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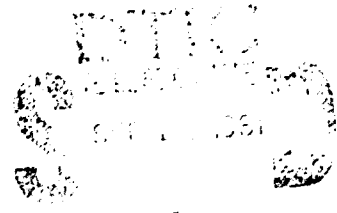
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Military Publications

INDEX OF TEST OPERATIONS PROCEDURES

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HEADQUARTERS, U.S. ARMY TEST AND EVALUATION COMMAND

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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This pamphlet contains an index of all Test Operations Procedures (TOP's) and Materiel Test Procedures (MTP's). These documents are formal documentation of those test, analysis, and evaluation procedures used by the US Army Test and Evaluation Command (TECOM).			

DEPARTMENT OF THE ARMY  
HEADQUARTERS, US ARMY TEST AND EVALUATION COMMAND  
Aberdeen Proving Ground, Maryland 21005

TECOM Pamphlet  
No. 310-4  
AD NO

1 October 1981

Military Publications  
INDEX OF TEST OPERATIONS PROCEDURES

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\*This pamphlet supersedes TECOM Pamphlet 310-4, 1 September 1972, as changed.

## CHAPTER 1

## INTRODUCTION

1-1. PURPOSE. This pamphlet contains an index of all test operations procedures (TOP's) and materiel test procedures (MTP's). Documents published before July 1971 are entitled "materiel test procedures"; documents published after June 1971 are entitled "test operations procedures." Materiel test procedures that have not been superseded or canceled are still in effect. Information in this pamphlet is current as of 5 May 1981.

1-2. DEFINITION. TOP's define test procedures to be used by TECOM during Government developmental tests and customer tests of research and development materiel/systems. TOP's are prepared to accomplish the following:

- a. Document the existing state-of-the-art in TECOM testing technology.
- b. Facilitate the preparation of detailed test plans.
- c. Prescribe the details of planned operations during the testing of materiel/systems.

1-3. DISTRIBUTION.

a. Primary. Headquarters, TECOM, makes primary distribution of TOP's in accordance with requests from Department of Defense activities. To insure that primary distribution adequately satisfies current requirements, users should continually review their requirements for TOP's. Forward changes in distribution requirements to Commander, US Army Test and Evaluation Command, ATTN: DRSTE-AD-M, Aberdeen Proving Ground, MD 21005.

b. Secondary.

(1) The Defense Technical Information Center (DTIC) makes secondary distribution of TOP's. DTIC services are available to all Federal organizations and their contractors, subcontractors, and grantees, and to research organizations eligible under the Defense Potential Contractors Program. Microfiche copies and hard copies are available subject to a minor charge.

(2) Forward requests for additional copies of TOP's to the Defense Technical Information Center, ATTN: DDR, Cameron Station, Alexandria, VA 22314. Use the DTIC accession numbers (AD NO) provided in chapters 3 and 5 when requesting copies of TOP's from DTIC.

## CHAPTER 2

## IDENTIFICATION OF TEST OPERATIONS PROCEDURES

2-1. IDENTIFICATION. TOP's are identified by type (i.e., background, common, system, or special) and by category of interest (e.g., vehicle, armament, ammunition, etc.).

## 2-2. TYPES OF TOP'S.

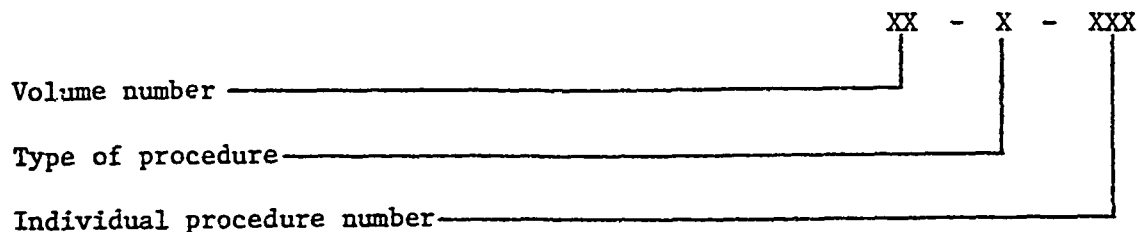
a. Background TOP's provide technical data concerning those factors that influence test operation. Environmental considerations, instrumentation, facilities, mathematical modeling, and special engineering techniques are all typical of this category of information. Background TOP's represent a very small portion of the total TOP's library.

b. Common TOP's represent the major portion of the TOP's library. They are written at the lowest subtest level associated with an individual characteristic of an item; e.g., acceleration, velocity, and mobility. Each TOP includes a discussion of scope, facilities, instrumentation, preparation for test, test controls, performance of test, and reduction and presentation. Checklists and data collection sheets are included in the TOP appendixes.

c. System TOP's identify the common TOP's, military standards, and other supporting tests required to evaluate the capabilities and limitations of a category or categories of items. In addition, they provide supplementary instructions required to qualify, limit, or modify the applicable common TOP's.

d. Special TOP's document test procedures that go beyond those associated with individual characteristics (common TOP's).

