

## LICENSEE EVENT REPORT (LER)

|   |  |  |        |  |  |           |  |  |   |  |  |                   |  |  |  |  |  |  |  |                      |           |  |  |              |  |  |   |  |  |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---|--|--|--------|--|--|-----------|--|--|---|--|--|-------------------|--|--|--|--|--|--|--|----------------------|-----------|--|--|--------------|--|--|---|--|--|----------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| FACILITY NAME (1)<br>South Texas, Unit 1  |  |  |        |  |  |           |  |  |   | DOCKET NUMBER (2)<br>0 5 0 0 0 4 9 8   |  |                   |  |  |  |  |  |  |  | PAGE (3)<br>1 OF 0 3 |           |  |  |              |  |  |   |  |  |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TITLE (4)<br>Prematurely Terminating a Technical Specification LCO Requirement Due to Personnel Error |  |  |        |  |  |           |  |  |   |  |  |                   |  |  |  |  |  |  |  |                      |           |  |  |              |  |  |   |  |  |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| EVENT DATE (5)<br>MONTH DAY YEAR<br>0 2 1 3 8 8 8 8   |  |  |        |  |  |           |  |  | LER NUMBER (6)<br>YEAR SEQUENTIAL NUMBER REVISION NUMBER<br>0 1 9 0 0 |  |  |                   |  |  |  |  |  | REPORT DATE (7)<br>MONTH DAY YEAR<br>0 3 1 4 8 8 |  |                      |           |  |  |              |  |  | OTHER FACILITIES INVOLVED (8)<br>FACILITY NAMES DOCKET NUMBER(S)<br>0 5 0 0 0 0 |  |  |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| OPERATING MODE (9)<br>3   |  |  |        |  |  |           |  |  |   | THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5. (Check one or more of the following) (11) |  |                   |  |  |  |  |  |  |  |                      |           |  |  |              |  |  |   |  |  |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| POWER LEVEL (10)<br>0 0 0   |  |  |        |  |  |           |  |  |   | 20.402(b)  |  |                   |  |  |  |  |  |  |  | 20.406(c)            |           |  |  |              |  |  |   |  |  | 50.73(a)(2)(iv)      |  |  |  |  |  |  |  |  |  | 73.71(b)   |  |  |  |  |  |  |  |  |  |
|   |  |  |        |  |  |           |  |  |   | 20.406(a)(1)(i)  |  |                   |  |  |  |  |  |  |  | 50.36(e)(1)          |           |  |  |              |  |  |   |  |  | 50.73(a)(2)(v)       |  |  |  |  |  |  |  |  |  | 73.71(c)   |  |  |  |  |  |  |  |  |  |
|   |  |  |        |  |  |           |  |  |   | 20.406(a)(1)(ii)   |  |                   |  |  |  |  |  |  |  | 50.36(e)(2)          |           |  |  |              |  |  |   |  |  | 50.73(a)(2)(vi)      |  |  |  |  |  |  |  |  |  | OTHER (Specify in Abstract below and in text, NRC Form 355A) |  |  |  |  |  |  |  |  |  |
|   |  |  |        |  |  |           |  |  |   | 20.406(a)(1)(iii)  |  |                   |  |  |  |  |  |  |  | 50.73(a)(2)(i)       |           |  |  |              |  |  |   |  |  | 50.73(a)(2)(viii)(A) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |  |  |        |  |  |           |  |  |   | 20.406(a)(1)(iv)   |  |                   |  |  |  |  |  |  |  | 50.73(a)(2)(ii)      |           |  |  |              |  |  |   |  |  | 50.73(a)(2)(viii)(B) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |  |  |        |  |  |           |  |  |   | 20.406(a)(1)(v)  |  |                   |  |  |  |  |  |  |  | 50.73(a)(2)(iii)     |           |  |  |              |  |  |   |  |  | 50.73(a)(2)(ix)      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| LICENSEE CONTACT FOR THIS LER (12)  |  |  |        |  |  |           |  |  |   |  |  |                   |  |  |  |  |  |  |  |                      |           |  |  |              |  |  |   |  |  |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| NAME<br>Charles Ayala - Supervising Licensing Engineer  |  |  |        |  |  |           |  |  |   |  |  |                   |  |  | TELEPHONE NUMBER<br>AREA CODE<br>5 1 2 9 7 2 - 8 6 2 8 |  |  |  |  |                      |           |  |  |              |  |  |   |  |  |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)                            |  |  |        |  |  |           |  |  |   |  |  |                   |  |  |  |  |  |  |  |                      |           |  |  |              |  |  |   |  |  |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CAUSE   |  |  | SYSTEM |  |  | COMPONENT |  |  | MANUFACTURER  |  |  | REPORTABLE TO NRC |  |  | CAUSE  |  |  | SYSTEM   |  |                      | COMPONENT |  |  | MANUFACTURER |  |  | REPORTABLE TO NRC   |  |  |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| A   |  |  |        |  |  |           |  |  |   |  |  |                   |  |  |  |  |  |  |  |                      |           |  |  |              |  |  |   |  |  |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SUPPLEMENTAL REPORT EXPECTED (14)   |  |  |        |  |  |           |  |  |   |  |  |                   |  |  |  |  |  |  |  |                      |           |  |  |              |  |  |   |  |  |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| YES (If yes, complete EXPECTED SUBMISSION DATE)   |  |  |        |  |  |           |  |  |   |  |  |                   |  |  | X NO   |  |  |  |  |                      |           |  |  |              |  |  |   |  |  |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| EXPECTED SUBMISSION DATE (15)   |  |  |        |  |  |           |  |  |   |  |  |                   |  |  | MONTH DAY YEAR   |  |  |  |  |                      |           |  |  |              |  |  |   |  |  |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single space typewritten lines) (16)

