

SOUTH CAROLINA ELECTRIC & GAS COMPANY

ATLANTA, GEORGIA
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O. W. DIXON, JR.
VICE PRESIDENT
NUCLEAR OPERATIONS

82 SEP 17 10 52
September 13, 1982

Mr. James P. O'Reilly, Director
U. S. Nuclear Regulatory Commission
Region II, Suite 3100
101 Marietta Street, N.W.
Atlanta, GA 30303

Subject: Virgil C. Summer Nuclear Station
Docket No. 50/395
Operating License No. NPF-12
Final Report
Torquing Square D Breaker Lugs

82 SEP 16

AM 1:00

USNRC REGION II
ATLANTA, GEORGIA

Dear Mr. O'Reilly:

On August 20, 1982, Mr. Virgil Brownlee of the NRC Region II was notified of a reportable significant deficiency concerning safety related Square D molded case breaker lugs in 480V motor control centers and panels not torqued to values specified. During a recent inspection of a Square D Company breaker installation, the QC inspector raised the question of torquing the breaker lug to 35 in-lbs. This breaker had a manufacturer's sticker that stated that for copper and aluminum cables, the lug should be torqued to 35 in-lbs.

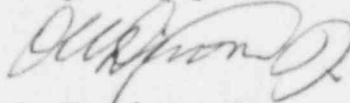
NCN 817 was generated by the QC department on the torquing of Square D molded case breakers in motor control centers and panels.

The Square D manual for the motor control center states that molded case breaker lugs should be torqued to specific torque settings as stated in the manual table.

A sample inspection was performed, and an excessive number of lugs were found that failed to meet specifications. Therefore, 100 percent inspection and retorquing was performed.

South Carolina Electric and Gas Company has determined that this item is reportable under 10CFR50.55e. This letter and the attached significant deficiency form serves as a final report of this matter.

Very truly yours,



O. W. Dixon, Jr.

TB:OWD:tdh

Attachment

cc: see page two

OFFICIAL COPY

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Mr. J. P. O'Reilly
Page two
September 13, 1982

cc: V. C. Summer w/o attach
T. C. Nichols, Jr. w/o attach
G. H. Fischer w/o attach
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D. A. Nauman
M. B. Whitaker, Jr.
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10CFR50.55(e) - SIGNIFICANT DEFICIENCY

1. Identification of Nonconformance

NCN 817 - Square D Company breaker barrel lugs were not torqued to required values.

2. Number and Location of Nonconformance

Breakers in XMC1DA2X, XMC1DA2Y, XMC1DA2Z, XMC1DB2X, XMC1DB2Y, XMC1DB2Z, XMC1EALX, XMC1EBLX, XMC1ECLX, and APN panels.

3. Significant Deficiency Created and Evaluation

The breakers operated properly electrically, however, the barrel lugs were not torqued to required settings. There was a probability that one or more of the breaker connections could have overheated, creating a potential for a fire.

4. Corrective Action

Terminations to "Square D" molded case breakers require torquing to the manufacturers recommended value. (Each breaker is tagged with the recommended minimum LB-IN. value). All future terminations to these breakers should be made per EMP 300.2 step 7.1.5 using the torque value stated on the breaker.