The Light company
Houston Lighting & Power South Texas Project Electric Generating Station P. O. Box 289 Wadsworth, Texas 77483

May 1, 1989
ST-HL-AE-3080
File No.: G3.03
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
NRC Bulletin 88-10 Status Report

Reference: ST-HL-AE-3046 dated April 3, 1989

This letter is the May 1, 1989 update on the additional actions being performed by HL&P relative to NRC Bulletin 88-10, as committed in the referenced letter.

Initial visits to the suppliers, distributors, sales offices, and circuit breaker manufacturers (CBMs) are complete to the extent possible. Some links in the procurement chain were not visited because traceability was considered lost at a point, or suppliers/distributors were not cooperative.

Traceability to the CBM has been verified for certain of the suppliers. Traceability, however, is not verifiable in all cases. Molded case circuit breakers (MCCBs) that do not have verifiable traceability have had their location determined with two exceptions. Attachment 1 provides a complete listing by supplier of the status and actions to date.

Requirements in NRC Bulletin 88-10, as clarified by NUMARC in a letter dated March 9, 1989, will be fulfilled for those breakers for which verifiable traceability cannot be established. A justification for continued operation (JCO) has been prepared for installed MCCBs which have no verifiable traceability. These MCCBs will be replaced prior to or during the first refueling outage for each Unit.

MCCBs for which traceability cannot be verified that are located in the warehouse have been segregated. They have been inspected utilizing the NUMARC Initiative inspection criteria and were determined not to be refurbished.

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Additionally, other safety-related MCCBs located in the warehouse which are either considered traceable or those for which the search continues, have been inspected utilizing the NUMARC Initiative inspection criteria. There were no refurbished MCCBs identified.

As shown on Attachment 1, there are ten MCCBs installed in safety-related applications for which verifiable traceability could not be confirmed. These include the six MCCBs discussed in our April 3, 1989 letter. These breakers have been inspected. None were determined to be refurbished. These breakers are as follows:

MCCB Supplier	MCCB manufacturer, model, rating, type, function
ASEA Brown Boveri	ITE, Cat No. BQ1-B020,20A, single pole, 120V AC space heater circuit breaker for EAB Essential A/C Chiller 22A Motor, Unit 2
ASEA Brown Boveri	ITE, Cat No. BQ1-B020,20A, single pole, 120V AC space heater breaker for ECW Pump 1A Motor, Unit 1
ASEA Brown Boveri	ITE, Cat No. BQ1-B020,20A, single pole, 120V AC space heater breaker for ECW pump 1B Motor, Unit 1
ASEA Brown Boveri	ITE, Cat No. BQ1-B020,20A, single pole, 120V AC, spare breaker in 4160 switch gear E1B Unit 2.
ASEA Brown Boveri	ITE, Cat No. BQ1-B020, 20A, single pole, 120V AC, space heater for Centrifugal Charging Pump 1A Motor, Unit 2.
GESCO, Houston	General Electric, Cat. No. TED 124100WL, 100A, double pole, 250V DC field flashing power circuit breaker for Emergency Diesel Generator 21, Unit 2
GESCO, Houston	General Electric, Cat No. TED 124100WL, 100A, double pole, 250V DC field flashing power circuit breaker for Emergency Diesel Generator 22, Unit 2
GESCO, Houston	Westinghouse, Cat No. QC1015,15A, single pole, 120V AC high voltage cubicle heater circuit breaker for Emergency Diesel Generator 23, Unit 2

Elgar	GE, Cat No. TJK426F000 Mod 5, 400A frame/300A trip, two pole, 600V AC, output breaker for 25KVA inverter rectifier, Unit 2.
Comsip	ITE, Cat No. P1515, 15A, two pole, 120V AC power for containment hydrogen monitoring panel, train A, Unit 2.

The MCCBs identified above were tested prior to being placed into service. This testing was accomplished either during preoperational testing or prior to return to service after maintenance or modification activities. This testing provides confidence that the MCCBs will continue to function as intended. Attachment 2 shows the procurement chain to the extent known for the twenty-six breakers (ten installed, fourteen in warehouse and two unknown) without verifiable traceability.

As of this date, there is no evidence of refurbished safety-related MCCBs or fraudulent documentation.

