

MATERIALS LICENSE

Amendment No. 37

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 36, 39, 40, and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations, and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

OFFICIAL RECORD COPY

Licensee

1. RTI, Incorporated
Process Technology of North Jersey Facility

2. 108 Lake Denmark Road
Rockaway, New Jersey 07866

In accordance with letter dated
May 23, 1996

3. License Number 29-13613-02 is amended in
its entirety to read as follows:

4. Expiration Date April 30, 2000

5. Docket or
Reference No. 030-07022

6. Byproduct, Source, and/or
Special Nuclear Material

7. Chemical and/or Physical
Form

8. Maximum Amount that Licensee
May Possess at Any One Time
Under This License

A. Cobalt 60

A. Contamination in any
form

A. 10 millicuries

9. Authorized use

A. For storage only.

CONDITIONS

10. Licensed material may be stored only at the licensee's facility at 108 Lake Denmark Road, Rockaway, New Jersey.
11. A. Licensed material shall be used by, or under the supervision of John Schlecht.
B. The Radiation Safety Officer for this license is John Schlecht.
12. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material".
13. A. The licensee shall not transfer or otherwise release for unrestricted use Areas A, B, C and D described in the licensee's letter dated August 30, 1990, without prior written authorization of the Commission.
B. The licensee shall notify U.S. Nuclear Regulatory Commission, Region I, ATTN: Chief, Nuclear Materials Safety Branch, 475 Allendale Road, King of Prussia, Pennsylvania 19406 immediately, when soil contamination not previously identified is found to exceed the following thresholds:
- (i) 8 picocuries per gram, or
 - (ii) radiation levels one meter above the ground, due to soil contamination, exceed background radiation levels by greater than 10 microrems per hour.

**MATERIALS LICENSE
SUPPLEMENTARY SHEET**

License Number

29-13613-02

Docket or Reference Number

030-07022

Amendment No. 37

(13. Continued)

- C. The licensee shall notify U.S. Nuclear Regulatory Commission, Region I, ATTN: Chief, Nuclear Materials Safety Branch, 475 Allendale Road, King of Prussia, Pennsylvania 19406 immediately, when any object or artifact contaminated in excess of background radiation levels is uncovered or identified.
14. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. The Nuclear Regulatory Commission's regulations shall govern unless the statements, representations and procedures in the licensee's application and correspondence are more restrictive than the regulations.
- A. Letter dated August 30, 1990
 - B. Application dated January 15, 1993
 - C. Letter dated June 25, 1993
 - D. Letter dated December 19, 1994
 - E. Letter dated May 23, 1996

Date AUG - 7 1996

For the U.S. Nuclear Regulatory Commission

Original Signed By:
Duncan White

By

Nuclear Materials Safety Branch
Region I
King of Prussia, Pennsylvania 19406

AUG - 7 1996

Theo Muller
CEO
RTI, Inc.
108 Lake Denmark Road
Rockaway, New Jersey 07866

Dear Mr. Muller:

This refers to your license amendment request. Enclosed with this letter is the amended license.

Please review the enclosed document carefully and be sure that you understand and fully implement all the conditions incorporated into the amended license. If there are any errors or questions, please notify the U.S. Nuclear Regulatory Commission, Region I Office, Licensing Assistance Team, (610) 337-5093 or 5239, so that we can provide appropriate corrections and answers.

Thank you for your cooperation.

Sincerely,

ORIGINAL SIGNED BY:

Duncan White
Division of Nuclear Materials Safety

License No. 29-13613-02
Docket No. 030-07022
Control No. 123267

Enclosure:
Amendment No. 37

DOCUMENT NAME: R:\WPS\MLTR\L2913613.02

To receive a copy of this document, indicate in the box: "C" = Copy w/o attach/encl "E" = Copy w/ attach/encl "N" = No copy

OFFICE	DNMS/RI	N	DNMS/RI				
NAME	DWhite						
DATE	07/18/96	07/	/96	07/	/96	07/	/96

OFFICIAL RECORD COPY **ML 10**

TELEPHONE CONVERSATION RECORD		Date: 7/17/96	Time: 3:00 pm
Mail Control No.: 123209, 123210, 123267		Licenses : 29-13613-02 29-20900-01 new license	Docket No.: 030-07022 030-22307 030-34162
Person Called: John Schlecht Director of Operations		Organization: RTI, Inc.	Telephone Number: (201) 625-8400
Person Calling: Duncan White			
Subject: Merger of RTI and SteriGenics			
<p>Summary: Stockholder meeting is scheduled for August 6, 1996 to vote on SteriGenics purchase/merger with RTI. Once approved by the stockholders, the contract between the company calls for the transfer to take place three business days later (August 9, 1996). Mr. Schlecht indicated that the stockholders will approve the merger. Mr. Schlecht agreed to contact the NRC regarding the outcome of the August 6th stockholders meeting.</p>			
Action Required/Taken: MS 21 on all three actions, prepare licenses for issuance between August 6 and 9, 1996			
Signature: Duncan White <i>D. White</i>		Date: July 18, 1996	



108 Lake Denmark Road • Rockaway, NJ 07866
(201) 625-8400 • FAX: (201) 625-7820

May 23, 1996

Docket No. 030-07022
License No. 29-13613-02
Control No. 114377

Mr. Anthony Dimitriadis
Health Physicist
Decommissioning and Laboratory Branch
USNRC
Region I
475 Allendale Rd
King of Prussia, PA 19406-1415

Dear Mr. Dimitriadis:

This letter is in response to your letter of February 26, 1996. RTI Inc. has completed core sampling and Gamma logging of the previously contaminated areas on the Rockaway property. These areas were remediated by various activities performed between 1987 and 1991. Information regarding these prior remediation activities were previously submitted to the NRC Region I for review.

Enclosed please find a report from Vectre Corporation summarizing the results of the core samples and Gamma logging of the four areas of concern on the Rockaway property. All results indicate that the property is suitable for release to unrestricted use. The highest measured Co-60 concentration was 3.4 pCi/g, which is well below the established criteria of 8.0 pCi/g.

RTI Inc. requests that License No. 29-13613-02 be amended to remove item 6E. A copy of our License amendment is enclosed for your review.

If you need any further information please call me at (201) 625-8400.

Sincerely,

A handwritten signature in black ink, appearing to read 'John D. Schlecht'.

John D. Schlecht
Director of Operations

cc: Theo Muller
Duncan White

OFFICIAL RECORD COPY ML 10

123267

5/24/96

**Post-Remedial Action Sampling Report
Cobalt-60 Radiation Measurement**

**RTI
108 Lake Denmark Road
Rockaway, Morris County, New Jersey**

Prepared for:

**RTI, Inc.
108 Lake Denmark Road
Rockaway, New Jersey 07866**

Prepared by:

**Vectre Corporation
P. O. Box 930
Lafayette, New Jersey 07848-0930**

May 1996



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1.0 INTRODUCTION

1.1 Site Description

RTI, INC. (RTI) owns a tract occupying 263 acres in Rockaway, Morris County, New Jersey. The tract is zoned for commercial and residential land use. Figure 1-1 is the Site Location Map. The property is subdivided into three tracts based on land use. The property is shown as occupying Block 30101, Lot 252, Sub Lot 2 and Block 30102, Lot 240, Sub Lot 3 on the Township of Rockaway Tax Maps. Figure 1-2 is the Plat Plan showing the configurations of the subdivisions. The subdivision located in the north central sector of the Plat Plan encompasses 15 acres. The current production facility is located on this subdivision. The subdivision located in the central sector of the Plat Plan encompasses 65 acres. This subdivision is known as Rockaway Industrial Park (RIP). The third subdivision encompasses 183 acres. This subdivision consists of undeveloped land.

