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404463

REPOSITORY
REPOSITORY

October 10th, 1946

COLLECTION
COLLECTION

BOX No
40

FOLDED

~~OPERATION CROSSROADS~~

These samples were analyzed as follows:

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. Walsh and send one to Commander Harris if you think it advisable to do so.

Sincerely yours,

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

UL/ars

Wright Langham

UNCLASSIFIED

Classification changed to
by authority of the U. S. Atomic Energy Commission.

Per K. D. Allen (signature in classification)

(Person indicating change in classification)

(Signature of person making the change, and date)

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BEST COPY AVAILABLE

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last outside envelope
to Area Engineer
Berkeley, Calif.
Attn - Security Officer

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PAINT SAMPLES RECEIVED FROM BIKINI SEPTEMBER 26TH, 1946

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10-10-46

C.P.T.

Sample Code No.

Description

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NO. 5 OF 5 COPIES, SERIES A
6 PAGE(S)

REPOSITORY

LOS ALAMOS NAT LAB

COLLECTION

BOX No

TR 5787

FOLDER

Operation Crossroads

USS Nevada - 18th September

Bright red from bulk head of deck house
FVN 80

Grey Samples from #3 barbettes

Ball Red sample from Stack

USS Hughes 20 14th September
Paint Samples from stack trunk.

L.S.T. 153 14th September. Paint
Samples from bulk head of super-
structure Port FVN 80.

USS Drachon - 14th September - APA 66

Paint samples main deck FVN 80 S.T.B.
Side

Fabric from T.H. Sitting on fuselage
deck.

USS Salt Lake City - 18th September.
Paint Samples OI deck FVN 80

L.S.T. 601 - 14th September. Paint
Samples from top of superstructure
OI deck.

USS Brule - APA 66 - 14th September

Paint Samples OI deck. Port FVN 70

Fabric from top on fuselage.

L.S.T. #02 - 14 September. Paint
Samples from main deck FVN - 80.

USS Rhind - 18th September. 20 404.
Paint samples from stack trunk

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#20

L.S.T. 345 - 13th September.
Paint sample main deck, part FKM 30.

#21

L.S.T. 230 - 13th September.
Paint samples main deck FKM 10 Midship

#22

U.S.S. Pennsylvania - 13th September

A

Paint Samples #3 Barbette

B

Fabric from rudder of FGF-5 located on gun tail.

#23

U.S.S. Independence - 13th September.
C.V.L.-42.

A

Paint samples from bridge

B

Fabric from EHF, rudder side facing blast.

#24

Barrow APA-61 - 14th September.

A

Paint Samples from bulk head of after deck house 813 FR 135.

B

Fabric from FGF midships.

#25

Paint samples from Cascoade APA - Q 5
Main Deck 8th. 30 Frame - 12th September
Reg. No. 255-051.

#26

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Paint Samples from USS Crittenden
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-402
Sample taken from outside Bulkhead of after deckhouse. 8th. Frm. 150.
Reg. No. 255-025

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Sample Code No.

Description

#10

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Paint Samples from USS New York.
Portside of the #4 turret. Reg. No.
R25-027 - 12th September.

#10

Prins Eugene. Paint Sample from top of
Ready Box G1 deck Stb. Pm. 100.
Reg. No. R25-028. 12th September

#21

USS Duquesne - Paint Samples Main Deck
Port Frame 90. Reg. No. R25-030 -
12th September.

#22

Sample Coral Flaking off shipjack -
10th September. Reg. No. R25-032

#23

Paint Samples from USS Ralph Talbot
ED-390 - 7th September, 1946. Taken
from stock trunk (part). Reg. No.
R25-024.

#24

Paint Sample from USS Falcon APA-61
Taken on stb. side Pm. 100. Reg. No.
R25-022.

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Sample Bottle No.	Beta disintegrations/min		Alpha disintegrations/min	
	Per gram	Per cm ²	Per gram	Per cm ²
1 A	187,800	4,820	187	8.1
1 B	164,800	13,820	176	14.1
1 C	172,700	8,800	161.4	8.8
2	61,800	5,240	73.2	4.7
3	893,800	8,720	848	8.9
4 A	108,200	5,000	32.4	1.9
4 B	170,000	4,540	171	8.8
5	61,800	4,820	15.2	8.0
6	224,000	88,000	215	31.8
7 A	838,000	84,000	381	23.9
7 B	154,800	9,780	134	8.9
8	1,737,000	124,000	2840	183
9	854,000	65,000	68.2	3.8
10	47,200	8,400	18.8	3.8
11	116,800	11,800	1.4	0.2
12 A	17,800	2,820	0.2	0.1
12 B	844,700	9,670	88.9	1.9
13 A	840,800	17,470	120	8.7
13 B	172,800	8,900	8.9	0.8
14 A	80,100	2,115	1.8	0.1
14 B	107,800	5,800	77.0	4.2
15	24,720	1,025	4.8	0.5
16	481,000	28,720	7.9	0.7
17	3,670	1,087	2.7	0.7
18	4,230	423	1.9	0.1
19	1,820	140	0.8	0.9

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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	87,200	13.2	25.9
21	696,000	30,300	82.5	29.4
22	304,000		701	
23	77,000	16,100	10.8	2.2
24	112,000	14,700	43.1	5.4

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