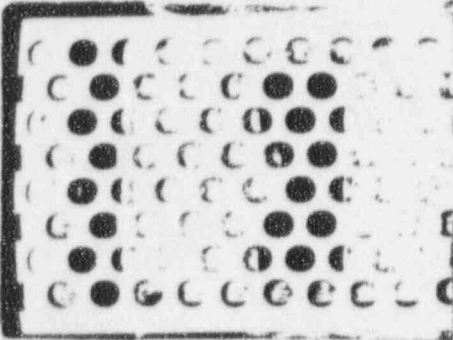


UNITED STATES
 ATOMIC ENERGY COMMISSION
 DIRECTORATE OF REGULATORY OPERATIONS
 REGION I
 531 PARK AVENUE
 KING OF PRUSSIA, PENNSYLVANIA 19406



Jersey Central Power and Light Company
 Attention: Mr. I. R. Finfrock, Jr.
 Vice President
 260 Cherry Hill Road
 Parsippany, New Jersey 07054

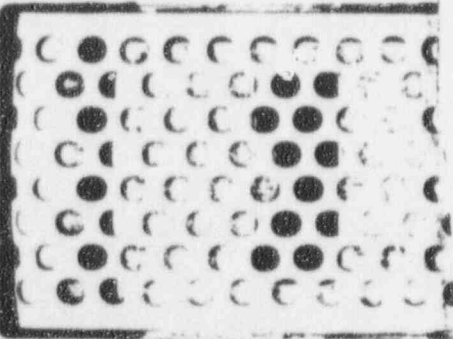
Gentlemen:

This refers to the inspection conducted by Mr. Brown on November 1-2, 1973 at the Klockner Works plant in Germany relative to the fabrication of the Perked Ri pumps authorized by AEC License No. CFFR-96 and to our findings held by Mr. Brown with the management of Klockner, KSB and Combustion Engineering at the time of inspection.

Areas examined during this inspection are described in the Operations Inspection Report which is enclosed with this letter. Within these areas, the inspection consisted of selection of procedures and representative records, interviews and observations by the inspector.

Within the scope of this inspection, no violations of the AEC's rules were observed.

In accordance with Section 2.790 of the AEC's "Rules of Practice", Part 2, Title 10, Code of Federal Regulations, a copy of this letter and the enclosed inspection report will be placed in the AEC's Public Document Room. If this report contains information that you (or your contractor) believe to be proprietary, it is necessary that you make a written application within 30 days of this office to withhold such information from public release. Any such application must include a full statement of reasons on the basis of which it is claimed that the information is proprietary, and should be prepared so that proprietary information identified in the application is contained in a separate part of the document. If we do not hear from you in this regard within the specified period, the report will be placed in the Public Document Room.



B169

OFFICE	CRESS		
SURNAME	BROWN/J AA	CARLSON	O'REILLY
DATE	11/28/73	11/77	

AEC-518 (Rev. 9-53) AECM 0240

Jersey Central Power and
Light Company

-2-

Should you have any questions concerning this inspection, we will be pleased to discuss them with you.

Sincerely,

Robert T. Carlson, Chief
Facility Construction and Engineering
Support Branch

Enclosure:
RO Inspection Report No. 50-363/73-06

bcc:
RO Chief, FS&EB (1 w/encls.)
RO:HQ (5 w/encls.)
DL (4 w/encls. plus 9 cys of Report only)
DR Central Files (1 w/encls.)
RS (3 w/encls.)
PDR (1 w/encls.)
Local PDR (1 w/encls.)
RO Files (1 w/encls.)
NSIC (1 w/encls.)

DTIE (1 w/encls.)
State of New Jersey 0703A (1 w/encls.)