2-3. NUMBERING SYSTEM. The TOP numbering system identifies the appropriate volume, type of procedure, and procedure number as follows:



a. The first group of numbers identifies the appropriate volume in accordance with paragraph 2-4, below.

b. The second digit indicates the type of procedure as follows:

- 1 - Background TOP
- 2 - Common/system TOP (associated with development testing II)
- 3 - Special TOP
- 4 - Environmental TOP

c. The third group of numbers identifies the particular document. In all volumes, numbers 500 and larger are assigned to common TOP's. In volume 1, numbers less than 500 are assigned to background documents. In all other volumes, numbers less than 500 are assigned to system TOP's.

2-4. VOLUME DESCRIPTIONS. Volume numbers, titles, and brief descriptions of the contents are as follows:

<u>Volume</u>	<u>Title</u>	<u>Description of Test Procedures</u>
1	BACKGROUND DOCUMENTS AND MISCELLANEOUS COMMON TEST PROCEDURES	Background documents and common TOP's applicable to more than one volume.
2	WHEELED, TRACKED, AND SPECIAL PURPOSE VEHICLES	Primarily land-type vehicles; e.g., tanks, amphibious and special purpose vehicles, automotive equipment, and armored vehicles.
3	ARMAMENT AND INDIVIDUAL WEAPONS	Weapon portion of tanks, self-propelled artillery, and other combat vehicles; e.g., tube artillery, air defense weapons (nonrocket), mortars, grenade launchers, recoilless rifles, and small arms.
4	AMMUNITION AND EXPLOSIVES	Warheads, projectiles, fuze mechanisms, ignition systems for ammunition, propellants, and explosives. Applies to small arms ammunition, cartridge cases, chemical munitions (exclusive of agent), flamethrowers, pyrotechnics, grenades, and mines.
5	MISSILE AND ROCKET SYSTEMS	Ballistic and guided missiles, target missiles, guided-missile systems, and electronic ancillary equipment. Applies to associated ground support equipment.
6	ELECTRONIC, AVIONIC, AND COMMUNICATIONS EQUIPMENT	Electronic equipment including combat surveillance, radar, fire control, and target acquisition equipment. Applies to airborne navigational systems, electronic test equipment, automatic data processing equipment, communications systems, and radio equipment.

<u>Volume</u>	<u>Title</u>	<u>Description of Test Procedures</u>
7	AVIATION, AIR DELIVERY EQUIPMENT, AND AIRCRAFT WEAPONS SUBSYSTEMS	Aviation equipment including fixed- and rotary-wing aircraft, aircraft engines, drones, aircraft support equipment, air delivery equipment, rigging, parachutes, and aircraft weapons subsystems.
8	CHEMICAL, BIOLOGICAL, AND RADIOLOGICAL EQUIPMENT	Chemical weapons to include chemical and biological protective, detection, and surveillance equipment and radiological detection and surveillance materiel.
9	CONSTRUCTION, SUPPORT, AND SERVICE EQUIPMENT	Construction, support, and service equipment and power-generating, barrier, and bridging equipment.
10	GENERAL SUPPLIES AND EQUIPMENT	Food, shelter, fuel, cooling, and ventilation equipment; general and special purpose clothing and equipment; photographic and optical equipment; and support equipment for airdrop operations.

## CHAPTER 3

## NUMERICAL INDEX

This chapter contains a numerical list of all TOP's, to include DTIC AD numbers and TOP dates, numbers, and titles. The letters in parentheses after the TOP numbers indicate who prepared the documents as follows:

- (A) US Army Aberdeen Proving Ground
- (B) US Army Dugway Proving Ground
- (E) US Army Cold Regions Test Center
- (G) US Army Field Artillery Board (formerly a subordinate activity of TECOM; currently a subordinate activity of TRADOC)
- (H) US Army Aviation Development Test Activity
- (L) US Army Electronic Proving Ground
- (M) US Army Tropic Test Center
- (N) US Army White Sands Missile Range
- (P) US Army Yuma Proving Ground
- (Q) Headquarters, TECOM

