
GAS WARFARE BULLETIN

Issued by

THE DIRECTOR CHEMICAL WARFARE SERVICE, U.S.S. ARMY

A Summary of Information for Gas Officers

L.O. 14

~~CONFIDENTIAL~~

For Official Use Only - Not to be Copied

Classification changed *Cancelled*
to

By Authority of the Chief of Engineers

24 Feb 47
(Date)

wms Jackson L.C.E. / jlh
(Initials)

WASHINGTON

October 23, 1918.

The test paper must be protected from touch and contamination of any kind. It must be handled only by the cork or very carefully by the pasteboard frame.

The moistening of the paper must be as uniform and as light as possible. If drops of liquid fall from the paper, the reactive material is washed off and the paper becomes useless.

The pasteboard border of the test paper remains white and therefore, aids observation of the blackening.

Two or more papers should be exposed at once in different parts of the room, especially in the deeper portions.

The paper serves only for the detection of mine gas; odorous and irritant gases, against which the gas mask offers protection, cannot be detected by this paper.

NAMING OF TRAINING CAMP AT LAKEHURST, N. J.

The Training Camp for the Chemical Warfare Service now under construction at Lakehurst, N. J., is designated Camp Kendrick in honor of Professor Henry L. Kendrick, who served as Professor of Chemistry, Mineralogy and Geology at the U. S. Military Academy from March 3, 1857 until his retirement from active service December 13, 1880.

OFFICIAL INSIGNIA, CHEMICAL WARFARE SERVICE.

The Official Insignia of the Chemical Warfare Service consists of Crossed Retorts superimposed on the Benzene Ring.

SUPPLIES FOR GAS SCHOOLS (Schedule of Nov. 1, 1918.)

1. Supplies for gas training will hereafter be issued according to the following schedule upon requisition by the Chief Gas Officer. No supplies or equipment not listed in the schedule will be furnished unless there is an extremely urgent need for them and they cannot be obtained through local channels. In such cases, the requisition will state full details as to what use will be made of the material and why the present schedule is not considered ample for the needs of the camp:

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SUPPLIES FOR CLASS 1 CAMPS.

I.

UNIT NO.	Initial Issue, to be replaced as needed	QUANTITY.
A - 1	#18 Bare copper wire	1 spool
A - 3	High grade rubber tubing, 1/2" bore.	10 feet.
A - 6	5" Triangular files.	6
A -16	100 c.c. Graduated cylinders	2
A -21	All glass flow meter, calibrated to measure a flow of from 1/2 to 1 cu.ft. chlorine per minute, with scale.	2
A -24	Iron Clamp for chlorine cylinder.	2
A -25	Valve for chlorine cylinder.	2
B - 1	6" Monkey wrench.	1
B - 2	Cutting pliers.	1
B - 5	Talcum Powder	1 pr.
B - 7	Gas Proof curtains, 4 x 7 ft.	1 lb.
B - 8	Alcohol lamp	4
B - 9	Granite Bns, 6" in diam. and 3" deep.	2
B -10	Oiled Cloth gloves.	2
B -11	10" Screw driver.	4 pr.
H - 3	Charts, training.	1
H - 9	Fans, Ayrton flapper.	1 set.
H -11	Funnels, small glass, 50 mm.	12
H -13	Klaxon horn.	2
H -17	Rattles.	1
H -18	Coil wire, duplex insulated, 250 ft.	12
H -36	8 oz. Bottles, Spirits of Ammonia.	1
K - 4	Small Chlorine cylinders, 2" x 12" (empty).	1
K -15	Loading set.	4
K -16	Very Pistol.	1
K -24	#2 Cap crimper.	2
	Brass Connector, for small chlorine cylinder.	1
	Masks, Tissot, American.	1
		5

II.

To be issued upon requisition in not to exceed amounts specified.

A -18	Plasticene.	1/2 pound quarterly.
A -23	300 c.c. Vacuum sample bulbs.	6 per month.
B - 3	Friction tape.	5 rolls " "
D - 1	Cylinders chlorine, each con. 75 lbs.	2 cylinders "
G - 1	Red phosphorus.	11 pounds per month.
G - 2	Ammonium chloride.	50 " " "
H - 4	Gas training paper bombs.	500 " " "
H - 6	Ignition dry cell.	6 quarterly.

