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DUKE POWER

November 4, 1992

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D.C. 20555

Subject: Catawba Nuclear Station
Docket Nos. 50-413 and 50-414
Supplement to TS Amendment Request
Standby Nuclear Service Water Pond

Hal Tucker's letter dated June 7, 1990 requested an amendment to the required temperature and monitoring depth (Technical Specification 3.7.5.b) for the Catawba Nuclear Service Water Pond. M. S. Tuckman's letter dated April 22, 1992 revised the submittal to account for a 2.4°F discrepancy between the NRC SNSWP analysis and the Duke Power Pond analysis. The supplement also revised the monitoring depth to ensure that the needed volume of water would be available at or below 91.5°F.

The June 7, 1990 submittal reported that the highest recorded surface temperature of the SNSWP was 82°F in 1986. This temperature was revised by the April 22, 1992 submittal to be 85°F in June 1990. It has since been determined that these temperatures are not the highest recorded surface temperatures. During initial operation, SNSWP surveys were not performed on a regular basis because they were not required. These surveys were done at the request of individuals, not systematically. During the summer of 1989 a program was instituted to systematically measure SNSWP temperatures during the summer months because it had been recognized that the TS requirement did not conservatively ensure operability. Since that time, there has been an effort to consolidate previously measured data. As a result, some data is now available which was not available in the past. Some of this newly consolidated data indicates that higher surface temperatures were measured during the specified time periods. The adequacy of the pond is based on the total heat contained in the pond at the start of the accident. Therefore, minor differences in the highest reported surface temperature in no way affect the conclusions made in previous submittals. The SNSWP analysis assumes that the entire volume of water contained in the pond is at 91.5°F at the start of the Design Basis Accident. Reporting a surface

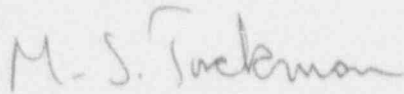
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temperature alone holds no significance with respect to the amount of thermal margin contained in the SNSWP. The assumptions in the current analysis are still considered conservative with respect to all previously observed SNSWP temperature profiles. Therefore the conclusions in the previous submittals remain valid.

Very truly yours,

A handwritten signature in dark ink, appearing to read "M. S. Tuckman". The signature is fluid and cursive, with the first name "M." and last name "Tuckman" clearly distinguishable.

M. S. Tuckman

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