OFFICE▶					
SURNAME▶					
DATE▶					

U. S. ATOMIC ENERGY COMMISSION
DIRECTOR OF REGULATORY OPERATIONS
REGION 7

RO Inspection Report No.: 50-219/ 73-18

Docket No. 50-219

Licensee: Jersey Central Power and Light Company

License No.: DPR-16

Madison Avenue at Punch Bowl Road

Priority: _____

Morristown, New Jersey

Category: C

Location: Oyster Creek, Forked River, New Jersey

Type of Licensee: BWR (G.E.) 1930 MW(t)

Type of Inspection: Management Meeting

Dates of Inspection: November 5, 1973

Dates of Previous Inspection: October 1, 1973

Reporting Inspector: *E. G. Greenman*
E. G. Greenman, Reactor Inspector, Reactor
Operations Branch

11/27/73
Date

Reactor Operations Participants:

<u>J. G. Davis, Deputy Director for Field Operations</u>	_____
<u>J. P. O'Reilly, Director RO:I</u>	Date
<u>E. J. Brunner, Chief, Reactor Operations Branch</u>	_____
<u>R. T. Carlson, Chief Construction Branch</u>	_____
<u>D. L. Caphton, Sr. Reactor Inspector,</u>	Date
<u>Reactor Operations Branch</u>	_____

Reviewed By: *D. L. Caphton*
D. L. Caphton, Senior Reactor Inspector, Reactor
Operations Branch

11/28/73
Date

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SUMMARY OF FINDINGS

Enforcement Action

Not Applicable

Licensee Action on Previously Identified Enforcement Items

Not applicable

Design Changes

Not Applicable

Unusual Occurrences

Not Applicable

Other Significant Findings

Not applicable

Management Interview

A management meeting was held on November 5, 1973, with corporate representatives of the General Public Utilities (GPU) and the Jersey Central Power and Light Company (JCP&L). The following were present:

GPU

W. G. Kuhns, President, GPU

H. DieCamp, Executive Vice President, GPU

JCP&L

S. Bartnoff, President, JCP&L

Mr. I. Finfrock, Vice President of Power Generation

Mr. D. Ross, Manager Nuclear Generating Stations

Directorate of Regulatory Operations

J. G. Davis, Deputy Director for Field Operations, RO:HQ

J. P. O'Reilly, Director RO:I

E. J. Brunner, Chief, Reactor Operations Branch, RO:I

R. T. Carlson, Chief, Construction Branch, RO:I

D. L. Caphton, Senior Reactor Inspector, Reactor Operations Branch

E. G. Greenman, Reactor Inspector, Reactor Operations Branch

Items discussed are summarized below:

A. General

The scope and purpose of the meeting was described by Mr. J. P. O'Reilly, Director, Region I and included a discussion of the performance of the

JCP&L Oyster Creek plant; including (1) enforcement history, (2) observed deficiencies in the management controls system, (3) the status of the QA program for the operational phase, (4) RO concerns resulting from our augmented inspection program; (5) facility staffing requirements, and (6) comments related to the licensee's Security Program.

B. Overview of Licensee Performance

Licensee representatives were apprised of a Regulatory Operations concern regarding generally inadequate performance in all areas of operations as recently inspected and were informed of the significant number of deficiencies which had all been incorporated into the public record subsequent to a previous management meeting. *

A licensee representative stated that the collective significance was understood and that examination of individual deficiencies could be deferred. (Report Details, Paragraph 1.d)

C. Security Program

Items related to the licensee's Security Program, results of a recent security inspection, and recent changes were discussed in detail. Licensee representatives noted that facility security had not been discussed at the previous management meeting (April 23, 1973).

D. Facility Staffing

Licensee representatives were asked to provide information regarding progress which had been made concerning organization and staffing of the Oyster Creek site.

A licensee representative stated that the area of staffing had received considerable management attention. A current organizational chart was reviewed in detail. (Report Details, Paragraph 1)

E. Radiation Protection

Recent additions to the Health Physics staff and personnel qualifications were discussed in detail.

A licensee representative stated that the new Radiation Protection Supervisor is presently at the site and attending all Plant Operations Review Committee (PORC) meetings.

F. Quality Assurance Program

The Quality Assurance Program status was discussed. A licensee representative stated that the program had been submitted to the Directorate of Licensing, and that the required QA procedures were being written and would be implemented when written.

