

The Light company

Houston Lighting & Power

P.O. Box 1700 Houston, Texas 77001 (713) 228-9211

October 18, 1988
ST-HL-AE-2793
File No. G9.17, J34, G9.14
10CFR50

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

South Texas Project Electric Generating Station
Units 1 and 2
Docket Nos. STN 50-498, STN 50-499
Control Room Design Review Status

Reference: A. Control Room Design Review Status; M. R. Wisenburg, HL&P, Letter to the NRC; ST-HL-AE-2421; dated November 23, 1987.

B. Safety Parameter Display System; M. R. Wisenburg, HL&P, Letter to the NRC; ST-HL-AE-2589; dated March 18, 1988.

Enclosed are updates to the Control Room Design Review (CRDR) reports for the South Texas Project (STP) as follows:

- o Executive Summary - Addendum 4
- o Human Engineering Discrepancy Resolution Report - Addendum 3

These reports reflect the status of the STP CRDR program as of September 30, 1988. Revision bars are used to denote changes from the previous submittal. Exceptions not identified with revision bars include the text of the Executive Summary-Addendum 4, which is new material, and minor editorial changes throughout both documents. For Human Engineering Discrepancies (HEDs) which have been resolved, a specific completion statement has been included for each unit, as appropriate. Where no completion statement is included, corrective action for that HED is still in process.

A schedule for corrective action for HEDs identified as of November, 1987 was provided in Reference A. That schedule was primarily applicable to Unit 1. Attachment 1 provides a schedule which addresses both units.

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HEDs fall into one of three groups relative to schedule, as discussed in Attachment 1:

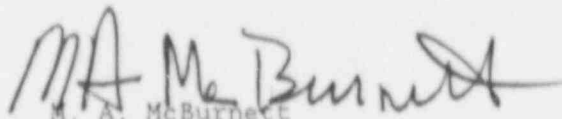
- o OLD - Those HEDs which were discussed in the previous HED Resolution Report Addendum (Reference A).
- o NEW - Those HEDs which were identified subsequent to the previous report (Reference A).
- o FUTURE - Those HEDs which may be identified in the future.

Most of the HEDs concerning the Qualified Display Processing System (QDPS) have been included in modifications currently being developed by Westinghouse. As discussed in Reference A, implementation of these changes has been rescheduled to target fuel load for Unit 2 and first refueling outage for Unit 1. QDPS items are discussed further in Attachment 4 (HED Resolution Report - Addendum 3, Note CPT-1, Page 2-2 ff).

Safety Parameter Display System (SPDS) Man-in-the-Loop (MITL) validation testing was completed in December 1987. NRC staff concerns relative to human factors on the SPDS and the MITL Test Results were specifically addressed in the letter of Reference B. HEDs resulting from the MITL are included in Attachment 4.

HL&P remains committed to the Control Room Design Review as an ongoing program. Our next report will be submitted in December, 1989. Attachment 2 contains a current list of CRDR reports for your information.

If you should have any questions on this matter, please contact Mr. A. W. Harrison at (512) 972-7298.



M. A. McBurnett
Manager,
Operation Support Licensing

THC/hg

- Attachments:
- (1) STP Schedule for Resolution of HEDs
 - (2) List of Current Control Room Design Review Reports
 - (3) Executive Summary - Addendum 4
 - (4) Human Engineering Discrepancy Resolution Report-Addendum 3

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cc:

Regional Administrator, Region IV
Nuclear Regulatory Commission
611 Ryan Plaza Drive, Suite 1000
Arlington, TX 76011

*George Dick, Project Manager
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Jack E. Bess
Senior Resident Inspector/Operations
c/o U.S. Nuclear Regulatory
Commission
P. O. Box 910
Bay City, TX 77414

J. I. Tapia
Senior Resident Inspector/Construction
c/c U.S. Nuclear Regulatory
Commission
P. O. Box 910
Bay City, TX 77414

J. R. Newman, Esquire
Newman & Holtzinger, P.C.
1615 L Street, N.W.
Washington, DC 20036

R. L. Range/R. P. Verret
Central Power & Light Company
P. O. Box 2121
Corpus Christi, TX 78403

R. John Miner (2 copies)
Chief Operating Officer
City of Austin Electric Utility
721 Barton Springs Road
Austin, TX 78704

R. J. Costello/M. T. Hardt
City Public Service Board
P. O. Box 1771
San Antonio, TX 78296

Rufus S. Scott
Associate General Counsel
Houston Lighting & Power Company
P. O. Box 1700
Houston, TX 77001

INPO
Records Center
1100 Circle 75 Parkway
Atlanta, GA 30339-3064

Dr. Joseph M. Hendrie
50 Bellport Lane
Bellport, NY 11713

(*) Receives Attachments.

