

DCS

March 25, 1991

Docket Nos. 50-54
70-687

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

Gentlemen:

Subject: Results of NRC TLD Direct Radiation Monitoring around the
Cintichem facility

The results of the subject monitoring for the fourth quarter of 1990 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:
Jason Jang

for Robert J. Bores, Chief
Effluents Radiation Protection
Section, DRSS

Enclosure(s): As Stated

cc:
R. Strack, Reactor Supervisor
D. D. Grogan, Manager, Radiochemical Production
Dr. William Vernetson, Director of Nuclear Facilities,
University of Florida
A. Dorozynski, Supervisor, Town of Tuxedo, New York
EPA Region II
Berle, Kass & Case
Public Document Room (PDR)
Nuclear Safety Information Center (NSIC)
State of New York

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bcc:
Region I Docket Room (with concurrences)
Management Assistant, DRMA (w/c encl)
J. Roth, DRSS
T. Dragoun, DRSS
M. Austin, DRSS
T. Michaels, NRR
G. Comfort, NMSS

RI:DRSS *MS*
Struckmeyer
03/25/91

RI:DRSS *Jang*
for Bores
03/25/91

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CINTICHEM

TLD Direct Radiation Environmental Monitoring

For the period 900917-910117 123 Days

Field Time: 101 Days

NRC Sta	Location Azimuth/Dist (Deg)/(Mi)		Gross Exposure (mR) +-Rdm; Tot.	Net Exposure Rate (.1 Std. Qtr.) +-Rdm; Tot.	Hist. Range Net Exp Rate +-1 Std Dev
=====	=====	=====	=====	=====	=====
1	182	0.4	18.1 +- 0.5; 2.7	15.3 +- 0.5; 3.6	16.0 +- 0.5
2	150	1.0	15.7 +- 0.5; 2.3	13.2 +- 0.5; 3.4	14.1 +- 0.2
3	133	1.1	18.4 +- 0.6; 2.8	15.6 +- 0.5; 3.6	16.7 +- 1.2
4	106	2.1	22.4 +- 0.7; 3.4	19.2 +- 0.6; 4.0	20.0 +- 1.5
5	82	2.9	26.4 +- 0.8; 4.0	22.8 +- 0.7; 4.4	23.6 +- 0.5
6	91	4.4	19.2 +- 0.6; 2.9	16.3 +- 0.6; 3.7	17.6 +- 1.5
7	106	7.3	21.5 +- 0.6; 3.2	18.4 +- 0.6; 3.9	19.9 +- 0.6
8	135	6.6	20.5 +- 0.6; 3.1	17.5 +- 0.6; 3.8	18.9 +- 1.5
9	163	4.2	19.6 +- 0.6; 2.9	16.7 +- 0.6; 3.8	17.5 +- 0.9
10	129	3.9	20.2 +- 0.6; 3.0	17.2 +- 0.6; 3.8	18.8 +- 1.9
11	115	4.6	19.1 +- 0.6; 2.9	16.3 +- 0.6; 3.7	16.5 +- 1.1
12	74	3.9	18.1 +- 0.5; 2.7	15.4 +- 0.5; 3.6	16.1 +- 0.1
13	50	3.6	17.9 +- 0.5; 2.7	15.2 +- 0.5; 3.6	16.4 +- 0.8
14	22	4.1	19.9 +- 0.6; 3.0	17.0 +- 0.6; 3.8	17.4 +- 1.3
15	354	3.7	19.0 +- 0.6; 2.9	16.2 +- 0.6; 3.7	17.0 +- 0.8
16	359	2.1	19.9 +- 0.6; 3.0	17.0 +- 0.6; 3.8	18.1 +- 0.0
17	26	2.0	16.9 +- 0.5; 2.5	14.3 +- 0.5; 3.5	15.1 +- 1.1
18	47	1.6	19.4 +- 0.6; 2.9	16.5 +- 0.6; 3.7	17.4 +- 1.3
19	72	0.8	19.6 +- 0.6; 2.9	16.7 +- 0.6; 3.8	17.2 +- 1.1
20	335	7.3	18.8 +- 0.6; 2.8	16.0 +- 0.6; 3.7	16.9 +- 0.7

Transit Dose = 0.9 +- 0.3; 3.0

CINTICHEM

For the period 900917-910117

TLD Direct Radiation Environmental Monitoring

Azimuth (degrees)	Ave. Exposure Rate (mR/Std.Qtr.) +- Std.Dev.	Number In Group
348.76 - 11.25 N	16.6 +- 0.6	2
11.26 - 33.75 NNE	15.6 +- 1.9	2
33.76 - 56.25 NE	15.2 +- 0.0	1
56.26 - 78.75 ENE	15.4 +- 0.0	1
78.76 - 101.25 E	19.6 +- 4.6	2
101.26 - 123.75 ESE	18.0 +- 1.5	3
123.76 - 146.25 SE	16.8 +- 1.0	3
146.26 - 168.75 SSE	14.9 +- 2.5	2
168.76 - 191.25 S	15.3 +- 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	14.6 +- 1.1	4
2 - 5	17.2 +- 2.1	11
> 5	18.0 +- 0.7	2
Upwind Control	16.4 +- 0.4	3