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404463

~~SECRET~~

October 10th, 1946

LOS ALAMOS NAT'L LAB

Dr. Kenneth Scott
Crocker Radiation Laboratory
University of California
Berkeley, California

Dear Dr. Scott:

Enclosed are the results we obtained on the last shipment of paint samples. Results are in actual disintegrations per minute. Both beta and alpha results have been corrected for geometry and counter efficiency.

These samples were analyzed as follows:

The surface area of the various paint fragments were measured with a planimeter in order to give us a relation between total counts and surface area. The samples were then ground and weighed in order to establish disintegrations per gram. The samples were then digested with 4 N HCl and the solution filtered. A solution was then made up to volume, a small aliquot plated directly for beta counting and another aliquot extracted for alpha activity by the supferrom procedure. These samples containing a large amount of iron were analyzed for alpha activity by carrying the plutonium directly with the lanthanum fluoride precipitation.

These analyses were done with somewhat greater care than the first group of samples you sent me. I am enclosing four copies of the results. You can give a copy to Capt. Welch and send one to Commander Harris if you think it advisable to do so.

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Sincerely yours,

Classification changed to
by Authority of the U. S. Atomic
Energy Commission, IV

Walter A. Payne 10/10/60
J. P. Fletcher

ML/ars

best
outstanding envelope
Area 559
6 Post
Berkeley, Calif.
Attn - Security Office

Wright Langham

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by authority of the U. S. Atomic Energy Commission,

Per R. D. Kehler 11/1/61
(Person making change in classification)

M. J. Snyder 12/1/61
(Signature of person making the change, and date)

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~~PAINT SAMPLES RECEIVED FROM NIKINI SEPTEMBER 26TH, 1946~~

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C.P.

Sample Code No.

Description

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5.

503-Nevada - 13th September

Bright red from bulk head of deck house
PORT SIDE

Grey samples from #3 hatchette

Ball Red sample from Stock

6.

503-Hughes DD 14th September
Paint samples from stock trunk.

7.

L.S.T. 123 14th September. Paint
samples from bulk head of super-
structure Port PORT SIDE

8.

503-Brahmin - 14th September - APA 66

9.

Paint samples main deck PORT SIDE S.G.D.

10.

Fabric from T-32. Sitting on forecastle
deck.

11.

503-Salt Lake City - 13th September.
Paint Samples Oil deck PORT SIDE

12.

L.S.T. 621 - 14th September. Paint
samples from top of superstructure
Oil deck.

13.

503-Braule - APA 66 - 14th September

A

Paint Samples Oil deck. Port PORT SIDE

B

Fabric from top on forecastle.

14.

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L.S.T. 503 - 14 September. Paint
samples from main deck PORT - SIDE.

15.

503-Brahmin - 13th September. DD 604.
Paint samples from stock trunk

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Sample Code No.

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#20

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PAGE(S)

L.S.T. 545 - 13th September.
Paint sample main deck, port FRM 30.

#21

L.S.T. 520 - 13th September.
Paint samples main deck FRM 10 Midship.

#22

A

U.S.S. Pennsylvania - 13th September

B

Paint samples #3 Barbette
Fabric from rudder of FOF-6 located
on fin tail.

#23

A

U.S.S. Independence - 13th September.
C.U.L.-II.

B

Paint samples from bridge
Fabric from SW, rudder side facing
blast.

#24

A

Barry APA-61 - 14th September.

B

Paint samples from bulk head of after
deck house 812 FR 130.

C

Fabric from POF midships.

#25

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Paint samples from Gannondale APA - Q 5
Main Deck 8th. 80 Frame - 13th September
Reg. No. 255-051.

#26

Paint Samples from USS Crittenton
APA-77 - Main Deck Port FRM. 150.
Reg. No. 255-029, 12th September

#27

(Weather Deck)

Paint Sample from Carteret - APA-78
on Main Deck. Port Frame 150 - 12th
September. Reg. No. 255-028.

#28

Paint Sample from USS Mayrant DD-408
Sample taken from outside Bulkhead of
after deckhouse. 8th. FRM. 150.
Reg. No. 255-025

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Sample Code No.

Description

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Paint Samples from USS New York.
Portside of the #4 turret. Reg. No.
283-027 - 12th September.

#10

Prins Eugene. Paint Sample from top of
Ready Box 81 deck 8th Penn. 100.
Reg. No. 283-028. 12th September

#11

USS Dawson - Paint Samples Main Deck
Port Frame 90. Reg. No. 283-030 -
12th September.

#12

Sample Goral Flaking off ship jack -
10th September. Reg. No. 283-031

#13

Paint Samples from USS Ralph Talbot
DD-590 - 7th September, 1946. Taken
from stock trunk (part). Reg. No.
283-034.

#14

Paint Sample from USS Palau AP-61
Taken on stb. side Penn. 100. Reg. No.
283-032.

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Sample Code No.	Beta disintegrations/min Per gram	Beta disintegrations/min Per cm ²	Alpha disintegrations/min Per gram	Alpha disintegrations/min Per cm ²
1 A	287,000	6,350	287	0.1
1 B	166,000	3.8,000	176	0.1
1 C	172,700	8,300	161.6	0.0
2	61,000	5,240	78.3	0.7
3	500,000	8,720	545	0.0
4 A	168,000	5,000	22.4	1.0
4 B	170,000	4,540	171	0.0
5	62,300	6,300	15.3	0.0
6	224,000	38,000	215	0.6
7 A	535,000	84,000	391	2.0
7 B	154,000	8,700	154	0.9
8	1,737,000	324,000	2840	103
9	854,000	45,000	48.3	0.6
10	47,300	5,400	14.8	0.3
11	216,000	22,000	1.4	0.2
12 A	27,300	3,800	0.8	0.1
12 B	244,700	8,070	88.0	1.0
13 A	360,000	37,470	220	0.7
13 B	172,000	8,300	8.8	0.5
14 A	50,300	8,115	1.8	0.1
14 B	167,000	8,300	77.0	0.2
15	24,720	3,925	6.8	0.5
16	462,000	38,750	7.8	0.7
17	5,070	1,057	2.7	0.1
18	4,230	425	2.0	0.1
19	1,000	100	0.5	0.0

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RESULTS OF BETA AND ALPHA ANALYSIS CONT.

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Sample Code No.	Beta disintegrations/min		Alpha disintegrations/min	
	Per gram	Per cm ²	Per gram	Per cm ²
20	200,000	87,300	15.2	25.3
21	200,000	88,200	12.5	23.4
22	200,000		7.01	
23	77,200	14,100	10.8	2.2
24	218,000	84,700	13.1	5.4

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