<u>AD NO</u>	<u>DATE</u>	<u>MTP/TOP NO</u>	<u>TITLE</u>
763925	11 SEP 72	1-1-002 (E)	ARCTIC MAINTENANCE CONSIDERATIONS
765516	15 AUG 72	1-1-003 (E)	ARCTIC PERSONNEL EFFECTS (Cl, 28 Nov 73)
758170	26 JUL 72	1-1-004 (E)	ARCTIC INSTRUMENTATION CONSIDERATIONS
770034	30 OCT 72	1-1-005 (E)	ADAPTATION OF MILITARY MATERIEL FOR ARCTIC USE
766261	10 AUG 72	1-1-006 (P)	DESERT ENVIRONMENTAL CONSIDERATIONS
770035	1 AUG 73	1-1-007 (P)	DESERT MAINTENANCE CONSIDERATIONS
744812	31 MAR 72	1-1-008 (M)	TROPIC ENVIRONMENTAL CONSIDERATIONS
A027361	12 APR 76	1-1-010 (A)	VEHICLE TEST COURSE SEVERITY
A027035	17 MAR 76	1-1-011 (A)	VEHICLE TEST FACILITIES AT APG
A068750	1 APR 79	1-1-012 (A)	CLASSIFICATION OF DEFICIENCIES AND SHORTCOMINGS
739588	29 NOV 71	1-1-019 (A)	TESTING ARMAMENT AND INDIVIDUAL WEAPONS (Cl, 19 Nov 74)
741927	17 MAR 72	1-1-045 (A)	GENERAL SUPPLIES AND EQUIPMENT TESTING
781517	4 MAR 74	1-1-050 (A)	VIBRATION TESTING
755987	20 JUN 72	1-1-051 (M)	AMMUNITION AND EXPLOSIVES
770910	10 APR 73	1-1-052 (M)	TROPICAL VEGETATION MEASUREMENTS
A039084	29 MAR 74	1-1-054 (M)	GROUND-TO-GROUND TARGET DETECTION IN THE TROPIC FORESTS
A046962	15 NOV 77	1-1-056 (Q)	SOFTWARE TESTING



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<u>AD NO</u>	<u>DATE</u>	<u>MTP/TOP NO</u>	<u>TITLE</u>
765456	22 JUL 76	1-2-500 (A)	TRANSPORTABILITY (C2, 24 AUG 76; C3, 20 MAR 79)
759770	14 SEP 72	1-2-502 (A)	DURABILITY TESTING (C1, 13 AUG 73)
759219	31 OCT 72	1-2-504 (G)	PHYSICAL CHARACTERISTICS
AO42716	2 MAR 76	1-2-510 (A)	LOGISTICS-OVER-THE-SHORE
AO39703	18 MAR 76	1-2-511 (N)	ELECTROMAGNETIC RADIATION EFFECTS AND/OR HAZARDS TEST
AO93705	22 DEC 80	1-2-601 (A)	LABORATORY VIBRATION SCHEDULES
AO88657	23 AUG 80	1-2-605 (A)	BIREFRINGENT COATING TECHNIQUE, PHOTO-ELASTIC STRESS ANALYSIS
AO46109	3 JUN 77 DEC 78	1-2-608 (A) 1-2-609 (Q)	SOUND LEVEL MEASUREMENTS INSTRUCTIONAL MATERIAL ADEQUACY GUIDE AND EVALUATION STANDARD (IMAGES)
BO33853L		VOL I	OPERATOR'S, ORGANIZATIONAL, DS AND GS MAINTENANCE (ITDT - FLOW CHART)
BO33854L		VOL II	OPERATOR'S ORGANIZATIONAL OR AVIATION UNIT, DS OR AVIATION INTERMEDIATE, AND GS MAINTENANCE (ITDT)
BO33855L		VOL III	REPAIR PARTS AND SPECIAL TOOLS LIST (RPSTL); COMPONENTS OF END ITEM (COEIL), BASIC ISSUE ITEMS LIST (BIIL), ADDITIONAL AUTHORIZATION LISTS (AAL), AND EXPENDABLE SUPPLIES AND MATERIALS LISTS (ES&ML)
BO33856L		VOL IV	LUBRICATION ORDERS; EQUIPMENT SERVICE-ABILITY CRITERIA (ESC)
BO33857L		VOL V	MECHANICAL AND CONSTRUCTION EQUIPMENT, AUTOMOTIVE EQUIPMENT AND POWER TOOLS (EXCLUDING COMBAT VEHICLES) - DOD STANDARD GENERATOR SETS
BO33858L		VOL VI	TELECOMMUNICATIONS EQUIPMENT (EXCEPT TELETYPEWRITERS)
EO33859L		VOL VII	RADAR EQUIPMENT
BO33860L		VOL VIII	TELETYPEWRITER EQUIPMENT
BO33861L		VOL IX	PHOTOGRAPHIC, MOTION PICTURE, SOUND, AND RECORDING EQUIPMENT
BO33862L		VOL X	ELECTRONIC TEST EQUIPMENT
BO33863L		VOL XI	MAINTENANCE OF ARMY AIRCRAFT; OPERATORS AND CREWMEMBERS MANUALS/CHECKLIST FOR AIRCRAFT
BO33864L		VOL XII	WEAPONS, COMBAT VEHICLES, AND FIRE CONTROL MATERIAL
BO33865L		VOL XIII	MISSILE SYSTEM EQUIPMENT
BO33866L		VOL XIV	COMMERCIAL EQUIPMENT

