



## DEPARTMENT OF THE NAVY

NAVAL FACILITIES ENGINEERING COMMAND  
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IN REPLY REFER TO

NAVFACINST 3440.17C  
SR

24 AUG 2000

NAVFACINST 3440.17C

From: Commanding Officer, Naval Facilities Engineering Command

Subj: CHEMICAL, BIOLOGICAL, AND RADIOLOGICAL WARFARE DEFENSE (CBR-D)  
MATERIAL AND EQUIPMENT ALLOWANCE FOR NAVAL SHORE ACTIVITIES

Ref: (a) SECNAVINST S5430.86 (NOTAL)  
(b) OPNAVINST 3400.10F (NOTAL)  
(c) SE700-AA-MAN-100/RADIAC

Encl: (1) Table of Allowance  
(2) Publications required by the Naval Shore Establishment

1. Purpose. To promulgate planning factors for identifying requirements of Chemical, Biological, and Radiological, Warfare Defense (CBR-D) material and equipment and for determining allowances for activities of the Naval Shore establishment.

2. Cancellation. NAVFACINST 3440.17B of 8 May 1995 is cancelled.

3. Background. Reference (a) established guidance for the Department of the Navy regarding the readiness of all shore installations for defense against chemical and biological attack. Reference (b) provided policy regarding the defensive capability to be maintained and assigned responsibilities for OPNAV, SYSCOMS, AND FLTCINCs for Chemical, Biological, and Radiological Defense (CBR-D). The Commander, Naval Facilities Engineering Command is responsible for providing technical management, direction, coordination, assessment, and focus for implementing the CBR-D program (except for detection and measuring of radioactivity) for Naval Shore activities, Naval Beach Groups, and the Naval Construction Force. To facilitate the planning, programming, procurement, and distribution of CBR-D material and equipment, it is necessary that shore activities requirements be identified. Enclosure (1) of this instruction contains Tables of Allowance (TOA) for CBR-D materials and equipment common to Naval Shore activities. Procedures for management of RADIAC equipment are contained in reference (c).

4. Discussion.

a. Determining the optimum quantity and type of material and equipment needed to protect an activity from an unpredictable attack with undetermined agents is not an exact process. The number of personnel assigned, the size and shape of the area occupied, vital areas requiring recovery (decontamination), and the numbers of personnel required to conduct each type of decontamination all affect the determination of the requirements for material and equipment. Allowances are established to ensure adequate requirements for planning, programming, and procurement purposes. Activity specific/unique requirements should be requested from NAVFACENCOM via the appropriate FLTCINC.

b. Table A and B of enclosure (1) lists the individual protective equipment, organizational materials and equipment required by Naval Shore activities. Table C identifies additional items needed by activities, which have a vital function that must be resumed after an attack, and therefore requires immediate recovery (decontamination).

c. Each allowance holder should have qualified personnel to perform life cycle management of the CBR-D equipment. Personnel qualified with NEC 9598 are capable of performing life cycle management of all equipment/material contained in this instruction. Every installation, however small, should have at least one person qualified with NEC 9598. Host commands at installations with over 1,000 assigned to the complex should have a Disaster Preparedness Officer (DPO), NOBC 2715. Installations/complexes with over 3,000 assigned personnel should have a CBR Defense Officer, NOBC 2765, to assist the DPO. There should be one qualified Disaster Preparedness Operations Specialist, NEC 9598, for every 350 military or essential civilian personnel.

d. Enclosure (1) includes a training allowance for peacetime use for training by the host or separate activity, which has been assigned the mission of unit or on-board training. Mobilization equipment may be used in training, provided replacement items are ordered to achieve full inventory levels.

e. Manuals describing the operations and maintenance of allowance items are identified in enclosure (2) with ordering instructions.

f. NAVFACENCOM and FLTCINCs will determine the total quantities of CBR-D equipment and material for designated Naval Shore activities. The Table of Allowance will form the basis for determining deficiencies. Issuance of equipment will be accomplished using priorities established by the FLTCINCs.

