



LONG ISLAND LIGHTING COMPANY

SHOREHAM NUCLEAR POWER STATION

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

Direct Dial Number

July 14, 1983

SNRC-929

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulator
U.S Nuclear Regulatory Commission
Washington, D.C. 20555

Electrical Separation
Cables for Low Energy Lighting Fixtures
Shoreham Nuclear Power Station - Unit 1
Docket No. 50-322

Dear Mr. Denton:

This letter is to confirm certain agreements made in our conversation with Messrs. R. Caruso and J. Knox of your staff on June 22, 1983. LILCO initiated this phone call to obtain the Staff's concurrence with an alternate method of handling separation deviations which exist between certain low energy lighting fixture cables and Class 1E cables in free air or Class 1E cables in open cable trays.

A separation deviation exists if the cable between the lighting fixture and its twist-lock style outlet, mounted immediately above the lighting fixture, are separated by less than the required distance from free-air Class 1E cables or Class 1E cables in open cable trays.

Normally, this type of deviation is resolved at Shoreham by the installation of a qualified barrier to either the raceway or the free-air cable. The installation of a barrier serves to protect the Class 1E cables from damage that might be caused by adjacent faulted non-safety related cables.

The lighting fixture cords are 3 conductor, No. 14AWG SJO type cable and typically supply a twin 40 watt bulb flourescent lighting fixture which has a load current of less than 1 amp at 120 VAC.

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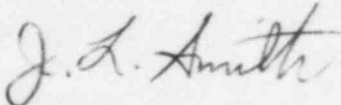
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LILCO proposed that, in-lieu-of installing barriers between these low energy cables and adjacent class 1E cables, a redundant circuit protection device (fuse) be provided immediately before the SJO cord. The redundant circuit protection will be sized and located to ensure that no credible faults involving the SJO cord or fixture can damage adjacent Class 1E cables.

Based upon the agreement reached with Messrs. Caruso and Knox with this proposal, LILCO is proceeding to implement this redundant circuit protection as an acceptable application for those fixtures for which the required separation distance is not maintained.

Should you have any questions, please contact this office.

Very truly yours,



J. L. Smith
Manager, Special Projects
Shoreham Nuclear Power Station

TJS:bc

cc: J. Higgins
All Parties Listed in Attachment 1

ATTACHMENT 1

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