1.2 Site History

Prior to 1941, the site was owned by Singer Manufacturing Company. From 1941 to 1962, the site was developed and operated by Reaction Motors, Inc. From 1963 to 1972, Reaction Motors Division of Thiokol Chemical Corporation conducted research and development activities on the site. Reaction Motors/Thiokol tested and developed rocket engines and propellants. RTI purchased the property in 1972. Production activities consist of the low-level irradiation of cosmetics and medical products.

1.3 Purpose

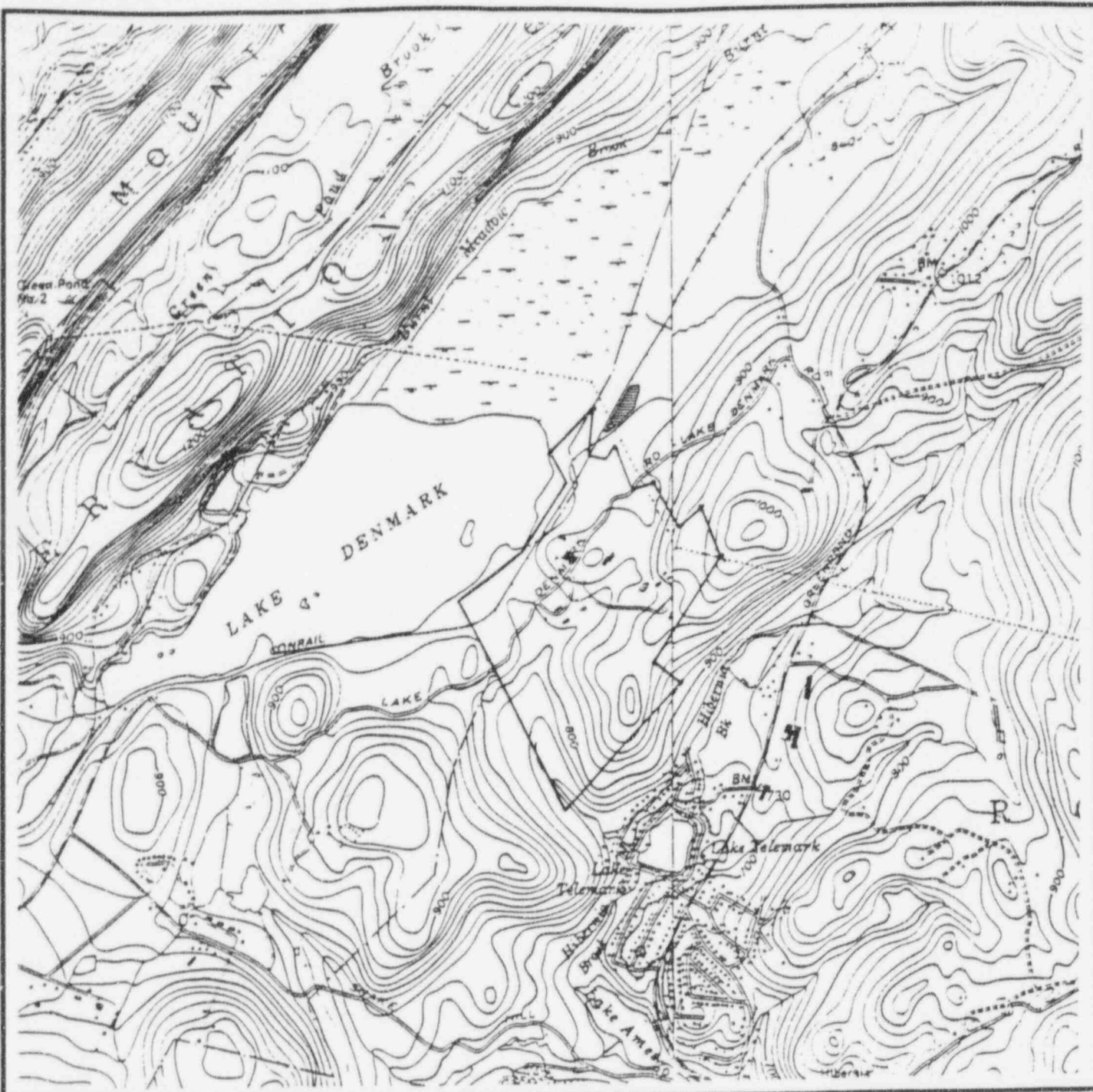
In 1990, low-level radioactive materials were removed from four small areas on the RTI property. The United States Nuclear Regulatory Commission (NRC) in a letter dated February 26, 1996 (Appendix A) requested that RTI verify that any concentrations of Cobalt-60 remaining in the four areas are below regulatory limits. Figure 1-3 locates the four areas that are the subject of this investigation.

The results of this investigation demonstrated that the concentrations of Cobalt-60 at all four locations is below regulatory limits; therefore, no further remedial action should be required for these areas.

1.4 Organization

Section 2 presents the Scope of Work. Section 3 presents the results of the investigation. The conclusions are presented in Section 4.





SOURCE: U.S.G.S. Dover and Boonton, N.J.
7.5 Minute Quadrangle

0 1000 2000
SCALE IN FEET



Site Location Map

RTI, Inc.

Rockaway

New Jersey

Scale as Shown

FIGURE
NUMBER

1-1

PROJECT
NUMBER

RTI-V6



VECTRETM
Corporation

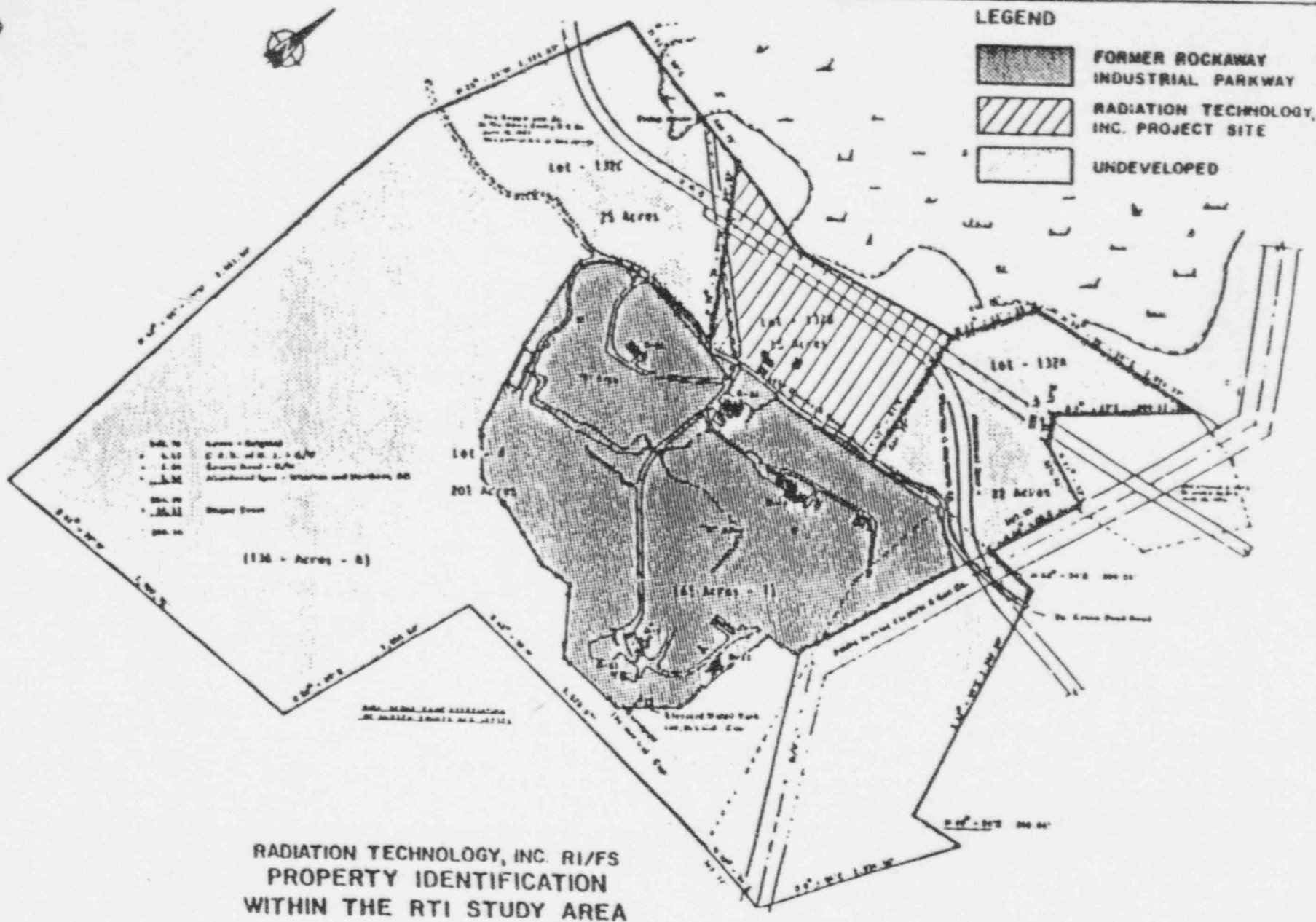
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VECTRE
Corporation

