

# The Light company

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

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

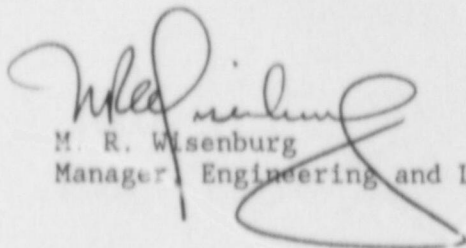
South Texas Project  
Unit 1  
Docket No. STN 50-498  
Proof & Review Technical Specification (Tech Specs) Changes

Please refer to our March 16, 1987 letter (ST-HL-AE-1984) which provided proposed changes and associated justifications for Proof and Review Technical Specifications.

As pointed out by the NRC Staff, a justification for a change to page 3/4 8-18 of the Tech Specs was proposed to allow a varied tolerance for testing of molded case circuit breakers as identified in the attachment of the referenced letter. However, the actual Tech Spec page identifying the proposed change was inadvertently not included in the letter.

Attached for your information and review are pages 3/4 8-18 and Bases page 3/4 8-3 which should have been included in the referenced letters.

We believe that this resolves the discrepancy. If you should have any questions on this matter, please contact Ms. Frostie A. White at (512) 972-7985.

  
M. R. Wisenburg  
Manager, Engineering and Licensing

FAW/ljm

Attachments: 1) Tech Spec page 3/4 8-18  
2) BASES page 3/4 8-3

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cc:

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

N. Prasad Kadambi, Project Manager  
U.S. Nuclear Regulatory Commission  
7920 Norfolk Avenue  
Bethesda, MD 20814

Robert L. Perch, Project Manager  
U.S. Nuclear Regulatory Commission  
7920 Norfolk Avenue  
Bethesda, MD 20814

Dan R. Carpenter  
Senior Resident Inspector/Operations  
c/o U.S. Nuclear Regulatory  
Commission  
P.O. Box 910  
Bay City, TX 77414

Claude E. Johnson  
Senior Resident Inspector/STP  
c/o U.S. Nuclear Regulatory  
Commission  
P.O. Box 910  
Bay City, TX 77414

M.D. Schwarz, Jr., Esquire  
Baker & Botts  
One Shell Plaza  
Houston, TX 77002

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

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

M.B. Lee/J.E. Malaski  
City of Austin  
P.O. Box 1088  
Austin, TX 78767-8814

A. von Rosenberg/M.T. Hardt  
City Public Service Board  
P.O. Box 1771  
San Antonio, TX 78296

Advisory Committee on Reactor Safeguards  
U.S. Nuclear Regulatory Commission  
1717 H Street  
Washington, DC 20555

George Smith  
Westinghouse Electric Corp.  
Monroeville Nuclear Center  
Northern Pike  
Monroeville, PA 15146

J.D. Shiffer  
Vice President  
Nuclear Power Generation  
Pacific Gas & Electric Company  
77 Beale Street, Room 1445  
San Francisco, CA 94160

Dr. W.R. Corcoran  
21 Broadleaf Circle  
Windsor, CT 06095

ELECTRICAL POWER SYSTEMS

SURVEILLANCE REQUIREMENTS (Continued)

- c) For each circuit breaker found inoperable during these functional tests, an additional representative sample of at least 10% of all the circuit breakers of the inoperable type shall also be functionally tested until no more failures are found or all circuit breakers of that type have been functionally tested.
- 2) By selecting and functionally testing a representative sample of at least 10% of each type of lower voltage circuit breakers. Circuit breakers selected for functional testing shall be selected on a rotating basis. Testing of these circuit breakers shall consist of injecting a current with a value equal to 300% of the pickup of the long-time delay trip element and 150% of the pickup of the short-time delay trip element, and verifying that the circuit breaker operates within the time delay band width for that current specified by the manufacturer. The instantaneous element shall be tested by injecting a current equal to  $\pm 20\%$  of the pickup value of the element and verifying that the circuit breaker trips instantaneously with no intentional time delay. Molded case circuit breaker testing shall also follow this procedure except that generally no more than two trip elements, time delay and instantaneous, will be involved. INSERT Circuit breakers found inoperable during functional testing shall be restored to OPERABLE status prior to resuming operation. For each circuit breaker found inoperable during these functional tests, an additional representative sample of at least 10% of all the circuit breakers of the inoperable type shall also be functionally tested until no more failures are found or all circuit breakers of that type have been functionally tested; and
- b. At least once per 60 months by subjecting each circuit breaker to an inspection and preventive maintenance in accordance with procedures prepared in conjunction with its manufacturer's recommendations.

INSERT The instantaneous element for molded case circuit breakers shall be tested by injecting a current for a frame size of 250 amps or less with tolerances of  $+40\%$  /  $-25\%$  and a frame size of 400 amps or greater of  $\pm 25\%$  and verifying that the circuit breaker trips instantaneously with no apparent time delay.



ELECTRICAL POWER SYSTEMSBASES3/4.8.4 ELECTRICAL EQUIPMENT PROTECTIVE DEVICES

Containment electrical penetrations and penetration conductors are protected by either deenergizing circuits not required during reactor operation or by demonstrating the OPERABILITY of primary and backup overcurrent protection circuit breakers during periodic surveillance. *When it can be shown that the energy released for a faulted condition is much less than the penetration can withstand, circuit breakers are not required.*

The Surveillance Requirements applicable to lower voltage circuit breakers and fuses provide assurance of breaker and fuse reliability by testing at least one representative sample of each manufacturer's brand of circuit breaker and/or fuse. Each manufacturer's molded case and metal case circuit breakers and/or fuses are grouped into representative samples which are then tested on a rotating basis to ensure that all breakers and/or fuses are tested. If a wide variety exists within any manufacturer's brand of circuit breakers and/or fuses, it is necessary to divide that manufacturer's breakers and/or fuses into groups and treat each group as a separate type of breaker or fuses for surveillance purposes.

The molded case circuit breakers will be tested in accordance with NEMA Standard Publication No. AB-2-1980. For a frame size of 250 amperes or less, the field tolerances of the high and low setting of the injected current will be within  $+40\%$  /  $-25\%$  of the setpoint (pickup) value. For a frame size of 400 amperes or greater, the field tolerance will be  $\pm 25\%$  of the setpoint (pickup) value. The circuit breakers should not be affected when tested within their tolerance.