

HEADQUARTERS

U. S. ARMY CHEMICAL CORPS RESEARCH AND DEVELOPMENT COMMAND

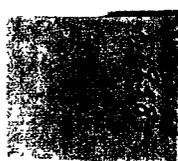
WASHINGTON 25, D. C.

HISTORICAL REPORT

1 JANUARY 1958

to

31 MARCH 1958



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Gladys P. Silber
GLADYS P. SILBER
Historian

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PART I

ADMINISTRATION

A. Mission and Responsibilities.

No change.

B. Acquisition of Physical Facilities.

Room G-528, Building T-7, was allocated to this Headquarters by the Chief Chemical Officer. This room will be occupied by the Long Range Research and Development Plans Office.

C. Organization.

By General Orders Number 1, 3 April 1958, Hq, USA CmlC Research and Development Command, the Process Development and Products Development Divisions were abolished and the Development Division was established.

D. Development of Administrative Procedures.

No change.

PART II

FISCAL

This portion will be submitted by the Chemical Corps Comptroller who renders comptroller support functions to this Headquarters.

PART III

PERSONNEL

A. Key Personnel.

The assignment and transfer of key personnel in Headquarters, U. S. Army Chemical Corps Research and Development Command are as follows:

<u>Effective Date</u>	<u>Name and Status</u>	<u>Authority</u>
1 February 1958	Lt. Col. Lowell E. Thompson, 025252 CmlC, relieved from assignment to Products Development Division and assigned to Process Development Div as Nuclear Effects Engr, MOS 7330	Para 1, SO 10, Hq, USA CmlCRDCOM 28 Jan 58
1 February 1958	Capt. Harold C. Kinne, Jr., 061212 CmlC, relieved from assignment to Products Development Div and assigned to Research Div as Nuclear Effects Engineer, MOS 7330	Para 2, SO 10, Hq, USA CmlC RDCOM 28 Jan 58
10 March 1958	Lt. Col. Timothy C. Williams, 030791 CmlC, assigned to Hq, USACmlCRDCOM in compliance with par 10, SO 42, DACS, and assigned for duty as Executive Officer vice Mr. Wm. F. Hodgkinson	Para 1, SO 22, Hq, USA CmlC RDCOM 10 Mar 58
2 April 1958	Mr. Louis Benjamin designated as Chief, Development Division	Para 2, SO 32, Hq, USA CmlC RDCOM 4 Apr 58
17 April 1958	Colonel Ronald L. Martin, 019428 CmlC, appointed Acting Deputy Commander	Para 1, SO 40, Hq, USA CmlC RDCOM 17 Apr 58
3 April 1958	Lt. Col. Lowell E. Thompson, 025252 CmlC, relieved from assignment to Process Dev Div and assigned to Long Range RD Plans Office as Nuclear Effects Engr, MOS 7330	Para 2, SO 40, Hq, USA CmlC RDCOM 17 Apr 58

B. Personnel Strength.

Authorized - per Military and Civilian Manpower Authorization Voucher No. OCCmlO 58-86, CMLWM-M-30, 27 March 1958
 Military - 7 Civilian - 49

Assigned - Military - 7 Civilian - 43

PART IV

PLANS

A. Plans for Peacetime Establishment.

No change.

B. Mobilization Plans.

No change.

C. Current Planning.

No change.

PART V

OPERATIONS

The major staff actions of Headquarters, U. S. Army Chemical Corps Research and Development Command are attached.

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- 3 Jan 58 Letter to Chief Chemical Officer, Attn: Chief, Program Coordinating
(17-58-S) Office, CMLRD-PD, Subject: "U. S. Army Chemical Corps Program Direc-
(U) tive, FY 1959," referring to paragraph 3 of Inclosure 1 to Disposition
Form, CMLPC, OCCmLO, 12 November 1957, requesting information for in-
clusion as part of the Chemical Corps Operating Program. Letter
furnishes information for the "Controlled Guidance" portion of the
document.
- 3 Jan 58 Comment No. 1 to Chief Chemical Officer, Attn: Comptroller, CMLRD-PE,
Subject: "Planning Outline - 2d Quarter, FY 57, Review of the R&D
Program," submitting topical outline for the 2d Quarterly FY 58 Re-
view and Analysis.
- 6 Jan 58 Comment No. 3 to Chief Chemical Officer, Attn: DCCmLO/SA, CMLRD-EX
(26-58-S) (11 Dec 57), Subject: "Research and Development Requirement for
(U) Dugway Proving Ground," outlining expressed interests of agencies,
other than the Chemical Corps, in the possible utilization of DPG.
Although degree of firmness or commitment of these requirements
varies, all items represent at least a sincere coordinated interest
holding good promise for eventual accomplishment at the USA CmlC PG.
- (S) U. S. Navy - Negotiations concurred in by DA (Comment 1, LOG/F
3 16325, from DCSLOG to CCmLO, 11 Apr 57, Subject: "Terminal Flight
of Regulus II Missile at Dugway Proving Ground (C)") have been com-
pleted for the use of DPG as a flight terminus. Final plan has been
approved by Navy, Chemical Corps and Army Staff, and complete coordi-
nation has been accomplished with responsibilities fully delineated.
Proposed testing is scheduled to commence in September 1958 and will
continue for approximately two years.
- The Navy desires to conduct well instrumented, shorter
range trials overland with the XASM N-8 Air-to-Surface Missile and
is presently looking into the feasibility of using some of the guid-
ance and tracking instrumentation currently planned for the Regulus II
at DPG.
- The Navy is funding \$50,000 initially to the Chemical
Corps to develop a new thin-walled 500-pound toxic massive bomb.
This bomb will have to be field tested at DPG.
- (C) U. S. Army Corps of Engineers - The Corps of Engineers has requested
Chemical Corps Research and Development Command to conduct some de-
contamination studies relative to BW and CW agents on their heavy
duty equipment. It is understood that CofE plans to fund initially
\$25,000 for this proposed project.
- (C) Radiological Utilization of Dugway Proving Ground - C/R&D, DA, has
directed Chemical Corps to investigate feasibility of using waste
fission products or other radioactive material to create a test area
of suitable size for testing of monitoring instruments and techniques.

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Staff study is in process of being submitted to C/R&D. Since this testing area, if established, should logically be made available to other U.S. agencies, planning required knowledge of requirements of these other agencies, therefore, other technical services, AFSWP, Navy and Air Force were contacted to determine if they had a requirement for such a testing area and, if so, what their preliminary test objectives would be. All agencies contacted expressed a great desire to participate in such a testing program.