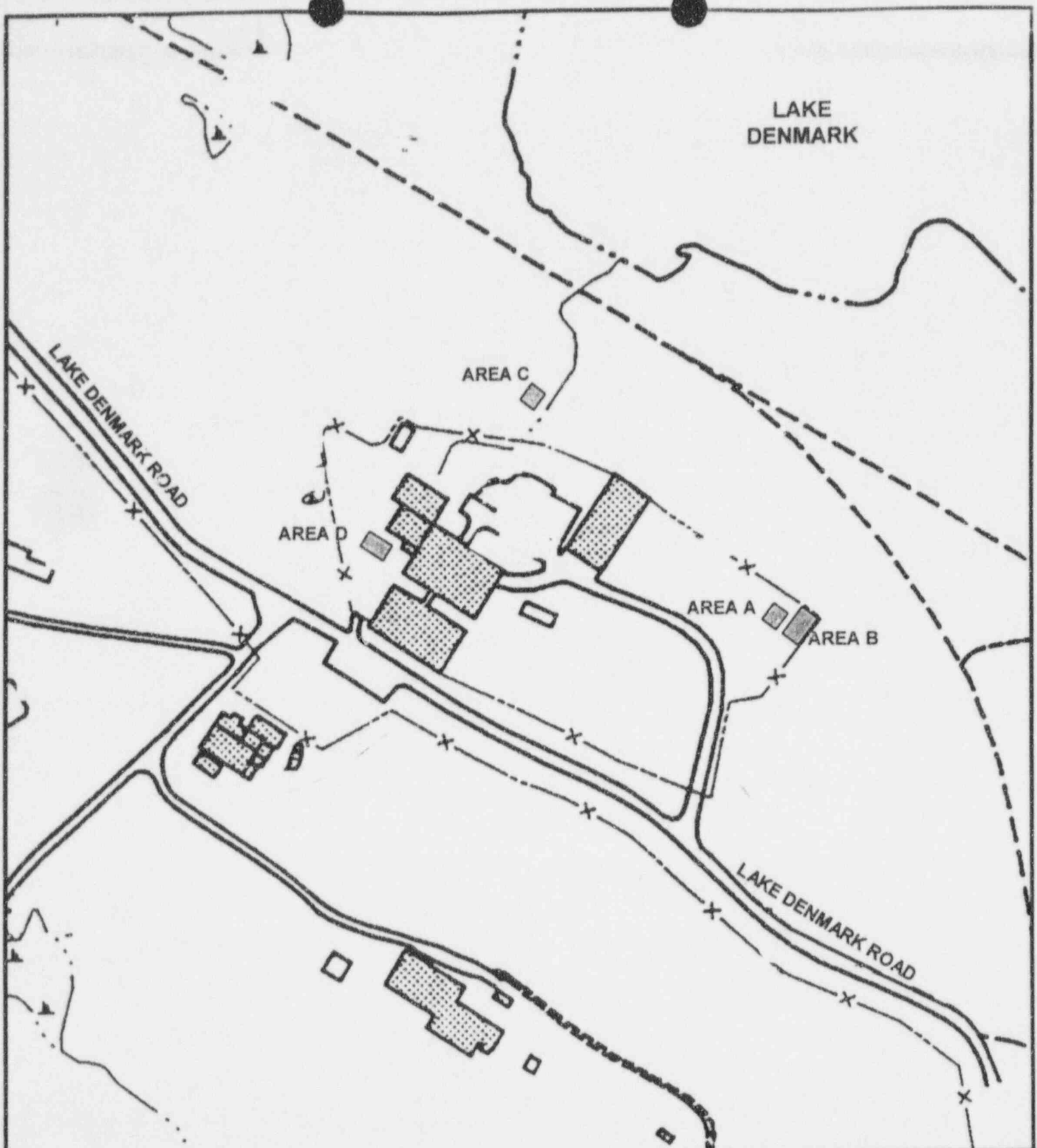
(Original map by Acres, modified by Vectre June 1995)


Figure 1-2




RADIATION TECHNOLOGY, INC. RI/FS
PROPERTY IDENTIFICATION
WITHIN THE RTI STUDY AREA

SOURCE: RTI DRAWING NO. 101, DATE UNKNOWN



LEGEND	
	Former Cobalt-60 Area

0 200
scale in feet

COBALT-60 AREAS LOCATION MAP			
RTI, INC.			
ROCKAWAY		NEW JERSEY	
SCALE AS SHOWN		 VECTRE TM Corporation	
FIGURE NUMBER	PROJECT NUMBER		
1-3	RTI-V6		

(Original map by Acres, modified by Vectre June 1995)

2.0 SITE CONDITIONS

The NRC letter of February 26, 1996 states that the concentrations of cobalt-60 remaining in the four areas on the RTI property be investigated by collecting a one discrete soil sample at each location from an eight-foot-deep borehole where field screening procedures indicate that the highest concentrations of cobalt-60 are present. Each of the four samples was to be analyzed for cobalt-60. Additionally, the NRC stated that the open borehole be logged for natural gamma radiation.

