



**Commonwealth Edison**

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Chicago, Illinois 60690

October 8, 1980

Mr. A. Bournia  
Licensing Branch No. 1  
Division of Licensing  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555

Subject: LaSalle County Station Units 1 and 2  
Seismic Qualification Review Program  
NRC Docket Nos. 50-373, 50-374  
FOR ADDRESSEE'S EYES ONLY

Dear Mr. Bournia:

This report augments and updates Edison's last transmittal of August 4, 1980 by inclusion of the Open Items List for BOP and NSSS equipment for which requalification testing is currently underway, reanalyses are not yet completed, or the last test reports are not yet in the file. Additionally, this report provides the latest spectra for the reactor building and for the auxiliary building. These combined response spectra are supplied for various elevations and they include the governing load cases in which NRC interest has centered from the Mark II Containment program. Adequate spectra are provided to enable a comparison for the reactor building, for instance, of the combined seismic and SRV spectra against the combined seismic and T-quencher spectra. Such comparisons provide a general framework for an understanding of the present loads associated with floor-and wall-mounted equipment.

Specific combined spectra are also included for those load combinations requested by the NRC. These six specific combined spectra include the latest chugging loads, condensation oscillation loads, and SRV-enveloping loads. These spectra are important for comparative purposes also. It is important to remember that the original LSCS design basis used bounding spectra from ramshead hydrodynamic loads in combination with normal and seismic loads. With change-over to the T-quencher design, the pertinent response spectra includes T-quencher hydrodynamic loads in combination with seismic and normal loads. The comparison of these original combined response spectra (ORSC) with the newer combined response spectra (NRSC) provides justification for accepting equipment qualifications based on the original design loads because the newer T-quencher combined loads are enveloped by the former. These spectra are submitted to justify that approach.

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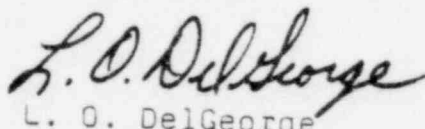
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The introduction to this report provides a historical background to assist the reviewers in roadmapping this and prior SQRT submittals. It outlines the SQRT assessment process employed for LSCS equipment both NSSS and BOP; it defines the acceptance criteria; and it elaborates on the requalification efforts for mechanical equipment, valves, electric equipment, and instrument. For completeness, the roadmap also mentions verification test efforts such as the in-site impedance test, the future SRV in-plant SRV test, and the characteristic fatigue evaluation, etc. These verification efforts not only provide confirmation on methodology and models, which is their primary objective, but also yield some experimental verification of natural resources and unique structure and equipment damping values. They also confirm the extent of cross-coupling. Such verification tests are not equipment qualification tests, per se, but are significant, in total, establishing credibility for the LSCS SQRT equipment qualification process.

If you have any questions in this regard, please direct them to this office. We will expect you to provide your equipment selection for our SQRT audit (scheduled for the week of October 27, 1980) by October 15, 1980 as was committed in our meeting of September 24, 1980.

Very truly yours,



L. O. DelGeorge  
Nuclear Licensing Administrator

Attachments

cc: Mr. R. Rahl (w/Att.)  
NRC Resident Inspector - LSCS (w/o Att.)

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