

MAR 04 1994

Docket Nos. 50-54 and 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 fourth quarter of 1993 are provided in the enclosure. Questions regarding this program may be directed either to me or to Dr. Richard K. Struckmeyer of my staff.

Sincerely,

original Signed By:

Judith A. Joustra, Chief
Effluents Radiation Protection Section
Division of Radiation Safety
and Safeguards

Enclosure: As Stated

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
Mr. G. L. Kasyk, 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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Cintichem, Inc.

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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)

V. McCree, OEDO

RI:DRSS

RAB

Struckmeyer

03/02/94

RI:DRSS

Joustra

Joustra

03/3/94

CINTICHEM

For the period 930916-940127

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	16.4 +- 1.0	3
11.26 - 33.75 NNE	No Data +- No Data	0
33.76 - 56.25 NE	15.6 +- 0.0	1
56.26 - 78.75 ENE	20.9 +- 2.0	2
78.76 - 101.25 E	16.4 +- 0.0	1
101.26 - 123.75 ESE	19.2 +- 0.0	1
123.76 - 146.25 SE	14.4 +- 1.7	2
146.26 - 168.75 SSE	15.2 +- 0.0	1
168.76 - 191.25 S	No Data +- No Data	0
191.26 - 213.75 SSW	17.7 +- 0.0	1
213.76 - 236.25 SW	16.2 +- 0.7	2
236.26 - 258.75 WSW	No Data +- No Data	0
258.76 - 281.25 W	14.5 +- 0.0	1
281.26 - 303.75 WNW	No Data +- No Data	0
303.76 - 326.25 NW	17.8 +- 0.0	1
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	18.3 +- 2.2	7
2 - 5	15.4 +- 1.5	7
> 5	16.0 +- 0.5	2
Upwind Control	No Data +- No Data	0

CINTICHEM

TLD Direct Radiation Environmental Monitoring

For the period 930916-940127 134 Days

Field Time: 84 Days

NRC Sta	Location		Gross	Net Exposure Rate	Hist. Range
	Azimuth/Dist (Deg)/(Mi)		Exposure (mR) +-Rdm; Tot.	(mR/Std. Qtr.) +-Rdm; Tot.	Net Exp Rate +-1 Std Dev
1	150	3.0	19.3 +- 0.6; 2.9	15.2 +- 0.7; 4.4	16.2 +- 1.1
2	140	2.1	17.4 +- 0.5; 2.6	13.2 +- 0.7; 4.1	14.3 +- 1.1
3	133	1.1	19.6 +- 0.6; 2.9	15.6 +- 0.7; 4.4	16.7 +- 1.3
4	120	0.5	23.0 +- 0.7; 3.5	19.2 +- 0.8; 4.8	20.1 +- 1.4
5	60	1.1	25.9 +- 0.8; 3.9	22.3 +- 0.9; 5.2	23.5 +- 1.3
6	345	1.1	Damaged Dosimeter	No Net Data	17.9 +- 1.2
7	60	0.1	23.3 +- 0.7; 3.5	19.5 +- 0.8; 4.8	19.6 +- 1.3
8	10	0.2	21.3 +- 0.6; 3.2	17.4 +- 0.8; 4.6	19.0 +- 1.7
9	230	0.8	20.7 +- 0.6; 3.1	16.7 +- 0.8; 4.5	17.7 +- 2.6
10	200	1.4	21.6 +- 0.6; 3.2	17.7 +- 0.8; 4.6	18.3 +- 1.2
11	225	2.8	19.7 +- 0.6; 2.9	15.6 +- 0.7; 4.4	16.8 +- 1.1
12	80	2.1	20.4 +- 0.6; 3.1	16.4 +- 0.8; 4.5	16.0 +- 1.2
13	45	5.4	19.7 +- 0.6; 2.9	15.6 +- 0.7; 4.4	16.6 +- 1.2
14	10	6.2	20.3 +- 0.6; 3.0	16.3 +- 0.8; 4.5	17.4 +- 1.1
15	358	3.3	19.5 +- 0.6; 2.9	15.4 +- 0.7; 4.4	16.9 +- 1.2
16	315	5.0	21.7 +- 0.7; 3.3	17.8 +- 0.8; 4.6	17.6 +- 1.3
17	265	4.0	18.6 +- 0.6; 2.8	14.5 +- 0.7; 4.3	15.3 +- 1.0
18	235	6.7	Missing Dosimeter	No Net Data	17.5 +- 1.1
19	235	6.7	Missing Dosimeter	No Net Data	17.0 +- 1.3
20	235	6.7	Missing Dosimeter	No Net Data	17.0 +- 1.1

Transit Dose = 5.1 +- 0.4; 2.0