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of Staff, V. S. Party. Machington, D. C.

Flams for Atomic Tests Sub-

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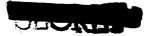
P1 2 15 outline, TSG 1951

- and Equipment
- Integrated extracts

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- II. Tests of Service Equipment and Techniques.
 - a. Radiation detection equipment (ground and airborne).
 - b. Indirect book damage assessment techniques.
 - c. Decentumination techniques.
 - d. Protective clothing and equipment.

III. Supporting Measurements.

- a. Gamma dosage (rate and emergy).
- b. Came dosage versus time.
- c. Free air pressures.
- d. Air pressure versus time.
- e. Peak pressures.
- f. Thermal radiation as a function of time and distance.
- g. Thehnical photography.
- h. Meteorological documentation.
- IV. Long-Range Datection.
 - a. Monitoring and tracking cloud.
 - b. Determination of yield.

Arrangements would be made to repeat any measurements now scheduled for Greenhouse or Windstorm if observations are not obtained due to faulty design or manipulation of instruments.

- 3. On the basis of present information, it may be anticipated that these tests will be conducted at the les Veges Proving Ground. A firm decision is not expected, however, until the results of the Ranger tests, particularly as to radiological hemores incurred, have been analysed and the devices to be tested are finally selected. At the present, it must be accepted as possible that Entweeth will be used for further tests in 1951 following Greenhouse.
- i. The AEC-approved program provides also for full-scale tests in the spring of 1952, to include, tentatively, at least one detonation of a very high-yield device which could be accomplished at an off-continent site only. The Department of Defense should take advantage of both scheduled tests to fill any important gaps in weapons effects information which may remain at the conclusion

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or dependences and windstorm. Since the yield of at least one of the devices to be tested in the spring of 1952 and possibly in the fall of 1951 is indicated to be of a much higher order than any previously tested, it is probable that besis assumements of sir pressures, thermal rediction and posses rediction will be desirable to verify the someway of existing formulas as applied to higher yield managers. It appears questionable whether any extensive tests involving sainals, material or structures will be measury. In any case, it is not libely that the results of preceding tests will be emalyzed and collected in sufficient detail to justify the formulation of a realistic test program for 1952 until late this fall.

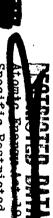
- possibly the thormomodlear measure. In the past, the Atomic Energy Countsaids has been interested primarily in coperiments bearing on the decign of stonic measure and the Department of Defense on effects of stonic measure. In view of the scope of the phenomenological programs conducted in the past, and the catemative programs set up for Greenhouse and Mindetern, it appears that tests in the development of measure, with measure affects in an incidental ar secondary role. Regardless of the scope of the programs desired by the Department of Defense for inclusion in the tests in the fall of 1951 and the spring of 1952, it is appeared that considerable assistance and direct participation by the Department will be required in support of the ABU abjustives. The conduct of tests at Enimetok in 1952 and, possibly, in the fall of 1951, will require occasions secretoes and probably the use of meaned or drops aircuraft for aloud sampling. as off-continent tests will be required for high-yield devices, including range in scope from winor experiments in extension of laboratory programs to full-scale mespons tests of new stockpile models of law or medium yield; where-The establishment of Enisotok as a parameter AUG Frowing Ground, and of an additional proving ground at les Vegas, Reside for the testing of atomic devices leading to the design of weapons or of measures, reison questions of future relationships and responsibilities between the Atomic Knerry Commission and the Department of Sephene in the conduct of such testo. It is believed that future beets at the Las Vegas Frowing Ground will
- be of a lower order. As evidenced in the Hangar tests, however, willtary participation for local security, weather service, aloud sampling and cloud tracking will be required regardless of the scope of the military effects program. It is advisable, therefore, that the ergenizational structure for Armed Forces participation be designated as early as practicable. If the tests set up for the fall of 1951 are conducted in the United the magnitude of military support to the Mondo Energy Consission will
- 7. Apart from the matter of direct military interest, the conduct of off-continent tests at locations to which the USER may have access for observation, clandestine sperations or overt attack necessitates the establishment of a military command for the security of the area and for the control of the personnel and forces involved. The exercise of this command carries with it a degree of responsibility for the technical phases of the test progress and for personnel safety precautions, despite the specific responsibility of the Section of the section of