2.1 Soil-Boring Investigation

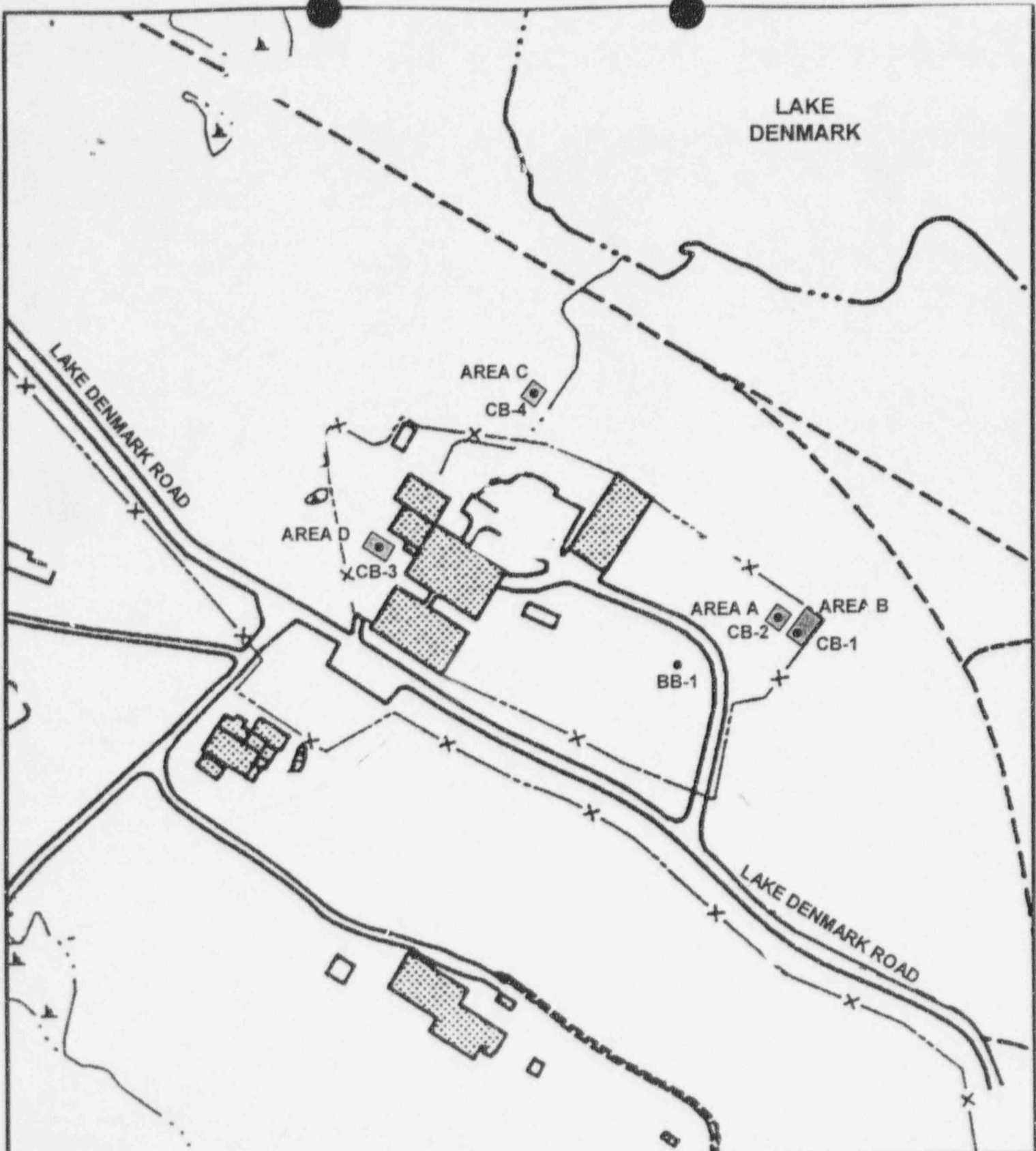
On April 24, 1996, Vectre Corporation, on behalf of RTI, conducted a soil boring investigation in the four areas (Areas A, B, C and D) shown on Figure 1-3. Mr. John Schlecht (Director of Operations, RTI) and Mr. Anthony Dimitriadis of the Region I NRC office were present during the soil-boring investigation.

Figure 2-1 locates the five soil borings that were drilled. Soil boring BB-1 was drilled in an area known to contain natural soils to provide background radiation concentrations data. Soil boring CB-2, CB-1, CB-3 and CB-4 were drilled in Areas A, B, C and D, respectively.


A Kendrick Drilling Company driller used a truck-mounted CME-55 auger drilling rig to advance boreholes BB-1, CB-1, CB-2, and CB-3 to a depth of eight feet below ground surface. A tripod mounted drive head was used to collect a soil sample at the CB-4 location, because this location was not accessible by a truck-mounted drilling rig.

A soil sample was collected from each two-foot interval at each soil boring location using a split-spoon sampler. The driller used a 140-pound drive hammer dropped 30 inches to advance the split-spoon sampler through the soil profile. The sampler was retrieved after each two-foot interval, opened and presented to the Vectre geologist. The geologist logged the sample and it was screened with a Ludlum Model 19 μ r meter provided by RTI to measure the radiation levels. The boring logs are presented in Appendix B. The borehole logs show that the site is underlain by yellowish-brown gravel and sand with some silt. Table 2-1 summarizes the borehole data.





LEGEND	
BB-1	Soil Boring Location
[Shaded Box]	Former Cobalt-60 Area

BORING LOCATION MAP	
RTI, INC.	
ROCKAWAY	NEW JERSEY
SCALE AS SHOWN	
FIGURE NUMBER	PROJECT NUMBER
2-1	RTI-V6
 VECTRE Corporation	
123267	

(Original map by Acres, modified by Vectre June 1995)

TABLE 2-1. BOREHOLE DATA
RTI

Borehole Number	Depth to Water (feet)	Sample Interval (feet)	Radiation Level (μ rems/hr)
BB-1	2.5	0 to 2	7
CB-1	2.5	0 to 2	9
CB-2	3.5	0 to 2	10
CB-3	2.0	0 to 2	18
CB-4	2.5	0 to 2	10

The table shows that ground water ranged in depth from two to three and one-half feet below ground surface. Accordingly, the sample collected from zero to two feet below ground surface was analyzed for cobalt-60. Composite samples were collected by Mr. Dimitriadis from the full length of the borehole for analysis by the NRC's laboratory.

2.2 Natural Gamma Logging

On April 25, 1996, a Vectre Corporation geologist used a Geonics EM-39 portable logging machine to log the boreholes down to the water table. Prior to initiating the logging program, calibration procedures were implemented as specified in the Geonics User's Manual. Due to the shallow depth of the water table, the probe was lowered into the borehole manually and slowly removed at six-inch increments over a time interval of 30 seconds. The highest reading for each six-inch increment was recorded. The results are presented in Section 3.



3.0 REPORTING DETAILS

The analytical results for the soil samples and the gamma logging events are reported below.

3.1 Soil Analytical

The soil samples were analyzed by Teledyne Brown Engineering Environmental Services for cobalt-60 by on May 7, 1996. The full laboratory report including the chain-of-custody document is presented in Appendix C. Table 3-1 summarizes the results. The table shows that the background sample BB-1/S1 contained no concentrations of cobalt 60 above the detection limit of 0.06 picocuries/gram. At the other four locations the concentrations of cobalt 60 in the soil samples ranged from a low of 1.4 picocuries/gr at CB-1/S1 to a high of 3.4 picocuries/gr at CB-2/S1. All of the concentrations reported are well below the regulatory standard of 8 picocuries/gr set by the NRC for soils on the RTI property.

TABLE 3-1. ANALYTICAL RESULTS FOR COBALT 60, picocuries/gr
April 25, 1996
RTI

Sample Location/Number	Sample Time	Concentration
BB-1/S1	1000	less than 0.06
CB-1/S1	1203	1.4 \pm 0.1
CB-2/S1	1340	3.4 \pm 0.3
CB-3/S1	1530	2.9 \pm 0.3
CB-4/S1	1707	2.1 \pm 0.2

3.2 Natural Gamma

Tables 3-2 through 3-6 and Figure 3-1 summarize the natural-gamma results. Table 3-2 shows that background natural-gamma readings for BB-1 at the ground surface varied from 200 counts/second to 300 counts/second (cps). Natural-gamma readings below ground surface varied from 350 to 440 cps. These data are also shown on Figure 3-1, a plot of time versus natural gamma.



TABLE 3-2. NATURAL GAMMA AT BB-1, counts/second
(Background: 200 to 300 cps)

Time Interval	Depth Interval (feet)	Natural Gamma
2:57.5 - 2:58	2 - 1.5	400
2:58 - 2:58.5	1.5 - 1.0	440
2:58.5 - 2:59	1.0 - 0.5	420
2:59 - 2:59.5	0.5 - 0	350

Table 3-3 shows that background natural-gamma readings at the ground surface were 180 cps for boring CB-1. Natural-gamma readings below ground surface varied from 180 to 900 cps. The highest reading was obtained from the interval of two- to two and one-half feet below ground surface. These data are also shown on Figure 3-1, a plot of time versus natural gamma. They confirm that some residual concentrations of cobalt 60 remain in the soil in this area, however, the analytical results show that the concentrations are below NRC standards for the RTI property.