* RO Inspection Report 50-219/73-08 dated June 12, 1973

Licensee representatives were informed that an RO:I recommendation for a full term operating license would not be made until the QA program for operations was implemented. (Report Details, Paragraph 2)

G. Plant Procedures

Licensee representatives were informed that plant procedures must meet requirements as specified in ANS 3.2 and Regulatory Guide 1.33 for a full term operating license. Licensee representatives were further advised as to the magnitude of this workload and an apparent need for GPU assistance in this area. (Report Details, Paragraph 3)

DETAILS

1. Persons Contacted

Mr. W. G. Kuhns, President - General Public Utilities (GPU)
Mr. H. DieCamp, Executive Vice President, GPU
Dr. S. Bartnoff, President - Jersey Central Power and Light Company (JCP&L)
Mr. I. R. Finfrock, Vice President of Power Generation
Mr. D. A. Ross, Manager Nuclear Generating Stations - JCP&L

2. Administration and Organization

a. Operational Performance (Management Control)

At the conclusion of a prior management meeting held April 24, 1973 the licensee agreed that priority attention would be given to the organization and staffing of the site, to problems that affect audits of site activity, to factors that affect workers performance, and to expediting the development and implementation of the Quality Assurance Program for Operations.

Since this meeting JCP&L performance had been as follows:

1. The plant has experienced 22 Abnormal Occurrences.
2. Further, repetitive failures continue to occur, i.e., MSIV leakage, isolation condenser valve failure, and excess activity in outside radwaste storage tanks.
3. Prior commitments concerning the QA program were not and have not been met.
4. Significant impetus concerning staffing had not been in evidence nor had an Assistant Station Superintendent been assigned.
5. A number of items as identified during the augmented inspection program are attributed to inadequate management control at the facility, i.e., failure of GORB to conduct audits as required, failure of PORC to review personnel overexposures, failure of the management control system to assure the adequacy of the radiation protection staffing.

b. Assistant Station Superintendent

During an inspection conducted July 5-7, 10, 12-19, 1972, RO:I was informed that JCP&L planned to create a new position of Assistant Station Superintendent. During a subsequent inspection November 9-10, 12-13, 20; and December 7-8, 1972, RO:I was informed that this position was filled and subsequently vacated as a result of JCP&L promotions from within. This area was further discussed at the management meeting held April 24, 1973. Results of recent inspections had indicated that the position was still vacant.

Discussions with licensee representatives indicated that the vacant position of Chief Engineer has been filled by a promotion from within. This position provides additional management support to the Station Superintendent.

c. Radiation Protection Supervisor

Licensee representatives stated that the Radiation Protection Supervisor has been on site for approximately three weeks (October 15, 1973), and is now attending all PORC meetings. According to licensee representatives the Radiation Protection Supervisor will be certified as a Health Physicist.

d. Radiation Protection Foreman

Licensee representatives stated that an additional Radiation Protection Foreman had been hired and would be on site November 5, 1973.

3. Quality Assurance Program for Operations

a. Program Development

1. Meeting held October 13, 1972 at RO:I, Newark, New Jersey to discuss QA for Operations with JCP&L personnel.
2. RO:I letter dated November 8, 1972 referencing JCP&L commitment based upon October 13, 1972 meeting and a conversation between the assigned inspector and JCP&L on October 24, 1972 that "the Quality Assurance Plan will be approved and issued by November 15, 1972 and that detailed implementing procedures required by your QA plan will be issued by January 15, 1973 and all aspects fully implemented by March 31, 1973".
3. Telephone call to RO:I from JCP&L on November 14, 1972 stating that JCP&L was unable to meet the commitment referenced in our November 6, 1972 letter.
4. Telephone call from RO:I to JCP&L on December 8, 1972. Mr. I. R. Finfrock stated that the plan would be completed December 15, 1972.
5. QA Plan (Not program) was issued by JCP&L on January 15, 1973.
6. A Directorate of Licensing meeting was held April 13, 1973 (FSAR). JCP&L did not provide a commitment for a date when procedures would be completed.

7. The Directorate of Licensing issued a letter July 3, 1973 requesting a response to enclosed questions (predominately QA) by August 24, 1973. JCP&L did not meet the response requirements with DL.
8. A Directorate of Licensing Meeting was held September 5, 1973 (QA). JCP&L committed to submit a plan to answer DL questions of July 3, 1973 by October 5, 1973. This submittal had not been made by October 29, 1973.
9. A Directorate of Licensing meeting is scheduled for November 13, 1973 to discuss the JCP&L response to DL questions of July 3, 1973.

