U.S. NUCLEAR REGULATORY COMMISSION

OFFICE OF INSPECTION AND ENFORCEMENT

REGION I

IE Inspection Report No: 50-2]9/75-12	Docket No:	50-2]9
Licensee: Jersey Central Power & Light Co.	License No:	DPR-16
Madison Ave at Punch Bowl Road	Priority:	I
Morristown, N. J. 07960	Category:	С
Location: Oyster Creek Nuclear Generating Station	Safeguards Group:	
Type of Licensee: BWR, 640 MWe		
Type of Inspection: Waste Management Systems (Unannounced)		
Dates of Inspection: April 29-May 1, 1975		
Dates of Previous Inspection: March 25-27 and April 8-10, 19	975	
Reporting Inspector: Elat & Myson		5/21/75
Robert R. Hyson, Radiation Specialist		Date
Accompanying Inspectors:		Date
		Date
		Date
		Date
Other Accompanying Personnel:		Date
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Reviewed By: R.J. Meyer		5/23/75
P. J. Knapp, Chief, Facilities Radiation Protection Section		Date

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SUMMARY OF FINDINGS

Enforcement Action

A. Items of Noncompliance

1. Violations

None

2. Infractions

Failure to calibrate the liquid process radiation monitor during the last quarter, 1974, and the first quarter, 1975, as required by Technical Specification 4.6.A. (Details, Paragraph 2 d & e)

3. Deficiencies

None

B. Deviations

None

Design Changes

Not inspected

Unusual Occurrences

None

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Other Significant Findings

A. Current Findings

1. Acceptable Area

a. Liquid Releases

A review of the liquid radioactive releases was conducted. (details, Paragraph 2)

b. Gaseous Releases

A review of gaseous and iodine and particulate releases was conducted. (Details, Paragraph 3)

c. Reactor Coolant Quality

A review of measured parameters in the reactor coolant was made. (Details, Paragraph 6)

d. Filter Testing

A review of the frequency and results of HEPA filters and charcoal adsorbers in the standby gas treatment system was reviewed. (Details, Paragraph 5)

2. Unresolved Items

None

3. Items Identified and Corrected by the Licensee

Infraction

None

Deficiency

None

Management Interview

A management interview was held at the site on May 1, 1975.

Persons Present

BONTUM

Mr. D. A. Ross, Manager, Stations

Mr. J. Carroll, Station Sup rintendent

Mr. E. Growney, Technical Engineer

Mr. R. Pelrine, Chemistry Supervisor

Mr. R. Stoudnour, Staff Engineer

Items Discussed

A. Purpose of the Inspection

The inspector stated that this was an in-depth inspection of the licensee's waste management systems for the period from about June 1974 to the present. The areas of specific concern were delineated as follows.

DETAILS

1. Individuals Contacted

- J. Carroll, Station Superintendent
- D. Reeves, Chief Engineer
- R. Pelrine, Chemistry Supervisor
- R. Stoudnour, Environmental Engineer
- E. Growney, Technical Engineer
- E. Scalsky, Radiation Protection Supervisor
- C. Konta, Chemistry Foreman
- J. Sullivan, Operations Supervisor
- R. Baran, Engineering Assistant
- D. Wiegle, Engineering Assistant

2. Liquid Waste System

- a. A review by the inspector of the licensee's liquid waste releases since the last inspection indicated that the releases were within Technical Specification limits. This review revealed that the licensee's measurements program for specific radionuclides was conducted in accordance with regulatory requirements.
- b. The inspector determined that proper data reduction techniques were being employed by the licensee in obtaining the amounts and concentrations of liquid radioactivity released from the facility.
- c. The inspector determined by discussions with licensee representatives and review of records that the licensee's functional tests of the liquid radwaste monitor were consistent with regulatory requirements.
- d. The inspector noted that the documentation of the last two required quarterly calibrations of the liquid radwaste monitor were inadequate to the extent that they could not be considered actual calibrations. The licensee placed four disc sources of varying source strengths against the detector of each monitor to check detector response. The results were as follows for the two periods noted below:

Date	Source No.	Detection	Desired	Reading*	Observed	Reading
11/31/74	1	RNO2-A	370	cps	380	cps
	2			cps		cps
	3			cps		cps
	4			cps		срв
	1	RNO2-D	370	cps	390	cps
	2			cps		cps
	3			cps		cps
	4			cps		cps
2/13/75	1	RNO2-A	369	cps	390	cps
	2			cps		cps
	3			cps		cps
	4			cps		cps
	1	RNO2-D	379	cps	400	cps
	2			. cps		cps
	3			cps		cps
	4			cps		cps