- 7 Jan 58 Letter to U. S. Regional Organization, APO 230, New York, N.Y., Attn: Production, Procurement and Facilities Assistance Division, CMLRD-D, Subject: "German Detection Equipment," referencing (a) USRO Memo to Hq, USA CmlC RDCOM, D-3-10638/7, 10 Dec 57, Subject: "NATO Group of Experts on Equipment for Protection Against Chemical Warfare;" (b) Letter, CMLRD-D, Hq, USA CmlC RDCOM, to USRO, 2 May 57, Subject: "E28 Detector Kit for NATO Group of Experts on Equipment for Protection Against Chemical Warfare," and (c) Letter, CMLRD, Hq, USA CmlC RDCOM, to USRO, 17 Dec 57, Subject: "Classification of Detector Kit, Chemical Agent, M18 (E28) and Reclassification of M9A2 Kit to Limited Standard." Reference (a) advised that German Detection Equipment would be forwarded to Hq, USA CmlC RDCOM and that the German Delegation requested similar U.S. equipment for testing purposes. German equipment has been received and laboratory tests will be conducted. Copies of report of tests will be furnished through channels. Latest U. S. equipment similar to subject German equipment is the Detector Kit, Chemical Agent, M18. As indicated in reference (b), six E28 kits were forwarded to USRO for distribution to the NATO Group. As stated in reference (c), the E28 kit has been classified as standard type and has been redesignated as the M18 Kit. Action will not be taken at this time to make additional U. S. detection equipment available for tests by the German Delegation.
- 7 Jan 58 Letter to Commanding Officer, U. S. Army Chemical Corps Intelligence Agency, Attn: Chief, Collection and Operations Division, CMLRD-D, Subject: "German Detection Equipment," requesting Agency to conduct laboratory tests on inclosed German Detection Equipment and furnish Hq, USA CmlC RDCOM with copies of a report of these tests.
- 8 Jan 58 Letter to Commanding Officers, U.S. Army Biological Warfare Laboratories, U. S. Army Chemical Warfare Laboratories, and U. S. Army Chemical Corps Proving Ground, CMLRD-PD, Subject: "Chemical Corps Mobilization Program Directive, FY 1958," transmitting subject directive for necessary action in accordance with following implementing instructions. A separate Research and Development Command Mobilization Safety Program 4-G will be published for FY 1958. The Chemical Corps Research and Development Mobilization Program 15 for FY 1958 which is designated as the Command Mobilization Research and Development Program will also be published by Headquarters, USA CmlC RDCOM. Chemical Corps Research and Development Command Planning Program 4-A for FY 1958 contains general guidance on Mobilization Planning; therefore, a separate Mobilization Planning Program 4-A will not be published. All other Chemical Corps Mobilization

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Program Documents are considered applicable to USA CmlC RDCOM and are not planned for further implementation at this level of operation.

Policy of USA CmlC RDCOM is to make maximum utilization of program documents published by higher authority to preclude duplication of programming effort; however, as a minimum, separate Mobilization, Safety, Security, and Research and Development Programs are required for RDCOM installations and activities. Target date for availability of these mobilization programs is 31 May 1958.

10 Jan 58
(C)

Multiple address letter, CMLRD-R, Subject: "BW-CW Agent Effectiveness Group," advising of establishment by agreement with the Air Research and Development Command of USAF, function of group to be the joint evaluation by USAF and Chemical Corps personnel of BW and CW candidate agents for development into Air Force weapons systems. It is expected that group's periodic reviews of the status of candidate agents in research will result in improved information requirements for complete and timely development of agents. Group's activities will assist ARDC in setting up operational support requirements for agents and in other aspects of joint CmlC-~~USAF~~ interests.

Headquarters, ARDC, has appointed following members and alternates to group:

Members

Lt. Colonel V.K. Goodwin	- Headquarters, ARDC
Colonel R.M. Lechausse	- AF Surgeon General's Office
Major E.J. Ainsley	- Headquarters, ARDC
Major D.M. Falk	- Hq, USAF, Directorate of Development
Major J.E. Heatherly	- Air Proving Ground Center
Mr. H. Berzof	- Hq, USAF, Directorate of Requirements
Dr. O.C. Woolpert	- Air Proving Ground Center, TAG Member

Alternates

Dr. Knut Krieger	- ARDC Consultant
Major J.H. Cox, Jr.	- Air Proving Ground Center

Following Chemical Corps personnel appointed as members:

Dr. Carl R. Brewer, Chairman, Hq, USA CmlC RDCOM
Dr. Edwin V. Hill, Member, USA Biological Warfare Laboratories
Dr. Harold N. Glassman, Alternate, USA BWL
Dr. B.L. Harris, Member, USA Chemical Warfare Laboratories
Mr. E.H. Krackow, Alternate, USA CWL
Dr. M.A. Rothenberg, Member, USA CmlC Proving Ground

First meeting of Group will be held in Room 2061, Bldg. T-7, Gravelly Point, 0900, 29 Jan 58.

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- 10 Jan 58
(C) Letter to CO, USA CWL, CMLRD-D, Subject: "Report of Project Nr 2753, Evaluation of Civilian Protective Mask, E52R26 (U)," directing that no work be done on an Expendable Field Protective Mask by CWL until further advised by Hq, USA CmlC RDCOM.
- 10 Jan 58
(C) 1st Indorsement to Chief Chemical Officer, Attn: ACCm10/P&D, CMLRD-D (31 Dec 57), referring to inclosure to basic letter in which CG, US CONARC indicated that there is a requirement for an expendable canisterless mask suitable for Army use under field conditions and, also, that while the E52R26 mask does not meet present military requirements for a field protective mask, the advantages of a disposable mask of a similar design appear to warrant further CmlC study.
- Indorsement requests that Hq, USA CmlCRDCOM be advised as to whether or not there is a firm Army requirement for development of an Expendable Field Protective Mask, and advises that action to implement the US CONARC recommendations contained in inclosure will be held in abeyance pending further advice from OCCm10. If it is determined that there is a firm Army requirement for an Expendable Field Protective Mask, request is made that military characteristics for item be processed for approval by CCTC.
- 14 Jan 58 1st Indorsement to Chief Chemical Officer, Attn: DCCm10/SA, CMLRD-D (12 Dec 57), SUBJECT: "Disperser, Irritant Gas, Helicopter-Mounted, E16 (U), advising that development of subject item has been reactivated.
- 14 Jan 58 Letter to The Provost Marshal General, DA, CMLRD-D, Subject: "Disperser, Irritant Gas, Helicopter-Mounted, E16 (U)," referring to Chemical Corps Technical Committee meeting of 12 December 1957, in which PMG representative requested Chemical Corps to reactivate development of subject item in FY 58 if possible and, if not possible, reactivate in FY 59. Letter advises that development has been reactivated and \$10,000 of FY 58 funds have been reprogrammed for this work.
- 15 Jan 58 Letter to Commanding General, U.S. Army Chemical Center and CmlC Materiel Command, CMLRD-E, Subject: "RDCOM Regulation Nr. 10-1, "Research and Development," requesting that communications pertaining to Industrial Preparedness Measures which apply to USA CmlC RDCOM be directed to CO, USA CmlC RDCOM, Attn: Chief, Process Development Division.
- 15 Jan 58 Letter to CO, USA CWL and CO, USA BWL, CMLRD-E, Subject: "RDCOM Regulation Nr. 10-1, "Research and Development," directing that all communications pertaining to the Industrial Preparedness Measures be directed to Hq, USA CmlC RDCOM, Attn: Chief, Process Development Division.
- 15 Jan 58 Letter to Chief, Research and Development, CMLRD-PE, Subject: "Research and Development Project Status Statement (Report Control Symbol CSCRD-3)(U), submitting statement for quarterly calendar period ending 31 December 1957, in accordance with DA Memorandum No. 705-2 dated November 1957.

