



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

*M. Bagchi*  
*PDR*

59-382

AUG 30 1982

MEMORANDUM FOR: Frank Miraglia, Chief  
Licensing Branch No. 3  
Division of Licensing

FROM: Zoltan R. Rosztoczy, Chief  
Equipment Qualification Branch  
Division of Engineering

SUBJECT: WATERFORD III SQRT VISIT REPORT FROM  
EG&G IDAHO, INC., JUNE, 1982 REVISION

The Seismic Qualification Review Team (SQRT), consisting of Engineers from the Equipment Qualification Branch (EQB) and the Idaho National Laboratory (INEL, EG&G IDAHO) conducted a site visit to the Waterford III site at Taft, Louisiana on September 15 through 18, 1981. The purpose of this visit was (1) to perform a plant site review for selected, safety-related, mechanical and electrical equipment and their supporting arrangements and (2) to observe field installations of the equipment in order to verify and validate equipment modeling employed in the qualification program.

Attachment 1 is a copy of the EG&G Idaho SQRT Visit Report, June, 1982 revision. This report itemizes the specific concerns with equipment reviewed during the September, 1981 visit to the Waterford III site. This report incorporates information received from the applicant following the audit up to June, 1982.

In addition to the specific concerns identified in the SQRT Visit Report, the following generic concerns were identified at the time of the site visit:

1. Nozzle loads were neglected or improperly applied on a large number of components.
2. Unacceptable methodologies were used on a number of components. For example, an inappropriate load input method was used for both the Nuclear Instrumentation Safety Channels and the Plant Protection System Cabinet. The analysis or tests with inappropriate methodologies may be considered acceptable for some components because of large conservatisms, but all plant equipment using these methodologies would need to be reviewed to determine their adequacy. In addition, although the plant was required to meet IEEE 344, 1975 much of the equipment reviewed was qualified to IEEE 344, 1971.

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3. During the site review a number of equipment supports, brackets, and screws were neglected or not installed in conformance with the qualification test or analysis configurations. Because of the low level of site installations completed in the plant at the time of the first site review, it was uncertain whether these additional supports, brackets, and screws would have been included in the complete installation. A more complete installation level in the plant should facilitate making a judgement on the sufficiency of the installations during the second review.

The generic concerns discussed above, as well as the specific concerns identified in the SQRT Visit Report should be satisfactorily addressed by the applicant prior to fuel load. In addition, as a result of the large number of negative findings, during the September, 1981 audit, it was determined at that time that a second SQRT audit would be necessary at the Waterford III site. This second audit is presently scheduled for the week of August 30, 1982. The results of that review will be used to determine the adequacy of the Waterford III seismic and dynamic qualification program. The staff's evaluation of that review will be covered in a future supplement to the Safety Evaluation Report.

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