

Docket No. 50-354

JUN 19 1984

APPLICANT: Public Service Electric & Gas Company (PSE&G)

FACILITY: Hope Creek Generating Station

SUBJECT: HOPE CREEK FIRE PROTECTION MEETING

On April 18, 1984, a meeting was held in the Bethesda, Maryland offices of the NRC to discuss the Fire Protection open items identified in the Draft SER. Representatives from PSE&G, Bechtel Power Corporation and the NRC were in attendance (see Enclosure 1).

The open items discussed result from the staff review of the Hope Creek Fire Protection Program which can be found in Draft SER section 9.5.1. A summary of the open items and the current status of each is included as Enclosure 2 to this meeting summary.

The identified actions will be forwarded to the NRC by FSAR Amendment 6, to be submitted in late June 1984.

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Enclosures: As Stated

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MEETING TITLE: Hope Creek Fire Protection Meeting
APPLICANT: Public Service Electric & Gas Company
FACILITY: Hope Creek Generating Station
Date: April 18, 1984

<u>NAME</u>	<u>AFFILIATION</u>
Dave Wagner	U.S. NRC
Bill Pavincich	PSE&G
Bob Karcher	Bechtel
Fred Stumpp	Bechtel
Nancy Chapman	Bechtel
Mark Shadlock	PSE&G
Robert Mittl	PSE&G
Bruce A. Preston	PSE&G
William Gaily	PSE&G
David J. Sullivan	Bechtel
A. Valachovic	Bechtel
Thomas Storey	PSE&G
Peter A. Moeller	PSE&G
R. Eberly	U.S. NRC
Victor Benaroya	U.S. NRC

Item 1 (DSER §9.5.1.1, pg. 9-2)

The staff will require that the applicant provide descriptions of how the fire protection organization, responsibility assignments, and personnel qualification comply with the guidelines in BTP CMEB 9.5-1, Item C.1.a.

Response: PSE&G to update FSAR to include descriptions addressing BTP CMEB 9.5-1 points.

Item 2 (DSER §9.5.1.1, pg 9-2)

The staff is concerned that the mechanism by which fire and fire fighting systems may cause the simultaneous failure of redundant or diverse trains has not been adequately considered in the design. The staff will require that the applicant identify such mechanisms that were considered in his fire hazards analysis and the measures taken to preclude the fire or fire-suppressant-induced failure of redundant or diverse safety trains.

Response: PSE&G will submit a response noting additional modifications and measures taken to preclude failure.

Item 3 (DSER §9.5.1.2, pg 9-3)

The staff will require that the applicant provide details showing compliance with the guidelines of BTP CMEB 9.5-1, Item C.2 regarding administrative controls.

Response: PSE&G will revise FSAR to include assurances that administrative controls are receiving proper level of management attention.

Item 4 (DSER §9.5.1.3, pg. 9-3)

The staff will require that the applicant provide details showing compliance with the guidelines in BTP CMEB 9.5-1, Item C.3, in the establishment and training of the fire brigade.

Response: Details will be provided by the applicant.

Item 5 (DSER §9.5.1.4, pg 9-5)

Metal roof deck construction is noncombustible, but is not listed as "acceptable for fire" in the UL Building Materials Directory and, therefore, is not consistent with Section C.5.a.(10) of BTP CMEB 9.5-1. The staff will require the applicant to provide metal roof deck construction that is classed "acceptable for fire" in the UL building Materials Directory or that meets the criteria for Class 1 roof deck systems in the FM system approval guide.

Response: PSE&G to update FSAR to specify compliance with FM System approval guide.

Item 6 (DSER §9.5.1.4, pg 9-6)

Safe Shutdown Capability

The staff review of safe shutdown capability is ongoing and will be addressed in a supplement to this SER.

Response:

Review ongoing.

Item 7 (DSER §9.5.1.4, pg. 9-6)

Alternate or Dedicated Shutdown Capability

The staff review of alternate or dedicated shutdown capability is ongoing and will be addressed in a future supplement to this SER.

Response:

Review ongoing.

Item 8 (DSER §9.5.1.4, pg. 9-7)

The staff will require the applicant to provide automatic sprinklers in accordance with the guidelines in Section C.5.e of BTP CMEB 9.5-1.

Response: PSE&G will submit an analysis of fire loads for concentrated cable trays to justify current position.

Item 9 (DSER §9.5.1.5, pg. 9-9)

The staff will require the applicant to provide a system that complies with NFPA 72D for a Class A system, with detectors installed in accordance with NFPA 72E.

Response: PSE&G will investigate possible commitment to Class A for hot shutdown and will revise position as appropriate.

Item 10 (DSER §9.5.1.5, pg. 9-9)

Primary and secondary power supplies for the detection system in accordance with NFPA 72D, which the staff references in Section C.6.a(6) of its guidelines, have not been provided. The staff will require that primary and secondary power supplies for the fire detection system satisfy the provisions of Section 2220 of NFPA 72D. This can be accomplished by using normal offsite

power as the primary supply with a 4-hour battery supply as secondary supply; and by providing capability for manual connection to the Class 1E emergency power bus within 4 hours of loss of offsite power.

Response: Applicant will update FSAR to state compliance with Section 2220 of NFPA 72D.

Item 11 (DSER §9.5.1.5, pg. 10)

The staff will require the applicant to verify that each fire water pump has enough capacity to meet Section C.6.b of BTP CMEB 9.5-1.

Response: Information on this is included in Amendment 4 to the FSAR. Staff will review this information.

Item 12 (DSER §9.5.1.5, pg. 9-11)

Supervision has not been provided for all valves in the fire protection water supply system in accordance with NFPA 26. To meet staff guidelines in Section C.6.c of BTP CMEB 9.5-1, the type of valve supervised and the frequency at which its position is verified should be listed.

Response: Applicant will amend FSAR to state compliance with BTP.

Item 13 (DSER §9.5.1.5, pg. 9-11)

The applicant is not providing approved deluge valves for the deluge systems. This is not in accordance with NFPA 13 which the staff references in its guidelines. The staff will require the applicant to provide deluge valves approved by a nationally recognized testing laboratory as components for fire protection systems, as specified by NFPA 13, which the staff references in Section C.6.c of BTP CMEB 9.5-1.

Response: FSAR will be amended to state OL listing.

Item 14 (DSER §9.5.1.5, pg. 9-11)

Manual hose stations are located throughout the plant in accordance with NFPA 14. Three-inch-diameter piping is used to serve up to two hose stations in some areas. This does not meet staff guidelines. The staff will require the applicant to provide 4-in.-diameter piping consistent with the guidelines in Section C.6.c.(4) of BTP CMEB 9.5-1.

Response: Public Service will submit calculations of manual hose stations in which there is:
1) highest water flow
2) highest friction loss
to justify usage of 3" piping.

Item 15 (DSER §9.5.1.6, pg. 9-15)

To meet the guidelines in Section C.7.f of BTP CMEB 9.5-1, the staff will require that the applicant provide a ventilation system for the remote shutdown panel that is isolated from the main control room.

Response: Applicant will clarify FSAR to state that remote shutdown panel and the control room ventilation system are separate and independent.

Item 16 (DSER §9.5.2.6, pg. 9-15)

A 550-gal fuel oil day tank is provided in each diesel generator room. No enclosure or dike is provided for the day tanks. This is not consistent with staff guidelines. The staff will require that the applicant protect the day tanks in accordance with its guidelines in Section C.7.i of BTP CMEB 9.5-1.

Response: PSE&G to provide a civil drawing from which diversions and physical location of dikes can be determined. Applicant indicated that dikes were present around day tanks.