

DCS

November 30, 1990

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 third 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:
Robert J. Bores

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/o encl)
J. Roth, DRSS
T. Dragoun, DRSS
M. Austin, DRSS
T. Michaels, NRR
G. Comfort, NMSS

RI:DRSS *AKS*
Struckmeyer
11/30/90

RI:DRSS *AKS*
Bores
11/30/90

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CINTICHEM
 YLD DIRECT RADIATION ENVIRONMENTAL MONITORING
 FOR THE PERIOD 900614-901024 133 DAYS
 FIELD TIME 90 DAYS

NRC STATION	LOCATION		GROSS EXPOSURE (mR)			NET EXPOSURE RATE mR/Std. Qtr.		
	AZIMUTH (deg.)	DIST (mi.)	+-	Rdm;	Tot.	+-	Rdm;	Tot.
001	150	3.0	19.2	+-	.6 ; 2.9	16.4	+-	.7 ; 4.0
002	140	2.1	17.0	+-	.5 ; 2.5	14.2	+-	.6 ; 3.0
003	110	2.0	20.4	+-	.6 ; 3.1	17.6	+-	.7 ; 4.2
004	120	0.5	23.9	+-	.7 ; 3.6	21.1	+-	.8 ; 4.6
005	60	1.1	26.0	+-	.8 ; 4.0	24.0	+-	.9 ; 4.9
006	345	1.1	21.5	+-	.6 ; 3.2	18.7	+-	.7 ; 4.3
007	60	0.1	23.1	+-	.7 ; 3.5	20.3	+-	.8 ; 4.5
008	10	0.2	22.0	+-	.7 ; 3.4	20.0	+-	.7 ; 4.4
009	230	0.3	21.0	+-	.6 ; 3.1	18.2	+-	.7 ; 4.2
010	200	1.4	22.9	+-	.7 ; 3.4	20.1	+-	.8 ; 4.5
011	225	2.0	20.1	+-	.6 ; 3.0	17.3	+-	.7 ; 4.1
012	80	2.1	19.0	+-	.6 ; 2.9	16.2	+-	.6 ; 4.0
013	45	5.4	19.0	+-	.6 ; 3.0	17.0	+-	.7 ; 4.1
014	10	6.2	21.2	+-	.6 ; 3.2	18.4	+-	.7 ; 4.3
015	350	3.3	20.4	+-	.6 ; 3.1	17.6	+-	.7 ; 4.2
016	315	5.0	20.9	+-	.6 ; 3.1	18.1	+-	.7 ; 4.2
017	265	4.0	18.7	+-	.6 ; 2.8	15.9	+-	.6 ; 4.0
018	235	6.7	21.1	+-	.6 ; 3.2	18.3	+-	.7 ; 4.2
019	235	6.7	20.0	+-	.6 ; 3.1	18.0	+-	.7 ; 4.2
020	235	6.7	20.2	+-	.6 ; 3.0	17.4	+-	.7 ; 4.1
TRANSIT DOSE =			2.8	+-	.3 ; 2.8			

TLD DIRECT RADIATION ENVIRONMENTAL MONITORING

AZIMUTH (deg.)	NET AVER. EXPOSURE RATE (mR/Std.Qtr.) +-Std.Dev.	# IN GROUP
348.75-11.25 (N)	18.7 +- 1.2	3
11.25-33.75 (NNE)	NO DATA+-NO DATA	0
33.75-56.25 (NE)	17.8 +- 0.9	1
56.25-78.75 (ENE)	22.2 +- 2.6	2
78.75-101.25 (E)	16.2 +- 0.0	1
101.25-123.75 (ESE)	19.3 +- 2.5	2
123.75-146.25 (SE)	14.2 +- 0.0	1
146.25-168.75 (SSE)	16.4 +- 0.0	1
168.75-191.25 (S)	NO DATA+-NO DATA	0
191.25-213.75 (SSW)	20.1 +- 0.0	1
213.75-236.25 (SW)	17.7 +- .6	2
236.25-258.75 (WSW)	NO DATA+-NO DATA	0
258.75-281.25 (W)	15.9 +- 0.0	1
281.25-303.75 (WNW)	NO DATA+-NO DATA	0
303.75-326.25 (NW)	18.1 +- 0.0	1
326.25-348.75 (NNW)	18.7 +- 0.0	1

DISTANCE(mi) FROM THE REACTOR	NET AVER. EXPOSURE RATE (mR/Std.Qtr.) +-Std.Dev.	# IN GROUP
0-2	20.0 +- 2.0	8
2-5	16.5 +- 1.3	7
>5	17.7 +- 1.0	2
UPWIND CONTROL DATA	17.8 +- .4	3