



**PSEG** Public Service  
Electric and Gas  
Company

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Robert L. Mittl General Manager  
Nuclear Assurance and Regulation

October 2, 1984

Director of Nuclear Reactor Regulation  
U.S. Nuclear Regulatory Commission  
7920 Norfolk Avenue  
Bethesda, Maryland 20814

Attention: Mr. Albert Schwencer, Chief  
Licensing Branch 2  
Division of Licensing

Gentlemen:

HOPE CREEK GENERATING STATION  
DOCKET NO. 50-354  
REVISED FSAR SECTION 13.2

Pursuant to discussions with the Licensee Qualifications Branch, enclosed for your review (see Attachment 1) is a copy of revised FSAR Section 13.2 concerning training programs.

The revised FSAR text is scheduled to be incorporated into Amendment 8 of the HCGS FSAR.

Should you have any questions or require any additional information on these responses, please contact us.

Very truly yours,

*RL Mittl / dec*

Attachments

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The Energy People

Director of Nuclear  
Reactor Regulation

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10/2/84

C D. H. Wagner  
USNRC Licensing Project Manager

W. H. Bateman  
USNRC Senior Resident Inspector

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ATTACHMENT I

*Replaces existing FSAR section 13.2.2 in its entirety.*

#### BCCS FSAR

#### 13.2.2 FIRE BRIGADE TRAINING PROGRAM

Fire protection training will be conducted in accordance with the guidelines of the SRP (NUREG 0800) Section 13.2.2.II.6, 10CFR50, Appendix R and Branch Technical Position CMEB 9.5.1, Section C.3.d. This training will include classroom instruction, hands-on fire extinguishing and plant drills.

The Fire Brigade Training Program is designed to ensure that the employees assigned to the fire brigade are capable of providing adequate manual fire fighting strategies to control fires that might occur at the Hope Creek Generating Station. The program will cover, but is not limited to the following:

- a. Indocuration of the plant fire fighting plan.
- b. Identification of fire hazards.
- c. The properties of the products of combustion.
- d. Identification and use of all fire fighting equipment.
- e. The proper use of communication, lighting, ventilation, and emergency breathing equipment.
- f. Familiarization with the layout of the plant, including access and egress routes to each area.
- g. Correct method of fighting fires, including fires in energized electrical equipment, fires in cable and cable trays, hydrogen fires, fires involving flammable and combustible liquids or hazardous process chemicals, fires resulting from construction or modifications (welding) and record file fires.
- h. The direction and coordination of the fire fighting activities (fire brigade leaders only).
- i. Detailed review of fire fighting strategies and procedures.
- j. Review of the latest plant modifications and corresponding changes in fire fighting plans.

The classroom instruction will include the following course material:

- a. Fire Fighting Plan
  1. Response to alarms
  2. Responsibility of members
  3. Reason for fire brigade

b. Identification of Fire Hazards

1. Concept of fire
2. Properties of flammable and combustible liquids
3. Hazardous chemical properties
4. Boiling liquid, expanding vapor explosion

c. Products of Combustion

1. Products of burning plastics
2. Products of smoke
3. Properties of carbon monoxide
4. Properties of contaminated smoke
5. Effects of heat
6. Ventilation

d. Fire Fighting Equipment

1. Fire detection
2. Fire suppression

e. Types of Fires

f. Auxiliary Equipment

g. Plant Modifications

Actual hands-on fire extinguishing will be conducted to provide brigade members with actual fire extinguishing and the use of emergency breathing apparatus under strenuous conditions. These practice sessions will be held at least once per year for each fire brigade member.

Plant drills will be held for each shift to allow fire brigade members the opportunity to practice as a team and to ensure adequate procedures and readiness.

Each fire brigade member must participate in at least two drills per year.

Each drill will include the simulated use of fire-fighting equipment required to cope with the situation and type of fire selected for the drill. The area and type of fire chosen for the drill will differ from those used in the previous drill so that brigade members are trained in fighting fires in various plant areas. The situation selected will simulate the size and arrangement of a fire that could reasonably occur in the area selected, allowing for fire development due to the time required to respond, to obtain equipment, and organize for the fire, assuming the loss of automatic suppression capability.

At least one drill per year will be performed on a back shift for each shift fire brigade.

At least one drill for each shift fire brigade per year will be unannounced to determine the fire fighting readiness of the plant fire brigade, brigade leader, and fire protection systems and equipment. Personnel planning and authorizing an unannounced drill will ensure that the responding shift fire brigade members are not aware that a drill is being planned until it is begun. Unannounced drills will not be scheduled closer than four weeks.

Unannounced drills will be planned and critiqued by members of the management staff responsible for plant safety and fire protection. Performance deficiencies of a fire brigade or individual fire brigade members will be remedied by scheduling additional training for the brigade or members. Unsatisfactory drill performance will be followed by a repeat drill within thirty days.

At three-year intervals, a randomly selected unannounced drill will be critiqued by qualified individuals independent of the licensee's staff. A copy of the written report from such individuals shall be available for NRC review.

Regularly planned meetings will be held every three months for all members to review changes to the program.

Periodic refresher training will repeat classroom instruction over a two-year period. These sessions may be concurrent with planned meetings.

Training of the plant fire brigade will be coordinated with the local fire department so that responsibilities and duties are delineated in advance. This coordination will be part of the training course and will be included in the training of the local fire department staff.

Local fire departments will be provided training in operational precautions when fighting fires on nuclear power plant sites and will be made aware of the need for radiological protection of personnel and the special hazards associated with a nuclear power plant site.

Instruction will be provided by qualified individuals who are knowledgeable, experienced and suitably trained in fighting types of fires that could occur in the plant and using types of equipment available in nuclear power plants.

Instruction will be provided for all employees once a year. It will be repeated on an annual basis. The instruction will be given on (1) the fire protection plant, (b) the evacuation routes, and (c) the procedure for reporting a fire.

Instruction will be provided for security personnel that addresses (a) entry procedures for outside fire departments, (b) crowd control for people exiting the station, and (c) procedures for reporting potential fire hazards observed when touring the facility.

Instruction will be provided to appropriate shift personnel that complements that given to members of the fire brigade.

Instruction will be provided to temporary employees so that they are familiar with (a) evacuation signals, (b) evacuation routes, and (c) the procedure for reporting fires.

Station personnel will participate in an annual accountability and evacuation drill.

#### Fire Protection Staff

Training for the fire protection staff members shall include courses in:

1. Design and maintenance of fire detection, suppression and extinguishing systems.
2. Fire prevention techniques and procedures.
3. Training and manual fire-fighting techniques and procedures for plant personnel and the fire brigade.