

UNITED STATES
ATOMIC ENERGY COMMISSION
WASHINGTON, D.C. 20545

AUG 20 1971

D. J. Skovholt, Assistant Director for Reactor Operations, DRL
JERSEY CENTRAL POWER & LIGHT COMPANY - OYSTER CREEK, CO REPORT NO. 219/71-1

The enclosed report of inspections of the subject facility on April 8, and 12-13, 1971, is forwarded for information.

Several deficiencies involving noncompliance or safety considerations were identified during these inspections. The most significant of these are as follows:

- a. A nonconservative error of a factor of approximately 2.5 was found in the calibration of the laboratory gross beta analyzer used in determining radioactivity in liquid effluents. This error is caused by the failure to apply the proper geometric correction factor to the calibration calculations.
- b. An additional nonconservative error of a factor of approximately three (3) was identified in comparing the total activity as determined by isotopic analyses (beta + gamma) of liquid waste samples with the total activity determined by gross beta analysis after applying an appropriate correction factor for gross beta counter geometry (see a. above).
- c. Applying the correction factors discussed above to the 1970 liquid effluents indicates that the annual average concentration of unidentified radionuclides was in excess of 1×10^{-7} uCi/ml. The licensee is currently reviewing 1970 liquid effluents to develop an appropriate correction factor.
- d. A review of the operation of the in-line liquid waste monitor indicates that it does not perform its intended function and has not been capable of detecting the errors in the laboratory analyses.
- e. The performance of the liquid waste system is not meeting design objectives to limit radioactive effluents from the plant. System design objectives specified that waste collection drains are "essentially always reused as condensate"; however, more than 90% of this water was released to the circulating water system during 1970. Furthermore, the system evaporator has not been utilized to the extent practicable.

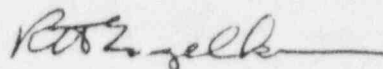
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D. J. Skovholt

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We are currently reviewing our findings and expect to issue an enforcement letter to the licensee in the near future.

Although the deficiencies identified during the inspection reflect adversely on the procedures for handling and processing radioactive liquid wastes, we do not consider that this reflects a general breakdown in management controls or a change in the positive attributes manifested by company management during our October 1970 inspection of management controls (CO Report No. 219/70-8). The deficiencies which were observed are typical of those which we are finding at a number of other facilities during our current in-depth review of effluent monitoring and effluent control procedures at operating power reactors. With regard to the specific deficiencies detected, we have confirmed that appropriate corrective measures have been or are being implemented.



R. H. Engelken, Assistant Director
for Inspection and Enforcement
Division of Compliance

Enclosure:
CO Report No. 219/71-1

cc: E. G. Case, DRS(3)
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U.S. ATOMIC ENERGY COMMISSION
 COMPLIANCE STATISTICAL DATA

A P	A. DOCKET NUMBER 050-00363	B. REPORT NUMBER 71-02	C. PRIORITY/CATEGORY A	INQ./INSPECTION/INVESTIGATION DATES FROM TO D. 6/29/71 E. 6/30/71		F. REGION CONDUCTING ACTIVITY CO:I
	LICENSEE/VENDOR Jersey Central Power and Light Co.			FACILITY Forked River		LICENSE NUMBER Not Issued
G	ACTIVITY CONDUCTED: 1 <input checked="" type="checkbox"/> INSPECTION 2 <input type="checkbox"/> INQUIRY 3 <input type="checkbox"/> INVESTIGATION 4 <input type="checkbox"/> VENDOR INSPECTION 5 <input type="checkbox"/> MANAGEMENT VISIT 6 <input type="checkbox"/> INQUIRY-NON LICENSEE					
H	INSPECTION/INVESTIGATION RESULTS: 1 <input type="checkbox"/> S91 2 <input checked="" type="checkbox"/> REGIONAL OFFICE LETTER 3 <input type="checkbox"/> REFERRED TO HQS FOR ACTION					
J	INSPECTION/INVESTIGATION FINDINGS: 1 <input checked="" type="checkbox"/> CLEAR 2 <input type="checkbox"/> SAFETY ITEM 3 <input type="checkbox"/> NONCOMPLIANCE 4 <input type="checkbox"/> NONCONFORMANCE					
K	FIELD ACTION AS A RESULT OF INQUIRY 1 <input type="checkbox"/> CONDUCT INVESTIGATION 2 <input type="checkbox"/> REVIEW NEXT INSPECTION 3 <input type="checkbox"/> REFER TO OTHER REGION 4 <input type="checkbox"/> REFER TO NON-REG. AUTH. 5 <input type="checkbox"/> REFER TO OTHER REG. OFFICE 6 <input type="checkbox"/> HQS FOR ACTION 7 <input type="checkbox"/> NO FURTHER ACTION					