We will provide another update by June 1, 1989. Should you have any questions, please contact either or A. W. Harrison at (512) 972-7298.

S. L. Rosen
Vice President
Nuclear Engineering
and Construction

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Attachments:

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Houston Lighting & Power Company
South Texas Project Electric Generating Station

ST-HL-AE-3080
File No.: G20

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

In the Matter	)	
	)	
Houston Lighting & Power Company, et al.,	)	Docket Nos. 50-498 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 and Construction of Houston Lighting & Power Company; that he is duly authorized to sign and file with the Nuclear Regulatory Commission the attached update on additional actions being performed by HL&P relative to NRC Bulletin 88-10; 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
and Construction

STATE OF TEXAS)
)
)

Subscribed and sworn to before me, a Notary Public in and for the State of Texas this 1st day of May, 1989.

JACKIE A. GAULT
Notary Public, State of Texas
My Commission Expires 1-13-93

Notary Public in and for the
State of Texas

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NRC Bulletin 88-10 Status Report

Traceability Verification Status

Supplier	Qty/Manufacturer		Verified	In-Process	Unverifiable	Comments
ASEA Brown Boveri	70	ITE	54		16	10 in warehouse (Note 1) 5 installed (Note 2) 1 unknown (Note 3)
Comsip/Delphi	3	ITE			3	2 in warehouse (Note 1) 1 installed (Note 2)
Combustion Engineering	4	Heinemann	4			
Cooper	3	GE		3		
Elgar	3	GE	1		2	1 in warehouse (Note 1) 1 installed (Note 2)
Gamma-Metrics	3	Heinemann	3			
GESCO, Houston	2	GE			3	3 installed (Note 2)
	1	W				
Hatch	56	W		56		
Power Conversion Products	19	W		19		
Mercury of Norwood	4	W		4		

4-25-89
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NRC Bulletin 88-10 Status Report

Traceability Verification Status

Continued

Supplier	Qty/Manufacturer	Verified	In-Process	Unverifiable	Comments
Sorrento	11 Heinemann	2	7	2	1 in warehouse (Note 1) 1 unknown (Note 3)
Telemecanique	1181 ITE	895	286		
Westinghouse	22 Heinemann	16	6		
	22 W		22		
Total	1404 (note 4)	975	403	26	

Notes

(1) MCCBs segregated in warehouse. Inspection complete: Breakers are not refurbished

(2) JCO has been prepared.

(3) Effort to locate continuing.

(4) An additional five MCCBs were identified during the ITE review process which were not shown in HL&P's April 3, 1987 letter.

Legend

ITE - ITE/Gould/Siemens
GE - General Electric
W - Westinghouse
Heinemann - Heinemann

4-25-89
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ATTACHMENT 1
ST-HL-AE-3090
PAGE 2 OF 2

NRC Bulletin 88-10 Status Report

Procurement Chain to Extent Known for MCCBs with Unverifiable Traceability *

Supplier	Quantity	Subtier Supplier #1	Subtier Supplier #2	Subtier Supplier #3	Subtier Supplier #4
ASEA Brown Boveri	2	Advanced Industrial	AMFAC	No further traceability	
	1	AMFAC	No further traceability		
	13	Declared untraceable by Brown Boveri			
Comsip/Delphi	3	Associated Wholesale La Mirada, CA	Associated Wholesale Los Angeles, CA	Siemens warehouse Los Angeles, CA	Siemens warehouse Columbus, Ohio (probable)
		Declared Untraceable from Siemens warehouse in L.A. to Siemens warehouse, Columbus, OH			
Elgar	2	Declared untraceable at Elgar. Believed from GESCO, San Diego but records lost. Third Breaker which has had traceability confirmed was from GESCO San Diego who had documentation to CBM (GE, Plainville, CT)			
GESCO, Houston	3	Declared untraceable at GESCO, Houston			
Sorrento	2	Declared untraceable at Sorrento			

* This attachment describes the chain either as it does exist or is thought to exist. It could not be confirmed in all cases due to lack of traceability at some point. Attempts were also made to work the chain backwards from the circuit breaker manufacturer.

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ATTACHMENT 2
ST-HL-AE-3080
PAGE 1 OF 1