

February 21, 1986

Docket No. 50-334

Mr. J. J. Carey, Vice President
Duquesne Light Company
Nuclear Group
Post Office Box 4
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Dear Mr. Carey:

Subject: Beaver Valley Unit 1 - Correction of Error in Amendment
No. 18 (TAC 60213) and Request for Information

By letter dated June 6, 1979 we issued Amendment No. 18 addressing various fire protection requirements. It has recently come to my attention, through the November 18-22, 1985 Fire Protection Audit and your letter dated November 27, 1985, that there is a discrepancy between the SE attached to Amendment No. 18 and what you originally committed to do in your January 11, 1979 letter.

Enclosed please find corrected Pages 3-5, 3-9, 5-15 and 5-16 for the SE. While re-issuing these pages, we did note the following things:

1. Duquesne Light has not specifically addressed our position as stated in our letter of December 1, 1978, viz. ". . . the contaminated waste area . . . should be provided with an early warning detector and protected by an automatic water suppression system."
2. Inspection Report 80-03 did verify that administrative controls had been established for control of combustibles, and Inspection Report 85-25 addressed the interim measures you placed on the combustible waste storage area in the Auxiliary Building.

It therefore remains incumbent upon Duquesne Light to address the long-term solution of combustible waste storage; specifically, whether a new building would be constructed as you indicated, or, whether the staff's position would be followed. Your written response is requested within 45 days of receipt of this letter.

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Mr. J. J. Carey
Duquesne Light Company

Beaver Valley 1 Power Station

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Duquesne Light Company

Beaver Valley 1 Power Station

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3.12-2 Fire Retardant Wood

All untreated lumber and wood items in safety-related areas will be removed. All lumber and wood required for use in safety-related areas will be treated, fire retardant lumber. Large wooden timbers may be coated with a fire retardant compound. (6.1.3)

3.12-3 Containers

Approved trash containers made of sheet metal and equipped with self closing covers in safety-related areas. (6.1.3)

3.12-4 Contaminated Waste Storage

The licensee has not addressed the staff's position PF-18 as stated in the staff's letter of December 1, 1978. However, the licensee proposed to implement short-term administrative controls and, for the long-term, to construct a building for waste storage in "the near future". Details and date of completion of the building to be supplied.

3.12-5 Stairwells

Flammable materials stored in stairwells will be removed. (Completed) (6.1.3)

3.12-6 Procedures

Administrative Controls will be established and implemented to control combustibles in safety related areas. (6.1.3)

3.13 Fire Rated Penetrations

3.13-1 Cable Fire Stops - Fire Wall Penetrations

All fire barrier penetrations in safety-related areas will be properly sealed and all flammable materials used for damming will be removed. (4.9.3; 4.9.4)

3.13-2 Ceiling - Cable Spreading Room

Penetrations between the cable spreading room and the control room benchboards will be upgraded to three-hour rated fire barriers. (5.1.6)

3.14 Charging Pump Cubicle

Smoke detectors will be installed in each charging pump cubicle with alarm annunciation in the control room. (4.2)

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3.11 Diesel Generator Rooms

July 31, 1980

- 3.11.1 Drainage System
- 3.11.2 Oil Line Break
- 3.11.3 Curbing
- 3.11.4 Three-hour Fire Door
- 3.11.5 Fire Rating of Penetration
- 3.11.6 Sump Oil Level Detection
- 3.11.7 Manual Actuating Stations

3.12 Control of Unnecessary Combustibles

- 3.12.1 Flammable Liquids
- 3.12.2 Fire Retardant Wood
- 3.12.3 Trash Containers
- 3.12.4 Combustible Waste Storage
 - Short-term
 - Long term

June 30, 1979
December 31, 1979
June 30, 1979
October 31, 1980
To be determined
Completed
December 31, 1979

3.13 Fire Rating of Penetrations and Barriers

- 3.13.1 Cable Fire Stops - Auxiliary Bldg
- 3.13.2 Ceiling - Cable Spreading Room
- 3.13.3 Fire Wall Penetration - Switchgear Rooms

December 31, 1979
Complete
December 31, 1979

3.14 Charging Pump Cubicle

December 31, 1979

3.15 Fire Hoses

- 3.15.1 Booster Hoses
- 3.15.2 Testing

July 31, 1980
June 30, 1979

3.16 Gas Cylinder Storage

January 31, 1979

3.17 Floor Panel Lifter - Process Control Room

June 30, 1979

3.18 Cable Spreading Room - Fire Suppression

October 31, 1980

4. A control for shutting off the diesel fuel transfer pump outside of the diesel generator rooms will be provided.
5. Floor drains in the diesel generator rooms will be plugged.
6. A fail safe level detecting device will be installed in a sump close to the day tank to detect an oil accumulation due to a leak. High sump level will be annunciated in the control room.
7. Fire barrier wall penetration between Diesel Generator rooms will be evaluated and up-graded to a 3 hr barrier.

We find that, upon implementation of the above described modifications, the Diesel Generator Room's fire protection satisfies the objectives identified in Section 2.2 of this report and is, therefore, acceptable.

5.11 Primary Auxiliary Building PAR-1

5.11.1 Safety Related Equipment

Safety-related equipment required for safe shutdown is located in the Primary Auxiliary Building. It is adjacent to the service building, cable vault building and fuel building.

5.11.2 Combustible Materials

The only significant source of combustibles in this building are the charcoal filters in the main exhaust filter banks, electrical cable insulation in trays and unlabeled waste.

5.11.3 Consequences if No Fire Suppression

An unsuppressed fire in this area could result in a release of radioactive contaminated materials to the environment.

5.11.4 Fire Protection System

All exterior doors to adjacent buildings have 3-hour fire rating. All interior doors to stair towers in the PA building have 1 1/2 hour fire rating. The charcoal filter banks are provided with a water deluge spray system that is actuated automatically by heat detectors. Manual actuation capability is also provided. Portable CO₂ fire extinguishers and hose racks are provided throughout the PA building.

5.11.5 Adequacy of Fire Protection

Lack of detection could allow fire to propagate unnecessarily.

5.11.6 Modifications

Appropriate fire detection and suppression coverage with common control room alarm will be provided upon construction of the new waste storage facility.

We find that, subject to the construction of the new building and implementation of the control of combustible waste storage in the PA building, fire protection for this area satisfies the objectives identified in Section 2.2 of this report and is, therefore, acceptable.

5.12 Fuel Oil Storage Areas

5.12.1 Safety Related Equipment

Diesel generator fuel oil tanks are located underground, covered with sand and concrete slab and located 50 ft. from diesel generator cubicles.

5.12.2 Combustible Materials

Each of the fuel oil storage tanks contain 20,000 gallons of fuel oil.