

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

# PUBLIC SERVICE ELECTRIC & GAS COMPANY

## ATLANTIC CITY ELECTRIC COMPANY

## DOCKET NO. 50-354

## HOPE CREEK GENERATING STATION

## AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No.91 License No. NPF-57

- The Nuclear Regulatory Commission (the Commission or the NRC) has found that:
  - A. The application for amendment filed by the Public Service Electric & Gas Company (PSE&G) dated January 20, 1995, as supplemented by letter dated December 18, 1995, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations set forth in 10 CFR
  - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
  - C. There is reasonable assurance: (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations set forth in 10 CFR Chapter I:
  - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
  - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.
- Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C.(2) of Facility Operating License No. NPF-57 is hereby amended to read as follows:

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## (2) Technical Specifications and Environmental Protection Plan

The Technical Specifications contained in Appendix A, as revised through Amendment No. 91, and the Environmental Protection Plan contained in Appendix B, are hereby incorporated into the license. PSE&G shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan.

3.

The license amendment is effective as of its date of issuance, to be implemented within 60 days.

FOR THE NUCLEAR REGULATORY COMMISSION

John F. Stolz, Director Project Directorate I-2 Division of Reactor Projects - I/II Office of Nuclear Reactor Regulation

Attachment: Changes to the Technical Specifications

Date of Issuance: February 6, 1996

- 2 -

## ATTACHMENT TO LICENSE AMENDMENT NO. 91

## FACILITY OPERATING LICENSE NO. NPF-57

## DOCKET NO. 50-354

Replace the following pages of the Appendix "A" Technical Specifications with the attached pages. The revised pages are identified by Amendment number and contain vertical lines indicating the area of change.

	Remo	ve		Insert	
	xvi			xvi	
	xxi			xxi	
	3/4	3-97		3/4	3-97
	3/4	3-99		3/4	3-99
	3/4	3-100		3/4	3-100
	3/4	3-102		3/4	3-10
	3/4	11-16		3/4	11-1
B	3/4	11-4	B	3/4	11-4
B	3/4	11-5	B	3/4	11-5
				6	-16a

INDEX

LIMITING CONDITIONS FOR OPERATION AND SURVEILLANCE REQUIREMENTS

SECTION		P	AGE
Main Condenser		3/4	11-17
Venting or Purging		3/4	11-18
3/4.11.3 SOLID RADIOACTIVE WASTE TREATMENT		3/4	11-19
3/4.11.4 TOTAL DOSE		3/4	11-20
3/4.12 RADIOLOGICAL ENVIRONMENTAL MONITORING			
3/4.12.1 MONITORING PROGRAM		3/4	12-1
Table 3.12.1-1 Radiological Environmental Monitoring Program		3/4	12-3
Table 3.12.1-2 Reporting Levels For Radioact Concentrations In Environment	ivity al		
Table 4.12.1-1 Detection Capabilities For		3/4	12-9
3/4 12 2 LAND THE CENTRE	• • • • • •	3/4	12-10
CALLE LEND USE CENSUS		3/4	12-13
3/4.12.3 INTERLABORATORY COMPARISON PROGRAM		3/4	12-14

1

INDEX

SECTION		PAGE
3/4.10 SPECIAL TEST EXCEPTIONS		
3/4.10.1 PRIMARY CONTAINMENT INTEGRITY		B 3/4 10-1
3/4.10.2 ROD SEQUENCE CONTROL SYSTEM		B 3/4 10-1
3/4.10.3 SHUTDOWN MARGIN DEMONSTRATIONS		B 3/4 10-1
3/4.10.4 RECIRCULATION LOOPS		B 3/4 10-1
3/4.10.5 OXYGEN CONCENTRATION		B 3/4 10-1
3/4.10.6 TRAINING STARTUPS	• •	B 3/4 10-1
3/4.10.7 SPECIAL INSTRUMENTATION - INITIAL CORE LOADING		B 3/4 10-1
3/4.10.8 INSERVICE LEAK AND HYDROSTATIC TESTING		B 3/4 10-2
3/4.11 RADIOACTIVE EFFLUENTS	1	
3/4.11.1 LIQUID EFFLUENTS		
Concentration		B 3/4 11-1
Dose	* *	B 3/4 11-1
Liquid Radwaste Treatment System		B 3/4 11-2
Liquid Holdup Tanks	• •	B 3/4 11-2
3/4.11.2 GASEOUS EFFLUENTS		
Dose Rate	2.7	B 3/4 11-2
Dose - Noble Gases	100	B 3/4 11-3
Dose - Todine-131, Todine-133, Tritium, and		0 0/4 22 0
Radionuclides in Particulate Form		B 3/4 11-3
Gaseous Radwaste Treatment System and	• •	0 3/4 22-3
Ventilation Exhaust Treatment Systems		B 3/4 11-4
Main Condenser	10	B 3/4 11-5
Venting or Purging	1.1	B 3/4 11-5
	· ·	D 5/4 11-5
3/4.11.3 SOLID RADIOACTIVE WASTE TREATMENT	• •	B 3/4 11-5
3/4.11.4 TOTAL DOSE		B 3/4 11-5

