

ATOMIC ENERGY COMMISSION DIRECTORATE OF REGULATORY OPERATIONS REGION 1

970 BROAD STREET NEWARK, NEW JERSEY 07102

March 1, 1975

To Files:

TRIP TO OYSTER CREEK ON FEBRUARY 21, 1973

The purpose of this trip was to obtain split samples of off-gas, stack gas particulates and charcoal canisters as well as a monthly composite of liquid radwaste. This split was to be a second round of spliting under the state contracts program. As it turned out, the reactor was in the process of pulling control elements, therefore, it was decided that the off-gas sample would not be representative and the sampling was delayed until a week from Friday, March 2, 1973. The other samples will be obtained at the same time. I spent the afternoon in Trenton with Dave McCurdy discussing the analytical results from the split of the last quarter of 1972 as well as some spike filter samples that had been analyzed by McCurdy. The Trenton program appears to be in good shape with only one or two isotopes where analytical improvement is needed. Hopefully, we will resolve these minor differences within the next week or so.

Also discussed at Oyster Creek was the iodine release after startup which appeared to be slightly larger than normal. The licensee had taken several samples of the rate of iodine evolution and had documented these releases. McCurdy also picked up the iodine release on one of his nearby sampling stations. Also discussed at Oyster Creek was the recent fish kill. The fish kill appeared to have occurred prior to the reactor shutdown and it appears to be a combination of temperature as well as other unknown factors. A review of the temperature records revealed that the temperature did fall to 30 in the bay and this was documented on two separate recorders. The Oyster Creek people had a scheduled meeting with their consultant in regard to the fish kill to further investigate the causes behind the continuing fish kill. The fish kill was continuing when we were there on the twenty-first. Details upon request.

R. J. Everett Radiation Specialist

cc: J. P. Stohr

8/306

Docket No. 50-219

Jersey Central Power and Light Company ATTM: Mr. Donald A. Ross, Manager Nuclear Generating Stations Madison Avenue at Punchbowl Road Morristown, New Jersey 07960

Gentlemen:

This will acknowledge receipt of your letter dated February 8, 1973, with attachments, reporting the exposure of three individuals to radiation on January 1, 1973. This matter was examined during an inspection of activities authorized under License No. DPR-16 on February 13-16, 1973.

It should be noted that Section 20.405 of 10 CFR Part 20 requires the submission of such reports within thirty days.

Your cooperation with us is appreciated.

Sincerely,

Original signed by F. E. Kruesi

F. E. Kruesi, Director of Regulatory Operations

bcc w/copy of memo dtd February 8, 1973: J. W. Flora, RO: IV A. Giambusso, L J. M. Hendrie, L R. W. Smith, RO:V C. F. Eason, AWCRR (2) DR Reading File D. J. Skovholt, L R. J. Schemel, L DR Central File P. A. Morris, RC R. H. Engelken, RO J. G. Keppler, RO PDR Local PDR H. D. Thornburg, RO NSIC J. P. O'Reilly, RO:I DTIE 8302230269 J. G. Davis, RO:III Incident File (H. Semmes)

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Jursey Central Fower & Light Company

MADISON AVENUE AT PUNCH BOWL ROAD & MORRISTOWN, N. J. 07960 & 539-6111

February 8, 1973

Is. P. E. Modes! Director of Regulatory Operations United States Atomic Energy Commission Washington, D. C. 20545

Dear Wr. Kriesi:

Subject: Oyster Green Scholon Docket No. 50-219 Personnel Radiation Overex, Source

Observables retained retains details that information surrounwing the description of three of our personnel at the Oyster Creek Judican Generating Station on January 1, 1973 and is boing submitted in tecoremance with the requirements of 10CFR20, paragraph 20.405(a)(1). According to the requirements in paragraph 20.405(c), each of the individuals noted in Englosure 1 will be notified regarding the nature and extent of overcoposure.

Upon discovery of the condition, greater controls were immediately instituted to provent a recurrence of the situation and more stringent a gairements will be instituted with regard to sampling frequency and access control for future maintenance activities.

Very truly yours,

Donald A. Rean

Manager, Nuclear Generating Stations

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Attachments

co: Nr. J. P. O'Mulley, Director Directorate of Regulatory Operations, Region 1

WE ROLL OF CALACOUNCEDING

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On December 33, 1972, ramples taken of containing the internal concentrations were over that access to the containing the unimities (168 hours) for the authorise scriving involved. A routine containing the sample taken at Filb aum. January 1, 1973, indicated an increased almost accommination over the provious day with the unjor contributor, and in fact the only contributor of cignificant, body Males. Access was permitted to the contributor but which reduces stay that of 15 feets. Bread with this fact, at instances accoming frequency was indicated and a backwinter a sample, taken nearly an nour later at 9:10 a.m., indicated the levels of Xells had presumably increased, reducing the same time to 12.3 hours. It was contain no that these to count still a third accepte the being in scriving at 9:30 a.m., the same to the hours of the same and the transfer that a fine to the fact that a fine accepted that the levels of 12 has room more than combined; however, the same accepted that accepted the permitted to continue particularly in light of the fact that a work break was less than two hours away.

