

FEB 10 1978

MEMORANDUM FOR: Dennis L. Ziemann, Group Leader, Systematic Evaluation
Program Review Group, DOR

FROM: Newton R. Anderson, Systematic Evaluation Program
Review Group, DOR

SUBJECT: REPORT OF VISITS TO YANKEE ROWE, MILLSTONE 1 AND
HADDAM NECK FOR DISCUSSIONS ON ENVIRONMENTAL
QUALIFICATION OF CLASS 1E ELECTRICAL EQUIPMENT

This report covers three trips made by Newton Anderson, Daniel McDonald, and Philip DiBenedetto to Yankee Rowe, Millstone 1 and Haddam Neck Nuclear Power Plants for further discussions on the environmental qualification of Class 1E electrical equipment.

Discussions with the two utilities, Yankee Atomic Electric Company (YAEC) for Yankee Rowe and Northeast Utilities Service Company (NUSCo) for Millstone 1 and Haddam Neck, were concluded prior to touring the plants. The purpose of the environmental qualification review and the plant visits was explained. The Systematic Evaluation Program, SEP, was discussed in general and the relationship between the specific topic of environmental qualification of electrical equipment and the SEP was specifically explained. The licensees were given guidance with regard to the contents of their responses to the NRC letter of December 23, 1978. The staff emphasized that responses to the December 23 letter should: (1) include a comparison of the existing environmental qualification of safety-related electrical equipment with current requirement as specified in IEEE 323-1974 and Regulatory Guide 1.89 and (2) address other design basis events such as steam line break accidents, high energy line breaks outside containment and loading of equipment as well as the limiting loss of coolant accident.

Following the discussions the plants were toured for the purpose of observing the location and configuration of plant safety-related equipment. Each plant is discussed separately below.

THIS DOCUMENT CONTAINS
POOR QUALITY PAGES

8011140 375

P

FEB 10 1978

Yankee Rowe

YAEC has three people assigned to the SEP program, Jim Stacey, Dave Hansen and Jim Martin. They had already started collecting information and had selected a format for presenting the data which is in close agreement with the requirements developed by the SEP Group. The main steam line break is not a major problem at Yankee Rowe because only a limited amount of safety-related equipment is inside containment. There were no problem areas identified during the plant tour. Bill Lazarus, I&E principal inspector, and Stuart Ebnetter, I&E Region I Electrical and Instrumentation Supervisor, and Al Schwencer, DOR Projects Branch Chief, accompanied the SEP Team on the plant tour.

Millstone 1

A team of the SEP Group accompanied by Dennis Ziemann, SEP Group Leader, and John T. Shedlosky, I&E principal inspector, toured the Millstone plant on January 18, 1978. We did not go into the containment at Millstone. The off-gas system was being modified and radiation levels in the containment were higher than normal. The modifications for protection of high energy breaks outside containment were observed. No specific problem areas were noted.

Haddam Neck

Mr. Bill Lazarus, I&E principal inspector, accompanied the SEP team on the tour of the Haddam Neck facility. We entered the containment to observe the location of the unprotected terminal boards which are used for cable connections at the electrical penetrations. They are located opposite the main steam line penetrations and are protected from direct impingement of steam. Several piping system are located in the vicinity and all were identified for us. Touring the remainder of the facility revealed no obvious problem areas.

Newton R Anderson
Newton R. Anderson
Systematic Evaluation Program
Review Group
Division of Operating Reactors

83

OFFICE →	DOR: SEP	DOR: SEP				
SURNAME →	NRAnderson:ah	DLZiemann				
DATE →	2/16/78	2/17/78				

DISTRIBUTION

Docket File
NRC PDR
Local PDR
NRR Reading
E. Case
V. Stello
D. Eisenhut
K. Goller
R. Baer
W. Butler
B. Grimes
L. Shao
A. Schwencer
D. Davis
G. Lear
R. Reid
SEP Reading File
R. Devan
OELD
R. F. Fraley, ACRS (16)
I&E (3)
T. Abernathy
J. Buchanan
N. Anderson
D. McDonald
P. DiBenedetto