

DCS  
FEB 22 1991

Docket No. 99990081

U. S. Department of Energy, Idaho Operations  
ATTN: Mr. T. Rowland, Acting Director  
West Valley Demonstration Project Office  
P. O. Box 191  
West Valley, NY 14171

Gentlemen:

Subject: NRC TLD Monitoring at West Valley, Fourth Quarter, 1990

Enclosed is a copy of the TLD monitoring results around the subject facility for the fourth quarter of 1990.

The large value noted for Station #11 is due to the proximity of this dosimeter to a waste storage facility located at the site. Similar results have been noted for each monitoring period.

Due to the high value normally recorded at Station Number 11, the total exposure is the sum of the values recorded on two TLDs, one of which is placed for the first half of the quarter, and the other for the second half. The TLD for the second half of the fourth quarter could not be located; thus the gross exposure reported here is for roughly the first half of the quarter (Oct. 4 - Nov. 10, 1990). A net value was not calculated.

Sincerely,

Original Signed By:  
Robert J. Bores

Robert J. Bores, Chief  
Effluents Radiation Protection  
Section, DRSS

Enclosure(s): As Stated

cc:  
Public Document Room (PDR)  
Local Public Document Room (LPDR)  
Nuclear Safety Information Center (NSIC)  
State of New York

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bcc:  
Region I Docket Room (with concurrences)  
R. D. Hurt, NMSS  
L. J. Cunningham, NRR  
M. R. Knapp, DRSS  
J. H. Joyner, DRSS  
J. Roth, DRSS

RI:DRSS *LAB*  
Struckmeyer

2/22/91

RI:DRSS *LAB*  
Roth *for*

2/24/91

RI:DRSS  
Bores *LAB*

2/22/91

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# WES. VALLEY

## TLD DIRECT ENVIRONMENTAL RADIATION MONITORING RESULTS

Anneal date : 9/17/90  
 Field placement date : 10/04/90  
 Retrieval date : 1/09/91  
 Readout date : 1/24/91

Gross Monitoring Period : 130 days ( 9/17/90 - 1/24/91)  
 Field Monitoring Period : 98 days (10/04/90 - 1/09/91)

Transit Period : 32 days

Station Number	Distance (miles)	Direction (degrees)	Gross Exposure (mR / 128 days)	Net Exposure (mR / 90 days)
1	4.0	350	25.8 +/- 0.8 ; 3.9	21.1 +/- 0.8 ; 4.6
2	3.6	144	20.0 +/- 0.6 ; 3.0	15.8 +/- 0.6 ; 3.9
3	1.5	92	MISSING	
4	1.2	51	20.8 +/- 0.6 ; 3.1	16.5 +/- 0.6 ; 4.0
5	2.1	10	25.6 +/- 0.8 ; 3.8	20.9 +/- 0.8 ; 4.5
6	1.7	319	22.2 +/- 0.7 ; 3.3	17.8 +/- 0.7 ; 4.1
7	1.2	262	19.9 +/- 0.6 ; 3.0	15.7 +/- 0.6 ; 3.9
8	1.4	234	19.8 +/- 0.6 ; 3.0	15.6 +/- 0.6 ; 3.9
9	0.3	300	39.9 +/- 1.2 ; 6.0	34.1 +/- 1.1 ; 6.2
10	on-site	43	32.6 +/- 1.0 ; 4.9	27.4 +/- 0.9 ; 5.3
11 *	on-site	334	525 +/- 16 ; 79	*
12	on-site	83	70.4 +/- 2.1 ; 10.6	62.1 +/- 1.9 ; 10.1

Transit Dose = 2.8 +/- 0.3 ; 3.1

Results are reported as

Measurement +/- Random error ; Total error

(Total error = Random + Systematic)

\* Due to the high value normally recorded at Station Number 11, the total exposure is the sum of the values recorded on two TLDs, one of which is placed for the first half of the quarter, and the other for the second half. The TLD for the second half of the fourth quarter could not be located; thus the gross exposure reported here is for roughly the first half of the quarter (Oct. 4 - Nov. 10, 1990). A net value was not calculated.