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15 Jan 58
(72-58-S)
(UWS)

Letter to CO, USA CML, CMLRD-D, Subject: "Requirement for HONEST JOHN Test Flight with Chemical Warheads (U)," referring to letter, CMLRD-D, Hq, USA CmlC RDCOM, to Chief of Research and Development, DA, 10 Jul 57, same subject (CmlC Control Nr. 1979-57-S), and transmitting copy of letter, 9 Jan 58, CRD/1 58 (S), OC/R&D, DA, approving our request for 11 M31A1C HONEST JOHN rockets.

Letter authorizes direct communication with cognizant Ordnance installation.

Hq, USA CmlCRDCOM has initiated action to obtain the required number of XM 50 rockets and will advise C/R&D of approximate dates rocket will be required.

16 Jan 58
(140-58-S)
(S)

Letter from Chief Chemical Officer to Deputy Chief of Staff for Logistics, CMLRD-PD, Subject: "Urgent Requirement for FY 1958 P&P,A Funds (U)," listing items that must be procured immediately in order to achieve the urgent need for a V-Agent capability in 1960, and requesting additional P&P,A funds in amount of \$885,000.

17 Jan 58

Letter from Louis Benjamin, U.S. Representative on NATO Group of Experts on Equipment for Protection against Chemical Warfare, to Administrator, Federal Civil Defense Administration, National Headquarters, Battle Creek, Michigan, Attn: Dr. Francis B. Stewart, advising that Chemical Corps is currently developing the E3R5 Infant Protector and the CD V-805 Civilian Protective Mask (Chemical Corps designation E52R26) for FCDA and that CmlC has procured approximately 43,000 CD V-800 masks for FCDA; this mask was recently type classified by the CCTC as standard and designated the M16 Noncombat Mask. Letter transmits copies of descriptions of these items which are proposed for transmittal through channels to the NATO Group and requests comments and/or concurrence on release of this information to NATO.

20 Jan 58
(153-58-S)
UWS

Letter to Deputy Chief of Staff for Logistics, DA, CMLRD-PE, Subject: "Army Research and Development Quarterly Progress Report (RCS CSCRD-8) (U)," transmitting copy of subject report covering second quarter, FY 58.

20 Jan 58
(153-58-S)
UWS

Letter to Chief, Research and Development, DA, CMLRD-PE, Subject: "Army Research and Development Quarterly Progress Report (RCS CSCRD-8) (U)," transmitting four copies of subject report covering second quarter, FY 58, in accordance with AR 335-102 dated 27 July 1956.

20 Jan 58

Letter to CO, USA CCPG and USA BWL, CMLRD-EX, Subject: "Temporary Duty Travel to Overseas Theaters and Foreign Countries," referencing para 6 of CCR 55-5, 17 Jul 57 which sets forth procedure for submission of requests for authorization of temporary duty travel, and directing that, effective immediately, all requests for both military and civilian temporary duty travel outside CONUS be submitted in quintuplicate to the CO, USA CmlCRDCOM, Attn: Executive Officer, including all information as described in para 6b of CCR 55-5. Approved requests will be submitted in accordance with para 6a of CCR 55-5 by the Executive Officer, Hq, USA CmlCRDCOM to CCM10.

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21 Jan 58
(C)

Letter to CO, USA CWL, CMLRD-D, Subject: "4.2-inch Mortar Ammunition (U)," transmitting copy of DF from OC/R&D, DA, to CofO, DA, GRD/D 14445, 23 Dec 57, above subject. It is informally understood that OCO will resist further development of the 4.2-inch GB Mortar round; however, Ordnance must coordinate their reply to C/R&D with CmlC prior to submission of the reply.

Letter requests CWL to review past effort by CmlC in development of the 4.2-inch GB round and prepare cost and time estimates through final engineering for subject round and prepare a defense for the action anticipated from the Ordnance Corps. No further action will be required from CWL until Ordnance Corps' course of action becomes known formally.

21 Jan 58
(C)

Memorandum for Chief, Products Development Division, prepared by Mr. J. Rex Pimlott, Deputy Chief, Products Development Division, Subject: "Report of Visit to Flettner Aircraft Corporation," reporting on 3 Jan 58 visit to Flettner Aircraft Corporation, New York, N.Y., by Mr. Pimlott and Captain Jon Sugrue, USA CWL, for the purpose of further examining the capabilities of this company to undertake an R&D contract on self-dispersing shapes.

Mr. Flettner suggested that a contract consisting of feasibility studies for Phase I and prototype testing in Phase II would be a good way to spread the costs in the present fiscal year. Mr. Pimlott recommends that Mr. Flettner be given such a contract with Phase I for feasibility studies in FY 58 with Part A for CW and Part B for BW. If his results are favorable, Phase II for construction and testing of prototypes would be let in FY 59.

23 Jan 58
(199-58-S)
(U)

Letter to Chief, Research and Development, DA, CMLRD-PE, Subject: "Second Quarter FY 1958 Presentation to R&D Program Director on Program Execution by the Technical Services," submitting three copies of narrative portion and related charts.