BASES

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## TABLE 3.3.7.11-1

## RADIOACTIVE GASEOUS EFFLUENT MONITORING INSTRUMENTATION

		INSTRUMENT	MINIMUM CHANNELS OPERABLE	APPLICABILITY	ACTION
1.	DEL	STED	,		
2.	FIL	TRATION, RECIRCULATION AND VENTILAT	NOIN		
	a.	Noble Gas Activity Monitor	1	•	123
	b.	Iodine Sampler	1	•	125
	c.	Particulate Sampler	1		125
	d.	Flow Rate Monitor	1	•	122
	е.	Sampler Flow Rate Monitor	1	•	122
3.	sour a.	TH PLANT VENT MONITORING SYSTEM Noble Gas Activity Monitor	1		123
	b.	Iodine Sampler	1	•	125
	c.	Particulate Sampler	1	•	125
	d.	Flow Rate Monitor	1		122
	e.	Sampler Flow Rate Monitor	1		112

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### TABLE 3.3.7.11-1 (Continued)

### TABLE NOTATION

\* At all times.

- ACTION 122 With the number of channels OPERABLE less than required by the Minimum Channels OPERABLE requirement, effluent releases via this pathway may continue provided the flow rate is estimated at least once per 4 hours. Otherwise, suspend release of radioactive effluents via this pathway.
- ACTION 123 With the number of channels OPERABLE less than required by the Minimum Channels OPERABLE requirement, effluent releases via this pathway may continue provided grab samples are taken at least once per 12 hours and these samples are analyzed for gross activity within 24 hours. Otherwise, suspend release of radioactive effluents via this pathway.

ACTION 124 - DELETED

ACTION 125 - With the number of channels OPERABLE less than required by the Minimum Channels OPERABLE requirement, effluent releases via this pathway may continue provided that within 8 hours samples are continuously collected with auxiliary sampling equipment as required in Table 4.11.2.1.2-1. I

### TABLE 4.3.7.11-1

# RADIOACTIVE GASEOUS EFFLUENT MONITORING INSTRUMENTATION SURVEILLANCE REQUIREMENTS

	INSTRUMENT	CHANNEL CHECK	SOURCE	CHANNEL CALIBRATION	CHANNEL FUNCTIONAL TEST	MODES IN WHICH SURVEILLANCE REQUIRED
1.	. DELETED					
2.	FILTRATION, RECIRCULATION, AND VENTILA MONITORING SYSTEM	TION				
	a. Noble Gas Activity Monitor	D	м	R <sup>(2)</sup>	Q <sup>(1)</sup>	
	b. Iodine Sampler	W	N.A.	N.A.	N.A.	
	c. Particulate Sampler	w	N.A.	N.A.	N.A.	
	d. Flow Rate Monitor	D	N.A.	R	0	
	e. Sampler Flow Rate Monitor	D	N.A.	R	Q	
3.	SOUTH PLANT VENT MONITORING SYSTEM					
	a. Noble Gas Activity Monitor	D	м	R <sup>(2)</sup>	Q <sup>(1)</sup>	
	b. Iodine Sampler	W	N.A.	N.A.	N.A	
	c. Particulate Sampler	W	N.A	N.A.	N.A.	
	d. Flow Rate Monitor	D	N.A.	R	0	
	e. Sampler Flow Rate Monitor	D	N.A.	R	0	

### TABLE 4.3.7.11-1 (Continued)

### TABLE NOTATION

- At all times.
- (1) The CHANNEL FUNCTIONAL TEST shall also demonstrate that control room alarm annunciation occurs if any of the following conditions exists:
  - Instrument indicates measured levels above the alarm setpoint.
  - 2. Circuit failure.
  - 3. Instrument indicates a downscale failure.
- (2) The initial CHANNEL CALIBRATION shall be performed using one or more of the reference standards certified by the National Bureau of Standards (NBS) or using standards that have been obtained from suppliers that participate in measurement assurance activities with NBS. These standards shall permit calibrating the system over its intended range of energy and measurement range. For subsequent CHANNEL CALIBRATION, sources that have been related to the initial calibration or are NBS traceable shall be used.

