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OF Dr. S. ROBERT
CCFC

JUN 10 1955

~~FOR INFORMATION ONLY~~
~~Subcommittee Report "A"~~

Excerpt

QMLWH

TSE/5190EA/lac
16 June 47

SUBJECT: Chemical Corps Project Program for 1948

TO: The Chairman, Chemical Corps Technical Committee

1747

1. References:

copy 209

- a. CWTC Item 1634, 22 Aug 1946
- b. CCTC Item 1703, 26 Sep 1946
- c. Memorandum, QMLWH this office, 7 May 1947, "1947 Project Program Summary," to Chm, CCTC (Attached herewith as Incl 1)
- d. Par 13, WD Circular 126, dated 17 May 1947
- e. Chemical Corps Research and Development Project Program, Fiscal Year 1948, R & E Division, OC-Cml C, dated 15 June 1947 (Attached herewith as Incl 2)

2. Discussion:

a. Reference a. indicates the technical committee action which recommended approval of the majority of the projects included in the 1947 project program. This was approved by the WDGS with certain exceptions as indicated in the read for record correspondence of reference b. Subsequently, during the year new projects were initiated and others terminated as changing requirements called for revision of research and development activity. Reference c., which is attached herewith as Inclosure 1, lists all approved projects which constitute the amended 1947 project program.

b. In order to list and describe the projects recommended for inclusion in the 1948 program, the R & E Div, OC-Cml C, has prepared the publication identified as reference e. attached herewith as Inclosure 2. This new program consists essentially of those projects which are being continued from the 1947 list together with an additional 18 new or re-activated projects. Detailed discussion pertaining to the necessary action for conversion of the current program into the one described by Inclosure 2 is included in subsequent paragraphs. It is considered that the presentation of this assembled program will offer an opportunity for a timely review of Chemical Corps research and development activity as stipulated by reference d. and, likewise, will provide an opportunity for re-examination of all priorities and security classifications previously approved. With this

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[REDACTED]

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GROUP 4
DOWNGRADED AT 3 YEAR INTERVALS;
DECLASSIFIED AFTER 12 YEARS
DOD DIR 5200.10

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~~SECRET~~

Funds Allocated: \$10,000
Priority: 2-A

G-SERIES

B 10.5 MUNITIONS FOR GA FILLINGS

(b)(2) HIGH

(2) high

Exploratory phases of the study of GA will be made with standard munitions, followed in turn by modified standard and finally with the development of new munitions and methods of dispersion. This development will result in end items of such superiority as to justify complete replacement of all existing items.

b. Brief History. The study of GA at Edgewood Arsenal has been confined largely to the laboratory. This has included an investigation of its chemical and physical properties, of protective agents and methods of decontamination, laboratory tests on toxicity methods of analysis, and a study of manufacturing processes. A project specification "A1.13 Agents of the G Series" dated 12 October 1945 was prepared, which had as its principal objective, the investigation of agents of the "G" series in all phases pertaining to their suitability and use in Chemical Warfare. A program of static tests of GA to begin in April 1947 at Edgewood Arsenal, utilizing M70 Bombs, 4.2-in. Chemical Mortar Shell and GA-charged German munitions was submitted 29 January 1947. This had as its object the determination of vapor and liquid concentration and the extent of decomposition of the agent by detonation. To date, no data from any of these tests have been reported. Independent studies have been carried out at Porton Field, England on the results of German equivalent of GA in various munitions, and also at Raubkammer, Germany, by German methods and personnel under the supervision and observation of the British. Sources of information of a pertinent nature from both phases of this work are listed under d. below.

c. 1948 Plan.

- (1) Prepare project specification.
- (2) Continue the development of new and improved methods with special emphasis on air burst, thermal generators and guided missiles at such time as suitable war heads have been developed.
- (3) Conduct field tests to determine drop size and distribution, vapor concentrations, and toxicity effects of the liquid and vapor under a wide range of atmospheric conditions.
- (4) Investigate stability and corrosion effects of GA in filled munitions, protective coatings for munitions and suitable closure devices.
- (5) Keep abreast of new development in field-filling and servicing equipment.

d. References:

Type of Project: Research. Sec. Class. of Project: Secret. Project Established: 1948 Project Program. Project Specification Approved: Not written. Reports: Project A 1.13, Agents of the "G" Series. Porton Reports 2710, parts 1 & 2, and 2747. Porton Programs 34/46 and 42/46. Military Intelligence Report A 5937 CDR.5/IS No. 86, ETF 550G-734, ETF 550G-761, ETF 550G-1066. Research Contracts: None.
Date of Typing: 27 May 1947.