L	M	N
01 <input type="checkbox"/> IMMEDIATE THREAT TO HEALTH AND SAFETY	01 <input type="checkbox"/> TYPE A INT. OVEREXPOSURE	01 <input type="checkbox"/> NO ACTION REQUIRED
02 <input type="checkbox"/> COMPLEX ITEM INVOLVING: NONCOMPLIANCE/NONCONFORMANCE	02 <input type="checkbox"/> TYPE A EXT. OVEREXPOSURE	02 <input type="checkbox"/> LETTER-CLEAR
03 <input type="checkbox"/> LICENSING PROBLEM	03 <input type="checkbox"/> TYPE A RELEASE	03 <input type="checkbox"/> LETTER-NONCOMPLIANCE
04 <input type="checkbox"/> POLICY MATTER	04 <input type="checkbox"/> TYPE A LOSS OF FACILITY	04 <input type="checkbox"/> LETTER-SAFETY ITEM
05 <input type="checkbox"/> INTERPRETATION	05 <input type="checkbox"/> TYPE A PROPERTY DAMAGE	05 <input type="checkbox"/> PART 2 NOTICE
06 <input type="checkbox"/> SAFETY ITEM	06 <input type="checkbox"/> TYPE B INT. OVEREXPOSURE	06 <input type="checkbox"/> PART 2 NOTICE AS RESULT OF FOLLOWUP TO REGIONAL OFFICE LETTER
07 <input type="checkbox"/> MANAGEMENT DEFICIENCY	07 <input type="checkbox"/> TYPE B EXT. OVEREXPOSURE	07 <input type="checkbox"/> ORDER
08 <input type="checkbox"/> INADEQ. REPLY TO LETTER	08 <input type="checkbox"/> TYPE B RELEASE	08 <input type="checkbox"/> REFER TO ORL FOR RESOLUTION
09 <input type="checkbox"/> NO REPLY TO LETTER	09 <input type="checkbox"/> TYPE B LOSS OF FACILITY	09 <input type="checkbox"/> REFER TO ORL FOR INFORMATION
10 <input type="checkbox"/> NO CORRECTIVE ACTION PLANNED	10 <input type="checkbox"/> TYPE B PROPERTY DAMAGE	10 <input type="checkbox"/> REFER TO DML FOR RESOLUTION
11 <input type="checkbox"/> INADEQUATE CORRECTIVE ACTION PLANNED	10 CFR 29.405	11 <input type="checkbox"/> REFER TO DML FOR INFORMATION
12 <input type="checkbox"/> HQS LETTER REQUIRED	11 <input type="checkbox"/> INTERNAL OVEREXPOSURE	12 <input type="checkbox"/> REFER TO REGION TO CLOSE OUT
13 <input type="checkbox"/> HQS REVIEW REQUIRED	12 <input type="checkbox"/> EXTERNAL OVEREXPOSURE	13 <input type="checkbox"/> OTHER
14 <input type="checkbox"/> UNREVIEWED SAFETY MATTER	13 <input type="checkbox"/> EXCESSIVE RADIATION LEVELS	
15 <input type="checkbox"/> DESIGN CHANGE	14 <input type="checkbox"/> EXCESSIVE CONCENTRATION LEVELS	
16 <input type="checkbox"/> OTHER	15 <input type="checkbox"/> CRITICALITY	
17 <input type="checkbox"/>	16 <input type="checkbox"/> LOSS OR THEFT	
18 <input type="checkbox"/>	17 <input type="checkbox"/> CONTAMINATION	
19 <input type="checkbox"/>	18 <input type="checkbox"/> UNSAFE OPERATION	
	19 <input type="checkbox"/> FIRE, EXPLOSION	
	20 <input type="checkbox"/> HUMAN (OPERATOR) ERROR	
	21 <input type="checkbox"/> COMPLAINT	
	22 <input type="checkbox"/> PUBLIC INTEREST	
	23 <input type="checkbox"/> LEAKING SOURCE	
	24 <input type="checkbox"/> TRANSPORTATION	
	25 <input type="checkbox"/> EXPIRED LICENSE EXPOSURE REPORTED AND FOUND INVALID.	
	26 <input type="checkbox"/>	
	27 <input type="checkbox"/> CONSTRUCTION/EQUIP. DEFICIENCY	
	28 <input type="checkbox"/> EQUIPMENT FAILURE	
	29 <input type="checkbox"/> EXCEED LIC/TECH SPEC REG'S	
	30 <input type="checkbox"/> DEPARTURE FROM PSAR/TS'S	
	31 <input type="checkbox"/> OTHER	

O	REGIONAL OFFICE ACTION DATES REPORT SENT TO HEADQUARTERS 8/4/71
P	S91/LETTER ISSUED 8/16/71
Q	XX REPLY NOT REQUIRED
R	LICENSEE REPLY RECEIVED
S	REPLY INADEQUATE

T	DATE LETTER, NOTICE, ORDER ISSUED
U	DATE LICENSEE REPLY RECEIVED
V	REPLY NOT REQUIRED

5/4/72