



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION  
RELATED TO AMENDMENT NO. 79 TO FACILITY OPERATING LICENSE NO. NPF-57

PUBLIC SERVICE ELECTRIC & GAS COMPANY

ATLANTIC CITY ELECTRIC COMPANY

HOPE CREEK GENERATING STATION

DOCKET NO. 50-354

1.0 INTRODUCTION

By letter dated April 25, 1994, the Public Service Electric & Gas Company (the licensee) submitted a request for changes to the Hope Creek Generating Station, Technical Specifications (TSs). The requested changes would revise TS Section 3.8.1.1, "A.C. Sources - Operating," TS Section 3.8.1.2, "A.C. Sources - Shutdown," and associated Bases, to increase the required quantity of fuel in the Emergency Diesel Generator Fuel Oil Day Tanks from 200 to 360 gallons.

2.0 EVALUATION

The Hope Creek Generating Station has four Emergency Diesel Generators (EDGs) to supply A.C. power to safety-related components upon loss of offsite power. Each EDG is supplied with diesel fuel via two Fuel Oil Storage Tanks, a skid-mounted Fuel Oil Day Tank, and associated transfer pumps and piping.

As indicated in the licensee's April 25, 1994 letter, the EDG fuel oil storage system is sized in accordance with Regulatory Guide 1.137, Revision 1, which incorporates the ANSI N195-1976 requirements. With regard to Fuel Oil Day Tanks, Section 6.1 of ANSI N195-1976 requires that sufficient fuel oil be provided for a 60-minute EDG run time at 100% loading, with 10% margin, at which time fuel oil would be automatically added to the Day Tank. Amendment No. 59 to the Facility Operating License changed the required EDG run time, prior to fuel being added to the Day Tank, to 55-to-60 minutes.

At the present time, TS Section 3.8.1.1, "A.C. Sources - Operating," TS Section 3.8.1.2, "A.C. Sources - Shutdown," and associated Bases, requires that each Emergency Diesel Generator Fuel Oil Day Tank contain 200 gallons of fuel. As noted in NRC Inspection Report 50-354/92-80, the licensee stated that Fuel Oil Day Tank capacity provides for only 47 minutes of EDG operation prior to automatic fuel transfer from the storage tanks. The licensee's proposed increase in minimum Fuel Oil Day Tank capacity, in the TS, from 200 to 360 gallons, is intended to restore the required Fuel Oil Day Tank capacity to that required by Amendment No. 59.

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By letter dated May 28, 1993, the licensee provided information regarding EDG fuel storage capacity and consumption. Based upon a stated EDG fuel consumption of 5.8 gal/min at 100% of rated capacity, and approximately 39 gallons of unuseable fuel in the day tank, an indicated level of 360 gallons of fuel in the day tank will provide approximately 55 minutes of EDG operation. Accordingly, the proposed changes to the TS are acceptable.

### 3.0 STATE CONSULTATION

In accordance with the Commission's regulations, the New Jersey State Official was notified of the proposed issuance of the amendment. The State official had no comments.

### 4.0 ENVIRONMENTAL CONSIDERATION

The amendment changes a requirement with respect to installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20. The NRC staff has determined that the amendment involves no significant increase in the amounts, and no significant change in the types, of any effluents that may be released offsite, and that there is no significant increase in individual or cumulative occupational radiation exposure. The Commission has previously issued a proposed finding that the amendment involves no significant hazards consideration, and there has been no public comment on such finding (59 FR 29632). Accordingly, the amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(9). Pursuant to 10 CFR 51.22(b) no environmental impact statement or environmental assessment need be prepared in connection with the issuance of the amendment.

### 5.0 CONCLUSION

The Commission has concluded, based on the considerations discussed above, that: (1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, (2) such activities will be conducted in compliance with the Commission's regulations, and (3) the issuance of the amendment will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributor: D. H. Jaffe

Date: September 15, 1995