TABLE 3-3. NATURAL GAMMA AT CB-1, cps
(Background: 180 cps)

Time Interval	Depth Interval (feet)	Natural Gamma
3:09.5 - 3:10	2.5 - 2.0	900
3:10 - 3:10.5	2.0 - 1.5	540
3:10.5 - 3:11	1.5 - 1.0	360
3:11 - 3:11.5	1.0 - 0.5	240
3:11.5 - 3:12	0.5 - 0	180



FIGURE 3-1. TIME VERSUS NATURAL GAMMA PLOTS

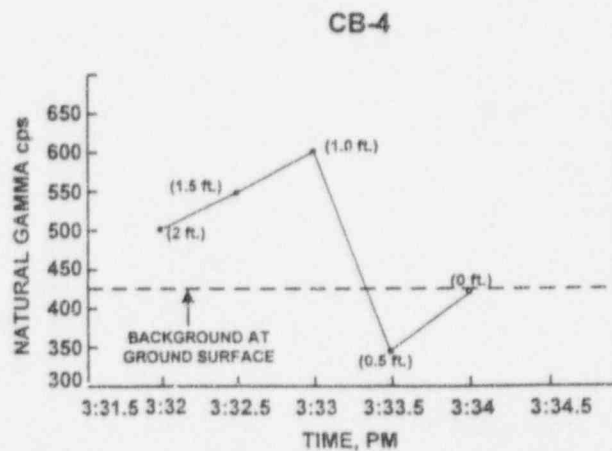
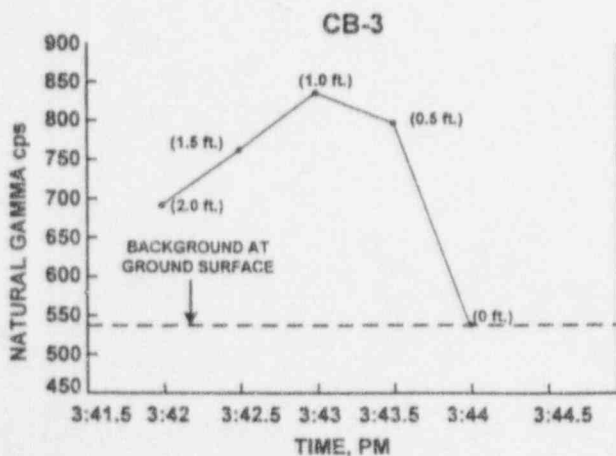
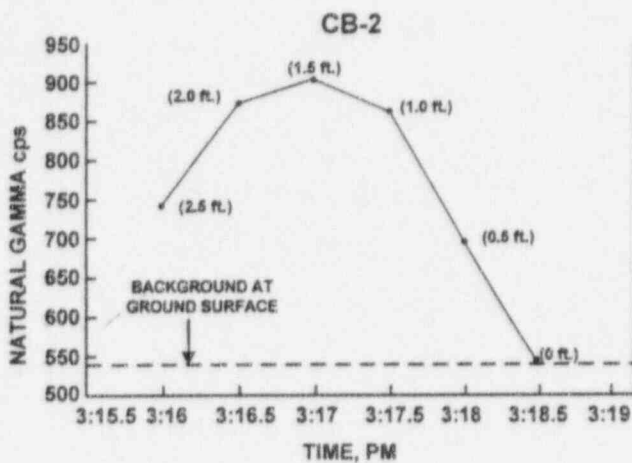
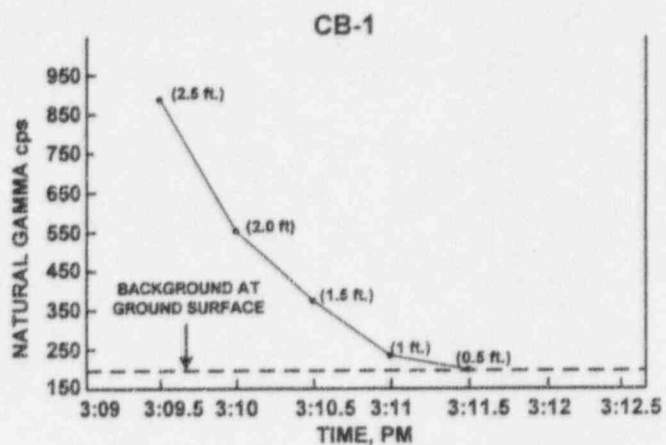
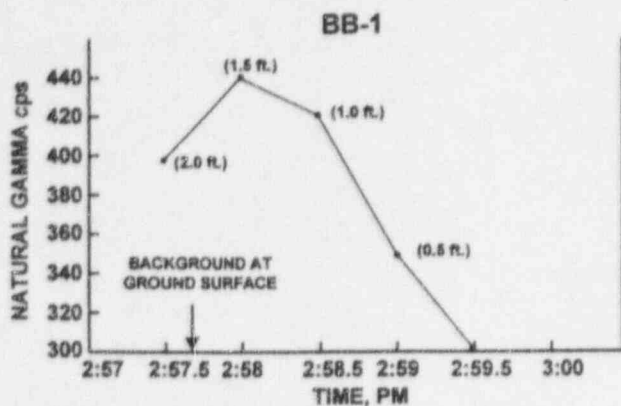


TABLE 3-4. NATURAL GAMMA AT CB-2 cps
(Background: 540 - 700 cps)

Time Interval	Depth Interval (feet)	Natural Gamma
3:16 - 3:16.5	2.5 - 2.0	740
3:16.5 - 3:17	2.0 - 1.5	860
3:17 - 3:17.5	1.5 - 1.0	910
3:17.5 - 3:18	1.0 - 0.5	860
3:18 - 3:18.5	0.5 - 0	690

Table 3-4 shows that background natural-gamma readings at the ground surface varied from 540 cps to 700 cps boring CB-2. Natural-gamma readings below ground surface varied from 690 cps to 910 cps. The highest reading was obtained from the interval of one and one-half feet to one foot below ground surface. This was the highest reading obtained in any of the borings and the analytical result for the soil sample collected from this boring was also the highest. These data are also shown on Figure 3-1, a plot of time versus natural gamma. They confirm that some residual concentrations of cobalt 60 remain in the soil in this area, however, the analytical results show that the concentrations are below NRC standards for the RTI property.

TABLE 3-5. NATURAL GAMMA AT CB-3, cps
(Background: 340 to 540 cps)

Time Interval	Depth Interval (feet)	Natural Gamma
3:42 - 3:42.5	2 - 1.5	690
3:42.5 - 3:43	1.5 - 1.0	760
3:43 - 3:43.5	1.0 - 0.5	840
3:43.5 - 3:44	0.5 - 0	790

Table 3-5 shows that background natural-gamma readings at the ground surface varied from



340 cps to 540 cps for boring CB-3. Natural-gamma readings below ground surface varied from 690 cps to 840 cps. The highest reading was obtained from the interval of one-half foot to one foot below ground surface. These data are also shown on Figure 3-1, a plot of time versus natural gamma. They confirm that some residual concentrations of cobalt 60 remain in the soil in this area, however, the analytical results show that the concentrations are below NRC standards for the RTI property.

TABLE 3-6. NATURAL GAMMA AT CB-4, cps
(Background: 420 to 560 cps)

Time Interval	Depth Interval (feet)	Natural Gamma
3:32 - 3:32.5	2 - 1.5	500
3:32.5 - 3:33	1.5 - 1.0	550
3:33 - 3:33.5	1.0 - 0.5	600
3:33.5 - 3:34	0.5 - 0	340

Table 3-6 shows that background natural-gamma readings at the ground surface varied from 420 cps to 550 cps for boring CB-4. Natural-gamma readings below ground surface varied from 340 cps to 600 cps. The highest reading was obtained from the interval of one-half foot to one foot below ground surface. These data are also shown on Figure 3-1, a plot of time versus natural gamma. They confirm that some residual concentrations of cobalt 60 remain in the soil in this area, however, the analytical results show that the concentrations are below NRC standards for the RTI property. Additionally, the Concentrations of natural gamma in the borehole were very close to that of background in this area.

