DEPARTMENT OF THE ARMY SUPPLY BULLETIN

CAPSULE, CN, PELLET, CN, M2, CN SOLUTION, CNB, CN SOLUTION, CNC, CHEMICAL AGENT, CS1: SERVICEABILITY STANDARD

Headquarters, Department of the Army, Washington, D. C.

11 March 1965

1. Purpose and Scope.

a. *Purpose*. This bulletin supplements SB 3-30 in providing the method for determining the serviceability of Capsule, CN; Pellet, CN, M2; CN Solution, CNB; CN Solution, CNC; and Chemical Agent, CS1.

b. Scope. The provisions of this bulletin are applicable to all elements of the Department of the Army including overseas commands.

2. Basis and Interval of Surveillance.

a. Basis. Conduct surveillance on the basis of depot lots for Capsule, CN and Pellet, CN, M2. Conduct surveillance on the basis of manufacturer's lots for CN Solution, CNB, CN Solution, CNC, and Chemical Agent CS1.

b. Interval. Conduct surveillance for Capsule, CN and Pellet, CN, M2 at intervals not to exceed 2 years. Conduct surveillance for CN Solution, CNB, CN Solution, CNC, and Chemical Agent, CS1 at intervals not to exceed 1 year.

c. Formation of Depot Lots (applicable only to Capsule, CN, and Pellet, CN, M2). Depot lots will be formed provided the following criteria are met:

(1) *Kind and type*. Items must be of the same kind and type.

(2) *Storage*. Items must be stored under similar conditions at the same depot.

(3) *Class*. Items must be of the same class (serviceability known based upon prior surveillance, or serviceability unknown).

d. Reporting Forms. Use DA Form 984 (Materiel Serviceability Report), DA Form 985 (Data Sheet for Grand Lots, Miscellaneous Lots or Depot Lots), and DA Form 988 (Visual Inspection Sheet-Serviceability of Materiel).

3. Sampling.

a. *Capsule, CN and Pellet, CN, M2*. Select sample containers from each depot lot as prescribed in table I.

Table I. Capsule, CN and Pellet, CN, M2.

Lot size	(1)	(2)	(3)	(4)	(5)	(6)	(7)
Up to 50	10	0	2	14	24	2	6
51 to 300	18	1	4	16	34	3	8
301 to 1,000	21	1	4	24	45	4	10
1,001 to 8,200	31	2	6	34	65	6	15
3,201 to 22,000	44	3	9	51	95	9	22
22,001 and over	57	4	12	72	129	12	30

Columns:

(1) First sample size.
(2) Acceptance number-Type I defectives (first sample).
(3) Acceptance number-Type II defects (first sample).
(4) Second sample size.
(5) Combined sample size.
(6) Acceptance-Type I defectives (accumulated from first and second samples).
(7) Acceptance number-Type II defects (accumulated from first and second samples).

(1) The combined sample sizes (column (5)) and the accompanying acceptance numbers (columns (6) and (7)) are to be used when the surveillance interval is exceeded by 25 percent or more, or, when approximate date of last surveillance is unknown. The combined sampling plans may also be used when additional assurance of quality is desired.

(2) In using sampling table, when the number of type I defectives exceeds the acceptance numbers shown in column (2) but does not exceed the acceptance numbers shown in column (6), select a second sample of size indicated in

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column (4). The acceptance numbers shown in column (6) must be used for evaluation in every case when a second ample is selected No second sample is ever selected for type II defects.

b. CN Solution, CNB, CN Solution, CNC, and Chemical Agent, CS1. Select sample containers from each manufacturer's lot as prescribed in table II.

Table II. CN Solution, CNB, CN Solution, CNC, and Chemical Agent, CS1.

Lot size	(1)	(2)	(3)
Up to 100	21	1	3
101 to 500	35	2	5
501 to 1,000	62	4	10
1,001 and over	92	6	14

Columns:

(1) Sample size.
(2) Acceptance number¾ Type I defectives.
(3) Acceptance number¾ Type II defects.

4. Inspection.

a. Capsule, CN and Pellet, CN, and M2. Subject samples selected from each depot lot to the following visual examinations:

Check point	*Type defect*
(1) Label on container(s) missing or illegible	**I**
(2) Advanced rusting or pitting of metal container(s) (More than 25 percent of the exterior surface of container(s) covered with rust or pitted)	**I**
(3) Container(s) damaged, perforated	**I**
(4) Slight rusting of metal container(s) (less than 25 percent of the exterior surfaces of the container(s) showing slight rusting but no pitting	**II**
(5) Corrosion on interior of container body(ies)	**I**
(6) (Applicable only to Capsule, CN) More than five defective capsules due to:	
(a) Perforation	**I**
(b) Damage	**I**
(c) Leaking	**I**
(7) (Applicable only to Pellet, CN, M2) Pellet broken, chipped or powdered	**I**

b. CN Solution, CNB, CN Solution, CNC, and Chemical Agent, CS1.