5. Action. As stated in paragraph 4.a., individual equipment may lack adequate quantities of required sizes for personnel assigned. To validate the allowance, all personnel should be fitted with a complete allowance of individual protection equipment, and have all items packed into the allowance kit bag. Kit bags should be stored and maintained for rapid issue to the appropriate personnel in the event of threat, contamination, or for training. Deficiencies should be reported in writing to the Seabee Logistics Center, Code 441LWB, 1000 23<sup>rd</sup> Ave., Port Hueneme CA 93043-4410.



J. M. BARRETT  
Director of Seabee Readiness

Distribution: (2 copies each)  
SNDL A3, 21A, 23A1, 23A2, 23C, 24A1, 24D1, 24D2, 26GG, (EODGRU ONE and TWO only), 41A, 41B, 41C, 42A3, FA6, 7, 10, 18, 24, FB6, 7, 13, 28, 30, 31, 48, FC3, 4, 14, FE44, FG2, 5, 6, FKP7, FKR1A, FR3, 4, FT2,20, 28, 31, 45, 78

TABLE OF ALLOWANCE  
PERSONAL SURVIVAL FROM CHEMICAL/BIOLOGICAL ATTACK

<u>TABLE A</u> <u>INDIVIDUAL EQUIPMENT (SURVIVAL)</u>	<u>UNIT OF</u> <u>ISSUE</u>	<u>TRAINING<sup>1</sup></u>	<u>MOBILIZATION ALLOWANCE</u>
1. Kit Bag 8460-00-606-8366	EA	0	1 per individual
2. Mask, Chemical/Biological: MCU-2/P (15%) Small 4240-01-327-4148 (70%) Medium 4240-01-327-4149 (15%) Large 4240-01-327-4150	EA	5%	1 per individual (plus 5%)
3. Trousers, Advanced Chemical Protective Garment PR (Note: Maintain current stocks of CPO suits pending receipt of ACPG) (6%) Small, Short 8415-01-444-1439 (53%) Med., Regular 8415-01-444-2310 (18%) Med., Long 8415-01-444-2308 (15%) Large, Regular 8415-01-444-2325 (8%) Large, Long 8415-01-444-2338		5%	2.25 per individual
4. Coat, Advanced Chemical Protective Garment (Note: Maintain current stocks of CPO suits pending receipt of ACPG) (8%) Small, Short 8415-01-444-1169 (49%) Med., Regular 8415-01-444-1238 (21%) Med., Long 8415-01-444-1249 (12%) Large, Regular 8415-01-444-1265 (10%) Large, Long 8415-01-444-1270	EA	5%	2.25 per individual
5. Glove Set, Chemical Protective (10%) Small 8415-01-033-3517 (70%) Medium 8415-01-033-3518 (15%) Large 8415-01-033-3519 ( 5%) Xlarge 8415-01-033-3520	SE	5%	2 sets per individual
6. Gloves, Cotton Insert 8415-00-782-2809	PR	0	2.5 pair per individual

TABLE OF ALLOWANCE  
PERSONAL SURVIVAL FROM CHEMICAL/BIOLOGICAL ATTACK

TABLE A INDIVIDUAL EQUIPMENT(SURVIVAL), CONT'D	UNIT OF ISSUE	TRAINING <sup>1</sup>	MOBILIZATION ALLOWANCE
7. Overshoes, Chemical Protective ( 6%) Size 7      8430-01-317-3378 ( 7%) Size 8      8430-01-317-3379 (16%) Size 9      8430-01-317-3380 (27%) Size 10     8430-01-317-3381 (22%) Size 11     8430-01-317-3382 (13%) Size 12     8430-01-317-3383 ( 7%) Size 13     8430-01-317-3384 ( 2%) Size 14     8430-01-317-3385	PR	5%	2 per individual
8. Canteen, Water, 1 qt. 8465-01-115-0026	EA	10%	2 per individual
9. Cover, Water, Canteen 8465-00-860-0256	EA	0	2 per individual
10. Belt, Individual (35%) Medium      8465-01-322-1965 (70%) Large        8465-01-322-1966	EA	0	1 per individual
11. Paper, Chemical Agent Detector, M9 6665-01-226-5589	RO	5%	1 per individual (plus 10%)
12. Paper, Chemical Agent, Detector: VGH, ABC-M8      6665-00-050-8529	BK	5%	2 per individual
13. Decontaminating Kit, Skin, M291 (20 kits per box)   6850-01-276-1905	BX	0	1 box per 10 individuals
14. Decontaminating Kit, Personal Equipment, M295 (20 kits per box)   6850-01-357-8456	BX	0	1 box per 20 individuals

