

future tests

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DEPARTMENT OF DEFENSE
ARMED FORCES SPECIAL WEAPONS PROJECT

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ADDRESS REPLY TO:
THE CHIEF, ARMED FORCES
SPECIAL WEAPONS PROJECT

404192

15 MAY 1952

SWPWT/400.112

SUBJECT: Planned Obligations of Funds for Research and Development,
FY 1953, for Atomic Weapons Tests

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TO: Chairman, Research and Development Board, Department of
Defense, Washington 25, D. C.

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1. Reference is made to a letter this headquarters, subject as above, file SWPLG-334, dated 20 March 1952. This letter furnished estimated requirements for Research and Development funding of atomic test activities in FY 1953.

2. Since the date of the above referenced letter, certain changes in planning have occurred which require material alteration of the estimated funding program for FY 1953. These changes are as follows:

a. Action was taken by the Research and Development Board to reduce the FY 1953 funding program for Operation IVY by programming additional FY 1952 funds to Commander, Joint Task Force 132 for obligation during the current fiscal year. It is believed that this action will reduce the FY 1953 requirement to approximately \$500,000 for Operation IVY.

b. Operation UPSHOT has been postponed by the Atomic Energy Commission to 1 February 1953, thus making this operation the AEC Spring of 1953 test. The fact that there will now be one operation instead of the two which previously had been planned, and the fact that this operation will be carried out immediately prior to the Military Weapons Effects Test in the Spring of 1953 reduces the funds estimate for UPSHOT to \$800,000.

c. The Military Weapons Effects Test in the Spring of 1953 probably will be somewhat augmented due to the fact that there will not be a Fall 1952 test in which to gain information needed by the military. The present cost estimate of this test is \$7.5 million.

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DEPARTMENT OF ENERGY DECLASSIFICATION REVIEW	
1ST REVIEWER-DATE <i>6/11/94</i>	DETERMINATION (CIRCLE NUMBER(S))
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AUTHORITY: AD <i>yes</i>	4. COORDINATE WITH: <i>DNA</i>
NAME: <i>D. Carran</i>	5. CLASSIFICATION CANCELLED
	6. CLASSIFIED INFO BRACKETED

Declassified by DNA, Chief, ISTS

[Signature]
DATE: *10/18/94*

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4. The AEC has announced its intention of conducting an extra-continental test in the Fall of 1953 (Operation CASTLE). Preliminary information indicates that this test will allow military participation to about the same extent as Operation IVY. The probable date of this test indicates that the time scale of the requirement for funds will be about the same as that for Operation IVY, thus about \$5,000,000 may be required from FY 1953 funds.

5. Although at the present time there is no established requirement for an underwater test of an atomic device at deep submergence, it is believed that such a requirement might be established calling for a test in the Spring of 1954. Preliminary studies indicate that this test will pose many unique problems, the solution of which probably will be quite costly in both dollars and time. Accordingly, it is believed that funds should be earmarked for obligation in FY 1953, once the concept of this test is approved. The estimate for this work remains at \$5,000,000 in FY 1953.

3. The letter referenced in paragraph 1 requested that the amount of \$2.2 million be programmed to the Armed Forces Special Weapons Project at the beginning of FY 1953. This requirement is unchanged. In further support of this request, the following information is furnished:

a. The amount of \$200,000 was recommended by the ad hoc Panel on future Atomic Weapons Tests in paragraph 3.2 of a Secret Restricted Data memorandum for the Chairman, Research and Development Board, file AE 205/4, dated 9 November 1951, subject, "Report of the Ad Hoc Panel on Future Atomic Weapons Tests". These funds should be programmed to the Chief, Armed Forces Special Weapons Project, at the beginning of the fiscal year to avoid delay in the roll-up of Operation SHAPPER.

b. It has been requested previously that the amount of \$2,000,000 be programmed to the Chief, AFSWP at the beginning of FY 1953 so that it will be available as needed for preliminary arrangements and for programs and projects which must enter the contractual phases prior to approval of the detailed effects programs for atomic tests. This is in consonance with the recommendations of the Research and Development Board in "Resume of RDB Review of FY 1953 Research and Development Budget", dated 19 February 1952.

(1) An analysis of FY 1952 expenditures shows that of the

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\$4,000,000 budgeted by AFSWP for future atomic tests, \$1,011,000 was spent for preliminary expenses prior to final approval of the various atomic test programs, and that \$2,000,000 of Emergency Funds were programmed to CJTF-132 for the same purpose. These funds were utilized for such things as the placement of development contracts for instruments which required more than 6 months to develop; contracting for geophysical surveys which were required prior to the final planning for the participation of certain projects in tests; allocations to service agencies so that funds were available for the negotiation of contracts wherein the contractor was to execute a desired project at an atomic test; and support of theoretical studies which formed the basis for planning of projects in atomic tests.

(2) Although over \$3,000,000 were required for preliminary planning during FY 1952, it is believed that \$2,000,000 should suffice for FY 1953 because of the gradually accumulated stock of test equipment and material which will be available for future tests. Expenditures from planning funds during FY 1953 will include development of instruments; provision of funds to allow early contracting for design of specific projects; provision of funds to allow timely modification of existing equipment; and provision of funds to allow a contract with a single agency to do the bulk of the structures instrumentation for the Military Weapons Effects Test in the Spring of 1953.

4. A summary of the above requirements follows:

<i>what tests</i>	Preliminary planning	\$2.0 million	<i>mark</i>
	Completion phase, Operation SHAPPER	0.2 million	<i>mark</i>
	Operation IVY	0.5 million	<i>mark + .35</i>
	Operation UPSHOT	0.8 million	}
	Military Weapons Effects Test, Spring 1953	7.5 million	
	Operation CASTLE	5.0 million	
	Deep Submergence Test	5.0 million	<i>+</i>
	Total	<u>5.0 million</u>	
		\$21.0 million	

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5.0 million

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5. It is recommended that the Research and Development Board:
- a. Include the sum of \$21.0 million in planned obligations for atomic tests in FY 1953.
 - b. Approve the programming of \$2.2 million to AFSWP at the beginning of FY 1953 for the purposes stated in paragraph 3.

HERBERT B. LOPER
Brigadier General, USA
Chief, AFSWP

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