



SAXTON NUCLEAR EXPERIMENTAL CORPORATION

GENERAL PUBLIC UTILITIES SYSTEM

Jersey Central Power & Light Company
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November 6, 1987
SNEC-87-0103
5201-87-2011

U.S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D.C. 20555

Dear Sirs:

Saxton Nuclear Facility
Operating License No. DPR-4
Docket No. 50-146
Contaminated Water From the Containment Vessel Sump

On September 15, 1987, the third quarterly inspection of 1987 was conducted at the Saxton Nuclear Experimental Corporation (SNEC) facility. During this inspection, water was noted to have collected in the containment vessel sump. Radioisotopic analysis of this water revealed it to contain radionuclide concentrations of Co-60, Cs-137, Cs-134, and Sr-90 in excess of 10 CFR 20 Appendix B, Table II, "Limits for Unrestricted Release" and is reportable under Section 5.a3 of the SNEC Technical Specifications. The analysis results are presented in Exhibit 1, attached. The presence of this water poses no threat to the environment or to the public health and safety, since there are no release paths from the containment vessel sump to the environment. When appropriate, the water will be properly disposed of as it has been in the past.

The water originates from condensation on the inside of the CV. The condensation is a consequence of a breather pipe installed during decommissioning, which permits the CV to breathe when changes in atmospheric temperature occur.

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It is apparent that the influx of water to the sump cannot be readily terminated without installation of a system to control the internal atmosphere of the CV. This action is not deemed necessary since the water has no pathway to the external environment. We will continue to periodically monitor, remove, and take the appropriate steps to secure and dispose of this water.

Sincerely,

M B Roche for

R. W. Heward, Jr.
President

RWH/cb:0224S
Attachment

cc: W. Baunack, NRC
C. Cowgill, NRC
H. Berkow, NRC
T. Murley, NRC
A. Adams, NRC
R. Conte, NRC
W. Russell, NRC

File: 2412.5.2

EXHIBIT 1

Results of SNEC C.V. Sump Water

Third Quarter 1987

<u>Isotope</u>	<u>CV Water Concentration (uCi/ml)</u>	<u>10 CFR 20 App. B* Table II, Col. 2 Limits (uCi/ml)</u>
Co-60	$3.5\text{E-}5 \pm 2.2\text{E-}6$	$3.0\text{E-}5$ (I) *
Cs-134	$1.1\text{E-}5 \pm 1.5\text{E-}6$	$9.0\text{E-}6$ (S) *
Cs-137	$3.6\text{E-}3 \pm 1.8\text{E-}5$	$2.0\text{E-}5$ (I) *
Sr-90	$3.2\text{E-}5 \pm 3.2\text{E-}5$	$3.0\text{E-}7$ (S) *

*Values listed are the more restrictive between soluble (S)
and insoluble (I).