TABLE OF ALLOWANCE  
PERSONAL SURVIVAL FROM CHEMICAL/BIOLOGICAL ATTACK

<u>TABLE A</u> <u>INDIVIDUAL EQUIPMENT(SURVIVAL), CONT'D</u>	<u>UNIT OF</u> <u>ISSUE</u>	<u>TRAINING<sup>1</sup></u>	<u>MOBILIZATION ALLOWANCE</u>
15. Atropine, Autoinjector 6505-00-926-9083	EA	0	3-2mg. Injectors per individual
16. Pralidoxime Chloride Injection (2 PAM C1) 6505-01-125-3248	EA	0	3-600 mg. injectors per individual
17. Pyridostigmine Bromide Tablets (NAPP) (10 strips of 21 tabs. per pkg.) 6505-01-178-7903	PG	0	1 package per 10 individuals
18. Diazepam Injector (CANA) 6505-01-274-0951	EA	0	1 per individual
19. Detector, Radiac, Dosimeter DT60PD 6665-00-526-7836	EA	5%	1 per individual

TABLE OF ALLOWANCE  
PERSONAL SURVIVAL FROM CHEMICAL/BIOLOGICAL ATTACK

<u>TABLE B</u> <u>ORGANIZATIONAL EQUIPMENT(SURVIVAL)</u>	<u>UNIT OF</u> <u>ISSUE</u>	<u>TRAINING</u> <sup>1</sup>	<u>MOBILIZATION ALLOWANCE</u> <sup>3</sup>		
			<u>SMALL</u>	<u>MEDIUM</u>	<u>LARGE</u>
1. Alarm, Chemical Agent, Automatic: M22 6665-01-438-6963 (Note: Maintain current stocks of M8A1 Chemical Agent Alarm 6665-01-105-5623 pending Receipt of M22)	EA	0	3	5	8
2. Power Supply, Chemical Agent Automatic Alarm: M28 for M22 ACADA 6130-01-438-6960 (Note: Maintain current stocks of M10A1 Power Supply 6130-01-093-2739 pending receipt of M28)	EA	0	3	5	8
3. Water Testing Kit, Chemical Agents: M272 6665-01-134-0885	EA	2	4	8	12
4. Detector Kit, Chemical Agent: M256A1 6665-01-133-4964	KT	0	2 kits per 12 individuals		
5. Simulator, Detector Tickets, Chemical Agent: Training M256 (TRAINS) 6665-01-293-2149	EA	10	20	40	60
6. Computer Indicator (reader), CP-95/PD2 6665-00-599-6313	EA	2	2	6	10
7. Chemical Agent Monitor (CAM) 6665-01-199-4153	EA	0	2	3	4
8. Portable Collective Protection Shelter, M20A1 4240-01-330-7806	EA	0	1 shelter for every 40 individuals		