On February 12, 1988, with Unit 1 in Mode 3 prior to initial criticality, a unit cooldown to satisfy Technical Specification 3.0.3 was prematurely terminated. Due to an omission in the Operability Tracking Log, both A and C Emergency Core Cooling System (ECCS) trains were found to be inoperable. The cause for this non-conformance was personnel error. Corrective actions to prevent recurrence include, additional guidance for determining equipment operability, special training on determining the subsystem affected by inoperable components and additional training on the use of the computerized LCO Tracking System.

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## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED OMB NO 3150-0104  
EXPIRES 8/31/85

|                     |                   |                |                   |                 |          |       |
|---------------------|-------------------|----------------|-------------------|-----------------|----------|-------|
| FACILITY NAME (1)   | DOCKET NUMBER (2) | LER NUMBER (5) |                   |                 | PAGE (3) |       |
|                     |                   | YEAR           | SEQUENTIAL NUMBER | REVISION NUMBER |          |       |
|                     |                   |                |                   |                 |          |       |
| South Texas, Unit 1 | 0500049888        | —              | 019               | —               | 0002     | OF 03 |

TEXT (If more space is required, use additional NRC Form 366A's) (17)

DESCRIPTION OF OCCURRENCE:

At approximately 0948 hours on February 12, 1988, with Unit 1 in Mode 3 prior to initial criticality, several Train C Engineered Safety Features systems were removed from service for repair work. A 72-hour Limiting Condition for Operation (LCO) action statement was entered to affect repairs.

When Train C Essential Chilled Water System (ECHW) was removed from service for maintenance, the Train C High Head Safety Injection (HHSI), Low Head Safety Injection (LHSI) and Containment Spray (CS) pumps became inoperable. Train C LHSI was also made inoperable as a result of removing Train C Residual Heat Removal system from service.

At approximately 2200 hours on February 12, 1988, the Train A Essential Chiller failed, making Train A ECHW system inoperable. With only one ECHW Train operable, the requirements of Technical Specification 3.7.14 were not met. This condition required initiation of a plant cooldown per Technical Specification 3.0.3.

While the inoperability of Train A Essential Chiller was correctly logged in the Operability Tracking Log, the resultant inoperability of Train A ECCS components (HHSI, LHSI and CS) was not logged.

When the Train C ECHW system was restored to service and declared operable at approximately 0328 hours on February 13, 1988, the action statement of Technical Specification 3.7.14 once again applied. Therefore, operation personnel terminated the plant cooldown at 0334 hours on February 13, 1988.

