John D. O'Toole
Vice President

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November 12, 1982

Re: Indian Point Unit Nos. 1 and 2
Docket Nos. 50-03 50-247

Mr. Ronald C. Haynes,
Regional Administrator
Region I
U. S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, Pa. 19406

Dear Mr. Haynes:

Please find attached two copies of revised pages for the semi-annual effluent and waste disposal report submitted on August 30, 1982. These revisions effect minor editorial and typographical corrections to the original pages.

Should you or your staff have any questions please call us.

Very truly yours,

John D. O'Toole

attach.
6 copies to: Mr. Richard DeYoung, Director
Office of Inspection and Enforcement
c/o Distribution Services Branch, DDC, ADM
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

1 copy to: Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

1 copy to: Mr. Thomas Foley, Senior Resident Inspector
U. S. Nuclear Regulatory Commission
P. O. Box 38
Buchanan, New York 10511

En.

IE25

b&c. Iodines and Particulates

The applicable quarterly limits for Iodine-131 and particulates with half-lives greater than 8 days in Section 2.4.2.b.3 of the ETSR have been used as the maximum permissible concentrations for the purpose of calculating the percent of technical specification limit in Table 1A of this document.

d. Liquid Effluents

All liquid discharges from Indian Point are made through a common discharge canal with a minimum of 100,000gpm dilution water. The isotopic content, excluding tritium and dissolved noble gas, of continuous and batch mode discharges for each calendar quarter has been added, and a weighted average fraction of MPC has been calculated for this isotopic mixture. The percent of applicable limit reported in Table 2A of this document is the percent of MPC concentration of the time averaged diluted concentration for each calendar quarter

The third and fourth quarter continuous releases are for Units 1 and 2 only. The batch releases discharged through the common site liquid waste processing facility have been apportioned according to the volume transferred from the respective units to that processing facility.

The tritium limit has been established in the same manner as the other isotopes in liquid effluents. A derived MPC of 2×10^{-4} uCi/ml for dissolved noble gases has been conservatively adopted for the swimming pathway.

3. Average Energy

The average energy (E) of the radionuclide mixture in releases of fission and activation gases for the third quarter was 4.73E-2 Mev/Dis. for $\bar{E}\gamma$ and 1.54E-1 Mev/Dis. for $\bar{E}\beta$. The corresponding values for the fourth quarter were 3.40E-2 Mev/Dis. and 1.49E-1 Mev/Dis., respectively.

4. Measurements and Approximations of Total Radioactivity

a. Fission and Activation Gases

Analysis of effluent gases has been performed in compliance with the requirements of Table 2.4-2 of the ETSR. In the case of isolated tanks (batch releases) the total activity discharged is based on an isotopic analysis of each batch and the volume of gas in that batch corrected to standard temperature and pressure.

Indian Point Units 1 and 2

RADIOLOGICAL IMPACT ON MAN

(Reference Regulatory Guide 1.21, page 12)

A. Maximum Individual Doses

Pathways (Gaseous)	Total Body (mRem)	Skin (mRem)	Thyroid (mRem)	Bone (mRem)
Noble Gas Immersion	.66 E+01	.84 E+01	N/A	N/A
Batch Releases	.12 E+00	.28 E+00	N/A	N/A
b) Continuous Releases				
Inhalation	3.64 E-03	N/A	N/A	N/A
Ground Deposition	.13 E-01	.15 E-01	N/A	N/A
Milk Ingestion*	3.05 E-03	N/A	1.95 E-02	1.42 E-02
Meat Ingestion***	4.64 E-04	N/A	5.49 E-04	2.32 E-03
Vegetable Ingestion***	2.18 E-02	N/A	1.78 E-01	1.08 E-01

* Infants are critical age group
** Adults are critical age group
*** Children are critical age group

Pathways (Liquid)	
All	See Attached "LADTAP" printout Attachment I

NA = Not Applicable

B.

Population (Gaseous)	Total Body (man-rem)	Thyroid (man-thyroid rem)
Noble Gas Immersion		
a) Batch Release	.59 E+02	N/A
b) Continuous Release	.55 E+01	N/A
Inhalation	.21 E+00	.38 E+01
Ground Deposition	3.20 E-01	N/A
Totals	6.53 E+01	.38 E+01

Pathways (Liquid)

All — See attached "LADTAP" printout Attachment I

C. Average Doses to Individuals

1. Liquid-Total Body 7.16 E-04 mRem

2. Gaseous-Total Body 3.37 E-06 mRem

N/A = Not Applicable