

APR 18 1973

C. A. Pelletier, Chief, Environmental Inspection Branch
Directorate of Regulatory Operations, HQ

RO INSPECTION REPORT NO. 50-219/73-03
JERSEY CENTRAL POWER AND LIGHT COMPANY (JCPL)
OYSTER CREEK NUCLEAR GENERATING STATION (OC)

This memo is sent for your information, as regards our findings during the recent environmental inspection and our intended enforcement action, and for your action, as regards our participation in the meeting(s) mentioned in the last paragraph.

An environmental inspection was conducted by Dr. C. Gallina at the subject facility from February 28 - March 7, 1973. During this inspection, thirteen items of noncompliance were found with respect to the Technical Specifications. In addition, some inconsistencies were found with respect to statements made by the licensee in their Environmental Report as they relate to the OC Water Quality Monitoring Program. In conjunction with a review of recent fish kills at OC, Dr. Gallina spoke with representatives of the marinas along the discharge canal. At this time, these representatives made various allegations against JCPL relating to problems of high temperature, silting and shipworm damage caused by the operation of OC. Preliminary observations by Dr. Gallina indicate that the allegations of ecological damage resulting from the operation of OC may have some foundation.

Due to the number and nature of the violations found, compounded by other programmatic deficiencies such as a lack of manpower, supervision, and evaluation with respect to the environmental program, the management of JCPL is being called into Region I for a meeting with the Director.

It has been brought to our attention that DL is planning a meeting to review the overall environmental monitoring program as it pertains to the Oyster Creek and Forked River plants. We would like to participate in these meetings if at all possible. A copy of Dr. Gallina's recommendations as to the required upgrading of the OC environmental monitoring program is attached. Should any further detailed information

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OFFICE ▶	CRESS: I Gallina/ds	Stone				
SURNAME ▶	4/17/73					
DATE ▶						

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required with respect to OC prior to the receipt of the completed report, please notify me or Dr. Gallina by phone.

J. P. Stohr, Senior
Environmental Protection and
Special Programs Section

Enclosure:
Attachment: Recommendations for
Upgrading of the Environmental
Monitoring Program

cc: D. Knuth, RO
R. Engelken, RO
J. Keppler, RO

9. The Water Quality Monitoring Program (See ER Section 5.5.2.3) should be undertaken on a weekly basis with certain parameters (eg, DO, pH, salinity, temperature, etc.) monitored continuously at the plant intake and discharge.
10. Various analyses currently being performed at the OC Station (eg, Uranium, Ra-226, Ra-227, etc.) should probably be discontinued.
11. Soil sampling at the OC station should probably be discontinued.

ATTACHMENT

RECOMMENDATIONS FOR THE UPGRADING OF THE ENVIRONMENTAL MONITORING PROGRAM AT THE OYSTER CREEK NUCLEAR GENERATING STATION

1. Air particulate samplers should be located at a minimum of 3 locations where the highest off-site ground level concentrations are expected according to updated meteorological data.
2. Air particulate samplers should be located in from one to five communities within 10 miles of the plant.
3. An air particulate sampler should be located at a location greater than a 20 mile radius in the least prevalent annual wind direction to act as a control sampler.
4. Air particulate samplers should be upgraded to provide adequate reliability with respect to long term operation. Filters should be changed weekly and in addition to a gross beta analysis at a filter change*, a composite gamma analysis should be conducted monthly.
5. Charcoal cartridges should be added to the above samplers to measure for airborne iodine. Cartridges should be changed and analyzed weekly.
6. Direct radiation should be measured by the inclusion of 2 or more dosimeters (preferably TLD's) at each of the locations listed in 1, 2 and 3 above, as well as additional locations where the highest annual off-site dose at ground level is predicted. These later locations would be based on estimated dose levels as apposed to ground level concentrations where the dose may be effected by sky shine, high plumes or direct radiation from the facility.
7. Sediment, benthic organisms and aquatic plants should be sampled downstream from the outfall in Oyster Creek and Barnegat Bay and upstream from the intake. A gamma isotopic analysis should be performed on these samples.
8. Fish and shellfish should be sampled downstream from the outfall in Oyster Creek and Barnegat Bay and from one area not influenced by the plant discharges. A gamma isotopic analysis should be performed on these samples.

*Allowing 24 hour delay for radon and thoron daughter decay