By this time, the source of activity had been determined to be an instanced to be an instance on a serior related value flat as a fire associated as a serior of the properties and to stand the actions of the related in the satisfactor and the properties and the related for the related colors of the related colors of the stands of the related colors of the relations were given to tightly cover any of the relatining open relief velve flateness and to instant that prior to the area fine to the relations to be a second of the stands of the second of the

At that this, eases to the containment was restricted until factor that each test equipment to the many calculations were made which indicated that the period of the thick the present the free of the substitutions were made which indicated that the operation of the substitutions do in the period of the sait. This expects of the occupancy time ranged from 3 % to 50% above the allowable the limite. Instructions were given to prevent these affected pervorate from many access to any area of the plant where sinct me activity considered the increased containment air carpling from each was maintained and a none strict criteria for access was instituted to insure that no additional personnal everopposures occurred as a result of abnormal concentrations of airborns activity. This, complete with the operation of the access feat vacuum peup, the covering of the relief value for accessing the period with the operation of the access feat vacuum peup, the covering of the relief value functions of airborns activity. This, occupied with the operation of the accessing many characterists of the containment air interlegic, prevents of the containment.

of No. 132 and No. 128 to this therresonnel involved, the terminal concentrations hash to the period of the period of the stry times the content of the period of the second of the seco

Measures will be taken during future maintenance activities to stople chapted echapte echaptanions at a greater frequency than open flatte to the reactor evolant system exist and to make provisions, if possible, to insure that activity count diffuse into the surrounding accreable. Additionally, here such that limits will be imposed on scooss criteria to areas of althorne redicactivity concentrations and plantic of a unanticipated distribution will be industrial to permit bosing access assistence on the anticipated future trend.

Jersey Central Power & Light Company

MADISON AVENUE AT PUNCH BOWL ROAD . MORRISTOWN, N. J. 07960 . 539 - 6111

February 27, 1973

Mr. A. Giambusso
Deputy Director for Reactor Projects
Directorate of Licensing
United States Atomic Energy Commission
Washington, D. C. 20545

Dear Mr. Giambusso:

on February 12, 1973.

Subject: Oyster Creek Station Docket No. 50-219

Failure of Stack Gas Monitoring System

This event is considered to be an abnormal occurrence, as defined in the Technical Specifications, Paragraph 1.15.8. Notification of this event, as required by the Technical Specifications, Paragraph 6.6.8, was made to the AEC Region I, Directorate of Regulatory Operations,

At the beginning of the day shift on February 12, it was recognized that low sample flow existed in the stack monitor system. The filters were inspected and found but to be the cause of the low flow. Warm air was blown back through the sample line but no improvement in sample flow was realized. At 11:10 a.m., an orderly shut down of the plant was initiated when it was determined the stack gas monitoring system was no longer functioning properly. Increased surveillance of the continuous off-gas monitor was used to infer stack release rates during the period.

Upon investigation, the cause of the monitor flow problem was determined to be moisture freezing in the sample line at the 262 foot elevation where the line runs external to the stack. The line was thawed out and heat traced to prevent future freezing. At 3:40 p.m., sample flow was reestablished and the stack monitor was determined to be functioning properly. The plant shutdown in progress was then terminated.

Upon further investigation into this occurrence by the Plant Operations Review Committee, it was recognized that on February 11 the stack gas filter had been changed due to noting a low sample flow rate. While the filter was being changed, the sample line was blown out with air. The monitor flow returned to normal; however, later that day the flow rate again decreased and technicians were called in to check out the monitoring system. At this time, for a period of approximately three hours, the gaseous stack releases were not being properly monitored.

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Mr. A. Giambusso Page II February 27, 1973

The safety significance attached to this event is associated with the temporary loss of gaseous effluent monitoring at the stack. However, during the time the stack gas sampling flow was reduced, the off-gas monitor continued to provide continuous, related gaseous release monitoring. At no time did the activity indicated by these monitors increase above what they were reading prior to the stack gas sample flow problem. Samples of off gas analyzed during this period showed the stack release rate to be 8 x $10^4~\mu ci/sec$. The I^{131} concentration, as determined by analysis of the charcoal cartridges in service during this period, showed an average release rate of .2 $\mu ci/sec$.

To prevent a recurrence of this event, the external portion of the sample line has been insulated and heat traced. In addition, procedure 501, which covers the action required when receiving the stack gas sample system low flow alarm, will be expanded to clarify the operator action to be taken. This change will then be reviewed with all licensed personnel.

