

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) South Texas, Unit 1										DOCKET NUMBER (2) 05000498										PAGE (3) 1 OF 03																													
TITLE (4) Essential Cooling Water Screen Wash Booster Pump Mistakenly Declared Operable Due to Personnel Error																																																	
EVENT DATE (5) MONTH DAY YEAR 02 15 88										LER NUMBER (6) YEAR SEQUENTIAL NUMBER REVISION NUMBER 88 - 020 - 000										REPORT DATE (7) MONTH DAY YEAR 03 15 88										OTHER FACILITIES INVOLVED (8) FACILITY NAMES DOCKET NUMBER(S) 050000 050000																			
OPERATING MODE (9) 5										THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5: (Check one or more of the following) (11)																																							
POWER LEVEL (10) 0.00										20.402(b)										20.405(e)										60.73(a)(2)(iv)										73.71(b)									
										20.405(a)(1)(i)										50.36(e)(1)										60.73(a)(2)(iv)										73.71(c)									
										20.405(a)(1)(ii)										50.36(e)(2)										60.73(a)(2)(vi)										OTHER (Specify in Abstract below and in Text, NRC Form 366A)									
										20.405(a)(1)(iii)										50.73(a)(2)(i)										60.73(a)(2)(viii)(A)																			
										20.405(a)(1)(iv)										50.73(a)(2)(ii)										60.73(a)(2)(viii)(B)																			
										20.405(a)(1)(v)										50.73(a)(2)(iii)										60.73(a)(2)(ix)																			
LICENSEE CONTACT FOR THIS LER (12)																																																	
NAME Charles A. Ayala - Supervising Licensing Engineer																				TELEPHONE NUMBER AREA CODE 511291721-1861218																													
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)																				EXPECTED SUBMISSION DATE (15)										MONTH DAY YEAR																			
YES (If yes, complete EXPECTED SUBMISSION DATE)																				X NO																													

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

On February 15, 1988, with Unit 1 in Mode 5, prior to initial criticality, a review of an Inservice Test on Essential Cooling Water Screen Wash Booster Pump 1A revealed that the pump test data was outside the acceptable range. The pump was not declared inoperable on February 11, 1988 when the test was performed. The pump was declared inoperable at approximately 1450 hours on February 15, 1988. A repeat of the Inservice Test confirmed that the pump test data was outside the acceptable range. A new Reference Values Measurement Test was performed at approximately 2253 hours on February 15, 1988 which verified that Essential Cooling Water Screen Wash Booster Pump 1A was operable. The cause of this event is personnel error. Corrective actions to prevent recurrence include the requirement for Technical Specification Surveillance Test results receive an independent review prior to submittal to the Shift Supervisor.

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NL.LER88020

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED OMB NO. 3150-0104
EXPIRES 8/31/95

FACILITY NAME (1) South Texas, Unit 1	DOCKET NUMBER (2) 05000498	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		88	020	00	02	OF	03

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

DESCRIPTION OF OCCURRENCE:

At approximately 1438 hours on February 11, 1988, with Unit 1 in Mode 3, prior to initial criticality, a cooldown to Mode 5 commenced due to exceeding 72-hour equipment inoperability time limit during an Essential Cooling Water Train "A" outage for repair work and surveillance testing. At approximately 1747 hours on February 11, 1988, an Inservice Test was performed on Essential Cooling Water Screen Wash Booster Pump (ECWSWBP) 1A. The Test Coordinator (NRC-licensed RO) reviewed the pump performance data and made an error when he signed off the test as acceptable. The pump differential pressure (D/P) was outside the acceptable range limits listed on the data sheet. The data package was then given to the Shift Supervisor (NRC-licensed SRO). The Shift Supervisor was informed by the Test Coordinator that all data was satisfactory and that the ECWSWBP was restored to normal. The Shift Supervisor, relying on the word of his operator, did not recognize that the pump D/P was outside the acceptable range. The Shift Supervisor signed off the data package and forwarded the package to the Plant Operations Surveillance Coordinator (non-licensed). The pump test was declared satisfactory and at approximately 1906 hours on February 11, 1988 the cooldown was terminated after the remainder of the Essential Cooling Water (ECW) system was declared operable.