In summary, the analytical data from the analyses of soil samples collected from borings in the four areas that formerly contained radioactive materials exhibited concentrations of cobalt 60 that are slightly elevated above background but well below the NRC soil cleanup standard (8 picocuries/gram) for the RTI property. Natural-gamma logging results confirmed that concentrations of cobalt 60 in the four areas are above background; however, the recorded natural-gamma readings (180 cps to 910) cps were all within the same order of magnitude as the background readings (200 cps to 300 cps).



4.0 ANALYTICAL RESULTS

The conclusions presented below represent Vectre's current understanding of site conditions and how they related to NRC regulations.

- ◆ Soil samples collected from four areas where materials containing cobalt 60 had been previously stored contained concentrations of cobalt 60 slightly elevated above site background but well below NRC soil cleanup standards for the RTI property.
- ◆ Natural-gamma logging results of the boreholes in the four areas confirmed that these areas contain concentrations of a gamma-ray source (likely cobalt 60) slightly elevated above background but within the same order of magnitude as background.
- ◆ Based on the data presented in this report, the four areas that formerly had cobalt-60 containing materials are currently in compliance with NRC site-specific cleanup standards.



APPENDIX A





UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION I
475 ALLENDALE ROAD
KING OF PRUSSIA, PENNSYLVANIA 19406-1416

FEB 26 1996

Docket No. 030-07022
License No. 29-13613-02
Control No. 114377

Mr. John D. Schlecht
Director of Operations
RTI, Incorporated
108 Lake Denmark Road
Rockaway, NJ 07866

Dear Mr. Schlecht:

This is in reference to your letter dated July 7, 1995 and our telephone conversation on February 13, 1996, regarding the remediation of contaminated soil at the Process Technology North Jersey facility in Rockaway, New Jersey.

Based on our conversation, it is my understanding that you intend to support your request to reduce the amount of cobalt-60 contaminated material listed on your license by taking and analyzing a number of core samples in the locations specified below. It is my understanding that will take a minimum of one core sample from Areas A, B, C, and D each, as designated in your letter dated January 3, 1991 to verify that these areas meet the release criteria. It is also my understanding that you will submit your procedures for determining the method of taking the samples, and the location and depth of the samples.

Specifically included in the procedures you will:

- a. Confirm that core samples will go to 8 feet, or to a safe distance above the water table, whichever is shorter.
- b. Confirm that soil from core samples will be analyzed in segments to determine the concentration of cobalt-60 at various depths.
- c. Confirm that you will perform gamma logging of each borehole, and on-site screening of soil samples to identify the maximum radiation level from each core sample.
- d. Confirm that you will determine the cobalt-60 concentration of the segment having the maximum radiation level reading for each borehole; and of any sample which exceeds a predetermined trigger level during onsite screening.
- e. Describe the instrumentation to be used for radiation level measurements, gamma-logging of boreholes, and onsite screening of core samples; the equipment to be used for obtaining core samples; the methods to be used to determine the cobalt-60 content of the samples, including any sample preparation method used; and the method used to identify and track samples to be analyzed (chain-of-custody procedures).

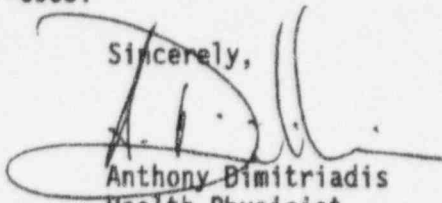
RTI, Incorporated
John D. Schlecht

-2-

- f. Describe the records which will be maintained, including the location, depth, and material type of each borehole; radiation level measurements made during gamma-logging of boreholes and onsite screening of samples; analyses of samples; calibration of instruments and daily instrument performance checks.
- g. You will notify the NRC of the schedule for taking core samples so that an NRC representative may be present on site to observe the sampling and to collect split samples for analysis.

Furthermore, it is my understanding that all of this will be performed by May 1, 1996. Thank you for your cooperation in this matter. If any of my understandings are incorrect, or if you have any questions, please do not hesitate to contact me at (610) 337-6953.

Sincerely,



Anthony Dimitriadis
Health Physicist
Decommissioning and Laboratory
Branch

APPENDIX B



PERMIT NO. N/A LOG OF BORING BB-1SHEET 1 OF 1

PROJECT AND LOCATION RTI ROCKAWAY, NEW JERSEY		ELEVATION AND DATUM N/A		PROJECT NO. RTI-V6	
DRILLING AGENCY Hendrick Drilling Company		FOREMAN DOUGLAS WOOD		DATE STARTED 4/25/96	
DRILLING EQUIPMENT TRUCK-MOUNTED CME-35 AUGER DRILLING RIG		COMPLETION DEPTH 8 FT		DATE FINISHED 4/25/96	
SIZE AND TYPE OF BIT 6 INCH		SIZE AND TYPE CORE BARREL N/A		ROCK DEPTH N/A	
CASING N/A		NO. SAMPLES 4		UNDBT N/A CORE N/A	
CASING HAMMER		WATER LEVEL 6 FT		COMPL 6 FT 24 HR 2.5	
WEIGHT		BORING ANGLE AND DIRECTION VERTICAL			
DROP		INSPECTOR DAVID MUSCALO			
SAMPLER 2-INCH O.D. SPLIT SPOON					
SAMPLER HAMMER					
WEIGHT 140 LBS					
DROP 30 INCHES					

DESCRIPTION	WELL	DEPTH (ft)	SAMPLES			GEOLOGIC LOG	REMARKS
			TYPE NO. LOG	RECORD (ft)	BLOW COUNTS		
Yellowish-brown f sandy GRAVEL with trace to some silt and clay - poorly sorted - angular sand grains and gravel (moist) [FILL]		1	S-1	12 IN	2		8-12 grains/hr background
		2			5		
Yellowish-brown Grayally SILT with trace to some Clay - poorly sorted - (moist)		3	S-2	18 IN	5		0-2' 7 grains/hr. sample collected from
		4			14		
		5	S-3		16		2-4' 7 grains/hr.
		6			30		
		7	S-4		22		4-6' 7 grains/hr.
		8			29		
		9			40		6-8' 7 grains/hr.
		10			42		
BOTTOM OF BOREHOLE @ 8 FEET		11			100		
		12			62		
		13					
		14					
		15					
		16					
		17					
		18					
		19					
		20					

PERMIT NO. N/A LOG OF BORING CB-1

SHEET 1 OF 1

PROJECT AND LOCATION RTI ROCKAWAY, NEW JERSEY		ELEVATION AND DATUM N/A		PROJECT NO. RTI-V6	
DRILLING AGENCY Kendrick Drilling Company		FOREMAN DOUGLAS WOOD		DATE STARTED 4/25/96	
DRILLING EQUIPMENT TRUCK-MOUNTED CME-55 AUGER DRILLING RIG		COMPLETION DEPTH 8 FT		DATE FINISHED 4/25/96	
SIZE AND TYPE OF BIT 6 IN AUGER B.T.		SIZE AND TYPE CORE BARREL N/A		ROCK DEPTH N/A	
CASING N/A		NO. SAMPLES 4		UNDIST N/A	
CASING HAMMER N/A		WATER LEVEL 6 FT		CORE N/A	
WEIGHT N/A		DIP N/A		COMPL 6 FT	
DIP N/A		BORING ANGLE AND DIRECTION VERTICAL		24 HR 2.5	
SAMPLER 2-INCH O.D. SPLIT SPOON		INSPECTOR DAVID MUSCALO			
SAMPLER HAMMER 140 LBS		DROP 20 INCHES			

