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# The Light company

RELATED CORRESPONDENCE  
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DOCKETED  
USNRC

May 08, 1985  
ST-HL-AE-1246  
File # G12.13,  
G10.9.1, G2.1,  
G2.4, Q17.1

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Mr Robert D Martin  
Regional Administrator, Region BRANCH  
U.S. Nuclear Regulatory Commission  
Arlington, Texas 76011

OFFICE OF SECRETARY  
DOCKETING & SERVICE

Re: South Texas Project, Units 1 and 2  
Docket Nos. STN 50-498, STN 50-499 /oc  
Submittal of A Revision 1 To The  
Report Concerning the Technical  
Evaluation Of Anchor Bolts & Embed Rods

Dear Mr Martin:

By letter dated March 30, 1984 (reference ST-HL-AE-1073), Houston Lighting & Power Company (HL&P) transmitted the Bechtel report concerning the "Technical Evaluation of Anchor Bolts and Embedded Rods" which provided the results of the STP field fabricated anchor bolt/embed evaluation program conducted by Bechtel for HL&P. Our letter dated August 1, 1984 (ST-HL-AE-1111, p.41, Attachment B) informed NRC that our review of nonconformance reports (NCR's) may result in a limited number of changes to previously dispositioned NCR's. By letter dated January 18, 1985 (reference ST-HL-AE-1176), HL&P committed to provide a supplement to the subject report to provide additional references to NCR's and their disposition. The attached Revision 1 to the report satisfies the above commitments. Due to the changes described below, Revision 1 supersedes in its entirety Revision 0 of the report which was submitted March 30, 1984.

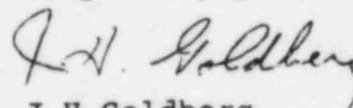
The reasons for the changes contained in Revision 1 are as follows:

1. The report has been updated to include 29 additional NCR's.

2. The equation for computation of the sheer stress area was revised to make it consistent with the requirements of ANSI B1.1.
3. The ratio of sheer strength to tensile strength for bolt material has been reduced from 0.67 to 0.5.
4. The required factor of safety for both A-36 and A-193 anchor bolts is presented.
5. Our submittals of August 1, 1984 and January 18, 1985 provided Phase II activity summaries and Revision 1 incorporates that material as appropriate.
6. The results of a thread remeasurement program by Bechtel initiated in July, 1984 are incorporated to demonstrate (1) the reliability of the previous B&R measurements and (2) the adequacy of using major diameter measurements (in the absence of specific pitch diameter measurements) to assess the field fabricated threads.
7. The responses to NRC questions in Section 4.0 have been updated per the reasons noted.
8. Minor editorial corrections.

If you should have any questions concerning this matter, please contact Mr Michael E Powell at (713) 993-1328.

Very truly yours,



J H Goldberg  
Group Vice-President, Nuclear

MEP:JHG/aks

Attachment: Revision 1 to the Technical Evaluation of  
Anchor Bolts and Embedded Rods

cc:

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BECHTEL ENERGY CORPORATION  
HOUSTON LIGHTING & POWER

**TECHNICAL EVALUATION OF  
ANCHOR BOLTS AND  
EMBEDDED RODS  
SOUTH TEXAS PROJECT**

REVISION 1  
MAY 8, 1985



ELECTRIC GENERATING STATION