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ATTACHMENT 1

STP Schedule for Resolution of HEDs

	<u>Unit 1</u>	<u>Unit 2</u>
	Category A	
	Safety	Consequences
OLD	Resolved, with the exception of Operator Action Points shown on the QDPS displays (HED-1095) as discussed in the HED Resolution Report Addendum 2, which was previously submitted. Interim actions have been implemented; final corrective action is in progress. This HED will be resolved by the end of the first refueling outage.	Resolved, with the exception of HED-1095 for QDPS and EkFDADS setpoints. This HED will be resolved prior to fuel load.
NEW	Resolved	To be resolved prior to fuel load.
FUTURE	The STP CRDR requires mandatory immediate corrective action. If the HED cannot be resolved immediately, interim action will be taken to mitigate the problem.	Same as Unit 1

ATTACHMENT 1 (Cont'd)

STP Schedule for Resolution of HEDs

Unit 1

Unit 2

Category B
Plant Availability Enhancement

OLD	Resolved prior to commercial operation, with the exception of items concerning QDPS displays. (Refer to HED Resolution Report-Addendum 3, Note CPT-1, page 2-2 ff, HEDs 1026 & 1041). HED-1026 will be resolved prior to the end of the first refueling outage, and HED-1041 will be resolved prior to the end of the third refueling outage.	To be resolved prior to fuel load with the exception of HED-1041, which will be resolved prior to the end of the third refueling outage. (Refer to HED Resolution Report-Addendum 3, Note CPT-1, page 2-2 ff, HEDs 1026 & 1041).
NEW	To be resolved by the end of the first refueling outage.	To be resolved prior to commercial operation.
FUTURE	To be resolved at earliest opportunity, generally not later than the next scheduled refueling outage following HED evaluation.	Same as Unit 1

Category C
Equipment/Plant Reliability Enhancement

OLD/ NEW	Resolution to be integrated into the plant modification schedule, with implementation targeted for completion prior to the end of the second refueling outage (third refueling outage for QDPS displays).	Same as Unit 1
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ATTACHMENT 1 (Cont'd)

STP Schedule for Resolution of HEDs

Unit 1

Unit 2

Category C
Equipment/Plant Reliability Enhancement

FUTURE

Resolution to be integrated into the plant modification schedule, with implementation generally targeted for completion prior to or during the second scheduled refueling outage following HED evaluation.

Same as Unit 1

Category D
Minor

OLD/
NEW/
FUTURE

Resolution to be prioritized and integrated into the plant modification process. Implementation is optional, and will be determined based on the overall priority of each item.

Same as Unit 1

Control Room Design Review Reports

<u>Volume</u>	<u>Current Revision</u>	<u>Date</u>
1. Program Plan	1	3/31/83
2. Criteria Report	2	3/27/84
Addendum 1	-	6/03/85
Change 1	-	12/22/86
3. Operating Experience Review Report	0	3/25/83
4. System Function & Task Analysis Report	0	3/25/83
5. Control Room Survey (CRS) Report		
Volume I	(Original)	(3/30/84)
Volume II	0	3/30/84
Volume III	0	3/30/84
Volume IV	(Original)	(3/30/84)
6. Annunciator Study Report	0	3/29/84
7. Special Studies Report	0	3/30/84
8. Implementation Plan Report	0	3/28/83
9. System Function & Task Analysis Validation Report	0	3/19/84
10. Operating Experience Review Validation Report	0	3/07/84
11. Control Room Survey Validation Report	0	3/07/84
() - Indicates submittal, although no revision or date appears on document.		

Control Room Design Review Reports

<u>Volume</u>	<u>Current Revision</u>	<u>Date</u>
12. Executive Summary	0	2/27/84
Addendum 1	-	4/15/85
Addendum 2	-	12/22/86
Addendum 3	-	11/23/87
Addendum 4	-	9/30/88
13. Human Engineering Deficiency Resolution Report	0	4/15/86
Revised Pages	1	8/12/85
Addendum 1	-	12/22/86
Addendum 2	-	11/23/87
Addendum 3	-	9/30/88
14. Emergency Operating Procedures Validation Report	0	12/22/86