23 Jan 58
(C)

Letter to Chief Chemical Officer, Attn: ACCmLO/P&D, CMLRD-PD, Subject: "Proposed Alternate Headquarters Sites," recommending the following sites for CmlC Research and Development Command activities:

<u>Activity</u>	<u>Proposed Alternate Site</u>
a. U.S. Army Biological Warfare Laboratories	U.S. Army CmlC Proving Ground, DPG, Dugway, Utah
b. U.S. Army Chemical Warfare Laboratories	U.S. Army CmlC Proving Ground, DPG, Dugway, Utah
c. U.S. Army CmlC Proving Ground, DPG	Fort Detrick, Frederick, Maryland

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23 Jan 58
(C)

Multiple address letter to CO, USA CWL and USA CmlC PG, CMLRD-PE, Subject: "Official Type Classification Target Dates for V-Agent Munitions," requesting that program and all operating schedules and supporting documents be adjusted to reflect following target dates for type classification of following V-agent munitions:

- Shell, 155mm Howitzer - 3d Qtr FY 1959
- Shell, 8" Howitzer - 3d Qtr FY 1959
- Chemical Land Mine, E5 - 3d Qtr FY 1959
- Rocket, Optimum Area, T-238 - 2d Qtr FY 1960 (w/o VT Fuze)
- V-Warhead, Improved HONEST JOHN - 3d Qtr FY 1960
- V-Warhead, Optimum LITTLE JOHN - 4th Qtr FY 1960
- V-Warhead, SERGEANT - 2d Qtr FY 1962

24 Jan 58
(U)

Letter to Secretariat, 12th Tripartite Conference, U.S. Army Chemical Center, CMLRD-PD, Subject: "Twelfth Tripartite Conference Draft Report," concurring in draft.

24 Jan 58
(3509-57-S)
(S)

1st Indorsement to CO, USA BWL, CMLRD-FM (23 Dec 57), Subject: "Alternate BW Seed Repository (U)," referencing letter, 14 Oct 57, CMLRD-E, to CO, USA BWL, same subject. Indorsement approves BWL's plan for setting up subject repository at Fort McClellan, Dugway Proving Ground, and Rocky Mountain Arsenal and advises that \$5,000 will be issued to BWL for this purpose.

27 Jan 58
(U)

Multiple address letter to CO, USA BWL, CWL and CmlC PG, CMLRD-PD, Subject: "Chemical Corps Research and Development Command Program Directive, FY 1959," referencing (a) AR 11-1, 31 Dec 56; (b) CmlC Program Directive, FY 1959, 12 Nov 57, and (c) CmlC Operating Program, FY 1959, when published). Reference b contains instructions for preparation of the Chemical Corps FY 1959. Each Chemical Corps Research and Development Command installation and activity will publish an Operating Program, FY 1959, utilizing same format as contained in Inclosure 3 to reference b. Maximum utilization will be made of programs published by higher authority by citing references to the Chemical Corps and/or Command program documents wherever appropriate. RDCOM installation and activity commanders are responsible for determining the adequacy of such programs for their respective organizations in accordance with existing guidance and for promulgating necessary information where existing programs are found inadequate. As a minimum, installation and activity operating programs will be supplemented by an R&D annex, published separately. Other annexes may be published as required at the discretion of field commanders.

27 Jan 58
(C)

Letter to Chief Chemical Officer, Attn: DCCm10/SA, CMLRD-D, Subject: "Proposed CmlC RDCOM Technical Symposium VIII (U)," advising that RDCOM proposes holding a technical symposium on the topic of "Dissemination of Toxicological Agents from Aerial Line Sources," on 4, 5 and 6 March 1958, at U. S. Army Chemical Warfare Laboratories, invitation list to consist of Chemical Corps personnel, representatives from the U. S. Air Force and U. S. Navy, and Chemical Corps contractors who have a need to know., anticipated attendance 100. This symposium will be the eighth of a series on research and development sponsored by the Chemical Corps, the preceding seven also having been conducted by USA CWL.

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28 Jan 58 Comment No. 1 to Chief Chemical Officer, Attn: Comptroller, (CMLRD-PE),
(288-58-S) Subject: "Publication Data-Review of Chemical Corps Programs, 2d
(U) Quarter, FY 1958," transmitting information for classified quarterly
publication.

29 Jan 58 Letter to Chief, Bureau of Aeronautics, Department of the Navy, Attn:
(C) AV 34-1, CMLRD-D, Subject: "Aerial Disseminating Equipment (U),"
advising that CmlC is contemplating program in field of dissemination
of BW and CW agents from aerial spray delivery systems. In order to
establish basic parameters governing mechanism of such dissemination
systems, a field-testing program is considered first essential step.
In the past, Navy showed interest in this delivery method and sponsored
development of several types of aerial spray tanks. Letter requests
that, if Navy has any aero-series spray tanks not in service, they be
provided CmlC on a loan or non-reimbursable basis for use during early
phases of a field test program at U.S. Army CmlC Proving Ground during
forthcoming fiscal year.

Memo for Record - Informal coordination with Mr. Emshwiller of BuAer
indicated that Navy has 2 aero 2a, 1 aero 1a, 6 aero 14a, and 1 aero
14b spray tanks and he felt Navy would be agreeable to overhauling
these and giving them to us on a permanent loan basis.

29 Jan 58 Letter to Commanding General, U. S. Army Signal Corps Engineering
Laboratories, Fort Monmouth, New Jersey, Attn: Chairman, Signal
Corps Technical Committee, CMLRD-EX, Subject: "Signal Corps Tech-
nical Committee Representation," referring to D/F from Secretary,
Signal Corps Technical Committee to the Commanding Officer, USA CWL,
SIGFM/EL-IR (SCTC), same subject, and advising that U. S. Army CmlC
RDCOM representation on subject Committee is as follows:- Mr. J.
Rex Pimlott - Member, and Mr. Joseph Lindwarm - Alternate.

29 Jan 58 Letter to Chief of Ordnance, CMLRD-D, Subject: "Optimum LITTLE JOHN
(328-58-S) and Improved HONEST JOHN Warhead Programs (U)," referring to letter
(U) from Chief of Research and Development, DA, to USA CmlC RDCOM,
CRD/I 58 (S), 9 Jan 58, Subject: "Requirement for HONEST JOHN Test
Flights with Chemical Warheads (U)." CmlC capability for meeting
schedules established for Optimum LITTLE JOHN and Improved HONEST
JOHN CW Warhead Programs is contingent on availability of rockets
and flights of warhead-rocket combinations.

(S) Letter requests that Improved HONEST JOHN rockets and rocket-flights
be allocated and scheduled to CmlC as follows:- 2 rockets and flights
in July 1958 and 2 in September 1958 - R&D Phase; 2 rockets and
flights in Feb, Apr and Jun 1959 - Engineering Phase. Ten additional
rockets and flights are required for user test phase beginning in
July 1959 - schedule is not firm. Request is made for the following
Optimum LITTLE JOHN rockets and rocket-flights:- 2 each in Aug and
Sep 1958 - R&D Phase. An additional 36 rockets and flights are re-
quired to complete development through user test.

