

IN REPLY TO LTR. NO.

W.F.H:ap

ORIG. & TYPIST INITIALS

11-1

MEMO: W.F.H.

W.F.H:ap

APPROVALS

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Enclosures: 15 copies - Environmental Monitoring Report, Page 6

W. F. Heine, Manager  
Operational Safety and  
Waste Management

*W.F. Heine*

Very truly yours,

The attached page represents a revision of page 6 of the  
Atomic International Environmental Monitoring Report for  
calendar year 1972. Please remove the existing page 6 from  
your copies of the Report and replace them with the revised  
page.

Dear Mr. Reardon:

Subject: Revision of Environmental Monitoring Report - 1972

San Francisco Operations Office  
U. S. Atomic Energy Commission  
1333 Broadway  
Oakland, CA 94612

Mr. D. E. Reardon

Deputy Manager

San Francisco Operations Office

U. S. Atomic Energy Commission

1333 Broadway

Oakland, CA 94612

November 1, 1973

In reply refer to 73A T-6304

DIST BY  
L.R.  
ENCL

TABLE V  
AIRBORNE RADIOACTIVITY DATA - 1972

Area	Activity	No. Samples	Average Value (95% Confidence Level)	Maximum Observed Value
Headquarters ( $\mu\text{Ci/cc}$ )	$\alpha$ *	708	$(8.5 \pm 10.4) 10^{-15}$	$1.7 \times 10^{-14}$
	$\beta\gamma$ **	708	$(1.4 \pm 0.19) 10^{-13}$	$1.4 \times 10^{-11}$
NDFL ( $\mu\text{Ci/cc}$ )	$\alpha$ *	2430	$(8.6 \pm 10.4) 10^{-15}$	$2.0 \times 10^{-14}$
	$\beta\gamma$ **	2430	$(1.4 \pm 0.19) 10^{-13}$	$7.2 \times 10^{-12}$

\*Alpha MDL  $8.5 \times 10^{-15} \mu\text{Ci/cc}$  - Daily samples with activity levels of 0 to  $8.5 \times 10^{-15} \mu\text{Ci/cc}$  recorded and averaged as  $8.5 \times 10^{-15} \mu\text{Ci/cc}$ .  
Indicated average values are upper limits.

\*\*Beta MDL  $1.8 \times 10^{-14} \mu\text{Ci/cc}$  - Daily samples with activity levels of 0 to  $1.8 \times 10^{-14} \mu\text{Ci/cc}$  are recorded and averaged as  $1.8 \times 10^{-14} \mu\text{Ci/cc}$ .

TABLE VI  
SITE PERIMETER RADIATION DOSIMETRY DATA - 1972

Location	Dose# (rem)	Average Dose Rate (mrem/hour)
TLD-1	0.84##	0.096
TLD-2	0.19†	0.043
TLD-3	No Data	-
TLD-4	0.25	0.029
TLD-5	0.25	0.028
TLD-6	0.11†	0.016
TLD-7	0.23	0.026
TLD-8	0.05†	0.023
TLD-9	0.21	0.024
TLD-10	0.33	0.038

#Natural background not subtracted due to variations in elevation and geological conditions throughout sites.

##Assumed to be spurious data since no source of radiation is identifiable. Point of measurement is ~ 300 ft inside nearest site boundary.

†Based upon fewer than 4 calendar quarters.