Licensee representatives were informed that an inability to meet prior commitments was attributed to staffing deficiencies.

b. Program Status

Discussions with licensee representatives indicated that a program submittal had been made to the Directorate of Licensing. According to licensee representatives QA procedure preparation is under way and when procedures are written they will be implemented.

4. Facility Procedures

Licensee representatives were informed that requirements of ANS 3.2 and Regulatory Guide 1.33 were applicable to Oyster Creek procedures and that it appeared that substantial effort would be necessary to upgrade facility procedures in accordance with these requirements.

5. Reactivity Control and Core Physics

A recent inspection conducted August 28-29, 1973 indicated that a surveillance procedure had not been prepared for calibration of pressure and level switches associated with CRD units and providing an alarm condition or actuation, in the control room. Further, the last calibration of these units was performed November 7, 1968. Deficiencies of this type reflected apparent inadequacies in the management audit and review process and had not been disclosed by the audit system. No assurance had been provided with respect to other surveillance matters which also could be overlooked.

6. Other Engineered Safeguards

Hydraulic Shock and Sway Arrestor Failures

A review of PORC meeting minutes covering the period of the Spring 1973 refueling outage indicated that significant failures of shock and sway arrestor units were not reviewed by PORC and their replacement was treated as a routine maintenance item. PORC records failed to indicate any discussion or PORC involvement in this significant occurrence until subsequent failures were identified on July 22, 1973. The failure to report this event, or provide review by PORC and GORB was a serious failure, attributed to deficiencies in the management control system.

7. Electrical Systems*

a. Diesel Generator Testing

A review of the procedures used to conduct surveillance testing of diesel generator units during the RO inspection of September 10-12, and the RO Investigation conducted October 16, 1973 indicated that JCP&L probably was aware of the diesel generator alarm function following a fast start actuation. Further, routinely conducted surveillance tests were completed such that the circuitry problem was effectively invalidated and thus presented a faulty indication of actual conditions.

b. Power Loss of September 8, 1973

The power loss caused by incorrect settings of the "C" Phase differential monitoring relays (Banks 5 and 6) was avoidable and related to deficiencies identified in the implementation of the licensee's Quality Assurance Program.

Relay testing was performed without benefit of written procedure and appropriate check off lists and with no subsequent inspection of the test activity. The test itself involved moving a tap position from its operating mode to a position for testing in which plant safety could be compromised.

8. Radiation Protection

a. Radiation Safety Program

An RO inspection conducted September 5-7, 1973 disclosed

*RO Inspection Report 50-219/73-15 dated October 26, 1973

operational conditions that are not indicative of a good radiation safety program and resulted in six (6) violations and one (1) safety item with multi-facets. The predominate cause of the poor Radiation Safety Program was a lack of management control. In the six month interval since JCP&L committed to take action in this area of staffing only one employee had been hired (assistant radiation technician). Licensee representatives described on November 5 the recent staff addition in detail.

b. Unplanned and Uncontrolled Release to the Discharge Canal*

Review of a recent licensee report dated October 31, 1973 indicated that activated material was permitted to remain in the RBCCW system such that a subsequent leak in an RBCCW heat exchanger resulted in an uncontrolled and unplanned release from the site via the service water system and discharge canal. 10 CFR 20 limits were not exceeded. Removal of the activity from the cooling water system was not initiated by the licensee. The handling of this occurrence considering the leak magnitude, and a total time interval in excess of one month indicated a lack of management control.

9. Environmental Programs

On March 7, 1973, the licensee stated that a copy of analytical and quality control procedures from Teledyne Isotopes (licensee consultant) would be furnished to the inspector. On October 1, 1973 a similar commitment was made but to date these procedures have not been submitted.

On October 1, 1973, the licensee stated that a copy of the Oyster Creek Emergency Plan and procedures would be furnished to the inspector within 2 weeks. As of this date neither the plan or any related procedures have been submitted.

The inspection of October 1, 1973 revealed that outdated environmental programs were being maintained pending the submission of Environmental Technical Specifications scheduled for November 1, 1973.

Licensee representatives stated on November 5 that an Environmental Group was being established under the control of the JCP&L President.

*Abnormal Occurrence No. 73-29 dated November 5, 1973 (Preliminary Report