

The Light company

Houston Lighting & Power

South Texas Project Electric Generating Station P. O. Box 289 Wadsworth, Texas 77483

June 5, 1992

ST-HL-AE-4108

File No.: G03.08

10CFR50.54(f)

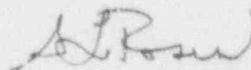
U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, DC 20555

South Texas Project
Units 1 and 2
Docket Nos. 50-498, STN 50-499
Response to NRC Generic Letter 92-01, Revision 1
"Reactor Vessel Structural Integrity, 10CFR50.54(f)"

Pursuant to 10CFR50.54(f), Houston Lighting & Power Company (HL&P) submits this response to Generic Letter 92-01 for the South Texas Project (STP).

GL 92-01, Revision 1 is issued as part of a program to obtain information from licensees to assess compliance with requirements of 10CFR50.60, 10CFR50.61, and commitments to GL 88-11 relative to reactor vessel integrity. Responses to the specific concerns of the Generic Letter are provided on the attachment.

If there are any questions, please contact either Mr. A. W. Harrison at (512) 972-7298 or me at (512) 972-7138.



S. L. Rosen
Vice President,
Nuclear Engineering

SDP/

Attachment: Response to Generic Letter 92-01

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Houston Lighting & Power Company
South Texas Project Electric Generating Station

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Revised 10/11/91


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UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

In the Matter)
)
Houston Lighting & Power) Docket Nos. 50-498
Company, et al.,) 50-499
)
South Texas Project)
Units 1 and 2)

AFFIDAVIT

S. L. Rosen being duly sworn, hereby deposes and says that he is Vice President, Nuclear Engineering of Houston Lighting & Power Company; that he is duly authorized to sign and file with the Nuclear Regulatory Commission the attached response to NRC Generic Letter 92-01; is familiar with the content thereof; and that the matters set forth therein are true and correct to the best of his knowledge and belief.

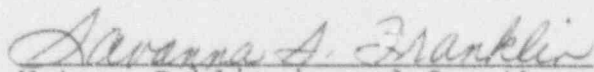


S. L. Rosen
Vice President,
Nuclear Engineering

STATE OF TEXAS)
)
)

Subscribed and sworn to before me, a Notary Public in and for The State of Texas this *5th* day of *June*, 1992.





Notary Public in and for the
State of Texas

South Texas Project
Units 1 and 2
Response to NRC Generic Letter 92-01

The STP responses to the specific concerns of Generic Letter 92-01, Revision 1 are:

Response to Question 1:

The STP surveillance program for Unit 1 meets ASTM E-185-73 and the program for Unit 2 meets ASTM E-185-79.

Response to Question 2a:

STP surveillance capsule materials exhibit a more than adequate upper shelf energy level and are expected to maintain an upper shelf energy level of no less than 50 ft-lb throughout the life of the vessel.

Response to Question 2b:

STP reactor vessels were built to the Summer 1973 Addenda of the 1971 Edition of the ASME Code.

Response to Question 3a:

STP does not operate at temperatures less than 550°F. Embrittlement effects of operating at an irradiation temperature below 525°F were not considered.

Response to Question 3b:

The surveillance results from both STP units were compared to Reg Guide 1.99, Revision 2 predictions. Unit 1 transition temperature increases do not exceed RG 1.99 mean-plus-two standard deviation predictions and the Charpy upper shelf energy value decreases were less than the values predicted using the guidance in Paragraph C.1.2. Unit 2 transition temperature increases and upper shelf energy decreases do not exceed RG 1.99 predictions. STP is in compliance with GL 88-11.

Response to Question 3c:

Measured increases in reference temperature and measured decreases in upper shelf energy for both STP Units are within Regulatory Guide 1.99, Revision 2 predictions.