

JUL 30 1992

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 198
Royersford, Pennsylvania 19468

Dear Mr. Claflin:

Subject: Results of First Quarter 1992 TLD Monitoring and Summary Fourth Quarter
1991 and First Quarter 1992 Wastewater Discharges by INS Corporation,
Royersford, Pennsylvania

Enclosed are the results of the TLD direct radiation environmental monitoring performed at
the Royersford Wastewater Treatment Facility for the period January 7 to March 17, 1992.
Also enclosed is the summary of the discharges made by INS Corporation to your facility for
the months of October through December 1991 and January through March 1992.

If you have any question, please contact me or Betsy Ullrich.

Your cooperation with us is appreciated.

Sincerely,

Original Signed By:
Francis M. Costello

Francis M. Costello, Chief
Research, Development &
Decommissioning Section
Division of Radiation Safety
and Safeguards

ROYERSFORD

OFFICIAL RECORD COPY

Pg 1

June 19, 1992

9208110161 920730
REG 1 LIC 30
37-23341-01 PDR

RETURN ORIGINAL TO
REGION I

IE:07

Enclosures:

1. TLD Results
2. INS Corporation Quarterly Wastewater Discharge Reports

cc:

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

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

Interstate Nuclear Services
ATTN: Michael Bovino
Corporate Health Physicist
295 Parker Street
P.O. Box 51957
Springfield, Massachusetts 01151

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

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

bcc:

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

RI:DRSS
Miller

06/3/92

Miller

RI:DRSS

~~Kinneman~~ Costello

06/23/92

RMC

TLD Direct Radiation Environmental Monitoring at the Royersford
Wastewater Treatment Facility

Transit Dose: 2.8 millirem

| | <u>Location</u> | <u>Net Exposure (millirem)</u> |
|-----|----------------------------------|------------------------------------|
| 1. | Reed Bed #1, Cell A | 159.3 |
| 2. | Reed Bed #2, Cell B | 173.9 |
| 3. | Fence by Reed Bed #1 (East) | 16.6 |
| 4. | Settling Tank - Reed Bed #1 | 33.1 |
| 5. | Settling Tank | 14.2 |
| 6. | Rear Fence | 16.7 |
| 7. | Fence by Reed Bed #2 (West Side) | damaged (no data) |
| 8. | Secondary Bio Filter - Lamp post | 19.2 |
| 9. | Secondary Digester (West Side) | 17.2 |
| 10. | Flag Pole | 15.6 |
| 11. | Front Fence | 16.9 |
| 12. | Chlorine Building - lamp post | 25.3 |
| 13. | Ladder Top - Primary digester | 28.8 |
| 14. | Secondary digester (East Side) | 24.6 |
| 15. | Settling Tank - Office Door | 15.0 |
| 16. | Inside Office | 18.5 |

Period: January 7, 1992 through March 17, 1992

INS CORPORATION
QUARTERLY WASTEWATER DISCHARGE REPORT
ROYERSFORD, PA

October 1991

| ISOTOPE | CONCENTRATION uCi/ml | % SEWER MPC |
|---------|-------------------------|-------------|
| Cs-137 | 9.90E-7 | .25 |
| Mn-54 | 1.31E-7 | <.01 |
| Co-60 | 4.96E-7 | .05 |
| Cs-134 | 2.67E-7 | .09 |
| Co-58 | 3.14E-7 | .01 |

November 1991

| ISOTOPE | CONCENTRATION uCi/ml | % SEWER MPC |
|---------|-------------------------|-------------|
| Cs-134 | 2.66-E7 | .09 |
| Cs-137 | 1.10E-6 | .28 |
| Mn-54 | 1.47E-7 | <.01 |
| Co-60 | 4.19E-7 | .04 |
| Co-58 | 3.08E-7 | .01 |

December 1991

| ISOTOPE | CONCENTRATION uCi/ml | % SEWER MPC |
|---------|-------------------------|-------------|
| Cs-137 | 6.18-E7 | .41 |
| Co-60 | 3.87E-7 | .22 |
| Co-58 | 1.94E-7 | .01 |

October 1991 through December 1991

| ISOTOPE | CONCENTRATION uCi/ml | % SEWER MPC |
|---------|-------------------------|-------------|
| H-3 | 1.46E-5 | .01 |
| Sr-90 | 4.90E-9 | .05 |
| Sr-89 | <MDA | |

Total volume discharged this quarter was 125,290 ft³.
Total Activity discharged this quarter was 6845 uCi.

INS CORPORATION
QUARTERLY WASTEWATER DISCHARGE REPORT
ROYERSFORD, PA

January 1992

| ISOTOPE | CONCENTRATION $\mu\text{Ci/ml}$ | % SEWER MPC |
|---------|------------------------------------|-------------|
| Cs-137 | 1.19E-6 | .3 |
| Co-58 | 4.97E-7 | .02 |
| Co-60 | 9.66E-7 | .1 |

February 1992

| ISOTOPE | CONCENTRATION $\mu\text{Ci/ml}$ | % SEWER MPC |
|---------|------------------------------------|-------------|
| Cs-137 | 5.49E-7 | .14 |
| Co-58 | 1.62E-7 | .01 |
| Co-60 | 2.39E-7 | .02 |

March 1992

| ISOTOPE | CONCENTRATION $\mu\text{Ci/ml}$ | % SEWER MPC |
|---------|------------------------------------|-------------|
| Cs-137 | 3.19E-7 | .08 |
| Co-58 | 1.81E-7 | .01 |
| Co-60 | 5.94E-7 | .06 |
| Mn-54 | 2.51E-7 | .01 |

January 1992 through March 1992

| ISOTOPE | CONCENTRATION $\mu\text{Ci/ml}$ | % SEWER MPC |
|---------|------------------------------------|-------------|
| H-3 | 1.33E-5 | .01 |
| Sr-90 | 1.47E-7 | 1.47 |
| Sr-89 | <MDA | |
| Fe-55 | 1.61E-6 | .01 |
| Tc-99 | 3.66E-6 | .07 |

Total volume discharged this quarter was 155,440 ft³.
 Total Activity discharged this quarter was 6827 μCi .