29 Jan 58 Letter to Chief of Research and Development, CMLRD-D, Subject: "Opti-
(328-58-S) mum LITTLE JOHN and Improved HONEST JOHN Warhead Programs (U),"

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referring to C/R&D letter to USA CmlCRDCOM, CRD/I 58(S), 9 Jan 58, Subject: "Requirement for HONEST JOHN Test Flights with Chemical Warheads (U)," and furnishing information contained in preceding letter to Chief of Ordnance dated 29 Jan 58 (page 14).

- (S) In the past, Ordnance has procured and supplied the rocket (less warhead) to the CmlC without reimbursement and has scheduled the flight tests for the chemical warhead. CmlC has provided warhead and borne test flight expense. Due to industrial funding procedures employed by Ordnance, it is doubtful that this practice can be continued. Request is made for establishment of firm policy concerning procurement, supply and scheduling of subject rockets.

31 Jan 58 Letter to U. S. Regional Organization, APO 230, New York, N.Y., (U) Attn: Production, Procurement and Facilities Assistance Division, CMLRD-D, Subject: "Information for Transmittal to NATO Group of Experts on Equipment for Protection Against Chemical Warfare," forwarding 35 copies of description of the E3R5 Infant Protector and E52R26 Civilian Protective Mask which the Chemical Corps is currently developing for the Federal Civil Defense Administration. The Chemical Corps Technical Committee recently type classified as standard Noncombat Protective Mask, M16 for use by FCDA and CmlC has procured approximately 43,000 for FCDA. Letter transmits 35 copies of a description of this mask. Copies of descriptions of above items have been forwarded to Dr. Robert L. Smith, Asst. Admr. for Health and Medicine, FCDA, who will forward these to the NATO Medical Civil Defense Committee.

4 Feb 58 Letter to Chief of Research and Development, DA, CMLRD-PD, Subject: (333-58-S) "Operations Research Office Technical Memorandum (ORO-T-367), 'Military Worth of Anti-Grain and Anti-Animal Biological Warfare...' (C)," (C) referencing (a) letter, CMLRD-P, OCCm10, 12 Sep 57, same subject, (CmlC 2602-57-S), and (b) Confidential letter, CRD/E 10402, C/R&D, DA, to CCm10, 31 Oct 57, above subject. (Letter signed by CCm10.)

- (S) Subject report was referred to a group of recognized outstanding experts in plant pathology and allied sciences for a critical review and, based upon attached comments of the experts (made up of a group of distinguished senior scientists and department heads of such leading universities as Cornell, Michigan, Stanford and Minnesota, as well as a senior representative of the U.S. Department of Agriculture), CCm10 strongly reiterates objection to subject report as outlined in reference (a) and again recommends report be withheld from publication, because, in the hands of those not cognizant of the serious objections to the validity of the conclusions and recommendations raised by competent authorities, this would have an adverse and unwarranted effect on the 58 evaluation in the anticrop area.

- (S) Letter quotes Recommendation Nr, 5 of the Twelfth Tripartite Conference on Toxicological Warfare:- "It is strongly recommended that U.S. should reconsider the decision to cancel all work in the crop field."

Memo for Record - Reference (a) recommended (1) subject report be withdrawn and not utilized and (2) that it be referred to a qualified

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objective reviewing body to determine validity of its conclusions and recommendations. Reference (b) requested CmlC to furnish copies of expert opinion used as basis of recommendations made in reference (a) and indicated that upon receipt of requested material the C/R&D would (1) make these comments available to ORO in order to provide opportunity for comment or rebuttal and (2) should it be required, request the Chairman, Army Scientific Advisory Panel to designate a qualified group to appraise validity of the subject report. Coordinated with Executive Officer, DCCmLO/SA and ACCmLO/P&D of OCCmLO; CO, DC/SA and PCO of BWL, and with DC/SA, Products Dev., Process Dev., Research and Plans and Programs Divisions, Hq, USACmLCRDCOM.

- 6 Feb 58 Letter from Carl R. Brewer, Chemical Corps Member, to the Executive Secretary, Armed Forces Pest Control Board, Forest Glen Section, Walter Reed Army Medical Center, CMLRD-R, advising that, in compliance with AFPCB policy - that each technical service be represented by a member and only one alternate, the CmlC alternate member of this Board will be Dr. Dale W. Jenkins, U.S. Army Biological Warfare Laboratories.
- 7 Feb 58 3d Indorsement to CO, USA CWL, CMLRD-D (25 Nov 57), Subject: "Collective Protection for Guided Missile Vans (U)," giving following specific (C) guidance on collective protection for missile vans:- a. No work will be done on AN/MTQ-1 and CORPORAL; b. Work on NIKE-AJAX will be logically phased out and work on NIKE-HERCULES begun as soon as possible; c. NIKE-HERCULES efforts will be limited to the battery, radar and launching control vans; d. Work on battery control vans of Field Army version of HAWK will be continued; e. Work on AN/GSS-1 will be phased into program in accordance with staff priorities and availability of funds; f. No work will be done on MISSILE MONITOR pending completion of study mentioned in paragraph 4 below, and g. In view of low priority of SERGEANT and the possibility that the collective protection requirement may be terminated, no work on this item will be done in FY 58 and FY 59.

Letter requests that study be prepared and forwarded to Hq, USA CmlC RDCOM by 4 April 58, to include following:- a. Extent to which present and past efforts on collective protection for NIKE-AJAX are applicable to HERCULES system; b. A time-phased program for development of NIKE-HERCULES through type classification in the most expeditious manner consistent with current and programmed funding and the user's need for the item, c. Plan for phasing out of NIKE-AJAX.

Letter also requests study be prepared and forwarded to Hq, USA CmlC RDCOM by 15 May 58, to include following:- a. Recommendations as to which vans of the MISSILE MONITOR will require collective protection and proposed category of protection; b. Estimate of time and funds required to develop above protection through type classification in the most expeditious manner consistent with current and programmed funding and the user's need for the item. A time-phased program for development of AN/GSS-1 and HAWK through type classification consistent with current and programmed funding and the user's need for the items is likewise requested by 15 May 1958.

