

June 16, 1997

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

SUBJECT: INS Quarterly Report - Third and Fourth Quarters 1996

Dear Mr. Claflin:

Enclosed is the quarterly report of effluent releases made by Interstate Nuclear Services during the third and fourth quarters of 1996. 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

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

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

Enclosure:

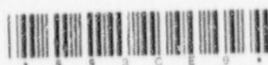
INS Letter dated March 21, 1997 with Third and Fourth Quarter 1996
Sewer Discharge Report

cc:

Commonwealth of Pennsylvania

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

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M. Claflin
Borough of Royersford

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Commonwealth of Pennsylvania
Department of Environmental Resources
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Borough of Royersford

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OFFICE	DNMS/RI	N	DNMS/RI	N			
NAME	ULLRICH/exu		KUNNEMAN				
DATE	06/12/97		06/13/97		06/ /97		06/ /97



INTERSTATE NUCLEAR SERVICES
A SUBSIDIARY OF UNIFIRST CORPORATION

March 21, 1997

Ms. Elizabeth Ullrich
Senior Health Physicist
US Nuclear Regulatory Commission
Division of Nuclear Material Safety
475 Allendale Road
King of Prussia, PA 19406

Ref: License No. 37-23341-01 - 3rd & 4th Quarter 1996 Sewer Discharge Report

Dear Ms. Ullrich:

Enclosed are the referenced reports. The 3rd quarter report was delayed due to INS staff changes and ongoing efforts to address NRC questions regarding sewer discharges from the Royersford facility as far back as 1986. Please accept our apologies for any inconvenience this may have caused.

You will notice some changes in format and an increase in the January discharge volume. The increase in the January discharge volume is due to a transcription error that occurred on 25 January when 315,000 gallons was transferred to the next days running monthly total as 31,500 gallons. All changes to format will be explained in the response to Mr. Kinneman's letter dated January 14, 1997, which is expected to be sent by the end of March.

If you have any questions, please do not hesitate to contact me at 413-543-6911 x24.

Sincerely,

Glenn Roberts
Corporate Health Physicist
INS Corporation

cc: Mike Fuller, Manager, Health Physics and Engineering
Paul Manley, Operations Manager
Dan Neely, Plant Manager/RSO, Royersford.

