

UNCLASSIFIED APPROVED Report

JUN 16 1949

DEPARTMENT OF THE ARMY
OFFICE OF THE CHIEF, CHEMICAL CORPS
Chemical Corps Technical Committee
Army Chemical Center, Maryland
Classification cancelled or changed to

4-04-15-05
TSE/5190/blac
16 May 1949

CMLWH

SUBJECT: Military Characteristics for 1950 Clusterable G-Series Bomb
by authority of _____
MFC 3

TO: Chairman, Chemical Corps Technical Committee
(Officer Name)

CCTC
ITEM 1993

1. References:

- a. Project 4-04-15-05, Munitions for G-Series Fillings, established 22 Jul 1947.
- b. Chemical Corps Quarterly Technical Progress Report, R&E Div, OCCmC, 1 Apr 1949.
- c. Letter (s), CMLET-M Technical Command, A Cml C, Md. 22 Mar 1949, "Military Requirement and Proposed Military Characteristics for a Chemical Bomb GB Filled", to C-R&E Div, OCCmC.
- d. D/F (s), CMLWR-D, R&E Div, OCCmC, 11 May 1949, "Change in Title for Project 4-04-15-05", to Chm, CCTC.

2. Discussion:

a. Reference a. identifies the currently approved project in the Chemical Corps program which has as its long range objective the development of munitions for G-series agents which will be of such superiority that replacement of existing items will be justified. The more immediate goal of this work is the development of a satisfactory clusterable bomb which may utilize lower members of the series as fillings. Initial work on this project was concerned with preliminary exploration of the efficiency of various munitions with GA using modifications of the standard 115-lb. and 125-lb. gas bombs and the 4.2-inch chemical mortar shell. Subsequent work utilized GB fillings and resulted in development of a 10-lb. clusterable bomb as a suitable vehicle. Field evaluations of these munitions has been accomplished and alternate methods of agent dissemination have been investigated in order to provide most efficient dispersion in aerosol form. More recently 10-lb. bombs employing high explosive bursters have been designed and procured for overall evaluation as components of a 1000-lb. cluster. Project 4-14-15-05 (ref. a.), under which this work is carried out is recommended for continuation in the 1950 project program and proposes completion of the work on the 10-lb. bombs and continuation of research on more efficient agent dissemination. Reference b. summarizes recent detailed progress on this project.

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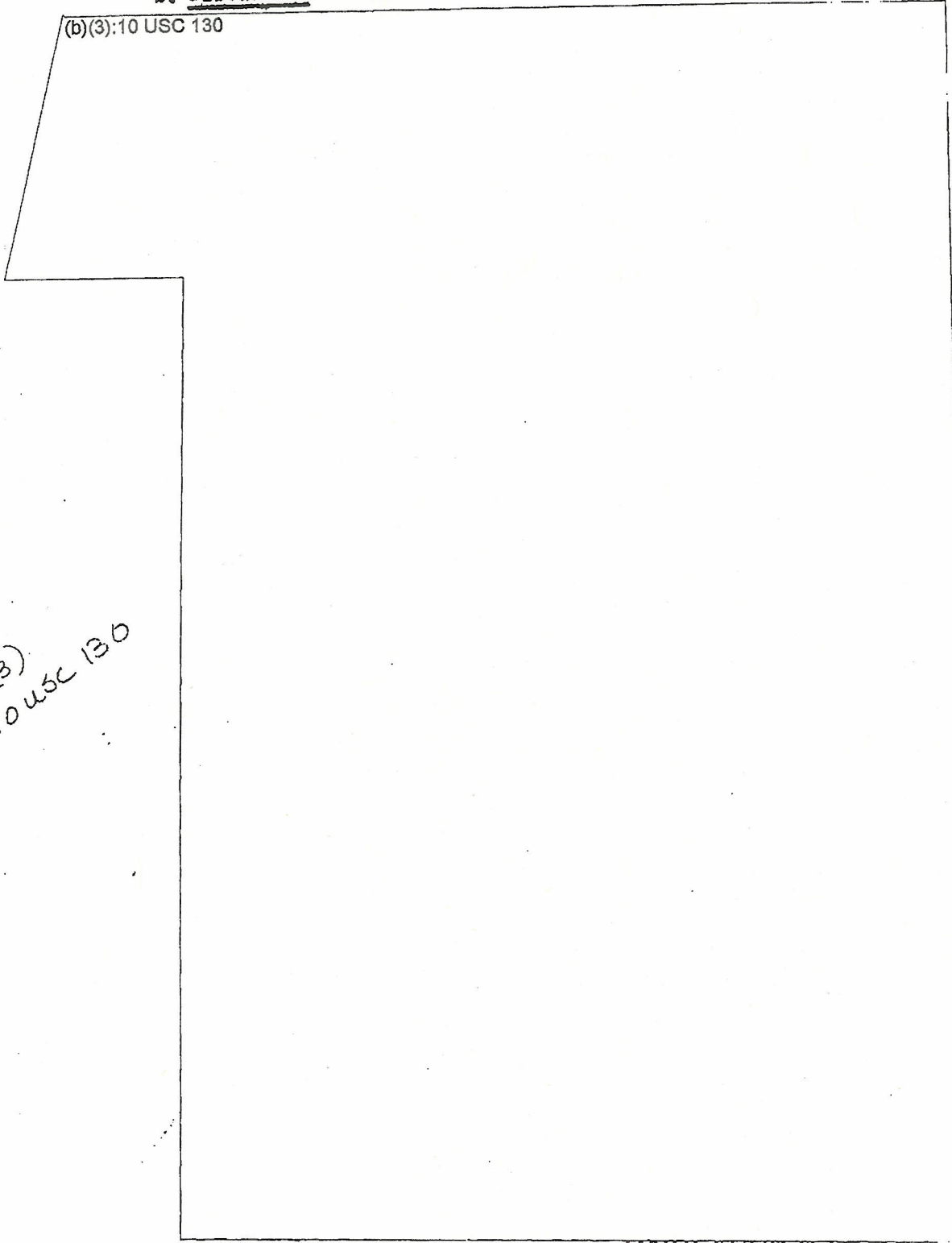
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2. Discussion continued:

