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This document consists of 2 pages
No. 1 of 6 copies. Series A

Resume of Radiation Intensities Found on Shot Islands
Early October 1948. Only Gamma Radiation Reported.

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Engebi
Radiat. Safety Rep.

LAB-H-1-1

40445B

Engebi - October 5, 1948

From 1500 yards to 750 yards - 0.6 to 0.4 mr/hr.
From 400 yards to 200 yards the radiation rose to a peak of about 100 mr/hr at about 1000 feet and fell to about 30 mr/hr near zero position. At zero position the level was about 60 mr/hr with the tower footings reading between 40 and 150 mr/hr depending on the amount of steel remaining. Layered excavating at about 1000 feet from zero and south of the runway gave the following relative activity:

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Top 1" layer	-	100
2" to 3"	-	18.
4" to 5"	-	1.5
6" to 7"	-	0.65

The radiation intensity at the site of excavation was about 150 mr/hr.

The method of measuring the relative activity of the layered excavations was as follows: A tin can 7" tall and 6" diameter was filled with the excavated material. The can was then placed in contact with the closed probe shield of the Victoreen Model 263 and the reading as mr/hr taken. The top layer from Engebi was too active to measure this way. It was then removed to such a distance as to give 20 mr/hr reading and the second layer (2" to 3") substituted to obtain a ratio.

Aoman and Biijirii - October 5, 1948

Biijirii ran a radiation level of between 1 and 3 mr/hr.

Aoman at about 600 feet	-	20 mr/hr.
300 "	-	40 mr/hr.
100 "	-	80 mr/hr.
at zero	-	170 mr/hr.
With the tower footings	-	150 - 200 mr/hr.

Layered excavations at about 100 feet from zero with surface radiation at about 80 mr/hr gave the following relative activity:

Top 1" layer	-	9 mr/hr.
2" to 3"	-	12 mr/hr.
4" to 5"	-	10 mr/hr.
6" to 7"	-	0.5 mr/hr.

Rupit - October 6, 1948

Entire island to about 700 yards from zero was completely cold (not above background). A level of about 20 mr/hr was reached at about 200 yards and rose to 150 mr/hr at about 10 feet from

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Per DAVIS H. PLANNING
(Person authorizing change in classification and date)
By Loelyn Johnson 6/17
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REPOSITORY CS Alamos
COLLECTION CL-2
RUBINO 1331-1
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the edge of the tower base. Zero position radiation level was 400 mr/hr with the tower footings giving 90 to 2000 mr/hr depending upon the amount of steel remaining.

Layered excavation about 10 feet in front of edge of tower base gave:

Top 1"	-	20
2" to 3"	-	1.3
4" to 5"	-	0.5
6" to 7"	-	0.35

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