains our conclusion that the structural integrity of the pool will be adequately maintained if the pool temperature is kept no higher than 150°F.

As the SE indicates, you have agreed to provide confirmatory analyses of the walls which support the pool.

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Mr. David J. Vandewalle

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Also, as the SE indicates, you have agreed to propose changes to the plant Technical Specifications to implement the procedure for determining when the pool heat load has decayed enough to allow reactor start-up.

Sincerely,

Original signed by

Dennis M. Crutchfield, Chief
Operating Reactors Branch #5
Division of Licensing

Enclosure.
Safety Evaluation

cc w/enclosure:
See next page

OFFICE ▶	DL: ORB #5	DL: ORB #5	DL: SD/SA				
SURNAME ▶	REmch: <i>RE</i>	DCrutchfield	FMraglia				
DATE ▶	8/13/83	8/13/83	8/13/83				

August 13, 1983

cc

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August 13, 1983

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