



LONG ISLAND LIGHTING COMPANY

SHOREHAM NUCLEAR POWER STATION

P.O. BOX 618, NORTH COUNTRY ROAD • WADING RIVER, N.Y. 11792

SNRC-524

December 30, 1980

Mr. Boyce H. Grier
Office of Inspection and Enforcement,
Region 1
U.S. Nuclear Regulatory Commission
631 Park Ave
King of Prussia, Pa 19406

LONG ISLAND LIGHTING COMPANY
SHOREHAM NUCLEAR POWER STATION - UNIT 1
DOCKET NO. 50-322

Dear Mr. Grier:

On December 4, 1980, in accordance with 10CFR50.55 (e), we reported verbally to Region 1 a deficiency with cable terminations in Square D supplied 480V Motor Control Centers. This letter serves as our 30 day written report of this deficiency.

DESCRIPTION OF DEFICIENCY

The deficiencies were discovered when construction electricians were terminating field cables in Motor Control Centers (MCC). Further investigations were performed to determine if the deficient terminations were isolated to just one MCC or were present in many of our safety and non-safety related MCCs. A partial survey of MCCs indicated that the problems appeared to be fairly widespread.

The problems found appear to be caused by a lack of adequate quality control in the method in which cable terminations were made in both safety and non-safety related MCCs. Termination lugs on vendor wiring have been found insufficiently crimped such that conductors can fall out of or easily be pulled out of their lugs. Other cases have been found where terminal block screws and screws on devices have not been tightened to secure the termination lugs in place. In addition to these violations, others have been found where terminating lugs

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have been bent further than permitted by the lug manufacturer and where the conductor has not been properly inserted into the lug before crimping. These deficiencies can cause intermittent or broken electrical circuits which might cause safety related equipment to fail to operate when required.

CORRECTIVE ACTION

Square D engineering and quality assurance have been appraised of this problem and a Square D quality assurance representative has visited the site to inspect samples of the deficient terminations.

Field electricians have removed and replaced deficient terminations in several of the MCCs that have been inspected. We are presently awaiting a response from Square D as to the results of their on site inspection before a full plan of corrective action is undertaken.

Since final corrective actions have not been developed at this time, a supplemental report will be submitted in 90 days. Final Corrective Action, Corrective Action to Prevent Recurrence and Date of Full Compliance will be provided at that time.

Very truly yours,

W. J. Museler for J. P. Novarro

J. P. Novarro
Project Manager
Shoreham Nuclear Power Station

TJS:mc

cc: Mr. Victor Stello, Director
NRC Office of Inspection and Enforcement
Division of Reactor Operations Inspection
Washington, DC 20555

Mr. J. Higgins
Site NRC Trailer