



UNITED STATES
ATOMIC ENERGY COMMISSION
DIRECTORATE OF REGULATORY OPERATIONS
REGION 1
970 BROAD STREET
NEWARK, NEW JERSEY 07102

RO Inquiry Report No. 50-219/72-320

Licensee: Jersey Central Power & Light Company
Madison Avenue at Punch Bowl Road
Morristown, New Jersey 07960

License No.: DPR-16

Facility: Oyster Creek - BWR
Forked River, New Jersey

Descriptive Title: Equipment Failure - Floor Drain Sample Tank
Recirculation Line

Prepared by:

F. S. Cantrell
F. S. Cantrell, Reactor Inspector

12/15/72
Date

A. Date and Manner AEC was Informed:

On December 7, 1972, during an inspection at the site.

B. Description of Particular Event or Circumstance:

When the operator started the recirculation pump for the "A" floor drain sample tank, at about 8:00 a.m., December 6, 1972, he noted a slight decrease in tank level. He immediately went to the sample tank area (which is outside the radwaste building) and observed water spraying against the building and running down into the curbed area around the tanks, and spraying on the sidewalk outside the curbing. He immediately went back inside and stopped the pump. A tank inventory showed that 50 gallons of water was lost from the tank. An inspection in the area showed that the drain line inside the curbing was valved to go to the discharge canal rather than to return to the radwaste building. As a result, only approximately 1 gallon of water was recovered.

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C. Action by Licensee:

1. A sample of water was obtained from the tank and was analyzed, with the following results:

<u>Isotopes</u>	<u>Activity (uCi/cc)</u>	<u>Ratio (Activity/MPC)</u>
Gross Activity	2.05×10^{-2}	-
Cobolt-60	5.89×10^{-3}	117.8
Cesium-144	4.08×10^{-3}	453.3
Cesium-137	5.99×10^{-3}	299.5
Manganese-54	3.55×10^{-3}	35.5

2. The pipe that failed was on the discharge side of the pump and was located just outside of the building between the building and the tank. This pipe is 3" carbon steel pipe and was repaired by welding a patch over the failed area. According to the maintenance foreman, he has ordered stainless steel pipe to replace this line and the comparable line to the "B" floor drain sample tank.
3. The water that landed on the sidewalk outside of the curb was soaked up with a blotter, however, before the area was surveyed for contamination, it started raining. The sidewalk was not smeared for contamination until December 7, 1972. At that time, the sidewalk was clear of contamination, however, the area inside the curb was contaminated up to 5000 cpm. The sand next to the sidewalk was also contaminated. The upper layer of sand was removed with the contamination. The licensee issued instructions for the drain from the curbed area to be either valved closed, or to the radwaste building sumps.
4. The licensee plans to survey other equipment to determine the potential for this type of corrosion-erosion failure as part of his general study of the operation of the radwaste facility.
5. The licensee will submit a written report to the Directorate of Licensing within 10 days as required by the Technical Specifications.