H - 7	Detonators - #6 fuse.	250	
H - 8	Detonators - #6 electric, 4 ft. leads	250	per month
H - 10	Firecrackers - 6"	250	" "
H - 12	Fuse	250	" "
H - 14	Parawax.	200	feet " "
K - 12	Gelatine cases #22.	20	pounds quarterly
K - 13	shot gun shells, empty primed 10-gauge, 2 7/8	100	per month
K - 14	Felt wads, 10-gauge.	100	" "
K - 17	Mailing cases #105	50	" "
K - 18	Corks #6	500	Quarterly
K - 19	Le Pages glue.	550	"
K - 20	Litharge.	1/2	pint per month
K - 21	Glycerine.	12 1/2	lbs. quarterly
K - 22	3 Minute yellow smoke pots.	5	pounds "
K - 23	Electric squibs, 4' leads.	100	
H - 19	Antimony penta sulphide.	500	per month
H - 20	Bromacetone.	300	grams quarterly
H - 21	Chloropicrin (sample)	25	pounds per month.
H - 22	Chlorosulphonic acid.	50	c.c. " "
H - 23	Dextrin	500	c.c. " "
H - 24	Dichlorethyl sulphide (sample)	200	grams quarterly
H - 26	Diphenyl arsenious chloride.	50	c.c. per month
H - 27	Mixture, smoke.	50	c.c. " "
H - 28	Mixture - Ignition #1.	8	gallons "
H - 29	Mixture - Ignition #2.	1	quart " "
H - 32	Potassium chlorate.	3	pints " "
H - 33	Stannic Chloride.	800	grams quarterly
H - 34	Trichloromethylchloroformate (sample)	25	pounds per month.
H - 35	Xylol bromide.	50	c.c. " "
	Solid Mustard (with necessary spoon)	50	pounds " "
	Cylinder Phosgene (5 lbs.)	1	can " "
		1	cyl. " "

SUPPLIED FOR CLASS 2 CAMPS.

I

<u>UNIT NO.</u>	Initial Issue, to be replaced as needed	<u>Quantity</u>
A - 16	Graduated cylinders.	2
A - 23	300 c.c. Vacuum sample bulbs.	6
B - 2	Cutting pliers.	1 pr.
B - 5	Talcum powder.	1 lb.
B - 8	Alcohol lamp.	1
B - 9	Granite pans, 6" in diam. and 3" deep.	2
B - 10	Oiled cloth gloves.	2 pr.
B - 11	10" Screw driver.	1
H - 3	Charts, training.	1 set
H - 9	Fans, Ayrton flapper.	6
H - 11	Funnels, small glass.	1
K - 24	#2 Cap crimper.	1
	Masks, Tissot, American.	2

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II

To be issued upon requisition in not to exceed amounts specified.

G - 1	Red Phosphorous.	
H - 4	Gas Training paper bombs.	5 pounds per month
H - 6	Ignition dry cells.	200 " "
H - 7	Detonators - #6 fuse.	6 " "
H - 8	Detonators - #6 electric, 4' leads.	100 quarterly
H - 10	Firecrackers: (8 1/2").	100 per month.
H - 12	Fuse.	200 " "
K - 22	3 Minute yellow smoke pots.	100 feet " "
H - 14	Parawax.	50 " "
H - 19	Antimony penta sulphide.	5 pounds " "
H - 23	Dextrin.	150 grams quarterly
H - 27	Mixture, smoke.	100 " "
H - 28	Mixture - Ignition #1	4 gallons per month.
H - 29	Mixture - Ignition #2	1 pint " "
H - 32	Potassium chlorate.	1 1/2 " " "
H - 33	Stannic chloride.	400 grams quarterly
H - 35	Xylyl bromide.	25 pounds " "
H - 37	Bleaching powder.	25 " per month.
H - 38	Hydrochlorine Acid.	16 " " "
	Samples of gases.	10 litres " "
		25 c.c. " "

SUPPLIES FOR CLASS 3 CAMPS.

I

UNIT NO. Initial Issue, to be replaced as needed

		<u>QUANTITY</u>
A - 16	100 c.c. Graduated cylinders.	1
B - 2	Cutting pliers.	1 pr.
B - 8	Alcohol lamp	2
B - 9	Granite pans, 6" in diam.	1
B - 10	Oiled Cloth gloves.	2 pr.
	Masks, Tissot, American.	2

II

To be issued upon requisition in not to exceed amounts specified.

H - 33	Stannic chlorine.	2 pounds per month
H - 35	Xylyl Bromide	10 " " "
	Sample of gases	25 c.c. " "
H - 37	Bleaching powder.	8 pounds " "
H - 38	Hydrochloric	5 litres " "
	Ammonia water	1/4 pounds " "
	Aromatic Spirits of Ammonia	1/4 pounds " "

2. Respirators will be issued as deemed advisable by this office in conjunction with existing regulations. Respirators issued in this country are for training purposes only and will not accompany troops as part of their equipment unless so authorized by proper authorities. Repair parts and appliances will be furnished as needed.

3. In conjunction with the foregoing schedule of supplies, the camps in the United States have been classified, as follows, the classification being based upon the capacity and the use of the camps on September 1, 1918:

LIST OF CLASS I CAMPS.

