

RTI Inc.

108 LAKE DENMARK ROAD, ROCKAWAY, NJ 07866
(201) 625-8400 • FAX (201) 625-7820

June 14, 1989

Docket No. 030-07022
License No. 29-20900-01

Ms. Marlene Taylor
Health Physicist
Nuclear Material Safety Section C
United States Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, Pennsylvania 19406

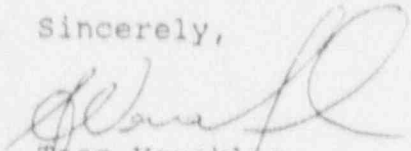
Dear Ms. Taylor:

Enclosed please find a copy of the radiological survey which was performed at our South Jersey Process Technology facility in Salem, New Jersey on May 12, 1989.

RTI Inc. is currently negotiating the sale of this facility. It is our intent to maintain the license at this facility until such time as the sale is finalized.

In a telephone conversation between you and Paul Shapiro, Vice President of Quality, you agreed that we would send you the enclosed data for your review for completeness and regulatory compliance. You agreed that no action will be taken to terminate the license until RTI submits a formal request on form NRC 314. At this time we are requesting your review to assure expedient action if and when required. Please advise us of the results of your review.

Sincerely,



Tass Varaklis
Vice President Operations and Engineering

TV:jk
Enclosure

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PDR FOIA
JONES90-334 PDR

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Director, Division of Fuel Cycle And Material Safety
Office of Nuclear Material Safety and Safeguards
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

On May 12, 1989 a radiological survey was conducted at the South Jersey Process Technology facility. All licensed material from this facility was transferred to North Jersey Process Technology in May, 1988. The results of the survey are attached for review.

All radiation level readings were taken with a Ludlum Model 19 Micro R Meter Serial # 47108 Calibrated on 4-3-89.

Swipes and water samples were analyzed using a Ludlum Model 2200 Scaler Ratemeter Serial # 34446. This instrument was calibrated using RTI procedure 10.103. The calibration results are as follows:

Swipes: (2 minute counts)

Co-60 detection efficiency: 0.40 counts/disintegration

MDA (Minimum Detectable Activity): 85.1 pCi/ 100 cm²

Water samples: (20 minute counts - 100 ml samples)

Co-60 detection efficiency: 0.17 counts/disintegration

MDA (Minimum Detectable Activity): 0.61 pCi/ml

Swipes of the Cell pool, R&D pool, and Source Rack were taken with underwater tools using foam rubber as swipe material.

All results are attached. The survey indicates that no measureable contamination exists at the SJPTI site. In addition, all radiation dose readings are well below those required for a nonrestricted area (see attached drawing).

RTI INC.
and
PROCESS TECHNOLOGY SUBSIDIARIES
SAMPLE ACTIVITY

/16/89

type of samples: Liquid/Sludge
background counting time: 20 minutes.
background cpm: 494.6
error in background count: 4.972927

Reference: J359 pp 3 to 7

test source activity: 152595.2 dpm.
counting time for test source: 20 minutes
gross counts for test source: 529092
net cpm for test source: 25960

sample counting time: 20 minutes.
sample volume: 100 ml.
efficiency: .1701234
DA: .6138573 pCi per ml.

LABEL	GROSS COUNTS	NET COUNTS	ACTIVITY - pCi per ml.	
CELL # 1	10057	165	.2184425	+ - .186988
R&D POOL	9981	89	.1178265	+ - .1866314
DI TANK	9709	-183	0	+ - .1853498
DI SYSTEM	9659	-233	0	+ - .1851133

= Samples exceeding MDA: Require RSO review

Samples counted By: John D. Schlicht Date: 5-16-89

SO Review: [Signature] Date: 6/13/89

RTI INC.
and
PROCESS TECHNOLOGY SUBSIDIARIES
SAMPLE ACTIVITY

5/16/89

Type of samples: Swipes
Background counting time: 2 minutes.
Background cpm: 520.5
Error in background count: ±.13227

Reference: J359 pp 3 to 7

Test source activity: 23184.98 dpm.
Counting time for test source: 2 minutes
Gross counts for test source: 19491
Net cpm for test source: 9225

Sample counting time: 2 minutes.
Efficiency: .3978869
IDA: 85.14418 pCi/100 sq. cm.

LABEL	GROSS COUNTS	NET COUNTS	ACTIVITY - pCi/100 sq. cm.
1	1010	-31	0 ± 25.63541
2	987	-54	0 ± 25.49126
3	949	-92	0 ± 25.25131
4	999	-42	0 ± 25.56657
5	968	-73	0 ± 25.37157
6	958	-83	0 ± 25.30835
7	1041	0	0 ± 25.82841
8	958	-83	0 ± 25.30835
9	1022	-19	0 ± 25.71029
10	987	-54	0 ± 25.49126
11	1021	-20	0 ± 25.70406
12	1009	-32	0 ± 25.62916
13	1041	0	0 ± 25.82841
14	996	-45	0 ± 25.54776
15	928	-113	0 ± 25.11772
16	970	-71	0 ± 25.38419
17	957	-84	0 ± 25.30201
18	988	-53	0 ± 25.49755
19	937	-104	0 ± 25.17506
20	937	-104	0 ± 25.17506
21	968	-73	0 ± 25.37157
22	1004	-37	0 ± 25.59788
23	1027	-14	0 ± 25.74143
24	1014	-27	0 ± 25.66039
25	901	-140	0 ± 24.94491
26	929	-112	0 ± 25.1241
27	939	-102	0 ± 25.18779
28	999	-42	0 ± 25.56657