^{*}Background included

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The inspector noted that the space alloted on the calibration documentation sheet for final observed reading was not completed. Normally, if the initially observed readings vary significantly (±20%) from the desired readings; then the monitor is adjusted to respond correctly to the desired readings of the check source so as to be in calibration. The inspector informed the licensee that the failure to adjust his monitor to the desired check source readings appeared to constitute a failure to calibrate his liquid radwaste monitors for the last quarter of 1974 and the first quarter of 1975. The licensee agreed to calibrate his liquid radwaste monitors, immediately, and to determine the cause of their failure to respond properly upon detector stimuli. The inspector futher noted that for two years previous to the 11/31/74 calibration attempt the monitor responded appropriately.

3. Gaseous Waste Systems

- a. The inspector reviewed the records of the gaseous waste release since the last inspection and found that the releases were within Technical Specification limits.
- b. The inspector determined that proper data reduction techniques were being employed by the licensee in obtaining the amounts and concentrations of gaseous radioactivity released form the facility.

c. The inspector determined by discussions with licensee representtives and review of records that the licensee's calibration and functional tests, effluent monitor calibrations, and alarm and isolation settings of the offgas monitor were consistent with regulatory requirements.

4. Containment and ventilation systems

The inspector determined by reviews of records and discussions with licensee representatives that periodic surveillance filter testing on the standby gas treatment system was conducted as per Technical Specification requirements.

5. Filter Systems Testing

The inspector reviewed the test procedures and results of tests and determined that the filter systems (HEPA and charcoal absorbers) were periodically tested as required by Tech Specs, and, that the test results were consistent with requirements.

6. Reactor Coolant Quality

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- a. The inspector determined from discussions with licensee representatives and review of records that the frequency and results of analyses of the reactor coolant were consistent with Tech Spec requirements.
- b. The inspector noted that the reactor coolant iodine activity since the last inspection was maintained at less than 20% of the Tech Spec limit of 8.0 μ Ci/ml.
- c. The inspector noted that the licensee could not provide adequate documentation to establish that the disc sources used for the liquid radwaste monitor calibration are referenced to the original calibration curves; although the licensee felt that this had been done historically. The inspector noted that the original curves were available. The licensee agreed to properly recalibrate the liquid radwaste monitors using a calibrated liquid standard and a mock-up of the liquid radwaste monitor spool piece. The monitor would then be checked with the disc check sources to establish a documented reference to the newly generated calibration curves. The licensee representative indicated that this liquid calibration would be performed at the next calibration.

d. The inspector noted that much confusion existed among licensee representatives as to the basis for the liquid radwaste monitor alarm setpoints. In response to the inspector's expressed concern about this confusion, the licensee agreed to reevaluate the alarm setpoint basis following the monitor recalibration and to distribute the results of the reevaluated basis to the plant personnel who are expected to be cognizant of the basis.

The inspector noted that the primary basis for evaluating liquid releases made to the environs is an isotopic gamma, gross beta and gross alpha analysis of a liquid sample from each waste sample tank or laundry drain tank prior to its release of contents. The liquid process effluent monitor's function is to serve as an added assurance against releasing an amount of liquid radioactivity in excess of regulatory requirements, in the case of an occurrence such as an improperly analyzed sample, the lack of homogeneity of the sample analyzed, etc.

e. The inspector noted that the licensee had not made any liquid releases between September, 1974, and April, 1975. During April, 1975, 17 releases were made which included approximately 290,000 µCi of gross gamma activity and 20,000 µCi of $^3\mathrm{H}_2\mathrm{O}$. The licensee representative indicated that these releases were made in conjunction with the refueling outage operations which took place in April.

7. Procedures

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The inspector noted that several of the chemistry procedures being used for procuring and analyzing radiochemical samples were still in the draft stage and that some procedures for sample analyses were in neither a draft nor a formalized stage. The licensee stated that all chemical and radiochemical procedures involving sampling and analysis would be formalized and appropriately reviewed and approved by August 15, 1975.

The licensee indicated that there had been no changes in procedures related to waste management since the last inspection.

8. Personnel Exposures

- a. The inspector through discussions with the cognizant licensee representative noted that the personnel exposures since IE:I inspection 50-219/75-09 were consistent with regulatory requirements.
- b. The inspector noted through discussions with the cognizant licensee representative that extremity badges were continuing to be used and evaluated for operations requiring them, as per the licensee commitment made during IE:I Inspection as discussed in Report No. 50-219/75-09.

OUTSTANDING ITEM LIST

Pacility/Licensee: Onther Green Japan License No. 1.

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