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

V. Panciera

NOV 1 1979

Dr. Zudans
Franklin Research Center
The Benjamin Franklin Parkway
Philadelphia, PA 19103

Dear Dr. Zudans:

In accordance with our contractual agreement dated September 28, 1979, (Contract No. NRC-03-79-118) we request that you review the tentative work assignments listed in Enclosures 1 through 3. These enclosures provide a general scope of work and specific tasks to be accomplished.

In accordance with the NRC letter to Dr. M. M. Reddi of FRC dated October 24, 1979, we request that you provide us with a schedule for accomplishing this work.

Final work assignments will be made following receipt of acceptable schedules. The points of contact for this work are as follows:

1. Containment Leakage Testing - Y. S. Huang, Lead Engineer (301) 492-7175.

2. Equipment Component Qualification - E. Butcher (301) 492-7900.

3. Control of Heavy Loads - H. George (301) 492-7136.

4. V. W. Panciera, Performance Monitor (301) 492-8164.

G. Zech
Project Officer

Enclosures:
1. Tentative Work Assignment A - Containment Leakage Testing
2. Tentative Work Assignment B - Equipment Environmental Qualification
3. Tentative Work Assignment C - Control of Heavy Loads

cc: D. J. Dougherty

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TENTATIVE WORK ASSIGNMENT B -

EQUIPMENT ENVIRONMENTAL QUALIFICATION

SCOPE OF WORK

1.0 General

The overall scope of this work assignment is for the contractor to evaluate the environmental qualification of Class 1E electrical equipment in the following eleven operating reactors included in the NRC staff Systematic Evaluation Program:

San Onofre Unit 1 - TAC 12386
Palisades - 12385
Big Rock Point - 12377
Dresden Unit 1 - 12379
Dresden Unit 2 - 12380
Ginna - 12381
Haddam Neck - 12378
LaCrosse - 12382
Millstone Unit 1 - 12383
Oyster Creek - 12384
Yankee Rowe - 12387

Guidelines to be used by the contractor in its evaluations are provided in the NRC staff document entitled, "Guidelines for Evaluating Qualification of Class IE Electrical Equipment in Operating Reactors."

The general tasks outlined below are applicable to all eleven plant reviews. To assist the contractor in gaining facility in using the guidelines NRC personnel will participate directly in the first review (San Onofre). Also the first review will be considered a trial for the guidelines and review procedure. At the conclusion of this review the contractor will identify areas where additional guidance is required to facilitate the subsequent reviews or where a change to the review procedure is recommended.

2.0 Specific Tasks

The San Onofre review should begin as soon as possible. Manpower estimates are shown in parenthesis for each task. Tasks 1-5 are applicable to all the plant reviews. Task 6 is only applicable to the first review, San Onofre.

Task 1 - Desk Review of SEP Topic III - 12 Information (2 man/wks.) - A preliminary review of information compiled for SEP Topic III-12, Environmental Qualification of Safety-Related Equipment, will be reviewed in the office using the staff guidelines to identify, in advance of a planned site visit, issues to be discussed with the licensees at the plant and additional information required for review before the visit. A review of 100% of the equipment identified as Class IE will be conducted. Additional information required will be obtained via a telephone request to the licensee coordinated by the NRC lead engineer.

Task 2 - Site Visit (2 man/wks.) - A visit to the site will be made to examine qualification documentation and actual equipment installations. Discussions will be held with the licensee to clarify any points in question. The NRC lead engineer will participate in the site visit.

Task 3 - Prepare Written Requests for Additional Information (2 man/wks.) After the site visit, the contractor will provide formal written questions requesting any additional information required to identify whether equipment is qualified. The NRC lead engineer will obtain the necessary additional information and provide it to the contractor.

Task 4 - Initial Technical Evaluation (3 man/wks.) - The contractor will evaluate all of the information obtained in Tasks 1 through 3 using the NRC guidelines and report the results in an initial technical evaluation report. This report will identify deviations from the guidelines which are safety significant and provide recommendations for additional qualification work by the licensee and/or changes to the plant.

Task 5 - Final Technical Evaluation (2 man/wks.) - The contractor will evaluate the licensee's responses to the recommendations in the initial technical evaluation report and prepare a final technical evaluation report.

Task 6 - Evaluation of Staff Guidelines and Review Procedures (TAC 11924) (1 man/wk. First Plant Review Only) - Based on the experience gained in the San Onofre review, a critical review of the staff guidelines will be performed. Areas where additional guidance is required will be identified and changes to the guidelines or review procedures proposed. Any additional information available to supplement Appendix C, Thermal and Radiation Aging Degradation of Selected Materials, will be provided. A written report will be provided.

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Qualification Testing Evaluation Program Light-Water Reactor Safety Research Semiannual Report

OCTOBER 1979 - MARCH 1980

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5