SAMPLE ACTIVITY

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5/16/89

Reference: J359 pp 3 to 7

29	954	-87	0	++	25.28301
30	981	-60	0	++	25.45353
31 31	1015	-26	0	++	25.66663
32	959	-82	0	++	25.31468
33	963	-78	0	++	25.33998
34	954	-87	0	++	25.28301
35	1004	-37	0	++	25.59788
36	967	-74	0	++	25.46825
37	1008	-33	0	++	25.62229
38	1006	-35	0	++	25.62104
39	945	-96	0	++	25.22392
40	1044	3	1.69816	++	25.24701
41	977	-64	0	++	25.42834
42	972	-69	0	++	25.39882
43	933	-100	0	++	25.16233
44	1014	-27	0	++	25.66039
45	962	-79	0	++	25.33365
46	987	-54	0	++	25.49126
47	979	-62	0	++	25.44093
48	969	-72	0	++	25.37788
49	1023	-18	0	++	25.71652
50	988	-53	0	++	25.49755
51	984	-57	0	++	25.47224
52	987	-54	0	++	25.49126
53	985	-56	0	++	25.47869
54	1021	-20	0	++	25.70406
55	924	-117	0	++	25.09219
56	958	-83	0	++	25.30835
57	1026	-15	0	++	25.73332
58	955	-86	0	++	25.28835
59	946	-95	0	++	25.23227
60	994	-47	0	++	25.53322
61	1018	-23	0	++	25.68335
62	969	-72	0	++	25.37788
63	984	-57	0	++	25.47224
64	971	-70	0	++	25.39051
65	969	-72	0	++	25.37788
66	1014	-27	0	++	25.66039
67	945	-96	0	++	25.22392
68	947	-94	0	++	25.23862
69	939	-102	0	++	25.18779
70	1015	-26	0	++	25.66663
71	965	-76	0	++	25.35262
72	992	-49	0	++	25.56267
73	1015	-26	0	++	25.66663
74	1027	-14	0	++	25.74143
75	912	-129	0	++	25.01346
76	1001	-40	0	++	25.5791

SAMPLE ACTIVITY

Page: 2

5/16/89

Reference: J359 pp 3 to 7

77	995	-46	0	++	25.54149
78	940	-101	0	++	25.19414
79	1043	2	1.132107	++	25.84082
80	948	-93	0	++	25.24496
81	994	-47	0	++	25.53522
82	968	-73	0	++	25.37257
83	985	-56	0	++	25.47869
84	982	-59	0	++	25.45802
85	1005	-26	0	++	25.60414
86	970	-71	0	++	25.38419
87	992	-49	0	++	25.52267
88	942	-99	0	++	25.20686
89	988	-53	0	++	25.49735
90	999	-42	0	++	25.56637
91	993	-48	0	++	25.52894
92	1007	-34	0	++	25.61665
93	981	-60	0	++	25.45333
94	1026	-15	0	++	25.7232
95	1022	-19	0	++	25.71029
96 Cell Pool Floor	1157	116	65.66219	++	26.53818
R&D Pool Floor	944	-97	0	++	25.21637
Source Rack	1026	-15	0	++	25.7232
Swipe Tool	996	-45	0	++	25.54776

= Samples exceeding MDA: Require RSO review

amples counted By: John D. Schubert Date: 5-16-89

SO Review: [Signature] Date: 6/13/89

Radiation Technology, Inc.

P.O. BOX 185
108 LAKE DENMARK ROAD
ROCKAWAY, NEW JERSEY 07866-4399
ADDRESS CORRECTION REQUESTED

CERTIFIED

P 078 732 131

MAIL

Ms. Marlene Taylor
Health Physicist
Nuclear Material Safety Section C
United States Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, PA 19406

10/2/85
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10/2/85

CONVERSATION RECORD

TIME

DATE

6-14-89

TYPE

VISIT

CONFERENCE

TELEPHONE

INCOMING
 OUTGOING

ROUTING

NAME/SYMBOL INT

Location of Visit/Conference: 110673 mail central

NAME OF PERSON(S) CONTACTED OR IN CONTACT WITH YOU

John Kussen

ORGANIZATION (Office, dept, bureau, etc.)

Process Technology

TELEPHONE NO.

201 - 625 8400

SUBJECT

def. in amendment request

SUMMARY

① NRC does not recognize more than R50 also do not recognize assistant R50 on the license.

② Schlect & Shapiro's training do not qualify him to be R50's. Need 3 months (full time equivalent) operational training

9th John not sure will return the call

9th John Kussen informed of the 2 deficiencies. He stated that he would inform management, and they would probably withdraw the request. John stated that he was not aware that a similar request was submitted last year and denied for the same

ACTION REQUIRED

wait for response

NAME OF PERSON DICTATING CONVERSATION

SIGNATURE

DATE

Madeline Taylor

6-14-89

ACTION TAKEN

B/26

SIGNATURE

TITLE

DATE

OFFICIAL RECORD COPY M110

110673

reason. John also asked if they asked to change their procedure for starting up to change the cell key switch to a toggle switch whether that would be approved. Jim stated that it was discussed in the meeting they are having problems with the cell key switch. He said that the plastic can inside is damaged about every 2 months because it is in the radiation field. He said that as we discussed in the meeting he is trying to find an alternative to the cell key switch. He said that he was looking for all metal key switch, but was not found one either. He said that management mentioned putting a lead box around the switch but he doesn't think that is a good idea because of the weight of the lead. John stated that he would support all other possible less before he permitted the amendment request to replace the cell key switch. Informed John that he should address all safety concerns, such as someone in the cell flipping the toggle switch at the same time someone is at the console raising the source, when he makes his request and that there are no guarantees that it would be approved. Informed him that our management was very concerned about this after the last inspection.