

RTI Inc.

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

May 1, 1989

License No. 29-13613-02
Docket No. 030-07022
~~Control No. 110027~~

U.S. Nuclear Regulatory Commission
Region I
ATTN: Chief, Nuclear Materials Safety Branch
475 Allendale Road
King of Prussia, Pennsylvania 19406

Gentlemen:

Enclosed please find the information regarding the Rockaway, NJ (Process Technology of North Jersey) site characterization requested at our meeting of March 29, 1989 to comply with license condition 24. The characterization includes drawing No. PH-46.

Cesium-137

Cs-137 was detected in very small quantities. The highest reading in the soil was 0.66 pCi/g detected at one spot North of the fence. Cs-137 was detected in resin material collected during the 1987 cleanup. This contamination was most likely introduced through the use of a GE model 1500 shipping cask. We have experienced low-level Cs-137 and Co-60 contamination of our resin beds immediately after using one of the above mentioned casks. These casks are used for operations other than handling of Co-60 sealed sources and are thus contaminated when the company rents them from General Electric.

Over 60 soil samples were analyzed by North Carolina State University during 1987. Considering that the highest Cs-137 contamination level detected in the soil was 0.66 pCi/g, all soil samples analyzed by RTI are therefore assumed to be Co-60 contaminated exclusively.

Analyzing Equipment

A Ludlum Model 2200 Scaler Ratemeter SN 47157 is used to analyze the Co-60 activity in the soil samples. This instrument is calibrated using RTI procedure 10.103. The test source used is a Dupont Co-60 test source serial no. NES9023 with a density of 1.14 g/cc and a volume of 100 cc. The soil samples are collected in 100 cc test bottles of the same dimensions as the test source. The soil samples are weighed on an Ohaus Cent-O-Gram model 311 Balance. The scale is calibrated utilizing Class "S" weights.

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May 2, 1989

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Chief, Nuclear Materials Safety Branch

Site Proposal

RTI proposes to take the following action regarding the soil contamination now present on the Process Technology of North Jersey site:

Area North of Fence (Dwg. No. PH-46)

As the existing level of contamination poses little or no threat to the public, it is proposed that a permanent fence be installed around the entire area as shown on Drawing No. PH-46. The area will be posted as a "Contaminated Area". Annual samples of adjacent areas outside the fence will be taken at the surface and at a depth of 24" to ensure that the contamination is not spreading.

Area Adjacent to Mechanical Room/ Cell (Sketch 1)

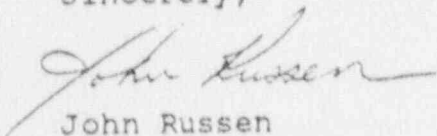
It is proposed that this low level contamination be left in place. This contamination poses little or no threat to the public. A permanent fence will be installed around the entire area as shown on Drawing No. PH-46. The area will be posted as a "Contaminated Area". Annual samples of adjacent areas outside the fence will be taken at the surface and at a depth of 24" to ensure that the contamination is not spreading.

Area by Northeast corner of Fencing

It is proposed that this low level contamination be left in place. This contamination poses little or no threat to the public. A permanent fence will be installed around the entire area as shown on Drawing No. PH-46. The area will be posted as a "Contaminated Area." Annual samples of adjacent areas outside the fence will be taken at the surface and at a depth of 24" to ensure that the contamination is not spreading.

If you have any further questions or concerns, please contact me. Thank you.

Sincerely,



John Russen
Plant Manager &
Radiation Safety Officer

JR:jk

cc: John Scandalios
RSO File

SKETCH I AREA I

JDS 04/28/89

BUILDING 61

All readings taken at surface except: * - 30" # - 26"

All readings in pCi/gram

All readings as of March 1, 1989

Building 61

34	2*	22	1*	33	53	2#	25	26	24			17	0	I
30	27	40	1#		34	35	35	30	3#					H
		90												G
														F
												19		E
											10			D
40	10								8					C
														B
1												1	31	A
15	14	13	12	11	10	9	8	7	6	5	4	3	2	1