DESCRIPTION	WELL	DEPTH (ft)	SAMPLES			GEOLOGIC LOG	REMARKS
			TYPE NO LOG	RECORD (ft)	BLOW COUNTS		
Yellowish-brown gravelly Silt with trace clay - several rock fragments (moist)	1		S-1	14 1/2	10		Background 12 μ rem/hr 0-2 FEET 9 μ rem/hr sample CB-1 from 0-2 FT 2'-4' 9 μ rem/hr 4'-6' 9 μ rem/hr
	2				2		
	3		S-2	4 1/2	4		
	4				4		
Yellowish-brown Gravelly & SAND with trace silt (WET)	5		S-3	2 1/2	3		
	6				5		
	7		S-4	2 4/5	16		
BOTTOM OF BORE HOLE @ 8 FT	8				42		
	9				42		
	10				42		
	11				42		
	12				42		
	13				42		
	14				42		
	15				42		
	16				42		
	17				42		
	18				42		
	19				42		

PERMIT NO. N/ALOG OF BORING CB-2SHEET 1 OF 1

PROJECT AND LOCATION RTI ROCKAWAY, NEW JERSEY		ELEVATION AND DATUM N/A		PROJECT NO. RTI-V6	
DRILLING AGENCY KENDRICK DRILLING COMPANY		FOREMAN DOUGLAS WOOD		DATE STARTED 4/24/96	
DRILLING EQUIPMENT TRUCK MOUNTED CME-55 AUGER DRILLING RIG		COMPLETION DEPTH 8 FT		DATE FINISHED 4/24/96	
SIZE AND TYPE OF BIT 6 IN AUGER BIT		SIZE AND TYPE CORE BARREL N/A		ROCK DEPTH N/A	
CASING N/A		NO. SAMPLES 4		UNDRIFT N/A	
CASING HAMMER N/A		WATER LEVEL 6 FT		CORE N/A	
WEIGHT N/A		FIRST 6 FT		COMPL 6 FT	
DROP N/A		BORING ANGLE AND DIRECTION VERTICAL		24 HR 3.5	
SAMPLER 2 INCH O.P. SPLIT SPOON		INSPECTOR DAVID MUSCALO			
SAMPLER HAMMER					
WEIGHT					
DROP					

DESCRIPTION	WELL	DEPTH (ft)	SAMPLES			GEOLOGIC LOG	REMARKS
			TYPE NO. LOG	RECOVER (ft)	BLOW COUNTS		
Brown organic Silt with trace Clay (moist) [Fill]					2		15 gpm/hr at surface
Yellowish-brown silty f SAND with trace to some f Gravel - gravel angular - poorly sorted - (moist)		1	S-1	12 IN	2		0'-2' 10 gpm/hr SAMPLE CB-2 from 0'-2' interval to be analyzed 2-4' 10 gpm/hr
		2			7		
		3	S-2	14 IN	6		
		4			4		
Yellowish-brown silty f-m SAND with trace to some Clay - piece of decomposed cobble - poorly sorted (WET)		5	S-3	18 IN	10		4'-6' 10 gpm/hr DRILLED SWITCHED TO 300 LB HAMMER FOR 4.7' to 6' interval 6'-8' 10 gpm/hr DRILLED USED 300 LB HAMMER
		6			17		
		7	S-4	16 IN	34		
		8			100 22/4		
BOTTOM OF BOREHOLE @ 8 FT		9			4		
		10			13		
		11			15		
		12			12		
		13			10		
		14					
		15					
		16					
		17					
		18					
		19					

PERMIT NO. N/A LOG OF BORING CB-3

 SHEET 1 OF 1

PROJECT AND LOCATION RTI ROCKAWAY, New Jersey		ELEVATION AND DATUM N/A		PROJECT NO. RTI-V6	
DRILLING AGENCY Kendrick Drilling Company		FOREMAN DOUGLAS WOOD		DATE STARTED 4/24/96	
DRILLING EQUIPMENT TRUCK-MOUNTED CME-55 Auger Drilling Rig		COMPLETION DEPTH 3.3 FT		ROCK DEPTH 3.3	
SIZE AND TYPE OF BIT 6-INCH O.D. AUGER BIT		SIZE AND TYPE CORE BARREL N/A		NO. SAMPLES 4	
CASING N/A		WATER LEVEL 2 FT		UNDRT N/A	
CASING HAMMER N/A		WEIGHT N/A		CORE 2 FT	
DROPS N/A		BORING ANGLE AND DIRECTION VERTICAL		INSPECTOR DAVID MUSCULO	
SAMPLER 2-inch O.D. SPLIT SPOON		SAMP ER HAMMER 140 LBS		DROP 30 INCHES	

DESCRIPTION	WELL	DEPTH (ft)	SAMPLES			GEOLOGIC LOG	REMARKS
			TYPE NO LOC	RECON (ft)	BLOW COUNTS		
Yellowish-brown silty f-m SAND with trace to some gravel - poorly sorted - (moist)		1	S-1		5 6 6 3		surface 22 μ rem/hr 0'-2' 18 μ rem/hr This sample selected for analysis 2'-3' 15 μ rem/hr
		2			24 34 102/111		
		3	S-2				
BOTTOM OF BOREHOLE @ 3.3 FEET		4					
		5					
		6					
		7					
		8					
		9					
		10					
		11					
		12					
		13					
		14					
		15					
		16					
		17					
		18					
		19					

PERMIT NO. N/ALOG OF BORING CB-4SHEET 1 OF 1

PROJECT AND LOCATION RTI ROCKAWAY, NEW JERSEY		ELEVATION AND DATUM N/A		PROJECT NO. RTI-V6	
DRILLING AGENCY KENDRICK DRILLING COMPANY		FOREMAN DOUGLAS WOOD		DATE STARTED 4/24/96	
DRILLING EQUIPMENT TRIPOD DRILLING RIG		COMPLETION DEPTH 4 FEET		DATE FINISHED 4/24/96	
SIZE AND TYPE OF BIT N/A		SIZE AND TYPE CORE BARREL N/A		ROCK DEPTH	
CASING N/A		NO. SAMPLES 2		UNDRIFT N/A	
CASING HAMMER N/A		WATER LEVEL N/A		CORRECTION N/A	
SAMPLER 2-INCH OD. SPLIT SPOON		BORING ANGLE AND DIRECTION VERTICAL		24 HR 2.5	
SAMPLER HAMMER 140 LBS		INSPECTOR DAVID MUSCULO			
WEIGHT N/A		DROP 30 INCHES			

DESCRIPTION	WELL	DEPTH (ft)	SAMPLES			GEOLOGIC LOG	REMARKS
			TYPE NO. LOC	RECON. (ft)	BLOW COUNTS		
Black ORGANIC SILT (MOIST)					1		
Yellowish-brown silty f SAND (moist to WET)		1	9-1		2		Surface 13 μ rem/hr
		2			2		SAMPLE FROM 0-3FT ANALYZED
		3	9-2		6		0'-2' 10 μ rem/hr
					11		
					13		0'-2' 10 μ rem/hr
BOTTOM OF BOREHOLE @ 4 FEET		4					
		5					
		6					
		7					
		8					
		9					
		10					
		11					
		12					
		13					
		14					
		15					
		16					
		17					
		18					
		19					

PERMIT NO. N/A LOG OF BORING CB-4

 SHEET 1 OF 1

PROJECT AND LOCATION RTI ROCKAWAY, NEW JERSEY		ELEVATION AND DATUM N/A		PROJECT NO. RTI-V6	
DRILLING AGENCY KENDRICK DRILLING COMPANY		FOREMAN DOUGLAS WOOD		DATE STARTED 4/24/96	
DRILLING EQUIPMENT TRIPOD DRILLING RIG		COMPLETION DEPTH 4 FEET		DATE FINISHED 4/24/96	
SIZE AND TYPE OF BIT N/A		SIZE AND TYPE CORE BARREL N/A		ROCK DEPTH	
CASING N/A		NO. SAMPLER 2		UNDERST N/A	
CASING HAMMER N/A		WATER LEVEL N/A		CORE N/A	
WEIGHT N/A		FIRST N/A		COMPL 1.0	
DROP N/A		BORING ANGLE AND DIRECTION VERTICAL		24 HR 2.5	
SAMPLER 2-INCH O.D. SPLIT SPOON		INSPECTOR DAVID MUSCULO			
SAMPLER HAMMER 140 LBS		DROP 30 INCHES			