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7 Feb 58 Letter to Chairman, Chemical Corps Technical Committee, CMLRD-D, Subject: Collective Protection for Guided Missile Vans (U)," referring to letter, CMLRD-D, 25 Nov 57, Hq, USA CmlC RDCOM to C/R&D, DA through CCmlO, with two indorsements. 1st Indorsement listed current requirements, in order of priority, for collective protection for guided missile vans.

Letter requests that above inclosed correspondence be "Read for Record" at the next CCTC meeting.

7 Feb 58 Letter to Chief of Engineers, Chief Signal Officer and Chief of Ordnance, CMLRD-D, same subject, transmitting copy of 25 Nov 57 letter with two indorsements and requesting that this correspondence be duly recorded by the technical committee of each addressee.

7 Feb 58 Letter to C/R&D, DA, CMLRD-PD, Subject: "Urgent Requirement for FY (374-58-S) 1958 P&P,A Funds (U)," signed by CCmlO, referencing (a) Letter, CMLRD-PL (C) OCCmlO, to DCSLOG, 16 Jan 58, same subject (140-58-S), requesting additional P&P,A funds to be used for immediate procurement of engineering test items in support of the CmlC V-Agent Program, and (b) AR 701-1340, 18 Feb 57, which assigned responsibility for the research and development of gas and incendiary rockets to the CmlC effective 1 Oct 57.

(S) Items a, b and c below represent user test requirements in support of accelerated V-agent development program; remaining items, which were originally programmed for FY 1959, are also required for immediate procurement in order that these may be type classified in FY 1960:

	<u>Nr. Items</u>	<u>Cost</u>
a. Filling operation and shell modification, 155mm, VX Agent	UT 2000	140M
b. Filling operation and Shell, 8-inch, VX Agent	UT 2500	312M
c. Rocket, T-238, CW Agent	UT 4000	910M
d. Disperser, Irritant Gas, Helicopter-mounted, EL6	ET/UT 4	22M
e. Rocket, Incendiary, EL2R1	ET 1000	100M
		<u>1,484M</u>

(C) Letter requests this matter be given immediate and favorable consideration and approval and funds in amount of \$1,484,000 be furnished CmlC as rapidly as possible.

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- 10 Feb 58 Letter to Commanding General, Quartermaster Research and Engineering Command, U. S. Army, Natick, Massachusetts, CMLRD-D, Subject: "Breathing Apparatus for Rocket Fuel Handlers Ensemble," advising that 15 protective respiratory devices will be shipped to QREC by USA CWL by 12 Feb 58. This device consists of a commercial back or side-carried acid vapor canister attached to an M9 adapter. This combination represents latest thinking of CmlC concerning a respiratory protection device for use with the proposed limited protection guided missile propellant handler's ensemble, in view of expected military requirement that the device must function at -40°F without fogging of the eyepieces.
- 13 Feb 58 Letter to CO's, USA CmlCPG, USA BWL and USA CWL, CMLRD-D, Subject: "Implementation of CCTC Actions," referencing (a) Confidential Minutes of Meeting Nr. 2, 1957, of CCTC Items 3311-3390 and 3304 and (b) Secret Supplement to Meeting Nr. 2, 1957, of CCTC Items 3358-3363, 337L, 3379, 3386 and 3387, and directing implementation by each addressee as indicated in inclosure.
- 14 Feb 58 Letter to Commanding General, Redstone Arsenal, Attn: ORDDW-3MS 471.9 (SERGEANT), CMLRD-D, Subject: "SERGEANT Steering Committee," referring to Redstone's letter to USA CWL, 17 Jan 58, same file and subject, and concurring in establishment of a Steering Committee for the purposes indicated, with membership as follows: Member - Mr. Harley H. Hood, Hq, USA CmlC RDCOM; Observers - Mr. Joseph P. Sansonetti, USA CWL, and Mr. Robert W. Bingham, USA BWL.
- 24 Feb 58 Multiple address letter to CO's, USA CmlCPG, USA BWL and USA CWL, (C) CMLRD-D, Subject: "Aerial Dissemination Equipment (U)," advising that Department of the Navy is loaning following units to the CmlC for use in early phases of a field testing program of aerial spray delivery systems:- 4 Aero 14A Airborne Spray Tanks; 1 Aero 14B Airborne Spray Tank; 4 Aero X1A Airborne Dissemination Units (Dry Weapons), and 2 Aero X2A Airborne Dissemination Units (Dry Weapons).
- 25 Feb 58 Letter to Chief, Bureau of Aeronautics, Attn: Aer-AV-3412-B, CMLRD-D, (C) Subject: "Aerial Dissemination Equipment (U), referring to BuAer letter, Aer-AV-3412B, 11 Feb 58, offering to loan CmlC certain Aero Series Airborne Spray Tanks. Letter requests loan of items enumerated in 24 Feb 58 entry above, to be shipped to CO, USA CmlC PG, DPG.
- 3 Mar 58 Comment No. 1 from Chief Chemical Officer to C/R&D, DA, CMLRD-P, (496-58-S) Subject: "Submission of Chemical Corps Research and Development Budget Execution Plan, FY 59 and Planning Estimates FY 1960, 1961 and 1962 (U)," submitting subject material in accordance with Comment No. 1, CRD/A 50, 8 Jan 58, Subject: "FY 59 R&D Program Directive." Basic BEP was prepared within the R&D control figure of \$33,937,000 stipulated by C/R&D. Additional requirements, totaling \$21,972,000, were included in Supplemental Command Schedules.
- (S) BEP provides for major emphasis on (a) V-agent munitions, in support of an early V-agent capability; (b) Chemical and biological warheads for guided missiles; (c) CW-BW-RW defense; (d) Research, directed towards breakthroughs in new agents and dissemination principles which will lead to major advances in CBR warfare; (e) Exploration of the

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technical feasibility of BW for large area coverage.

- (S) If minimum essential defensive and offensive posture in chemical, biological and radiological (CBR) warfare is to be maintained, control figure of \$33,937,000 for the basic BEP is considered inadequate; therefore, essential work which cannot be accomplished under basic ceiling has been included in supplemental BEP, which represents a carefully planned program necessary for implementation in FY 59 in order to attain readiness position required by FY 1963. Concern is based on current intelligence estimates that USSR has and is further developing a strong offensive capability both with G- and V-agents and is also actively pursuing an extensive BW program. In addition, their recognized atomic capabilities present a serious threat to our defense against radiological hazards.

6 Mar 58 Letter to Chief of Ordnance, Attn: ORDTW, CMLRD-D, Subject: "4.2-Inch Mortar Ammunition," referencing OCO D/F to CCm10, OO/800 2588, 24 Jan 58, same subject, with one inclosure, which referred to D/F from C/R&D, DA, to CofO, OO/7C 18678, CRD/D 14445, 23 Dec 57, same subject, and requested data to reply to C/R&D.

