Docket Nos. 50-498 and 50-499

> Mr. William T. Cottle Group Vice-President, Nuclear Houston Lighting & Power Company South Texas Project Electric Generating Station Post Office Box 289 Wadsworth, Texas 77483

Dear Mr. Cottle:

SUBJLUT: REQUEST FOR ADDITIONAL INFORMATION ON PERFORMANCE OF MAIN COOLING RESERVOIR AND ESSENTIAL COOLING POND DURING AND AFTER FILLING TO ELEVATION +45 FEET (TAC NOS. M86279 AND M86280)

The staff has completed its initial review of the licensee's February 22 and October 1, 1993, submittals on the performance of the main cooling reservoir (MCR) and the essential cooling pond (ECP) at South Texas Project. This review indicates that an unexpected high water table is present in the embankment sand core and that high seepage gradients exist at three locations in the MCR. In order to complete its review, the staff requires additional information regarding these issues.

We request your response to the enclosed questions within 45 days of the date of this letter to enable the staff to complete its review in a timely manner.

The reporting requirements contained in this letter affect fewer than ten respondents; therefore, OMB clearance is not required under Public Law 96-511.

Sincerely, Original Signed By Lawrence E. Kokajko, Senior Project Manager Project Directorate IV-2 Division of Reactor Projects III/IV/V Office of Nuclear Reactor Regulation

Enclosure: Request for Additional Information DISTRIBUTION Docket File EAdensam BJohnson, R-IV NRC PDR EPeyton GBagchi Local PDR EJordan PDIV-2 R/F ACRS (10) JZwolinski OGC

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cc w/enclosure: See next page

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Mr. William T. Cottle

cc w/enclosure: Mr. David P. Loveless Senior Resident Inspector U.S. Nuclear Regulatory Commission P. O. Box 910 Bay City, Texas 77414

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Enclosure

REQUEST FOR ADDITIONAL INFORMATION ON PERFORMANCE OF MAIN COOLING RESERVOIR AND ESSENTIAL COOLING POND SOUTH TEXAS PROJECT UNITS 1 & 2

A review of HL&P's submittals of February 22 and October 1, 1993, indicates that (1) a high water table is present in the embankment sand core of the main cooling reservoir (MCR), and (2) high seepage gradients exist at three locations in the MCR. Since these conditions are undesirable from the standpoint of safety of the MCR, HL&P is requested to provide the following additional information:

- Perform necessary investigations to determine if the high water table in the MCR embankment sand core is a temporary phenomenon. If it is not a temporary phenomenon, plot the phreatic surface across the embankment section at a few representative locations, and compare them with that assumed in the original embankment stability analysis, and determine the factor of safety of the embankment against failure for the high water table condition.
- Determine the cause for the high seepage gradients across the three cross sections of the MCR embankment, evaluate the effects of such high gradients on the stability of the embankment, and take suitable measures to reduce the high seepage gradients to acceptable levels.