DESCRIPTION	WELL	DEPTH (ft)	SAMPLES			GEOLOGIC LOG	REMARKS
			TYPE NO LOC	RECOR (ft)	BLOW COUNTS		
Black organic SILT (moist) yellowish-brown silty f SAND (moist to wet)		1	S-1		1		Surface 13 μ rem/hr SAMPLE FROM 0-3 FT. ANALYZED 0'-2' 10 μ rem/hr 0'-2' 10 μ rem/hr
		2			2		
		3	S-2		6		
Bottom of borehole @ 4 FEET		4			11		
		5			13		
		6					
		7					
		8					
		9					
		10					
		11					
		12					
		13					
		14					
		15					
		16					
		17					
		18					
		19					

APPENDIX C



TELEDYNE BROWN ENGINEERING ENVIRONMENTAL SERVICES

REPORT OF ANALYSIS

MAY 8 1996

RUN DATE 05/07/96

WORK ORDER NUMBER

CUSTOMER P.O. NUMBER

DATE RECEIVED

DELIVERY DATE

PAGE 1

KIM NORTON
ICM LABORATORIES
1152 ROUTE 10
RANDOLPH NJ

3-5505

05/01/96

05/15/96

07869

S O I L

TELEDYNE SAMPLE NUMBER	CUSTOMER'S IDENTIFICATION	STA NUM	COLLECTION-DATE		NUCLIDE	ACTIVITY (PCI/GM DRY)	NUCL-UNIT-X U/M *	MID-COUNT TIME		VOLUME - UNITS ASH-WGHT-X *	LAB.
			START DATE	STOP TIME				DATE	TIME		
15434	234337		04/25	1000	CO-60	L.T. 6. E-02		05/03		4	
15435	234338		04/25	1203	CO-60	1.4 +-0.1 E 00		05/03		4	
15436	234339		04/25	1340	CO-60	3.4 +-0.3 E 00		05/03		4	
15437	234340		04/25	1530	CO-60	2.9 +-0.3 E 00		05/03		4	
15438	234341		04/25	1707	CO-60	2.1 +-0.2 E 00		05/03		4	

LAST PAGE OF REPORT

SEND 1 COPIES TO IN2985 KIM NORTON

APPROVED BY J. GUENTHER 05/07/96

2 - GAS LAB.

3 - RADIO CHEMISTRY LAB.

4 - GE(LI) GAMMA SPEC LAB.

5 - TRITIUM GAS/L.S. LAB.

6 - ALPHA SPEC LAB.

MAY-13-96 MON 16:30 ICM LABORATORIES

APPENDIX D



LIST OF ACRONYMS AND ABBREVIATIONS

BB	background boring
CB	cobalt-60 boring
μ rems/hr	microrems per hour
ms/M	millisiemens per meter
NRC	United States Nuclear Regulatory Commission





108 Lake Denmark Road • Rockaway, NJ 07866
(201) 625-8400 • FAX: (201) 625-7820

May 23, 1996

Docket No. 030-07022
License No. 29-13613-02
Control No. 114377

Mr. Duncan White
Senior Health Physicist
USNRC
Region I
475 Allendale Rd
King of Prussia, PA 19406-1415

Dear Mr. White:

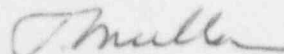
RTI Inc. requests the removal of Item 6E from license No. 29-13613-02. Enclosed for your review is our submittal to Mr. Anthony Dimitriadis of USNRC Region I dated May 23, 1996 in support of this amendment.

As you are aware, there is a pending sale of most of RTI's assets to SteriGenics International. This transaction should transpire by the end of July. If Item 6E cannot be removed from the License by the time that this transaction takes place, RTI Inc. requests that Item 6E be separated from License No. 29-13613-02. At that time SteriGenics would be responsible for Items 6A through 6D and a separate license would need to be issued to RTI Inc. for Item 6E.

In the event that a separate license needs to be issued to RTI Inc. for Item 6E, the RSO for the new RTI Inc. license will be John. D. Schlecht. Mr. Schlecht has agreed to be retained as RSO under a consultant arrangement in this event.

Enclosed please find our check for \$780.00 to cover this amendment. If you need any further information please call either myself or Mr. Schlecht at (201) 625-8400.

Sincerely,


Theo Muller
CEO

cc: A. Dimitriadis
J. Schlecht

123267

MAY 24 1996

OFFICIAL RECORD COPY ML 10

DIVISION OF ACCOUNTING AND FINANCE

REQUEST FOR REFUND TO EMPLOYEE/VENDOR

THE EMPLOYEE/VENDOR IDENTIFIED BELOW HAS OVERPAID THE NUCLEAR REGULATORY COMMISSION FOR GOODS AND/OR SERVICES PROVIDED AND IS DUE A REFUND

EMPLOYEE/VENDOR/PAYEE CODE: _____

NAME: RTI, INC.

ADDRESS: ATTN: THEO MULLER, CEO

ADDRESS: 108 LAKE DENMARK ROAD

CITY: ROCKAWAY STATE: NJ ZIP: 07866

TRANS CODE: PX

TRANS TYPE: FE FUND: X5280 JOB CODE: _____ AMOUNT: \$30.00

TRANS TYPE: IR FUND: R1435 JOB CODE: INTR AMOUNT: _____

TRANS TYPE: IR FUND: R1099 JOB CODE: ADCH AMOUNT: _____

TRANS TYPE: IR FUND: R1099 JOB CODE: FINE AMOUNT: _____

TOTAL REFUND AMOUNT: \$30.00

COMMENTS: L.C. 29-13613-02 / CK 7574 / 3G AND OVERPAY

(Limit comments to 40 characters, including spaces)

PREPARED BY: Brenda Brown DATE: 6/25/96

AUTHORIZED BY: Andrea Kimberly DATE: 7/3/96

ORIGINAL INV. NO: _____ DATE PAID: _____ AMOUNT: _____

REFUND ENTERED INTO COLLECT BY: _____

REFUND DETERMINED BY: _____ DATE: _____

PLEASE ATTACH APPROPRIATE SUPPORTING DOCUMENTATION

I 96
June 10
LTR DTD 5/23/96
3G AND F&E IS \$750
(123267)

BETWEEN:

LICENSE FEE MANAGEMENT BRANCH, ARM
AND
REGIONAL LICENSING SECTIONS

(FOR LFMS USE)
INFORMATION FROM LTS

PROGRAM CODE: 03521
STATUS CODE: 0
FEE CATEGORY: 3G 3P
EXP. DATE: 20000430
FEE COMMENTS: STORAGE/SELF-SHIELDED
DECOM FIN ASSUR REQ: Y
.....

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED

APPLICANT/LICENSEE: RTI, INCORPORATED
RECEIVED DATE: 960524
DOCKET NO: 3007022
CONTROL NO.: 123267
LICENSE NO.: 29-13613-02
ACTION TYPE: AMENDMENT

2. FEE ATTACHED

AMOUNT: \$780.00
CHECK NO.: 7594

3. COMMENTS

SIGNED
DATE

Rebecca J. Brown
6/1/96

B. LICENSE FEE MANAGEMENT BRANCH (CHECK WHEN MILESTONE 03 IS ENTERED / ☒)

1. FEE CATEGORY AND AMOUNT: (3G) 3P 4950

2. CORRECT FEE PAID. APPLICATION MAY BE PROCESSED FOR:

AMENDMENT ☒
RENEWAL ☐
LICENSE ☐

3. OTHER

SIGNED
DATE

B. Brown
6/13/96

Log *June 10*
Remitter *Placed Refund by of NORTH TOWNSHIP, IN*
Check No. *7594*
Amount *780.00*
Fee Category *3G 3P*
Type of Fee *Amend*
Check Rec'd *6/13/96*
Completed *6/13/96*
B. Brown

1026 JUN -7 AM 9:32