



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

AUG 12 1985

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APPLICANT: Public Service Electric & Gas Company
FACILITY: Hope Creek Generating Station
SUBJECT: SUMMARY OF JULY 18, 1985 ENVIRONMENTAL QUALIFICATION AUDIT
EXIT MEETING

During the period of July 15 through July 18, 1985, the NRC staff and its consultant, EG&G Idaho, conducted the environmental qualification audit of electrical equipment important to safety which are located in harsh environments. An exit meeting was held on July 18, 1985. Exit meeting attendees are identified in the Enclosure. During the audit the staff reviewed 10 files containing equipment qualification information. Also, a plant walkdown was conducted to verify the equipment installation and traceability of equipment to qualification reports. During the audit, one of the files was not reviewed because the environment present during accident conditions was no more severe than the environment during normal conditions. This equipment is not covered by 10CFR50.49, but should be included as part of mild environment equipment qualification review.

During the audit, the staff made several observations and comments on different equipment qualification files. These observations and comments have been discussed with PSE&G personnel and in most cases, agreement to resolve the comments has been reached. These comments and observations are summarized below.

1. During the audit, several minor comments were noted on SCEW sheets. PSE&G has agreed to make these changes and submit a marked up copy to the NRC to resolve the comments.
2. Out of 9 files reviewed, the staff and its consultant were able to resolve the comments on all files except for two files on the flexible conduit and Pyco thermocouples.

On Pyco thermocouples, PSE&G has agreed to send a letter to justify the thermal lag response time of the thermocouples with respect to the accuracy and set point requirements.

Regarding flexible conduit, PSE&G has used the similarity argument to justify the qualification of the flexible conduit. This similarity was based on the material only. The staff cannot accept the similarity based on material only. The similarity should also include items such as form, fit, and manufacturing process, etc.

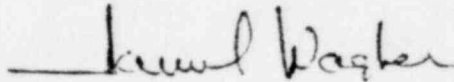
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3. During the plant walkdown, the following observations were made:
 - a. The tag identifying the equipment model, serial number, and other manufacturing information on the Standby Liquid Control (SLC) explosive valve was missing.
 - b. The tag on FCI level sensor body has ID. No. 1BC-LSH-4403C1, while the tag on the cable and external tag on the body has ID number LSH-4151-1. PSE&G was able to show the field requisition to change the tag number; however, the tag on the sensor body was not changed to match the cable and the metal tag.
 - c. One of the bolts on the casing of the Rotork Valve 1BC-HVC-F048A was missing.
 - d. The flexible conduit used in the reactor building was not included in the qualification program. A justification stating whether this will be included in the program or it is not required for equipment functional requirement and qualification purposes should be provided.

Based on these observations, the staff recommended that PSE&G should audit installed equipment and confirm that all the requirements relating to equipment qualifications, e.g. installation, traceability, etc., are followed.

4. The staff also briefly discussed the maintenance and surveillance program with PSE&G. During this discussion the staff suggested some improvements which should be included in the program. PSE&G stated that they are at various stages of the procedures to include equipment qualification requirements. PSE&G should confirm to the staff when all the procedures and training of the technicians are completed.
5. The staff briefly discussed the mechanical equipment qualification program and its status. The staff also identified three mechanical equipment qualification packages which should be sent for staff review.
6. The staff expressed concern regarding using average temperature for aging calculations. PSE&G has stated that in most cases they can use the maximum temperature as a basis for aging but for some areas, in order to avoid any penalty in terms of reduced qualified life, they might use a temperature monitoring system which will be used as a basis to confirm the temperature of the area.
7. During the walkdown, the staff also measured the body temperature of the Valcor and ASCO solenoid valves which were in the energized condition. The measurements were approximately 194° F and 128° F for VALCOR and ASCO solenoids, respectively. The ambient temperature was 86° F. Hence, for equipment which is continuously energized, the use of ambient temperature for the aging calculation is not justified. PSE&G should confirm that either there is no safety related equipment continuously energized or that they have included the temperature rise for the energized equipment for aging consideration.

In conclusion, the staff finds that the equipment qualification program at Hope Creek is in good condition and the staff did not find any major areas of concern except those which have been identified herein. In many cases, the applicant was able to resolve the staff's concerns during the audit.

A handwritten signature in dark ink, appearing to read "David Wagner". The signature is written in a cursive style with a horizontal line extending from the left side.

David Wagner, Project Manager
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Enclosure: As stated

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Public Service Electric & Gas Co. - 2 -

Hope Creek Generating Station

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Enclosure

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ENVIRONMENTAL QUALIFICATION AUDIT EXIT MEETING

HOPE CREEK GENERATING STATION

JULY 18, 1985

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M. Levine	PSE&G
B. Horst	PSE&G
S. Chaudhary	NRC
R. J. Griffith	PSE&G
S. LaBruna	PSE&G
R. Drewnowski	PSE&G
Ralph Campanella	PSE&G
Hukam Gary	NRC
David Beahm	EG&G
J. J. Wroblewski	PSE&G
D. K. Tom	Bechtel
M. S. Baxi	Bechtel
G. N. Kapandritis	Bechtel
C. W. Lambert	PSE&G
Riccardo D. Orazio	PSE&G
J. Thurber	N.J. Dept of the Public Advocate
R. Fryling	PSE&G
John Rucki	PSE&G
W. Mokoid	PSE&G

In conclusion, the staff finds that the equipment qualification program at Hope Creek is in good condition and the staff did not find any major areas of concern except those which have been identified herein. In many cases, the applicant was able to resolve the staff's concerns during the audit.

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