At approximately 1400 hours on February 15, 1988, the Surveillance Coordinator, while reviewing the Inservice Test data package for ECWSWBP 1A, discovered that the pump D/P was outside the acceptable range.

At approximately 1450 hours on February 15, 1988, with Unit 1 in Mode 5, ECWSWBP 1A was declared inoperable.

The ECWSWBP provides a high pressure jet of water to wash trash and debris from a traveling screen at the inlet bay to its respective Essential Cooling Water Pump. The ECW system is an Engineered Safety Features (ESF) system.

The Inservice Test required that the ECWSWBP be operated at a given flow by throttling the pump discharge valve. The suction and discharge pressure is recorded in order to calculate pump D/P. This pump D/P is then compared to acceptable range limits derived from a Reference Values Measurement Test on the same pump. The pump is considered operable if the D/P is within the acceptable range limits.

A repeat of the Inservice Test confirmed that the ECWSWBP D/P was outside the Acceptable Range. A Reference Values Measurement Test was performed on the ECWSWBP 1A. The test data from the reference test indicated the D/P value was on the performance curve and confirmed the pump to be operable. The ECWSWBP 1A is being placed on alert status and the Inservice Test frequency will be doubled to obtain test data for trending purposes. The new reference value will be incorporated in the Inservice Test Procedure for ECWSWBP 1A for future test.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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

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

TEXT (If more space is required, use additional NRC Form 388A's) (17)

ECWSWBP 1A was declared operable at approximately 1625 hours on February 16, 1988.

The NRC was notified of this event pursuant to the STPEGS operating License NFF-71, paragraph 2.G at approximately 1234 hours on February 16, 1988 via the ENS.

CAUSE OF OCCURRENCE:

The root cause of this event is personnel error. Two licensed operators failed to recognize that a pump parameter was outside the required Acceptable Range.

ANALYSIS OF EVENT:

This event had no impact on the health and safety of the public because Essential Cooling Water Screen Wash Booster Pump 1A was demonstrated to be operable based on a new Reference Values Measurement Test and would have performed its design function during the time period when the pump should have been declared inoperable. However, this event is reportable under 10CFR50.73(a)(2)(i) (B) because of personnel error in reviewing the surveillance test data report and declaring the pump to be operable when the test data was outside the pump's acceptable range.

CORRECTIVE ACTION:

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

1. A Night Order was issued, as a interim corrective action, requiring an additional licensed operator to review completed Technical Specification surveillances prior to the Shift Supervisors review. A Standing Order incorporating this interim corrective action will be issued by March 15, 1988.
2. Special training, using this LER as an example, will be given to licensed personnel by March 20, 1988. This training will emphasize the importance of accurately determining the acceptability of surveillance testing.

ADDITIONAL INFORMATION

There have been no other similar reportable events.

NL.LER88020

The Light company

Houston Lighting & Power

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

March 15, 1988

ST-HL-AE-2551

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 88-020 Regarding an Essential Cooling Water Screen
Wash Booster Pump Mistakenly Declared Operable Due to Personnel Error

On February 16, 1988, Houston Lighting & Power Company (HL&P) notified the NRC of a reportable event in which an Essential Cooling Water (ECW) screen wash booster pump had mistakenly been declared operable when pump test data was outside the acceptable range. The event did not have any adverse impact on the health and safety of the public. HL&P submits the attached Licensee Event Report (LER 88-020) in accordance with 10CFR50.73.

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/MEP/lrs

Attachment: Licensee Event Report 88-020
Regarding an Essential Cooling
Water Screen Wash Booster Pump
Mistakenly Declared Operable Due to
a Personnel Error

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cc:

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