JUN 01 1993

Docket No. 030-20934

License No. 37-23341-01

Borough of Royersford
ATTN: Michael Claflin, Superintendent
Wastewater Treatment Facility
300 Main Street
P. O. Box 188
Royersford, Pennsylvania 19468

Dear Mr. Claflin:

Subject:

Third Quarter and Fourth Quarter 1992 Wastewater Discharge Reports from INS Corporation and Results of Second and Third Quarters 1992 TLD Direct Radiation Environmental Monitoring at the Royersford Wastewater Treatment Facility

Enclosed are the results of analyses of discharges made by the INS Corporation to the Royersford Wastewater Treatment Facility during the months of July, August, September, October, November and December of 1992. Also enclosed are the results of the TLD dosimeters used to monitor environmental radiation levels during the periods of July 17 through October 1, 1992 and October 1, 1992 through January 8, 1993. Please contact me or Betsy Ullrich at 215-337-5040 if you have any questions.

Your cooperation with us is appreciated.

Sincerely,

Örigical Signed By: John D. Kinneman

John D. Kinneman, Chief Research, Development, and Decommissioning Section Division of Radiation Safety and Safeguards

Enclosures:

- 1. Third Quarter 1992 Wastewater Discharge Report
- 2. Fourth Quarter 1992 Wastewater Discharge Report
- 3. Third Quarter 1992 TLD Direct Radiation Environmental Monitoring Record
- 4. Fourth Quarter 1992 TLD Direct Radiation Environmental Monitoring Record

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Public Document Room (PDR) Nuclear Safety Information Center (NSIC) Commonwealth of Pennsylvania

Commonwealth of Pennsylvania Department of Environmental Resources ATTN: Margaret Reilly P. O. Box 2063 Harrisburg, Pennsylvania 17120

Commonwealth of Pennsylvania Department of Environmental Resources ATTN: Ivna Shanbaky 1875 New Hope Street Norristown, Pennsylvania 19401

Interstate Nuclear Services
ATTN: Michael Bovino, Manager
Health Physics and Engineering
295 Parker Street
P. O. Box 51957
Springfield, Massachusetts 01151

Interstate Nuclear Services ATTN: H. Burns, Plant Manager 401 North Third Avenue Royersford, Pennsylvania 19468

bcc:

Region I Docket room (w/concurrences)
E. Ullrich, RI
J. Kinneman, RI
M. Miller, RI

RI:DESS Ullfich/GMP RIDASS Kinneman

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ENCLOSURE 1

INS CORPORATION

QUARTERLY WASTEWATER DISCHARGE REPORT

ROYERSFORD, PA

July 1992

ISOTOPE	CONCENTRATION μCi/ml	% SEWER MPC
Cs-134	3.46E-7	.12
Cs-137	1.75E-6	. 44
Co-58	1.40E-7	<.01
Co-60	2.58E-7	.03
Mn-54	9.84E-8	<.01
Zn-65	1.01E-7	<.01

August 1992

ISOTOPE	CONCENTRATION µCi/ml	% SEWER MPC
Cs-134	1.33E-7	.04
Cs-137	1.87E-6	.47
Co-58	7.10E-8	<.01
Co-60	3.10E-7	.03
Mn-54	8.93E-8	<.01

September 1992

ISOTOPE	CONCENTRATION μCi/ml	% SEWER MPC
Cs-137	3.10E-7	.08
Co-60	4.75E-7	.05
Mn-54	3.10E-7	.01
Zn-65	4.66E-7	.02

July 1992 throug September 1992

ISOTOPE	CONCENTRATION	% SEWER MPC
H-3	1.95E-5	.02
Sr-90	1.8E-8	.18
Sr-89	<mda< td=""><td></td></mda<>	
Tc-99	6.8E-8	<0.01
Fe-55	3.0E-7	<0.01

Total volume discharged this quarter was 115909 ft³. Total Activity discharged this quarter was 71,904 $\mu \rm Ci$.

INS CORPORATION

QUARTERLY WASTEWATER DISCHARGE REPORT

ROYERSFORD, PA

October 1992

ISOTOPE	CONCENTRATION μCi/ml	% SEWER MPC
Cs-134	9.18E-8	.03
Cs-137	3.02E-7	.08
Co-60	5.80E-7	.06
Mn-54	4.50E-7	.02
Zn-65	1.88E-6	.06

November 1992

ISOTOPE	CONCENTRATION μCi/ml	% SEWER MPC
Cs-134	1.41E-7	.05
Cs-137	7.11E-7	.18
Co-60	2.74E-7	.03
Mn-54	1.01E-7	<.01

December 1992

ISOTOPE	CONCENTRATION	% SEWER MPC
Cs-134	2.01E-7	.07
Cs-137	1.18E-6	.30
Co-60	1.85E-6	.18
Mn-54	4.24E-7	.01
Zn-65	4.39E-7	.01

October 1992 through December 1992

ISOTOPE	CONCENTRATION μCi/ml	% SEWER MPC
H-3	1.08E-5	.01
Sr-90	1.69-8	.17
Sr-89	<mda< td=""><td></td></mda<>	
Tc-99	2.31-7	< 0.01
Fe-55	<mda< td=""><td></td></mda<>	

Total volume discharged this quarter was 179,631 ft³. Total Activity discharged this quarter was $56,765 \mu Ci$.

ENCLOSURE 3

Third Quarter 1992 TLD Direct Radiation Environmental Monitoring at the Royersford Wastewater Treatment Facility

Period: July 17, 1992 to October 1, 1992 Transit Dose: 4.0 millirem

Location		Net Exposure (millirem)
1.	Reed Bed #1, Cell A	160.4
2.	Reed Bed #2, Cell B	190.5
3.	Fence by Reed Bed #1 (east)	19.0
4.	Settling tanks rail - by Reed Bed #1	33.1
5.	Settling tanks rail - by Secondary digester	16.1
6.	Rear Fence (north)	17.5
7.	Fence by Reed Bed #2 (west)	18.5
8.	Secondary Biofilter lamp post	19.7
9.	Secondary Digester - center of west side	missing - no data
10.	Flag pole	18.5
11.	Front fence (south)	17.8
12.	Chlorine building lamp post	27.2
13.	Primary Digester - top of ladder	35.7
14.	Secondary Digester - center of east side	27.1
15.	Settling tanks rail - path to office door	16.3
16.	Office	20.8

ENCLOSURE 4

Fourth Quarter 1992 TLD Direct Radiation Environmental Monitoring at the Royersford Wastewater Treatment Facility

Period: October 1, 1992 to January 8, 1993

Transit Dose: 3.8 millirem

Location		Net Exposure (millirem)
1.	Reed Bed #1, Cell A	163.0
2.	Reed Bed #2, Cell B	181.4
3.	Fence by Reed Bed #1 (east)	22.2
4.	Settling tanks rail - by Reed Bed #1	38.1
5.	Settling tanks rail - by Secondary digester	19.3
6.	Rear Fence (north)	20.2
7.	Fence by Reed Bed #2 (west)	23.1
8.	Secondary Biofilter lamp post	24.6
9.	Secondary Digester - center of west side	21.5
10.	Flag pole	19.5
11.	Front fence (south)	23.7
12.	Chlorine building lamp post	30.0
13.	Primary Digester - top of ladder	18.6
14.	Secondary Digester - center of east side	28.3
15.	Settling tanks rail - path to office door	17.6
16.	Office	22.1