TABLE OF ALLOWANCE  
FOR ACTIVITIES WITH MISSION REQUIRING RAPID RECOVERY/DECONTAMINATION

TABLE C ORGANIZATIONAL EQUIPMENT (RECOVERY)	UNIT OF ISSUE	TRAINING <sup>1</sup>	MOBILIZATION ALLOWANCE <sup>3</sup>		
			SMALL	MEDIUM	LARGE
1. Decontaminating Apparatus M17A3, Power Driven, Portable 4230-01-346-3122	EA	1	1	2	2
2. Decontaminating Agent STB (Bleach) 6850-00-297-6653	DR	0	52	104	208
3. Detergent Wetting Agent (Powder) 6850-00-249-8021	DR (175 lbs.)	0	2	4	8
4. Detergent, General Purpose 7930-00-985-6911	CN (5 gal.)	0	15	30	60
5. NBC Marking Set 9905-01-346-4716	EA	1	2	4	8
6. Survey Meter Beta/Gamma Low Range <sup>2</sup> AN/PDR-27R 6665-00-961-0846	EA	2	4	8	16
7. Survey Meter Beta/Gamma High Range <sup>2</sup> AN/PDR-43 6665-00-106-7554	EA	2	4	8	16
8. Dosimeter, Low Dose Indicating IM-9(H) P/D <sup>2</sup> 6665-00-138-7913	EA	10	30	40	50
9. Dosimeter, High Dose Indicating IM-107( ) P/D <sup>2</sup> 6665-00-626-9738	EA	10	30	40	50
10. Charger, Dosimeter PP-4276(C) P/D <sup>2</sup> 6665-00-489-3106	EA	2	2	3	4

- Note: (1) For activities selected by CINCs, PPAs or RPAs to conduct unit or on-board training.  
(2) To be provided by COMNAVSEASYSKOM.  
(3) To determine Activity Size, see below.

	<u>POPULATION</u>	<u>AREA</u>
Small	less than 300	or longer axis less than 1 Km
Medium	between 300 and 3000	or longer axis between 1 & 2 Km
Large	between 3000 and 9000	or longer axis between 2 & 4 Km
Major Complex	greater than 9000	or longer axis greater than 4 Km

In determining the Activity Size to select organizational material and equipment, both population and area occupied must be considered. For activities whose personnel are not uniformly dispersed, the most accurate determination of the needs can best be arrived at by considering the various population centers as separate smaller "activities." Each "population center" in this case should have at least one person trained in the skills identified in NEC 9598.

PUBLICATIONS REQUIRED BY THE NAVAL SHORE ESTABLISHMENT

0N Cognizance Manuals. The following publications can be obtained by submitting funded DD 1348 or DD 1250 forms directly to Commanding Officer, Code 662, Naval Construction Battalion Center, 1000 23<sup>rd</sup> Avenue, Bldg. 1000, Port Hueneme, CA 93043-4410, using Routing Identifier "P96" (cc4-6).

<u>Cognizance/NSN</u>	<u>Army/USAF #</u>	<u>U/I</u>	<u>U/P</u>	<u>Description</u>
0N7610-LL-CBR-0010	FM 3-3	EA	\$10.00	Chemical and Biological Contamination Avoidance
0N7610-LL-CBR-0360	FM 3-3-1	EA	10.00	Nuclear Contamination Avoidance
0N7610-LL-CBR-0020	FM 3-4	EA	10.00	NBC Protection
0N7610-LL-CBR-0370	FM 3-4-1	EA	10.00	Fixed Site Protection
0N7610-LL-CBR-0030	FM 3-5	EA	10.00	NBC Decontamination
0N7610-LL-CBR-0380	FM 3-6	EA	5.00	Field Behavior of NBC Agents
0N7610-LL-CBR-0390	FM 3-7	EA	10.00	NBC Field Handbook
0N7610-LL-CBR-0050	FM 3-9	EA	5.00	Potential Military Chemical/Biological Agents and Compounds
0N7610-LL-CBR-0410	FM 21-26	EA	5.00	Map Reading and Land Navigation
0N7610-LL-CBR-0070	FM 3-100	EA	5.00	Chemical Operations Principles and Fundamentals
0N7610-LL-CBR-0440	FM 100-19	EA	10.00	Domestic Supports Operations
0N7610-LL-CBR-0080	T.O. 14P4-15-1	EA	10.00	Operation and Maintenance Instructions with Illustrated Parts Breakdown, Chemical-Biological Mask, Type MCU-2/P
0N7610-LL-CBR-0190	TM 3-4230-228-10	EA	5.00	Operator's Manual, Decontaminating Apparatus, Power Driven, Lightweight M17 (NSN 4230-01-251-8702)
0N7610-LL-CBR-0200	TM 3-4230-228-23&P	EA	10.00	Unit & Intermediate Direct Support Maintenance Manual (incl Repair Parts And Special Tools List, Decontaminating Apparatus, Power Driven, Lightweight, M17 (NSN 4230-01-346-3122)
0N7610-LL-CBR-0220	TM 3-4240-288-12&P	EA	5.00	Operator's & Unit Maintenance Manual (incl Repair Parts & Special Tools List, Collective Protection Equipment, NBC, Simplified: M20 (NSN 4240-01-166-2254)
0N7610-LL-CBR-0250	TM 3-6665-307-10	EA	2.50	Operator's Manual, Chemical Agent Detector Kit, M256 (NSN 6665-01-016-8399) And M256A1 (NSN 6665-01-133-4964)
0N7610-LL-CBR-0260	TM 3-6665-311-10	EA	2.50	Operator's Manual, Paper, Chemical Agent Detector M9 (NSN 6665-01-226-5589)

