

RTI Inc.

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December 14, 1988

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

Gentlemen:

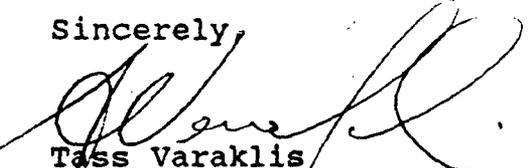
Enclosed please find the results of the radiological survey performed at RTI, Inc.'s Rockaway, NJ (NJPTI) facility. As per license No. 29-13613-02 condition No. 24, all areas with contamination levels greater than 8 pCi per gram or radiation levels in excess of 10 urems per hour above background at one meter, have been identified. During the survey it was determined that the 8 pCi per gram limit indicated much less contamination than the 10 urem per hour above background at one meter limit. It has been concluded, therefore, that the 8 picocurie per gram limit is the limiting factor for the soil contamination at the Rockaway facility.

The enclosed maps indicate the contamination levels found at the Rockaway facility. All readings are in pCi/g, except as indicated. Soil samples were taken and weighed and subsequently analyzed on NJPTI's Ludlum Model 2200 Scaler Ratemeter. Soil samples sent to North Carolina State University in 1987 indicated that all soil contamination was due to Co-60. The highest reading for any other radionuclide was 1.8 pCi per gram of Cs-137. Over 80 samples were analyzed by North Carolina State University during 1987. It was therefore determined that all soil samples could be analyzed "in house" for Co-60 contamination exclusively.

Enclosed also please find a full description of all radioactive materials authorized by items 7.E, 7.F, 7.G and 7.H of license number 29-13613-02. It is RTI's intent to dispose of these items in Barnwell, S.C. during the calendar year 1989.

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

Sincerely,



Tass Varaklis
V.P. Operations and Engineering

cc: RSO File
A.K. Booth

B/28

Soil Contamination Characterization

RTI, Inc. Rockaway, NJ (NJPTI)

Enclosed:

- Page 1 - Soil Contamination in creek bed
- Page 2 - Soil Contamination outside cell/mech room
- Page 3 - Radioactive Materials Authorized by Items 7E,
7F, 7G, and 7H

Minimum Detectable Activity (MDA) = 0.8 pCi per gram

Reference: J-331 pages 41,43,45,47,49,50,57,58,59

Submitted By:

John D. Schlecht
John D. Schlecht

Date:

12-13-88

The following radioactive items are authorized by items 7E, 7F, 7G, and 7H of license 29-13613-02 and are presently stored in a restricted area at RTI's Rockaway, NJ (NJPTI) facility:

- 1) 2 Drums contaminated soil and concrete. Maximum calculated activity = 3000 pCi/g Co-60. Worst case: each drum contains 2 mCi of Co-60.
- 2) 3 Bags of contaminated Cation resins. Approximate total activity: 43 uCi Co-60, 35 uCi Cs-137.
- 3) Contaminated charcoal. Approximately 1200 pCi/g Co-60. Worst case: total activity = 4 mCi.
- 4) Tritium contamination on ion pump - 13 Curies.
- 5) Gemstones containing Scandium-46 - 22 uCi.
- 6) Rocks containing Cs-134 - 50 uCi.

RTI intends to dispose of these items in Barnwell, S.C. during the calendar year 1989.