Beauregard
Bowie
Cody
Custer
Devens
Dix
Dodge
Fort Sill
Fremont
Funston
Gordon
Grant
Greene
Greenleaf
Hancock
Humphreys, A. A.
Jackson
Johnston, Joseph E.
Kearney
Lee
Lewis
Logan
MacArthur
McClellan
Meade
Pike
Sevier
Shelby
Sheridan
Sherman
Taylor
Travis
Upton
Wadsworth
Wheeler
Southern Department

Alexandria, La.
Fort Worth, Texas.
Deming, New Mexico.
Battle Creek, Mich.
Ayer, Mass.
Wrightstown, N. J.
Des Moines, Iowa.
Fort Sill, Okla.
Palo Alto, Cal.
Kansas.
Atlanta, Ga.
Rockford, Ill.
Charlotte, N. C.
Fort Oglethorpe, Ga.
Augusta, Ga.
Accotink, Va.
Columbia, S. C.
Jacksonville, Fla.
Linda Vista, Cal.
Petersburg, Va.
American Lake, Wash.
Houston, Texas.
Waco, Texas.
Anniston, Ala.
Annapolis Junction, Md.
Little Rock, Ark.
Greenville, S. C.
Hattiesburg, Miss.
Montgomery, Ala.
Chillicothe, Ohio.
Louisville, Ky.
Ft. San Houston, Texas.
Yaphank, New York.
Spartanburg, S. C.
Macon, Ga.
Ft. Sam Houston, Texas.

LIST OF CLASS II CAMPS.

Camp Crane	Allentown, Pa.
Camp Forrest	Chickamauga Park, Ga.
El Paso District-	El Paso, Texas.
Fort Benjamin Harrison	Indiana.
Fort Oglethorpe	Georgia.
Fort Riley	Kansas
Hawaiian Department	D.W.M., San Francisco, Cal.
Panama Canal Department	Hdqrs. Ancon, Panama.
Philippine Islands.	Hdqrs. P. I.
Presidio	San Francisco, Cal.
Tank Service Camp (Camp Colt)	Gettysburg, Pa.
Vancouver Barracks.	Washington.
Coast Defense of Balboa	Fort Grant, Panama.
" " " Baltimore	Fort Howard, Md.
" " " Boston	Fort Warren, Boston, Mass.
" " " Charleston	Fort Moultrie, S. C.
" " " Chesapeake Bay	Fort Monroe, Va.
" " " Columbia	Fort Stevens, Oregon.
" " " Cristobal	Fort De Lesseps, Panama.
" " " the Delaware	Fort Du Pont, Del.
" " " Cape Fear	Fort Caswell, N. C.
" " " Galveston	Fort Crockett, Texas.
" " " Key West, Key West Bks.	Key West, Florida.
" " " Long Island Sound	Ft. N. G. Wright, N. Y.
" " " Los Angeles, Ft. Mac-	
Arthur	Los Angeles, Cal.
" " " Manila and Subic Bays	Fort Mills, P. I.
" " " Mobile	Fort Morgan, Ala.
" " " Narragansett Bay	Fort Adams, R.I.
" " " New Bedford	Fort Rodman, Mass.
" " " New Orleans, Jackson	
Bcks.	New Orleans, La.
" " " Eastern New York.	Fort Totten, N. Y.
" " " Southern New York.	Fort Hamilton, N. Y.
" " " Pensacola, Ft. Barrancas	Pensacola, Florida.
" " " Portsmouth	Ft. Constitution, N. H.
" " " Potomac	Ft. Washington, Md.
" " " Portland, Ft. Williams	Portland, Me.
" " " Puget Sound	Ft. Worden, Wash.
" " " San Diego, Ft. Posestans	San Diego, Cal.
" " " Sandy Hook	Ft. Hancock, H. J.
" " " San Francisco	Ft. Winfield Scott, Cal.
" " " Savannah	Ft. Screvens, Ga.
" " " Tampa, Fort Dade	Tampa, Fla.

LIST OF CLASS III CAMPS.

Holabird	Colgate, Md.
Las Casas	San Juan, Porto Rico.
Meigs	Washington, D.C.
Walter R. Taliaferro	San Diego, Cal.
Fort Crook	Omaha, Neb.
Fort Douglas	Salt Lake City, Utah
Fort Leavenworth	Kansas.
Fort Des Moines	Des Moines, Iowa.
Fort McIntosh	Texas.
Fort MacArthur	San Pedro, Cal.
Fort McPherson	Georgia.
Fort Niagara	New York.
Fort Omaha	Omaha, Neb.
Fort D. A. Russell	Cheyenne, Wyo.
Fort Snelling	Minnesota.
Fort Sheridan	Illinois.
Fort Wayne	Indiana.

4. Small camps and posts in the Southern Department will receive their gas training under the supervision of the Chief Gas Officer, Southern Department, who will issue the necessary supplies and equipment as he deems advisable.

5. All requisitions for supplies and equipment will hereafter be made on W.D., Q.M.C., Form No. 160, with the following modifications:

(a) The requisition will be made in duplicate, both copies being forwarded direct to the Training Division, Chemical Warfare Service, 7th & B Streets, N. W., Washington, D. C., for approval.

(b) The column marked "Estimated Cost" need not be filled in.

(c) The requisition will be signed by the Chief Gas Officer or his authorized supply officer. The quantities approved will be filled in by this office.

6. Any changes in the foregoing schedule of supplies will be published in the bulletin as they are authorized.