Chemical Corps has completed investigation into practicability of undertaking a development program on a chemical (GB) round for the 4.2-inch mortar and has concluded that such a development, though difficult, is feasible.

Chemical Corps, in coordination with Picatinny Arsenal, has evolved inclosed preliminary phased development plan outlining time and cost estimates for development of a chemical mortar round (GB) and recommends approval of the plan and establishment of project and initiation of development upon receipt of appropriate funds.

14 Mar 58 Letter from Chief Chemical Officer to Chief of Naval Research, CMLRD-R, Subject: "Naval Biological Laboratory," referencing (a) letter, ONR:443, Department of the Navy, 15 Feb 57, which recommended that a separate contract be made between the Chemical Corps and the University of California for work to be done for the CmlC at NBL rather than to transfer funds to ONR for additional support of its contract with the University of California; (b) letter, CMLWS, OCCm10, 5 Mar 57, concurring in this recommendation, and (c) letter, ONR:443, Department of the Navy, 27 Feb 58. Previously CmlC funds were transferred to ONR for support of research desired at NBL in accordance with agreement between CCm10 and Chief of Naval Research. Agreement has been administered in an excellent manner by ONR and has been completely satisfactory to the CmlC Contract and Project Officers. Accordingly, it is requested that concurrence to recommendation contained in reference (a) and concurred in by reference (b) be cancelled and CmlC funds for research at NBL be administered under ONR contract with the University of California as heretofore.

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18 Mar 58 1st Indorsement through Chief Chemical Officer to Commander, Air
(515-58-S) Research and Development Command, CMLRD-D (11 Feb 58), Subject:
(S) "Request for Operational Support Requirement (U)," forwarding
"Information in Support of OSR Reques. for the E120/UL Bomblet
(U)," dated 13 Feb 58, prepared by USA BWL. Information contained
in inclosure fully supports CmlC position that the E120/UL Bomblet
can be developed to meet original military characteristics speci-
fied by ARDC in June 1954. CmlC has successfully defined, and
substantiated by field testing, that the further development of
the E120/UL Bomblet will result in a capability such that: (a)
specified Department of the Air Force objective of infecting 50%
of unprotected personnel within a target area of 15 square miles
by one sortie of a single aircraft will be fulfilled; (b) the
munition will be compatible with the latest high-speed operational
bomber aircraft of the Department of the Air Force; (c) the muni-
tion will have a functioning reliability of at least 85%, and (d)
infectivity of agent UL for man will be established.

(S) Indorsement recommends an operational support requirement for the
E120/UL Bomblet be established by the Department of the Air Force.

18 Mar 58 Letter from CCmlO to C/R&D, CMLRD-PD, Subject: "ORO Technical Memo-
(859-58-S) randum (ORO-T-367) 'Military Worth of Anti-Grain and Anti-Animal
(C) Biological Warfare ...'(C)," referencing (a) letter, CmlRD-P,
OCCmlO, 12 Sep 57, (2602-57-S); (b) Confidential letter, CRD/E
10402, C/R&D, DA, to CCmlO, 31 Oct 57, and (c) letter, CMLRD-PD,
OCCmlO, to C/R&D, 4 Feb 58, same subject, with three inclosures
(333-58-S).

(S) Letter transmits comments on ORO Report by E. C. Stakman who is
internationally recognized as the dean of stem rust epidemiologists.
Dr. Stakman's adverse criticism of the subject report, considering
his outstanding scientific reputation in the field of stem rust
epidemiology, constitutes strong support of CCmlO's position on
this matter and corroborates the opinions of other experts who have
stated their objections to the subject report in reference (c) above.
(Note - Dr. Stakman is affiliated with the Department of Plant
Pathology and Botany, Institute of Agriculture, University of Minne-
sota, St. Paul.)

19 Mar 58 Letter to CO, USA BWL, CMLRD-D, Subject: "Authorization for Off-
(C) Post Field Trials," advising that C/R&D, on 25 Feb 58, granted per-
mission to conduct evaluation field tests of KF with the provision
that no R&D funds were to be used during these field trials.

Memo for Record - Letter from BWL, CMLRD-BW-5, 5 Feb 58, requested
permission to conduct off-post trials to evaluate anticrop chemical
agent on living rice crops in Texas. Since anticrop project has
been closed out of R&D, OCCmlO decided it would be better for them
to request permission of C/R&D as per directive from C/R&D (98-56-TS),
23 Nov 56, Subject: "Biological Warfare (U)."

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21 Mar 58 Letter through Chief Chemical Officer to Chief, Research and Development, CMLRD-R, Subject: "Mutual Weapons Development Program (MWDP) Federal Republic of Germany (U)," referring to Disposition Form, CRD/B 523, 14 Jan 58, same subject. During 4-12 March 1958, a representative of Hq, USA CmlC RDCOM held discussions with the R&D elements of the Federal Ministry of Defense of the German Republic covering proposed German R&D projects in the nuclear field. Discussions revealed several areas in which R&D efforts of FRG could be of significant value to US. Mutual advantage will result from basic research conducted in the university system of the FRG on subjects of mutual interest. US can be of value to FRG by furnishing results of investigations already carried out and guiding their R&D efforts in order to avoid duplication of effort. Testing of German military equipment may well be carried out most advantageously at US testing facilities.

Based on discussions, following Technical Data Exchange Projects appear advisable, pertinent information on which is attached:-

a. Radiation Protection - Basic research project covering laboratory investigations into mechanisms of thermal and nuclear radiation damage. FRG Ministry of Defense has a \$200,000 research contract with University of Gottingen but has little information as to work accomplished in this field. They are considering full investigation of dosimetry in all its aspects which would be of immediate interest to US. DOD agencies involved in similar work include USNRDL, the Radiation Effects Information Center of the USAF, and nearly all Technical Services of the U.S. Army.

b. Testing of FRG Equipment Against the Effects of Nuclear Explosions - Project designed to further development of military equipment designed to withstand effects of nuclear explosions. FRG is concerned with these effects and has requested they be permitted to test their equipment at a US nuclear test. It was pointed out that much preliminary study must be accomplished in a laboratory prior to a full scale test. US can be of significant assistance to FRG by an information exchange in this area and may receive valuable assistance in the laboratory testing of its own equipment when German testing facilities are constructed. It is recommended that permission be obtained for future testing of FRG equipment by FRG personnel at nuclear tests held at Nevada Proving Ground. This could be done at minimum expense and without major changes in test programs if FRG personnel were satellited on existing USA test programs and the FRG equipment were exposed along with previously scheduled U.S. equipment.