<u>Cognizance/NSN</u>	<u>Army/USAF #</u>	<u>U/I</u>	<u>U/P</u>	<u>Description</u>
0N7610-LL-CBR-0280	TM 3-6665-319-10	EA	5.00	Operator's Manual, Water Testing Kit, Chemical Agents, M272 (NSN 6665-01-134-0885)
0N7610-LL-CBR-0290	TM 3-9905-001-10	EA	5.00	Operator's Manual, Marking Set, Contamination: Nuclear, Biological, Chemical (NBC) 9905-12-124-5955
0N7610-LL-CBR-0320	TM 43-0001-26-1	EA	10.00	Army Equipment Data Sheets, Chemical Defense Equipment
0N7610-LL-CBR-0340	SB 3-30-2	EA	5.00	Chemical-Biological Canisters & Filter Elements: Serviceability Lists
0N7610-LL-CBR-0450	TM 3-4230-235-10	EA	5.00	Operator's Manual for Decontamination Kit, Individual Equipment: M295 (NSN 6850-01-357-8456)
0N7610-LL-CBR-0460	TM 3-4230-229-10	EA	5.00	Operator's Manual Decontaminating Kit, Skin: M291 (NSN 6850-01-276-1905)
0N7610-LL-CBR-0470	TM 3-6665-321-12&P	EA	10.00	Operator's and Unit Maintenance Manual (Including Repair Parts and Special Tools List) for Alarm, Chemical Agent, Automatic: M22 (NSN 6665-01-438-6963)
0N7610-LL-CBR-0480	None	EA	1.00	Protection Against Chemical Warfare Agent, Information on Pyridostigmine Bromide (PB)
0N7610-LL-CBR-0490	TM 10-8415-220-10	EA	5.00	Operator Manual for Joint Service Lightweight Integrated Suit Technology (JSLIST) Chemical Protective Ensemble

01 Cognizance Manuals. The following free publications can be obtained by submitting MILSTRIP format requisitions to Routing Identifier "NFZ" (cc4-6):

<u>Cognizance/NSN</u>	<u>I.D. Number</u>	<u>U/I</u>	<u>Description</u>
010510-LP-209-3900	NAVMED P-5055	EA	Radiation Health Protection Manual
010510-LP-005-9720	NAVMED P-5059	EA	NATO Handbook on Medical Aspects of NBC Defensive Operations
010901-LP-017-5590	NSTM 014	EA	Naval Ships Technical Manual NSTM N4667800022 (Chapter 470) Shipboard BW/CW Defense and Countermeasures (for activities providing industrial decontamination of ships only)
010910-LP-147-7800	SE700-AA-MAN-100	EA	Radiac Policies and Procedures Manual; Volume 1, Navy Radiac Program User's Manual
010510-LP-754-5300	NAVMED P-5041	EA	Treatment of Chemical Agent Casualties and Conventional Military Chemical Injuries

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<u>Cognizance/NSN</u>	<u>Army/USAF #</u>	<u>U/I</u>	<u>U/P</u>	<u>Description</u>
010280-LP-790-6000	NAVSEA 94494		EA	Detector Dosimeter DT60/PD
010507-LP-465-0625	NAVEDTRA 465-13-000-87		EA	Nuclear Detectors
010910-LP-015-5920	SS200-AP-MMO-010		EA	Chemical Protective Clothing, Joint Service Lightweight Integrated Technology (JSLIST) Operator's Manual