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ossizable. For the common of tests in the United States, therefore, willtary participation should be in an assisting, rather them a directing or controlling, would imply acceptance of responsibility for any basards or damages that six eccur and for the settlement of claims resulting therefore. As evidenced by the Emager tests, however, and as will be of greater significance in frame tests involving measure effects, a single line of contact between the field group of the Atomic Emergy Commission and the Department of Defence is highlighted. For the conduct of tests in the United States, therefore, will to necessory nor advisable. Constal area defense will be previded as a normal function of the continental defense forces and, as a rule, only technical and logistic support will be required, Assumption of contral ever continental tests of a military on conducted princilly in competion with weapons developments. et the Atomic Energy Considerion for cortain aspects of the viding him with an Atomic Energy Considerion Declarical Group tion of the technical program. That pattern chould be easier tester beyond the continental limits of the United Status wh bution has been colved PART AND THE PARTY under to conduct tests within the MANA IN SEC. by mixing the ter IN the case of spects of the test program and pro-whelend fivery for immediate direc-should be essitued for fature United States dos 2 As evidenced by The designation sea the field test nges that sight

- and the meintenance of military equipment and supplises and that these functions will be expended to meet the requirements of fature test programs as they arise. In the summer of 1951, 375-3 will be in the process of releasing attached units and personnel. Trained actantific personnel, both offices and military, will be available for release to other duties and large numbers of instruments will be available for storage or re-use just prior to the time when they will be available for storage or re-use just prior to the time when they will be numbered for the tests in the fall of 1951. It would be unsecondical to distant personnel and disperse equipment of 375-3 just at the time a similar, but 8. Recognition has been given to the facts that, fallowing the conclusion of Greenhouse (about 15 June 1951), Joint That There 3 will be engaged in the roll-up at Enimetal, the proparation of reports and the settlement of accounts for Greenhouse, that the Department of Defense will continue to be responsible for the general security of Enimetak Atoli and for communications smaller group, is needed for emother test. personnel and disperse omit It would be unecommical to distand just at the time a similar, but
- 9. It is estimated that the military portion of the scientific program as cutlined in paragraph 2 can be accomplished for the fall tests of 1951 for \$1,500,000 of Research and Development funds. This early estimate is based on the assumption that the tests will be conducted at the Merada site and that military participation in the scientific program will not extend beyond the fields enumerated in paragraph 2. Under the sean assumptions, approximately \$1,300,000 will be required for extra-military expenses. He estimates can be unde of funds which will be required for the combact of the tests planned for 1952 until the scope of the tests and the degree of military participation in these tests have been determined.
- Endestak and since the enticipated military programs will be much less than is being done at Greenhouse, it is estimated that the accomplishment of the 5 Since considerable semipermanent construction has been completed at



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Counting of the saling of the ourity for the area. 可見にい testion rould waller than appling of 1952 can be accomplished by a warm rowce waller than appling of 1952 can be accomplished by a warm rowce waller than applicate at this bism would be simplified and lines of responsibility more clearly defint that Force commander reported for military control to the and if the kree Commander retained responsibility for military

IL. It is recommended that

2. The test progress cutilized in paragraph 2, above, be approved subject to such adjustments as may be indicated by the review of the Research and Development Board and by the results of Greenbouse.

of the Atomic Russy Com policy for military participation in field tests of atomic devices and weapons substantially as follows, and to subsit such a proposal for the consideration Serion:

- and organizations from the three Services and from the AFSEP shall be assigned as required for administration, local secund the conduct of military test programs; and for logistics and technical assistance to the Atomic Energy Commission. Proving Grounds, military particulation and assistance shall be coordinated by a small, parameter, joint test group established by the Grief of Staff, W. S. Als Serve. Individuals and organizations from the three Services and from the APSEP shall be assigned as required for administration, local ascurity E For the conduct of tests at the Las Vegas, Heradi
- in which the ABC has primary interest, the Task Force Communder will be an agent of the Atomic Energy Commission for the exercise of such functions on behalf of the Commission as the latter may of the United States, Joint Task Forges will be established the Joint Chiefs of Staff; and that for the occident of such in which the AUC m mesessary. For the conduct of tests beyond the Continental limits r the conduct of such tes the lask force Communder teats
- external resources of JIF-3 and organised and assigned responsibilities in accordance with the general policies stated in subparagraph b above. Executive support of these tests be provided by utilizing the personnel and Agent for the Joint Chiefs of Staff for the presently-scheduled the fall of 1951 (except Windsterm) and the spring of 1952; and
- for their consideration and action. Air Perc letter, together with your com and the order of Identical letters are being forwarded to the Chief of Staff, U.S. Maval Operations. ents thereon, ď to the Joint Chiefs of Staff are requested to formard



HERRERT B. LOFER Brig. General, USA Chief, AFSEP

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