August 1, 1973

W. G. Reinmuth, Chief, Technical Support Branch Directorate of Regulatory Operations, Headquarters

JERSEY CENTRAL POWER & LIGHT COMPANY, DOCKET NO. 50-219
PRELIMINARY SUMMARY REPORT ON SNUBBER REPAIR ACTIVITIES DURING
SPRING 1973 REFUELING OUTAGE

The enclosed preliminary report is forwarded for your information. The licensee has stated that the final report will be officially transmitted to the AEC. It is suggested that this report be treated as proprietary information pending receipt of the final report.

E. Morris Howard, Chief Facility Construction and Engineering Support Branch

Enclosure: Preliminary Rpt

cc: F. A. Dreher, w/o enc.

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

9604150237 960213 PDR F0IA DEKOK95-258 PDR MADISON AVENUE AT PUNCH BOWL ROAD . MORRISTOWN, N. J. 07960 . 539-6111

July 31, 1973

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

Dear Mr. Giambusso:

Subject: Oyster Creek Station Docket No. 50-219

Reactor Coolant System Leakage



The purpose of this letter is to report a violation of the Technical Specifications, Paragraph 3.3.D., "Reactor Coolant System Leakage". Operation of the reactor at power continued when it was not recognized that an increasing absorpt on pool level, combined with the rate of leakage into the drywell sump, originated from the same source and thereby resulted in an "unexplained" leak rate in excess of 5.0 gpm. This event is considered to be an abnormal occurrence as defined in the Technical Specifications, Paragraph 1.15.B. Notification of this event as required by the Technical Specifications, Paragraph 6.6.2.a., was made to AEC Region I, Directorate of Regulatory Operations on Monday, July 25, 1973.

As indicated in Figure 1, attached, an increasing rate of leakage into the drywell sump began to occur on Jul; 1, 1973 and continued through July 19, 1973, reaching a peak of approximately 3.22 gpm when averaged over 24 hours. As shown in Figure 2, attached, a plot of absorption pool (torus) water level developed on July 23, 1973 over the same period indicated the level to be increasing starting about July 11, 1973. It is now estimated that the unexplained leak rate increased to >5.0 gpm at some time during July 17, 1973 and continued to be above the 5.0 gpm limit until the plant was shut down and depressurized on July 21, 1973.

The source of this leakage was found to be a feedwater check valve hinge pin seal plug, which due to its position and the manner in which the water was spraying out, resulted in leakage to both the drywell floor and the torus. Valve data is as follows:

Manufacturer: Anchor Valve Company

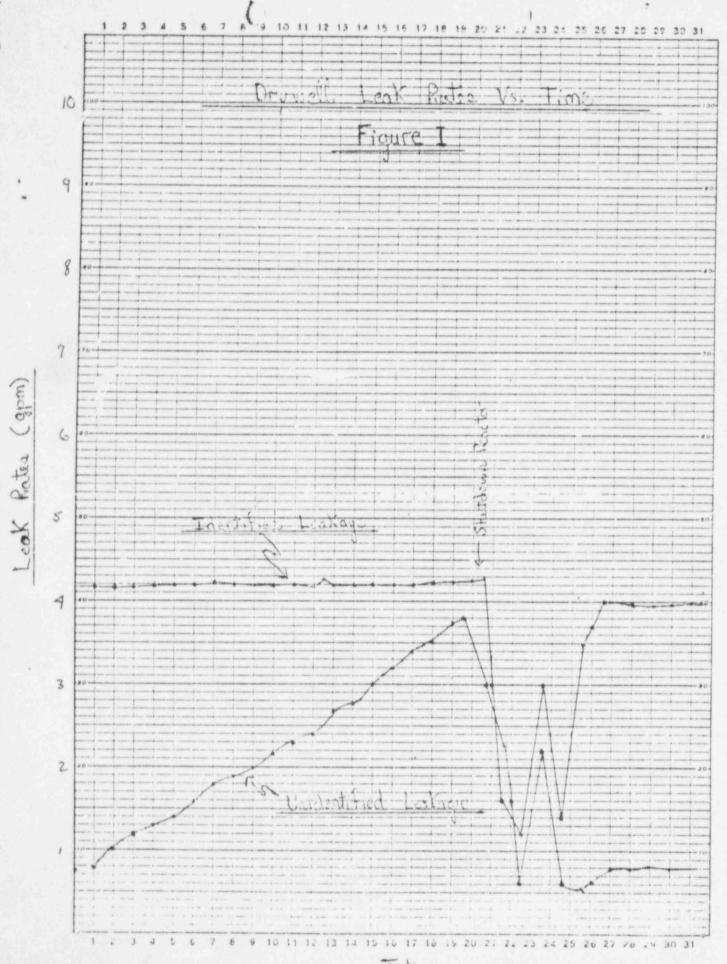
Type: 18" - 600# Swing Check Valve

Material: Cast Carbon Steel - Stallite Trim BW Ends

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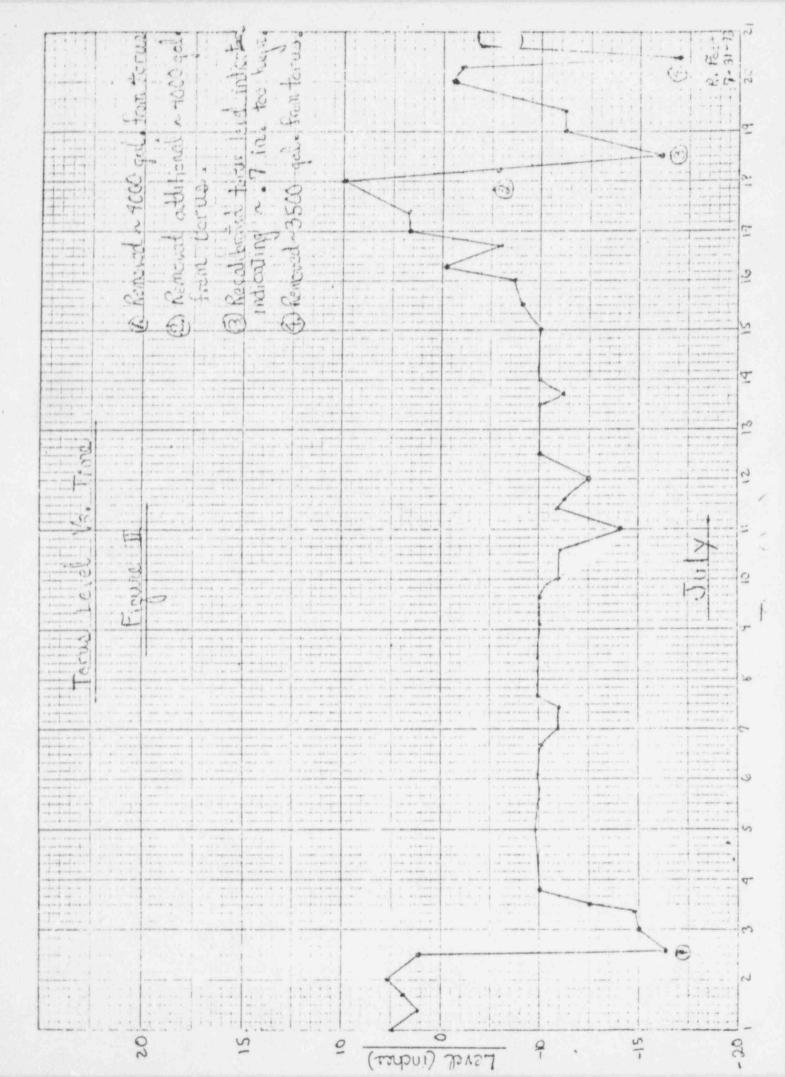
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Mr. Giambusso -2-July 31, 1973 In order to repair this seal, the erosion of the seating surface on the alve body was machined out and the plug adapted to fit using a procedure developed by MPR Associates and concurred in by the valve manufacturer and the PORC. In addition, a calculation was performed which verified that after machining, the valve wall thickness was still satisfactory. A successful leak test was conducted on July 24, 1973 and the plant returned to service. The allowable leakage rates of coolant from the reactor system are based in part on predicted and experimentally observed behavior of cracks in pipes. As noted in the basis of the Technical Specifications, "...evidence suggests that the leakage somewhat greater than the limit specified or unidentified leakage, the probability is small that imperfections or cracks associated with such leakage would grow rapidly." The Technical Specifications limit referred to in the above is 5.0 gpm; whereas, in this instance, the maximum leak rate approach is 6.75 gpm. Since the source of leakage in this case was a gasketed seal, no undo safety significance need be associated with this event. The possibility of the drywell sump under unusual circumstances not identifying the total unidentified drywell leakage must be recognized. To prevent a reoccurrence of this type event, Procedure 515.3, "Small Piping Leaks in Dr, well" will be revised to recognize that in cases where the torus water level is increasing and the leakage source cannot be identified, this inleakage will be added to the drywell unidentified leakage. Enclosed are forty (40) copies of this report. Very truly yours, Donald A. Ross Manager, Nuclear Generating Stations DAR: cs Enclosures cc: Mr. J. P. O'Reilly, Director Directorate of Regulatory Operations, Region I



MONTH OF July 10 73 Time (days)

F. Fac. 7.31-73



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