

JUN 10 1997

Docket No. 030-20934

License No. 37-23341-01

Michael Claflin, Superintendent  
Wastewater Treatment Facility  
Borough of Royersford  
P. O. Box 188  
Royersford, Pennsylvania 19468

SUBJECT: 1) First Quarter 1997 TLD Monitoring Results  
2) INS Quarterly Report - First Quarter 1997  
3) Facsimile dated June 2, 1997

Dear Mr. Claflin:

Enclosed are the results of the TLD Monitoring performed by the NRC at the Royersford Wastewater Treatment Facility for the period January 8 through April 3, 1997. Also enclosed is the quarterly report of effluent releases made by Interstate Nuclear Services during the first quarter of 1997.

This also refers to the facsimile you provided us on June 2, 1997, transmitting the results of the second review by your consultants of the results of analyses of samples they performed. Their second review, dated April 2, 1997, provides information explaining why they believe that the radionuclides cobalt-57, niobium-97, cadmium-109, and antimony-122 were not present in the sample, although these radionuclides were included in the original report to you. We have reviewed their explanation and agree with their conclusion. The consultants also confirmed that they believe that the results reporting the presence of iodine-125 are correct. The NRC has contacted Oak Ridge Institute for Science and Education (ORISE), who confirmed that their laboratory gamma spectrum analysis does not normally include the low range of energies where iodine-125 could be identified, because of the difficulty of analyses in this low energy range. They did identify iodine-125 in a recent liquid sample when specifically requested to look in that range. It is possible that iodine-125 is a radionuclide of interest and we will request that ORISE include this in future analyses of samples from Royersford.

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M. Claflin  
Royersford Waste Water Treatment

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Please contact me or Betsy Ullrich at (610) 337-5040 if you have any questions. Your cooperation with us is appreciated.

Sincerely,

ORIGINAL SIGNED BY:

John D. Kinneman, Chief  
Nuclear Materials Safety Branch 2  
Division of Nuclear Materials Safety

Docket No. 030-20934  
License No. 37-23341-01

Enclosures:

1. First Quarter 1997 TLD Direct Radiation Environmental Monitoring Record
2. INS letter dated May 30, 1997 with Quarterly Report - 1st Quarter 1997

cc w/encls:  
Commonwealth of Pennsylvania

William Kirk, Chief  
Environmental Radiation Division  
Commonwealth of Pennsylvania  
Department of Environmental Resources  
P. O. Box 2063  
Harrisburg, Pennsylvania 17120

Ivna Shanbaky  
Commonwealth of Pennsylvania  
Department of Environmental Resources  
Lee Park  
555 North Lane, Suite 610  
Conshohocken, Pennsylvania 19428

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

Daniel Neeley, Plant Manager  
Interstate Nuclear Services  
401 North Third Avenue  
Royersford, Pennsylvania 19468

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Royersford Waste Water Treatment

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E. Ullrich, RI

J. Kinneman, RI

D. Chawaga, RI

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NAME	ULLRICH/exu	KINNEMAN		
DATE	06/06/97	06/10/97	06/ /97	06/ /97

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## Enclosure 1

First Quarter 1997 TLD Direct Radiation Environmental Monitoring at the  
Royersford Wastewater Treatment Facility

Period: January 8 through April 3, 1997  
Transit Dose: 4.4 millirem

### Location

### Net Exposure (millirem)

1. Reed Bed #1, Cell A	235.9
2. Reed Bed #2, Cell B	337.4
3. Fence by Reed Bed #1 (east)	23.4
4. Settling tanks rail - by Reed Bed #1	52.0
5. Settling tanks rail - by Secondary Digester	21.0
6. Rear Fence (north)	18.7
7. Fence by Reed Bed #2 (west)	16.0
8. Light Switch of Storage Building	14.8
9. Secondary Digester - center of west side	19.0
10. Flag pole	17.2
11. Front fence (south)	18.5
12. Chlorine building lamp post	27.1
13. Primary Digester - top of ladder	49.9
14. Secondary Digester - center of east side	37.5
15. Settling tanks rail - path to office door	17.0
16. Office	19.5

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