

The Light company

Houston Lighting & Power South Texas Project Electric Generating Station P. O. Box 289 Wadsworth, Texas 77483

February 22, 1993

ST-HL-AE-4317

File No.: G09.18

C13.05

10CFR50

U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, DC 20555

South Texas Project
Units 1 and 2
Docket Nos. STN 50-498, STN 50-499
Performance of Main Cooling Reservoir and
Essential Cooling Pond During and After Filling

Reference: Correspondence from M. A. McBurnett (HL&P) to NRC
Document Control Desk, dated March 15, 1988
(ST-HL-AE-2572)

Houston Lighting & Power Company (HL&P) submits the attached report describing the performance of the South Texas Project (STP) Main Cooling Reservoir (MCR) and Essential Cooling Pond (ECP) during and after filling. The report fulfills the requirements in the STP Safety Evaluation Report, Supplement 2, Section 2.5.7, and in the above reference for reporting the results of remedial work performed on the MCR, and the performance of the MCR embankment underseepage control system with the reservoir at elevation 49 feet mean sea level (MSL). The report also meets a commitment in UFSAR Section 2.5.6.10 that embankment performance history be available when the MCR and the ECP are filled.

The original plan was to test the MCR at the maximum design pool elevation of +49 feet MSL. Since the maximum water storage capacity is not needed for current operations, the testing requirements were changed to evaluate MCR performance at the current MCR operating level of +45 feet MSL. The MCR underseepage control system will be reevaluated at a higher pool elevation only if additional reservoir storage capacity is later determined to be required, or the pool level is raised significantly by natural means.

The MCR underseepage control system provides the design control of hydrostatic uplift pressures and provides engineered exits for seepage from the reservoir. The current inspection and monitoring program is designed to provide a periodic evaluation of this system for the life of the reservoir.

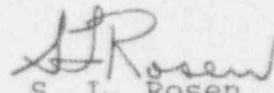
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The MCR and ECP embankments are in good condition. Except for final repairs to two surficial slides on the MCR embankment, there are no outstanding modifications or service requests to improve or restore the embankments or training dikes.

If there are any questions, please contact either Mr. P. L. Walker at (512) 972-8392 or me at (512) 972-7138.


S. L. Rosen
Vice President,
Nuclear Engineering

PLW/ag

Attachment: Main Cooling Reservoir and Essential Cooling Pond
Performance During and After Filling

Houston Lighting & Power Company
South Texas Project Electric Generating Station

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