WARNING

Because of the toxic and lacrimatory effects of the CNB and CNC Solutions inspectors must wear masks and protective gloves while inspecting. There shall be no smoking or open flame in the immediate vicinity.

Subject sample containers selected from each manufacturer's lot to the following visual examination:

Check point	*Type defect*
(1) Advanced rusting or pitting of metal container(s) (more than 25 percent of the surface of container(s) covered with rust or pitted)	**I**
(2) Leaky container(s):	
(a) Perforated	**I**
(b) Closure missing	**I**
(c) Closure damaged	**I**
(d) Closure insecure	**I**
(3) Bulged container	**I**
(4) Lightly rusted or inadequately coated metal container(s) (10 to 25 percent of the surface of container(s) covered with rust) (no pitting)	**II**

NOTE

In the event any special tests are required on Chemical Agent, CS1, notification will be given to the storage facilities.

HAROLD K. JOHNSON,
General, United States Army,
Chief of Staff.

By Order of the Secretary of the Army:

Official:

J. C. LAMBERT,
Major General, United States Army,
The Adjutant General.

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Regt/Gp/bat gp (2)
LOGCOMD (2)
Bn (1)
Instl (2)
Army Dep (5)
Dep (OS) (1)
PMS Sr Div Units (1)
Arsenals (1) except
Edgewood (75)
CBR Arsenals (3)
USAAPSA (60)

Active Army:
NG: **State AG (3); Div (1).**
USAR: **None.**
For explanation of abbreviations used, see AR 320-50.
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The Metric System and Equivalents

Linear Measure

1 centimeter = 10 millimeters = .39 inch
1 decimeter = 10 centimeters = 3.94 inches
1 meter = 10 decimeters = 39.37 inches
1 dekameter = 10 meters = 32.8 feet
1 hectometer = 10 dekameters = 328.08 feet
1 kilometer = 10 hectometers = 3,280.8 feet

Weights

1 centigram = 10 milligrams = .15 grain
1 decigram = 10 centigrams = 1.54 grains
1 gram = 10 decigram = .035 ounce
1 dekagram = 10 grams = .35 ounce
1 hectogram = 10 dekagrams = 3.52 ounces
1 kilogram = 10 hectograms = 2.2 pounds
1 quintal = 100 kilograms = 220.46 pounds
1 metric ton = 10 quintals = 1.1 short tons

Liquid Measure

1 centiliter = 10 milliliters = .34 fl. ounce
1 deciliter = 10 centiliters = 3.38 fl. ounces
1 liter = 10 deciliters = 33.81 fl. ounces
1 dekaliter = 10 liters = 2.64 gallons
1 hectoliter = 10 dekaliters = 26.42 gallons
1 kiloliter = 10 hectoliters = 264.18 gallons

Square Measure

1 sq. centimeter = 100 sq. millimeters = .155 sq. inch
1 sq. decimeter = 100 sq. centimeters = 15.5 sq. inches
1 sq. meter (centare) = 100 sq. decimeters = 10.76 sq. feet
1 sq. dekameter (are) = 100 sq. meters = 1,076.4 sq. feet
1 sq. hectometer (hectare) = 100 sq. dekameters = 2.47 acres
1 sq. kilometer = 100 sq. hectometers = .386 sq. mile

Cubic Measure

1 cu. centimeter = 1000 cu. millimeters = .06 cu. inch
1 cu. decimeter = 1000 cu. centimeters = 61.02 cu. inches
1 cu. meter = 1000 cu. decimeters = 35.31 cu. feet

Approximate Conversion Factors

To change	*To*	*Multiply by*	*To change*	*To*	*Multiply by*
inches	centimeters	2.540	ounce-inches	newton-meters	.007062
feet	meters	.305	centimeters	inches	.394
yards	meters	.914	meters	feet	3.280
miles	kilometers	1.609	meters	yards	1.094
square inches	square centimeters	6.451	kilometers	miles	.621
square feet	square meters	.093	square centimeters	square inches	.155
square yards	square meters	.836	square meters	square feet	10.764
square miles	square kilometers	2.590	square meters	square yards	1.196
acres	square hectometers	.405	square kilometers	square miles	.386
cubic feet	cubic meters	.028	square hectometers	acres	2.471
cubic yards	cubic meters	.765	cubic meters	cubic feet	35.315
fluid ounces	milliliters	29.573	cubic meters	cubic yards	1.308
pints	liters	.473	milliliters	fluid ounces	.034
quarts	liters	.946	liters	pints	2.113
gallons	liters	3.785	liters	quarts	1.057
ounces	grams	28.349	liters	gallons	.264
pounds	kilograms	.454	grams	ounces	.035
short tons	metric tons	.907	kilograms	pounds	2.205
pound-feet	newton-meters	1.365	metric tons	short tons	1.102
pound-inches	newton-meters	.11375			

Temperature (Exact)

^{o}F	Fahrenheit temperature	5/9 (after subtracting 32)	Celsius temperature	^{o}C

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