

MAY 23 1994

Docket Nos. 50-54
70-687

Mr. James J. McGovern
Plant Manager
Cintichem, Inc.
P. O. Box 816
Tuxedo, New York 10987

Dear Mr. McGovern:

Subject: Results of NRC TLD Direct Radiation Monitoring Around the Cintichem Facility

The results of the subject monitoring for the first quarter of 1994 are provided in the enclosure to this letter. Please feel free to contact me if you have any questions regarding this program.

Sincerely,

Original Signed By:

Richard K. Struckmeyer
Senior Radiation Specialist
Effluents Radiation Protection Section
Division of Radiation Safety
and Safeguards

Enclosure: As Stated

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9406070015 940523
PDR ADOCK 05000054
R PDR

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IE 06

Cintichem, Inc.

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cc w/encl:

J. Adler, Manager, Health, Safety, and Environmental Affairs

F. Morse, Project Manager, Decommissioning

Dr. W. Vernetson, TRTR

Dr. P. Merges, Director, Bureau of Radiation, NYS-DEC

Rita Aldrich, Principal Radiophysicist, Radiological Health Unit, NYS-DOL

Ms. A. Dorozynski, Town of Tuxedo Supervisor

Berle, Kass and Case

EPA Region II

K. Abraham, PAO (2)

Public Document Room (PDR)

Nuclear Safety Information Center (NSIC)

State of New York

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bcc w/encl:

Region I Docket Room (with concurrences)

N. Orlando, NMSS (OWFN 5 E 2)

S. Holmes, DRSS

T. F. Dragoun, DRSS

S. Weiss, NRR (OWFN 11 B 20)

W. Dean, OEDO

RI:DRSS

R48

Struckmeyer

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CINTICHEM
 TLD Direct Radiation Environmental Monitoring
 For the period 931209-940426 139 Days
 Field Time: 99 Days

NRC Sta	Location Azimuth/Dist (Deg)/(Mi)	Gross Exposure (mR) +-Rdm; Tot.	Net Exposure Rate (mR/Std. Qtr.) +-Rdm; Tot.	Hist. Range Net Exp Rate +-1 Std Dev
1	182 0.4	18.8 +- 0.6; 2.8	13.5 +- 0.6; 3.9	16.1 +- 1.1
2	150 1.0	16.4 +- 0.5; 2.5	11.4 +- 0.6; 3.7	14.3 +- 1.1
3	110 2.0	19.9 +- 0.6; 3.0	14.5 +- 0.6; 4.0	16.6 +- 1.3
4	106 2.1	20.2 +- 0.6; 3.0	14.8 +- 0.6; 4.0	20.0 +- 1.4
5	82 2.9	24.3 +- 0.7; 3.6	18.6 +- 0.7; 4.4	23.4 +- 1.3
6	91 4.4	20.3 +- 0.6; 3.0	14.9 +- 0.6; 4.0	17.9 +- 1.2
7	106 7.3	19.5 +- 0.6; 2.9	14.2 +- 0.6; 3.9	19.6 +- 1.3
8	135 6.6	21.2 +- 0.6; 3.2	15.7 +- 0.7; 4.1	18.9 +- 1.6
9	163 4.2	19.4 +- 0.6; 2.9	14.1 +- 0.6; 3.9	17.6 +- 2.5
10	129 3.9	21.1 +- 0.6; 3.2	15.6 +- 0.7; 4.1	18.2 +- 1.2
11	115 4.6	20.3 +- 0.6; 3.1	15.0 +- 0.6; 4.0	16.7 +- 1.1
12	74 3.9	18.5 +- 0.6; 2.8	13.3 +- 0.6; 3.8	16.1 +- 1.1
13	50 3.6	20.2 +- 0.6; 3.0	14.8 +- 0.6; 4.0	16.5 +- 1.1
14	22 4.1	21.4 +- 0.6; 3.2	15.9 +- 0.7; 4.1	17.3 +- 1.1
15	354 3.7	18.5 +- 0.6; 2.8	13.3 +- 0.6; 3.8	16.8 +- 1.2
16	359 2.1	19.3 +- 0.6; 2.9	14.0 +- 0.6; 3.9	17.6 +- 1.3
17	26 2.0	18.7 +- 0.6; 2.8	13.5 +- 0.6; 3.9	15.3 +- 1.0
18	47 1.6	21.0 +- 0.6; 3.2	15.6 +- 0.7; 4.1	17.5 +- 1.1
19	72 0.8	20.6 +- 0.6; 3.1	15.2 +- 0.7; 4.0	17.0 +- 1.3
20	335 7.3	21.3 +- 0.6; 3.2	15.9 +- 0.7; 4.1	17.0 +- 1.1

Transit Dose = 3.9 +- 0.4; 3.2

CINTICHEM
 For the period 931209-940426

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	13.6 +- 0.5	2
11.26 - 33.75 NNE	14.7 +- 1.8	2
33.76 - 56.25 NE	14.8 +- 0.0	1
56.26 - 78.75 ENE	13.3 +- 0.0	1
78.76 - 101.25 E	16.7 +- 2.6	2
101.26 - 123.75 ESE	14.6 +- 0.3	4
123.76 - 146.25 SE	15.7 +- 0.0	2
146.26 - 168.75 SSE	12.7 +- 1.9	2
168.76 - 191.25 S	13.5 +- 0.0	1
191.26 - 213.75 SSW	No Data +- No Data	0
213.76 - 236.25 SW	No Data +- No Data	0
236.26 - 258.75 WSW	No Data +- No Data	0
258.76 - 281.25 W	No Data +- No Data	0
281.26 - 303.75 WNW	No Data +- No Data	0
303.76 - 326.25 NW	No Data +- No Data	0
326.26 - 348.75 NNW	No Data +- No Data	0

Distance From Reactor (miles)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
0 - 2	13.2 +- 1.3	4
2 - 5	14.9 +- 1.5	11
> 5	15.0 +- 1.0	2
Upwind Control	15.5 +- 0.3	3