At this point operations personnel failed to recognize that Technical Specification 3.0.3 still applied due to the inoperability of two trains of LHSI.

At approximately 1200 hours on February 13, 1988, during shift turnover the on-coming Unit Supervisor noted that the Train A Essential Chiller was still inoperable, and that LCO 3.0.3 had been improperly exited. Since neither LHSI train A or C could be restored to operable status immediately, LCO 3.0.3 was reentered and a unit cooldown recommenced at 1207 hours on February 13, 1988 to Mode 4.

Unit 1 entered Mode 4 at approximately 1917 hours on February 13, 1988 and entered Mode 5 at 0117 hours on February 14, 1988 well within the time constraints of the original entry into LCO 3.0.3 for the unit to be in Mode 5.

The NRC was notified via the ENS of this event at approximately 1830 hours on February 13, 1988.

NL LER88010

## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104  
EXPIRES 8/31/85

|  |  |                |                      |                    |          |     |  |
|--|--|----------------|----------------------|--------------------|----------|-----|--|
| FACILITY NAME (1)<br><br>South Texas, Unit 1 | DOCKET NUMBER (2)<br><br>0 5 0 0 0 4 9 8 8 8 | LER NUMBER (6) |                      |                    | PAGE (3) |     |  |
|  |  | YEAR           | SEQUENTIAL<br>NUMBER | REVISION<br>NUMBER |          |     |  |
|  |  | 0 1 9          | 0 0                  | 0 3                | OF       | 0 3 |  |

TEXT (If more space is required, use additional NRC Form 365A's) (17)

CAUSE OF OCCURRENCE:

The root cause of this event is personnel error in that the Operability Tracking Log was incorrectly updated and maintained with regards to affected ESF equipment when Train A Essential Chiller was declared inoperable.

ANALYSIS OF EVENT:

This event had no impact on the health and safety of the public. No radiation release occurred. Although the plant operated at no-load conditions in excess of the time limits for cooldown below 350°F, the unit was cooled down to less than 200°F within the original time constraints established in Technical Specifications. However, this event is reportable pursuant to 10CFR50.73(a)(2)(i)(b) because the unit was operating in a mode prohibited by Technical Specifications.

CORRECTIVE ACTION:

The following corrective actions have been or are being taken to prevent recurrence of this event:

1. Plant Operations Procedure OPOP01-ZQ-0030 has been revised to provide a more structured Technical Specification Review for impact of inoperable equipment on other systems. This review requires the shift and unit supervisors and shift technical advisor to independently evaluate affected equipment.
2. Special training will be conducted, emphasizing the importance of accurately determining the subsystems affected by inoperable components. This LER will be used as an example to illustrate this concern. This training will be completed by March 20, 1988.
3. Training on use of the "Hypothetical Mode" of the computerized LCO Tracking System will be provided by March 20, 1988, to enhance the understanding of the shift supervisor in determining what impact inoperable equipment has on other systems.

ADDITIONAL INFORMATION:

There have been no previous events where an LCO action statement has been exited at STPEGS without satisfying the condition of the LCO.

NL LER88010

# The Light company

Houston Lighting & Power

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

March 14, 1988  
ST-HL-AE-2558  
File No.: G26  
10CFR50.73

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

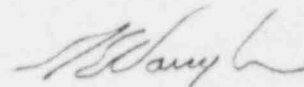
South Texas Project Electric Generating Station  
Unit 1

Docket No. STN 50-498

Licensee Event Report 88-019 Regarding Prematurely Terminating  
& Technical Specification LCO Requirement Due to Personnel Error

Pursuant to 10CFR50.73 Houston Lighting & Power Company (HL&P) submits the attached Licensee Event Report (LER 88-019) regarding prematurely terminating a Technical Specification LCO Requirement due to a personal error. This event did not have any adverse impact on the health and safety of the public.

If you should have any questions on this matter, please contact Mr. C. A. Ayala at (512) 972-8628.



G. E. Vaughn  
Vice President  
Nuclear Plant Operations

GEV/PDN/ae

Attachment: Licensee Event Report 88-019  
Regarding Prematurely Terminating a  
Technical Specification LCO  
Requirement Due to Personnel Error

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cc:

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