(b)(3):10 USC 130



b(3)
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2. Discussion continued:

c. It should be noted that the characteristics listed above do not specify the weight of the agent filling or that of the bomb. These characteristics were purposely left open until further tests now pending indicate the efficiency of current designs of the 10-lb. bomb which carries approximately 3-lbs. of agent. Concurrence of R&E Div, OCCmC and the Chemical Corps Board with the characteristics listed above was indicated in separate correspondence. The latter agency suggested a periodic review of these characteristics in order to incorporate results of additional information which may be obtained relative to effective means of dispersing G-series agents. Reference d. requested appropriate Technical Committee action to approve the subject characteristics.

d. The foregoing discussion summarized briefly the preliminary work and development directed toward utilization of G-series fillings in munitions and indicates that the more immediate effort of project 4-04-15-06 is centered on development of a small bomb that will be satisfactory for use in 1000-lb. clusters. In order that the work on this munition may be placed on a firm basis approval of the characteristics listed herewith together with establishment of the corollary military requirement is recommended.

3. Recommendations:

It is recommended that:

- a. A military requirement for a Clusterable G-Series Bomb be established and so noted in the Book of Standards.
- b. The military characteristics listed in paragraph 2.b. be approved.
- c. These military characteristics serve as a guide for the development of the subject bomb under project 4-04-15-05.

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Concurrence Signatures

/s/ William R. Crook, Maj, USAF
for E. P. Mechling, Col, USAF
Dir of Armament, USAF

/s/ L. M. Johnson, Col, Cml C
Field Chemical Officer

/s/ W.J. Klepinger, Col, GSC
Washington Deputy, AFF

/s/ P.F. Dickens, Jr, Cmdr (MC)
Bu Med & Surg, Navy Dept

/s/ A.L. Russell
for J.J. McGarahan, Cmdr, CEC
Bu Yds & Docks, Navy Dept

/s/ C.H.M. Roberts, Col, Ord
Ordnance Department

/s/ W.J. Corcoran, Lt Cmdr, USN
Bu Ord, Navy Dept

/s/ L.M. Swanson
for T.R. Cooley, Lt Cmdr, USN
Bu Aeronautics, Navy Dept

/s/ L. T. Fleming
for J.M. Kollety, Lt Col, TC
Transportation Corps

/s/ Wilton W. Smith
for P.A. Price
Signal Corps

/s/ C. G. Christie, Capt, USN
Naval Unit, A Cml C, Md.

/s/ H. W. Rowan, Col, Cml C
Cml C Board

/s/ Walter A. Guild, Col, Cml C
PT&I Div, OCCmlC

/s/ T.H. James, Lt Col, Cml C
Inspection Div, OCCmlC

/s/ W. O. Krause, Maj, MSC
Surgeon General's Office

/s/ R. A. Bergseth
E&P Div, OCCmlC

/s/ L. Wilson Greene
for J.A. MacLaughlin, Col, Cml C
Technical Command

/s/ David B. Dill
for J.H. Wood, Col, MC
Medical Division, Cml C

/s/ LeRoy D. Fothergill
for O. Woolpert
Biological Dept, Cml C

/s/ J.M. Gray
PMGO-GMP
(concurrent)
E. L. Claussen
Corps of Engineers

/s/ T. S. Eckert
Secy, CCTC

/s/ William M. Creasy
Colonel, Cml C
Chairman, CCTC

/s/ Noel A Menard
Lt. Col, G.S.C.

ACCEPTED BY THE CHEMICAL
CORPS TECHNICAL COMMITTEE:

APPROVED FOR THE CHIEF,
CHEMICAL CORPS:

APPROVED BY ORDER OF THE SECRETARY
OF THE ARMY, 16 June 1949:

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