



Consumers
Power
Company

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September 16, 1982

Dennis M Crutchfield, Chief
Operating Reactors Branch No 5
Nuclear Reactor Regulation
US Nuclear Regulatory Commission
Washington, DC 20555

DOCKET 50-155 - LICENSE DPR-6 -
BIG ROCK POINT PLANT - STATUS REPORT
REGARDING REVISIONS TO SPENT FUEL RACK
ADDITION - CONSOLIDATED APPLICATION

This letter is to appraise you of the status of the committed revisions to our "Consolidated Application" for the Big Rock Point Plant Spent Fuel Pool Rack Addition. Consumers Power Company recognizes that publication of these revisions (via an amendment to our application and issuance of a supplement to your Safety Evaluation Report (SER)) must occur before the Spent Fuel Pool Hearing will be reconvened. The revisions concern the following two open issues with the NRC staff: 1) structural integrity of the spent fuel pool at boiling temperature; and, 2) seismic qualification of the 75-ton crane inside containment.

The first open issue, (initially identified as Appendix II of the application) was withdrawn by Consumers Power Company during the first phase of our hearing (reference pages 592-593 of the hearing record). An amended Appendix II addressing the quantitative thermal and stress analysis of the spent fuel pool structure is presently nearing completion and will be submitted by October 31, 1982. The revised finite element analysis will address structural integrity of the pool at temperatures up to 150°F. In lieu of a concrete thermal/stress analysis as a result of elevated pool boiling temperatures, Consumers Power Company will replace the existing make-up line with a larger one. This make-up line will serve the dual function of providing a means for remote delivery of make-up water to the pool as well as assuring that pool temperatures are kept below 150°F during the postulated transients and accidents. Design and installation of the makeup-line will include evaluation of maximum spent fuel pool temperature based on maximum heat load, minimum makeup rate and maximum makeup temperature. Excepting flow rate and pool discharge configuration considerations, the replacement makeup line will hold valid the makeup line description of record including seismic design to the Regulatory Guide 1.60

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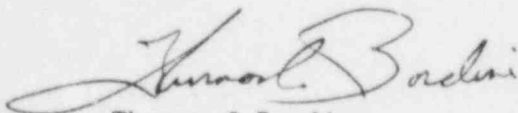
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earthquake anchored at 0.12g. We are confident that installation of this larger spent fuel pool makeup-line will provide assurance that the integrity of the pool will still be maintained.

The second open issue is the seismic qualification of the 75-ton crane (O'Neill Contention II.C as reworded by the Board). Although the issue is addressed by our prefiled testimony, Consumers Power Company, in view of the comments received from the staff, has chosen to utilize the additional time between hearings to perform a detailed seismic reanalysis. As with the original analysis, the new analysis will also utilize Regulatory Guide 1.60 seismic response spectrum with a zero period acceleration of 0.12g. Consumers Power Company believes that this reanalysis which will be provided to you on October 31, 1982 will confirm that the 75-ton crane is seismically safe.

It is our expectation that with the advance status notification by this letter and a commitment due date of October 31, 1982, the staff will be able to respond with an appropriate supplement to the NRC SER within a thirty-day turnover period such that reconvening of the Big Rock Point Plant Spent Fuel Pool hearings can occur as soon as possible after the issuance of the SER Supplement.



Thomas C Bordine
Staff Licensing Engineer

CC Administrator, Region III, USNRC
NRC Resident Inspector-Big Rock Point