It is intended that the Project Officer for these TDEP's accomplish necessary liaison with other governmental agencies as required to insure that US receives maximum benefit from exchange. Following submission or initiation of specific research projects in this field, additional agencies will be included in the TDEP by mutual agreement between US and FRG Project Officers.

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A visit to the US was recommended during the course of the discussions for three individuals in the Federal Ministry of Defense, namely:-
ORR Ludwig Scheichl, Director of ABC Defense Technology, Dr. Walter Dreblow, Radiation Protection Branch, and Dr. Rudolph Schrader, Nuclear Physics Research Branch. German request for this visit is being processed through their attache system. Intent of visit is to furnish FRG with sufficient background in US research efforts to enable them to arrive at specific research proposals dove-tailing with the US effort for our mutual advantage.

Letter recommends (a) that two TDEP's be accomplished between US and FRG as indicated in attached information sheets and (b) that action be initiated by the US Army to obtain required permission for full participation of FRG personnel in testing of FRG equipment at nuclear tests held in CONUS.

- 24 Mar 58 Letter to CO, USA CWL, Attn: Lt. Colonel Robbins, CMLRD-E, Subject:
(738-58-S) "Atomic Delivery System (U)," transmitting copy of Comment No. 1,
(RD) CMLPD-CA, 18 Mar 58, from Chief Chemical Officer to CO, USA CmlCRDCOM,
(C) with inclosure, for necessary action. The Chemical Corps has been assigned responsibility for all thermal effects requirements as well as the nuclear radiation effects requirements. This field (thermal effects) has certain portions which are the responsibility of other technical services but responsibility for the major portions as yet are not an assigned responsibility of any service.
- 26 Mar 58 Letter to Chief Chemical Officer, CMLRD-D, Subject: "Use of DPG by
(C) Guided Missile Training Battalions," regarding visit of Lt. General Eddleman, Deputy Chief of Staff for Military Operations, to U. S. Army Chemical Corps Proving Ground on 1 April 1958 for the purpose of determining the suitability of this facility to support the activities of two guided missile battalions engaged in training purposes, which has created three major questions:- (1) Will this proposed use of DPG be detrimental to primary function of DPG to support the USA CmlC R&D program; (2) Will the CmlC be benefited by accepting this new assignment and (3) can DPG provide for the basing of two guided missile battalions within their present capabilities. Recommendation is made that CCmlO encourage use of DPG for subject purpose, based upon the inclosed analysis.
- 27 Mar 58 Letter to CO, USA BWL, CMLRD-D, Subject: "BW Warhead for the SERGEANT
(937-58-S) Missile," referring to BWL conference on 13 March 58 between BWL representatives and Hq, USA CmlC RDCOM personnel and reconfirming decisions reached as follows:- a. Bomblet of choice for SERGEANT warhead will be 3.4 inch diameter explosive sphere; b. 3.4 inch diameter explosive sphere will be given a new "E" number and will be developed and type-classified separately from the missile and specific agent; c. Emphasis will be placed upon incapacitating agents for Army use, and d. ED phase for development of subject warhead will be completed by 1 July 1959 provided missiles are available for testing starting in August 1958.

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28 Jan 58 Comment No. 1 to Chief Chemical Officer, Attn: Comptroller, (CMLRD-PE),
(288-58-S) Subject: "Publication Data-Review of Chemical Corps Programs, 2d
(U) Quarter, FY 1958," transmitting information for classified quarterly
publication.

29 Jan 58 Letter to Chief, Bureau of Aeronautics, Department of the Navy, Attn:
(C) AV 34-1, CMLRD-D, Subject: "Aerial Disseminating Equipment (U),"
advising that CmlC is contemplating program in field of dissemination
of BW and CW agents from aerial spray delivery systems. In order to
establish basic parameters governing mechanism of such dissemination
systems, a field-testing program is considered first essential step.
In the past, Navy showed interest in this delivery method and sponsored
development of several types of aerial spray tanks. Letter requests
that, if Navy has any aero-series spray tanks not in service, they be
provided CmlC on a loan or non-reimbursable basis for use during early
phases of a field test program at U.S. Army CmlC Proving Ground during
forthcoming fiscal year.

Memo for Record - Informal coordination with Mr. Emshwiller of BuAer
indicated that Navy has 2 aero 2a, 1 aero 1a, 6 aero 14a, and 1 aero
14b spray tanks and he felt Navy would be agreeable to overhauling
these and giving them to us on a permanent loan basis.

29 Jan 58 Letter to Commanding General, U. S. Army Signal Corps Engineering
Laboratories, Fort Monmouth, New Jersey, Attn: Chairman, Signal
Corps Technical Committee, CMLRD-EX, Subject: "Signal Corps Tech-
nical Committee Representation," referring to D/F from Secretary,
Signal Corps Technical Committee to the Commanding Officer, USA CWL,
SIGFM/EL-IR (SCTC), same subject, and advising that U. S. Army CmlC
RDCOM representation on subject Committee is as follows:- Mr. J.
Rex Pimlott - Member, and Mr. Joseph Lindwarm - Alternate.

29 Jan 58 Letter to Chief of Ordnance, CMLRD-D, Subject: "Optimum LITTLE JOHN
(328-58-S) and Improved HONEST JOHN Warhead Programs (U)," referring to letter
(U) from Chief of Research and Development, DA, to USA CmlC RDCOM,
CRD/I 58 (S), 9 Jan 58, Subject: "Requirement for HONEST JOHN Test
Flights with Chemical Warheads (U)." CmlC capability for meeting
schedules established for Optimum LITTLE JOHN and Improved HONEST
JOHN CW Warhead Programs is contingent on availability of rockets
and flights of warhead-rocket combinations.

(S) Letter requests that Improved HONEST JOHN rockets and rocket-flights
be allocated and scheduled to CmlC as follows:- 2 rockets and flights
in July 1958 and 2 in September 1958 - R&D Phase; 2 rockets and
flights in Feb, Apr and Jun 1959 - Engineering Phase. Ten additional
rockets and flights are required for user test phase beginning in
July 1959 - schedule is not firm. Request is made for the following
Optimum LITTLE JOHN rockets and rocket-flights:- 2 each in Aug and
Sep 1958 - R&D Phase. An additional 36 rockets and flights are re-
quired to complete development through user test.

29 Jan 58 Letter to Chief of Research and Development, CMLRD-D, Subject: "Opti-
(328-58-S) mum LITTLE JOHN and Improved HONEST JOHN Warhead Programs (U),"

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