

# VIRGINIA TECH

Department of  
Health and Safety

Blacksburg, Virginia 24061  
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February 5, 1988

Theodore Michaels  
Project Manager  
USNRC  
Mail Stop 11H3  
Washington, D.C. 20555

Subject: Additional Clarification to Final Decommissioning Report

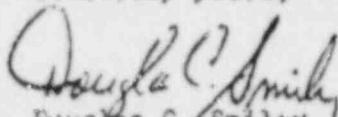
Reference: Docket 50-124

Dear Mr. Michaels:

When the ORAU survey team was performing the confirmation survey, several areas at the landfill were found to exceed two times background on contact. Since the concrete material was piled together in these places, a 4 pi geometry existed with contact measurements taken, rather than a 2 pi geometry at a distance of 1 meter. This geometry problem caused the measurements to be exaggerated. After the survey team left the site, the blocks were separated so that the proper geometry existed to allow for sufficient surveillance. A resurvey of the suspect blocks is attached. This data confirms that the release criteria were not exceeded.

If you have any questions please contact us. As discussed by telephone earlier today, very pressing needs for the release of the facility exist. An expeditious review would be greatly appreciated.

Sincerely yours,

  
Douglas C. Smiley  
Radiation Safety Officer

8803010301 880224  
PDR ADOCK 05000124  
P PDR

## RESULTS OF VERIFICATION SURVEY AT V.P.I. LANDFILL

(Items with >2X Background contact readings  
as identified by ORAU inspection team.)

Date: August 5, 1987

## Instruments Used:

<u>Mfg/Model</u>	<u>Serial Number</u>	<u>Cal. Due</u>
Reuter Stokes RSS-111 Pressurized Ion Chamber	#V4032	9/23/87
Ludlum Model 3 w/44-2 (2" x 2" NaI) Detector	#38624 #024038	2/4/88

## DOSE RATE SURVEY RESULTS (uR/hr):

<u>Background Measurement</u>	<u>-Contact-</u>		<u>-@ 1 Meter -</u>	
	<u>RSS-111</u>	<u>Model 3</u>	<u>RSS-111</u>	<u>Model 3</u>
Location #1	14.8	4.5	14.3	4.0
Location #2	15.2	5.0	14.6	4.5
Location #3	13.4	4.0	12.6	4.0
Location #4	14.5	4.5	13.9	4.0
Location #5	14.7	4.5	14.2	4.5
Location #6	<u>15.1</u>	<u>5.0</u>	<u>14.5</u>	<u>4.5</u>
Average-	14.6	4.6	14.0	4.3

## ITEM (NET VALUES)

'Rock', 1A	18.6	19.4	1.4	0.7
'Rock', 1B	10.9	11.4	0.6	Bkgnd
'Rock', 1C	12.1	13.4	0.9	0.2
'Rock', 2	7.4	8.9	0.2	Bkgnd
'Rock', 3	3.9	4.4	Bkgnd	Bkgnd
'Rock', 4	<u>5.2</u>	<u>5.9</u>	<u>Bkgnd</u>	<u>Bkgnd</u>
Maximum-	18.6	19.4	1.4	0.7

(0688R)  
HM:s1

V. P. I. LANDFILL  
(Ref. Figure 1A for general Location)

- - Denotes location of suspect 'rocks'
- △ - Denotes location of Background measurement (RSS-III; NoI).