MAR 26 1997

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1996 ROYERSFORD DISCHARGE WATER CONCENTRATIONS (uCi/ml)																			
	Cs-134	Cs-137	Co-58	Co-60	Mn-54	Zn-65	Ni-63	Fe-55	Sr-89	Sr-90	Tc-99	I-129	Total	Gallons	uCi	C-14	C-14 uCi	H-3	H-3 uCi
Jan	7.33E-08	4.55E-07	3.93E-08	2.11E-07	1.13E-07	NF	5.89E-07	<MDA	2.75E-08	1.08E-08	<MDA	<MDA	1.52E-06	445000	2.56E+03	<MDA	0.00E+00	1.44E-05	2.43E+04
Feb	1.25E-07	4.72E-07	5.76E-08	7.30E-07	5.32E-07	2.86E-07	5.89E-07	<MDA	2.75E-08	1.08E-08	<MDA	<MDA	2.83E-06	945000	1.01E+04	<MDA	0.00E+00	1.44E-05	5.16E+04
Mar	2.76E-07	1.04E-06	2.14E-08	1.06E-07	9.16E-08	9.42E-08	5.89E-07	<MDA	2.75E-08	1.08E-08	<MDA	<MDA	2.26E-06	540000	4.61E+03	<MDA	0.00E+00	1.44E-05	2.95E+04
Apr	1.02E-06	5.62E-06	8.25E-07	2.94E-07	1.06E-07	NF	4.42E-06	<MDA	3.21E-08	<MDA	9.90E-08	<MDA	1.24E-05	935000	4.39E+04	5.74E-07	2.03E+03	2.64E-05	9.34E+04
May	3.85E-07	2.44E-06	6.25E-08	3.84E-08	2.99E-08	NF	4.42E-06	<MDA	3.21E-08	<MDA	9.90E-08	<MDA	7.51E-06	745000	2.12E+04	5.74E-07	1.62E+03	2.64E-05	7.44E+04
Jun	3.19E-07	2.33E-06	NF	1.93E-07	NF	NF	4.42E-06	<MDA	3.21E-08	<MDA	9.90E-08	<MDA	7.39E-06	15000	4.19E+02	5.74E-07	3.26E+01	2.64E-05	1.50E+03
Jul	5.08E-07	3.33E-06	NF	2.27E-07	NF	NF	1.41E-06	7.19E-07	3.12E-08	1.17E-08	2.46E-06	2E-08	8.72E-06	10000	3.30E+02	<MDA	0.00E+00	9.13E-06	3.46E+02
Aug	3.03E-07	1.36E-06	NF	2.96E-07	3.08E-08	NF	1.41E-06	7.19E-07	3.12E-08	1.17E-08	2.46E-06	2E-08	6.64E-06	135000	3.39E+03	<MDA	0.00E+00	9.13E-06	4.67E+03
Sep	4.27E-08	5.75E-07	NF	2.11E-07	NF	1.51E-07	1.41E-06	7.19E-07	3.12E-08	1.17E-08	2.46E-06	2E-08	5.63E-06	1305000	2.78E+04	<MDA	0.00E+00	9.13E-06	4.51E+04
Oct	3.71E-08	5.00E-07	7.27E-08	1.10E-07	NF	3.08E-07	<MDA	8.20E-06	<MDA	<MDA	<MDA	<MDA	9.23E-06	905000	3.16E+04	<MDA	0.00E+00	1.20E-05	4.11E+04
Nov	8.58E-08	5.80E-07	2.29E-08	1.85E-07	NF	2.13E-07	<MDA	8.20E-06	<MDA	<MDA	<MDA	<MDA	9.29E-06	470000	1.65E+04	<MDA	0.00E+00	1.20E-05	2.13E+04
Dec	5.58E-08	3.35E-07	NF	3.39E-07	1.60E-07	3.00E-07	<MDA	8.20E-06	<MDA	<MDA	<MDA	<MDA	9.39E-06	500000	1.78E+04	<MDA	0.00E+00	1.20E-05	2.27E+04
TOTAL														6950000	1.80E+05	C-14 TOTAL	3.68E+03	H-3 TOTAL	4.10E+05
LIMIT															1.00E+06	C-14 LIMIT	1.00E+06	H-3 LIMIT	5.00E+06
RATIO															1.80E-01	RATIO	3.68E-03	RATIO	8.20E-02

NOTES:

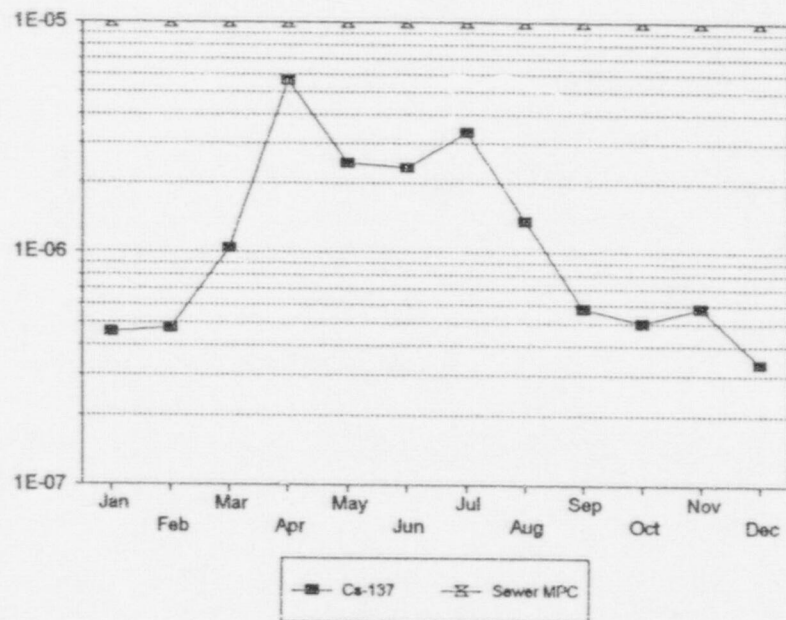
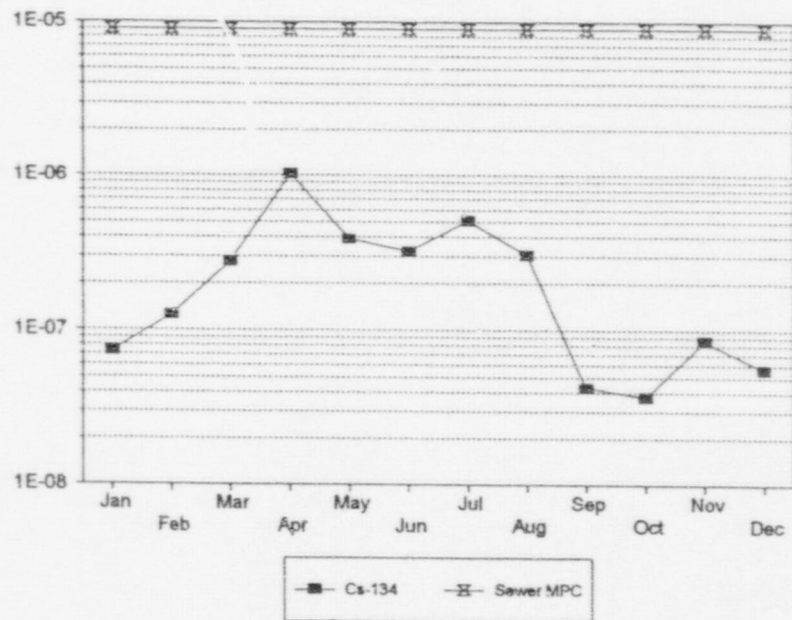
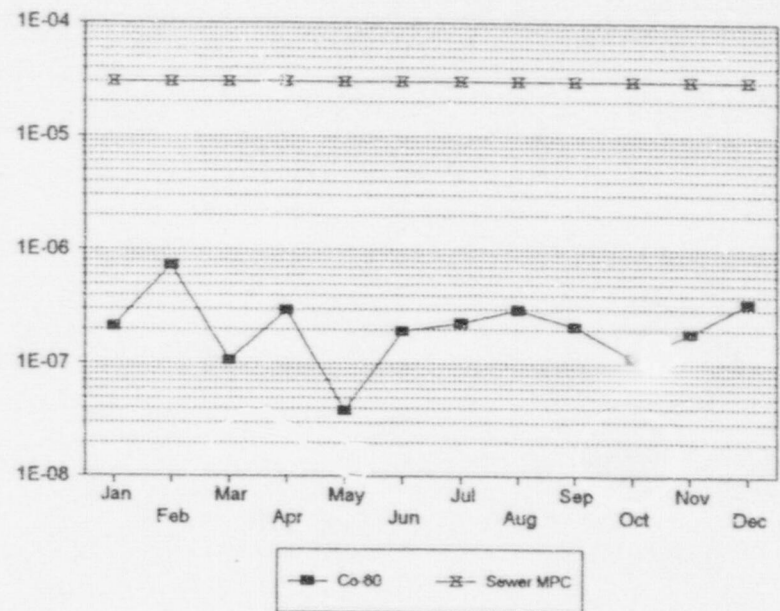
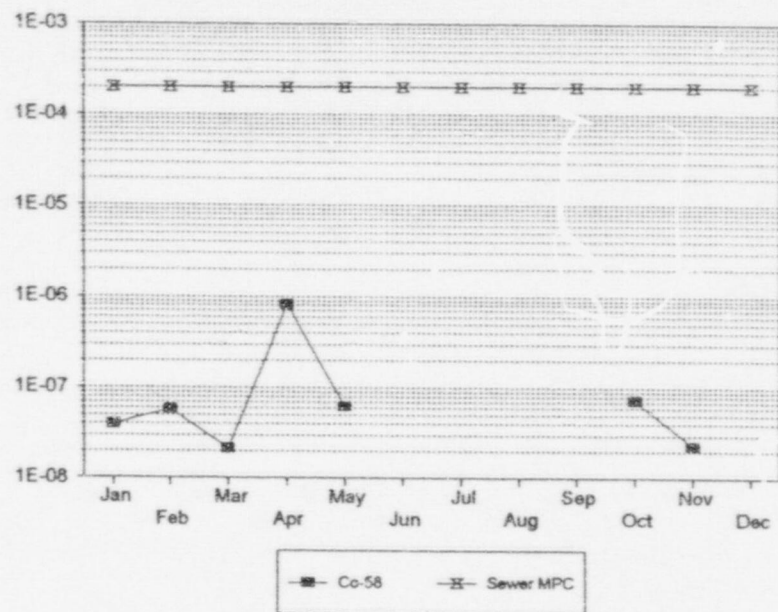
NF = Not Found in gamma spectrum library search

All information based on monthly or quarterly composites.

