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A-54-019
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INTER-OFFICE MEMORANDUM

~~TOP SECRET~~
~~CONFIDENTIAL~~

DATE 4 February, 1946

TO: Mr. Max Roy
FROM: Roger S. Warner, Jr.
SUBJECT: Detector Requirements for the Navy Tests

[Handwritten signature]

Classification changed to
by authority of the U. S. Atomic Energy Commission,
Per *[Handwritten name]*
(Person authorizing change in classification)

VERIFIED UNCLASSIFIED
PUBLICLY RELEASABLE
LANL Classification Group
[Handwritten signature]

According to the present plans, a total of ~~thirteen~~ ^{thirteen} (13) charges is being prepared. The following breakdown bears on the specific requirements: 11/24/57
(Date)

Training at Kirtland Field:

2 charges - inert	- C	to be dropped by 12 March
1 " - macalister	- B	" " " " 22 "

Training at Advanced Base:

5 charges - inert	- C	" " " " 8 May
1 " - macalister	- B	" " " " 12 "
1 " - lens type	- A	" " " " 15 "
1 " - lens type	- A	" " " about 1 July
2 " " "	A	" " " (?)

The letter following the type of charge indicates the performance category required of the detonators for the type of test contemplated. "A" type requires a performance rating equivalent to the best grade procurable from the point of view of overall spread in simultaneity, etc., and above the minimum accepted for Nagasaki. Type "B" falls into the category of fully loaded and mechanically satisfactory, but without specific guarantee as to the simultaneity, etc. Type "C" should be merely detonator shells, mechanically satisfactory for wiring, good bridge wires and not loaded.

Type "C" will be used to prove out (1) these assembly procedures which might require modification due to the limitations of working aboard ship, etc., (2) for supplying a lead for the firing unit, (3) as well as to train the individuals for team coordination.

Spares: The number of spares per charge is left to your discretion. The numbers out of each batch which you may wish to have tested on shipboard may indicate that you will actually want to supply more spares than are allowed for in the present shipping boxes.

The preparation and packing of the detonators for use outside the country we understand to be your responsibility. You will no doubt wish to tropicalize each box. A special moisture-proof paper packaging service is available to you from Sandia and may be scheduled through this office.

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Susan Roth: 1/17/48



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Division B will accept delivery of the packaged detonators correctly marked together with a notarized statement of performance at T.D. Site, and will arrange transportation for water shipment through Harry Allen. It would be highly undesirable to ship these by air and we therefore anticipate that the entire requirements will go out by ship and at one time. In the event of an emergency arrangements may be made to transport these by air. The hitch may be, however, that air shipment cannot go by ATC or Crossroads lift in peacetime and must go by B-29, and there will be difficulty in arranging ground crews to prepare another B-29 for the hop.

All equipment required by Tilley and Caleca for test or assembly purposes (excluding the detonators themselves) is to be at shipside by 1 March, 1946. To me this includes camera and all associated gear, a detonating vessel, meters, small tool kits and stake-on pliers, etc.

The detonators required for extra-continental use must be at shipside 8 March. The shipping address for these will not be the same as for the equipment referred to above.

Caleca and Tilley must be processed and ready to ship out by 25 March. As the plans crystallize, it is hoped that these men will leave by air and join the ship at Pearl Harbor by 1 April.

Specifications for working space aboard the AV-5 should be given to me in writing and in final form not later than 7 February.

The detonators which will be used for drops in this country should be available somewhat as follows: Type C on 22 February and Type B on 11 March.

At a minimum those to whom this memorandum is addressed should be kept informed of all subsequent arrangements set up to implement this plan.

RSW:cl

Roger S. Warner, Jr.

cc: Mr. Greisen
Henderson Assembly Group (2)
Mr. Russ

FINAL DETERMINATION
UNCLASSIFIED
L. M. Redman
JAN 12, 1981

*Detonators:
Type C (init) 2 boxes 22 Feb.*



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