Rescald G. Rous

Donald A. Ross

Manager, Nuclear Generating Stations

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Enclosures (40)

cc: Mr. J. P. O'Reilly, Director
Directorate of Regulatory Operations, Region 1

FEB 26 1973

Charles A. Pelletier, Chief, Environmental Inspection Branch Directorate of Regulatory Operations, HO

OYSTER CREEK FISH KILL, JANUARY 1973 (RO INCUIRY REPORT NO. 50-219/73-020

Transmitted herewith for your information is a copy of a letter dated February 2, 1973 from J. W. Reintjes, Atlantic Estuarine Fisheries Center, which includes as attachments his "Additional Comments Relative to Oyster Creek Menhaden Kill, January, 1973" and two reports from Dr. Wurtz (Jersey Central Power & Light Company Consultant) to CPU dated January 11 and 17, 1973.

Per my request, Mr. Pointjes has included his professional evaluation of the incident and his suggestions of ways in which the plant might preplan their shut downs to lessen the effects of cold shock. Some of Mr. Reintjes' suggestions or extensions thereof might be considered for incorporation into Technical Specifications.

Also included for your information is a copy of a report by Mr. Reintjer, "Compilation and Correlation Analysis of Published and Unpublished Environmental Data with Distribution, Abundance and Mavements of Young Methoden in Mid-Atlantic Estuaries."

A crant was given to the Atlantic Estuarine Fisheries Center by Jersey Central Power & Light Company to pay for expenses involved in preparing the report.

Mr. Reintjes on February 22, 1973 attended a meeting with Jersey Central to discuss implications of this report as concerns methods of plant operation to avoid Menhaden kills. Discussions at the meeting indicated that Oyster Creek is considering modifying plant operation to avoid Menhaden kills.

Per telephone conversations with Leo Higginbotham on February 23 and 26, 1973. I am awaiting word on the appropriateness of designating people such as Mr. Reintjes as a RO:I Consultant. In the interim, I will consult with him but not designate him as a RO:I Consultant.

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J. P. Stohr, Senior Radiation Specialist 81309

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DATE	2-26-73

J. G. Keppler, Chief, Reactor Testing & Operations Br. Directorate of Regulatory Operations, HQ

SPECIAL INSPECTION REGARDING ALLEGATION OF POOR RADIOLOGICAL CONTROL PRACTICES AT OYSTER CREEK, DOCKET NO. 50-219*

RO:I inspectors completed a special inspection at the Oyster Creek BWR facility during February 13 - 16, 1973. Although up to 30 violations and/or safety items were identified, the inspeceers' preliminary conclusions at the facility on February 16, 1973 were that no immediate threat to the health and safety of the public appeared to exist.

The Director of Region I personnally contacted the cognizant Jersey Central Power & Light Company Vice President regarding our concerns in this matter on February 14, 1973. RO:I is currently completing an evaluation of the violations and plan to meet with the licensee's corporate management on or about March 1, 1973 to discuss these matters.

The licensee at the facility began completing some corrective actions during the time of the RO:I inspection. This was visually observed by our inspectors.

The licensee's corporate level management reported via telephone on February 23, 1973 that approximately 70% of the violations had been corrected. We intend to verify the licensee's telephone report during planned RO:I followup inspections at the site.

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Form AEC-318 (Rev. 9-53) AECM 0240

^{*}Reference to letter, J. F. O'Reilly to R. H. Engelken, dated February 14, 1973 regarding "Anonymous Allegations - Jersey Central Power & Light Co., Oyster Creek Buclear Generating Station".

Types of violations identified by RO: I inspectors included:

- e. Failure to properly post (approximately 8) low radiation and (approximately 7) high radiation areas.
- Failure to properly label (approximately 8) radioactive material containers and/or locations,
- c. Excessive radiation levels in unrestricted areas,
- d. Failure to make adequate surveys,
- e. Failure to provide personnel monitoring,
- Failure to inform personnel of the occurrence of radioactive materials or radiation levels in a restricted area,
- g. Failure to report, within 30 days, exposure to personnel to excessive air concentrations,
- h. Violation of Technical Specification requirement 6.2.B.2 relating to radiation control procedures,
- Failure to control radiation exposure to one individual within the limits specified by plant procedures.

Types of safety items include:

- a. Failure to establish a radiological protection retraining program for plant personnel,
- Failure to make dose rate surveys prior to capping high level waste drums,
- c. Failure of extended radiation work procedures to reflect the existing conditions, covering routine work in the reactor building,
- d. Poor radiological housekeeping practices relative to storage and control of radioactive materials.

An inspection report is being prepared covering these matters. The report is being given Regional priority.

bcc: J. P. O'Reilly

R. T. Carlson

P. R. Nelson

F. S. Cantrell

D. L. Caphton Senior Reactor Inspector Facility Operations Branch