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## RADIOACTIVE EFFLUENTS

3.11.2.6 DELETED

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## RADIOACTIVE EFFLUENTS

#### BASES

DOSE - IODINE-131, IODINE-133, TRITIUM, AND RADIONUCLIDES IN PARTICULATE FORM (Continued)

the requirements in Section III.A of Appendix I that conformance with the guides of Appendix I be shown by calculational procedures based on models and data, such that the actual exposure of a MEMBER OF THE PUBLIC through appropriate pathways is unlikely to be substantially underestimated. The ODCM calculational methodology and parameters for calculating the doses due to the actual release rates of the subject materials are consistent with the methodology provided in Regulatory Guide 1.109, "Calculation of Annual Doses to Man from Routine Releases of Reactor Effluents for the Purpose of Evaluating Compliance with 10 CFR Part 50, Appendix I, " Revision 1, October 1977 and Regulatory Guide 1.111, "Methods for Estimating Atmospheric Transport and Dispersion of Gaseous Effluents in Routine Releases from Light-Water-Cooled Reactors, \* Revision 1, July 1977. These equations also provide for determining the actual doses based upon the historical average atmospheric conditions. The release rate specifications for iodine-131, iodine-133, tritium, and radionuclides in particulate form with half lives greater than 8 days are dependent upon the existing radionuclide pathways to man, in the areas at and beyond the SITE BOUNDARY. The pathways that were examined in the development of these calculations were: (1) individual inhalation of airborne radionuclides, (2) deposition of radionuclides onto green leafy vegetation with subsequent consumption by man, (3) deposition onto grassy areas where milk animals and meat producing animals graze with consumption of the milk and meat by man, and (4) deposition on the ground with subsequent exposure of man.

## 3/4.11.2.4 AND 3/4.11.2.5 GASEOUS RADWASTE TREATMENT AND VENTILATION EXHAUST TREATMENT

The OPERABILITY of the GASEOUS RADWASTE TREATMENT SYSTEM and the VENTILATION-EXHAUST TREATMENT SYSTEM ensures that the system will be available for use whenever gaseous effluents require treatment prior to release to the environment. The requirement that the appropriate portions of these systems be used, when specified, provides reasonable assurance that the releases of radioactive materials in gaseous effluents will be kept "as low as is reasonably achievable." This specification implements the requirements of General Design Criterion 60 of Appendix A to 10 CFR Part 50, and the design objectives given in Section II.D of Appendix I to 10 CFR Part 50. The specified limits governing the use of appropriate portions of the systems were specified as a suitable fraction of the dose design objectives set forth in Sections II.B and II.C of Appendix I, 10 CFR Part 50, for gaseous effluents.

3/4.11.2.6 DELETED

### RADIOACTIVE EFFLUENTS

BASES

#### 3/4.11.2.7 MAIN CONDENSER

Restricting the gross radioactivity rate of noble gases from the main condenser provides reasonable assurance that the total body exposure to an individual at the exclusion area boundary will not exceed a small fraction of the limits of 10 CFR Part 100 in the event this effluent is inadvertently discharged directly to the environment without treatment. This specification implements the requirements of General Design Criteria 60 and 64 of Appendix A to 10 CFR Part 50.

### 3/4.11.2 5 VENTING OR PURGING

This specification provides reasonable assurance that releases from drywell purging operations will not exceed the annual dose limits of 10 CFR Part 20 for UNRESTRICTED AREAS.

### 3/4.11.3 SOLID RADIOACTIVE WASTE TREATMENT

This specification implements the requirements of General Design Criterion 60 of Appendix A to 10 CFR Part 50. The process parameters included in establishing the PROCESS CONTROL PROGRAM may include, but are not limited to waste type, waste pH, waste/liquid/solidification agent/catalyst ratios, waste oil content, waste principal chemical constituents, and mixing and curing times. The purpose of the PROCESS CONTROL PROGRAM is to provide quality asturance that the solidified waste meets 10 CFR Part 61 requirements.

### 3/4.11.4 1CTAL DOSE

This specification is provided to meet the dose limitations of 40 CFR Part 190 that have been incorporated into 10 CFR Part 20 by 46 FR 18525. The specification requires the preparation and submittal of a Special Report whenever the calculated doses from plant generated radioactive effluents and direct radiation exceed 25 mrems to the total body or any organ, except the thyroid, which shall be limited to less than or equal to 75 mrems. For sites containing up to 4 reactors, it is highly unlikely that the resultant dose to a MEMBER OF THE PUBLIC will exceed the dose limits of 40 CFR Part 190 if the individual reactors remain within twice the dose design objectives of Appendix 1, and if direct radiation doses from the reactor units including outside storage tanks, etc. are kept small. The Special Report will describe a course of action that should result in the limitation of the annual dose to a MEMBER OF THE PUBLIC to within the 40 CFR Part 190 limits. For the purposes of the Special Report, it may be assumed that the dose commitment to the MEMBER OF

#### ADMINISTRATIVE CONTROLS

### d. Explosive Gas Monitoring

This program provides controls for potentially explosive gas mixtures contained in the Main Condenser Offgas Treatment System. The program shall include the limit for hydrogen concentration in the Main Condenser Offgas Treatment System and a surveillance program to ensure the limit is maintained. This limit shall be appropriate to the system's design criteria (i.e., whether or not the system is designed to withstand a hydrogen explosion).

The provisions of Surveillance Requirements 4.0.2 and 4.0.3 are applicable to the Explosive Gas Monitoring Program surveillance frequencies.