Additional gammas identified: Co-57 (Mar); @ 1.61E-07, Nb-95 (Apr) @ 1.51E-07, Zr-95 (Apr) @ 8.88E-08, Ag-110m (Apr) @ 5.04E-08, Eu-154 (Dec) @ 3.77E-08, and Th-234 (Mar) @ 5.20E-07.

RATIOS OF MAXIMUM PERMISSIBLE SANITARY SEWER DISCHARGE														
	Cs-134	Cs-137	Co-58	Co-60	Mn-54	Zn-65	Ni-63	Fe-55	Sr-89	Sr-90	Tc-99	I-129	C-14	H-3
LIMIT	9.00E-06	1.00E-05	2.00E-04	3.00E-05	3.00E-04	5.00E-05	1.00E-03	1.00E-03	8.00E-05	5.00E-06	6.00E-04	2.00E-06	3.00E-04	1.00E-02
Jan	8.14E-03	4.55E-02	1.96E-04	7.03E-03	3.78E-04	0.00E+00	5.89E-04	0.00E+00	3.44E-04	2.16E-03	0.00E+00	0.00E+00	0.00E+00	1.44E-03
Feb	1.39E-02	4.72E-02	2.88E-04	2.43E-02	1.77E-03	5.72E-03	5.89E-04	0.00E+00	3.44E-04	2.16E-03	0.00E+00	0.00E+00	0.00E+00	1.44E-03
Mar	3.06E-02	1.04E-01	1.07E-04	3.53E-03	3.05E-04	1.88E-03	5.89E-04	0.00E+00	3.44E-04	2.16E-03	0.00E+00	0.00E+00	0.00E+00	1.44E-03
Apr	1.13E-01	5.62E-01	4.12E-03	9.78E-03	3.54E-04	0.00E+00	4.42E-03	0.00E+00	4.01E-04	0.00E+00	1.65E-04	0.00E+00	1.91E-03	2.64E-03
May	4.28E-02	2.44E-01	3.12E-04	1.28E-03	9.98E-05	0.00E+00	4.42E-03	0.00E+00	4.01E-04	0.00E+00	1.65E-04	0.00E+00	1.91E-03	2.64E-03
Jun	3.55E-02	2.33E-01	0.00E+00	6.43E-03	0.00E+00	0.00E+00	4.42E-03	0.00E+00	4.01E-04	0.00E+00	1.65E-04	0.00E+00	1.91E-03	2.64E-03
Jul	5.64E-02	3.33E-01	0.00E+00	7.57E-03	0.00E+00	0.00E+00	1.41E-03	7.19E-04	3.90E-04	2.34E-03	4.10E-03	1.00E-02	0.00E+00	9.13E-04
Aug	3.37E-02	1.36E-01	0.00E+00	9.87E-03	1.03E-04	0.00E+00	1.41E-03	7.19E-04	3.90E-04	2.34E-03	4.10E-03	1.00E-02	0.00E+00	9.13E-04
Sep	4.74E-03	5.75E-02	0.00E+00	7.03E-03	0.00E+00	3.02E-03	1.41E-03	7.19E-04	3.90E-04	2.34E-03	4.10E-03	1.00E-02	0.00E+00	9.13E-04
Oct	4.12E-03	5.00E-02	3.63E-04	3.67E-03	0.00E+00	6.16E-03	0.00E+00	8.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03
Nov	9.53E-03	5.80E-02	1.15E-04	6.17E-03	0.00E+00	4.26E-03	0.00E+00	8.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03
Dec	6.20E-03	3.35E-02	0.00E+00	1.13E-02	5.32E-04	5.99E-03	0.00E+00	8.20E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-03

Royersford 1996 Water Results (uCi/ml)



Royersford 1996 Water Results (uCi/ml)