<u>AD NO</u>	<u>DATE</u>	<u>MTP/TOP NO</u>	<u>TITLE</u>
AO51481	20 DEC 77	1-2-610 (Q)	HUMAN FACTORS ENGINEERING
AO51482		PART I	TEST PROCEDURES
		PART II	HEDGE
AO51752	20 JAN 78	1-2-611 (Q)	COLD REGIONS HUMAN FACTORS ENGINEERING
AO51733		PART I	TEST PROCEDURES
AO69845		PART II	HEDGE
AO63571	12 APR 79	1-2-612 (N)	NUCLEAR RADIATION EFFECTS
	9 NOV 78	1-2-613 (N)	NUCLEAR EFFECTS TESTS OF ARMY MATERIEL (BLAST)
AO87077	1 MAY 80	1-2-616 (M)	TROPIC EXPOSURE TESTING

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874023	10 JUL 70	2-1-001 (A)	TESTING WHEELED, TRACKED, AND SPECIAL PURPOSE VEHICLES
717986	15 JUL 68	2-1-002 (A)	AUTOMOTIVE LABORATORY INSTRUMENTATION
866463	30 DEC 69	2-1-004 (A)	TELEMETRY
875668	27 JUL 70	2-1-005 (A)	AUTOMOTIVE FIELD TEST EQUIPMENT AND INSTRUMENTATION
872806	19 MAY 70	2-1-006 (A)	MECHANICAL SHOCK
759149	5 JAN 73	2-2-014 (A)	CARRIERS, FULL-TRACKED (AUTOMOTIVE)
764203	23 MAR 73	2-2-020 (A)	TRAILERS, SEMITRAILERS, AND DOLLIES
764772	21 MAR 73	2-2-040 (A)	MISSILE SUPPORT VEHICLES
764201	21 MAR 73	2-2-070 (A)	MAIN BATTLE TANKS
740164	1 MAR 72	2-2-100 (A)	TRUCKS AND TRACTORS
764204	12 MAR 73	2-2-106 (A)	FORKLIFTS
759924	26 MAR 73	2-2-131 (A)	RECOVERY VEHICLES, FULL-TRACKED
717989	4 AUG 65	2-2-500 (A)	VEHICLE CHARACTERISTICS
A092393	18 NOV 80	2-2-501 (A)	SWIMMING TESTS OF WHEELED AND TRACKED VEHICLES
732337	15 JUN 66	2-2-503 (A)	MAINTENANCE (VEHICLE)
A045341	14 JUL 77	2-2-505 (A)	INSPECTION AND PRELIMINARY OPERATION OF VEHICLES
A037827	9 SEP 76	2-2-506 (A)	ENDURANCE TESTING OF TRACKED AND WHEELED VEHICLES
A086989	11 JAN 80	2-2-508 (A)	AUTOMOTIVE SAFETY AND HEALTH HAZARD EVALUATION
A043540	12 JUL 77	2-2-511 (A)	ROAD TESTS OF MOBILE WEAPONS
718727	1 JAN 67	2-2-512 (A)	AIRBORNE VEHICLES
717995	5 OCT 66	2-2-513 (A)	FOREIGN VEHICLES
876402	30 JUL 70	2-2-520 (A)	LOGISTICS-OVER-THE-SHORE (LOTS) (VEHICLES)
723410	15 APR 71	2-2-537 (A)	CARGO LOADING ADAPTABILITY (CLA)
A045343	20 JUN 77	2-2-601 (A)	ELECTRICAL SYSTEMS (VEHICLES AND WEAPON SUBSYSTEMS)
A091708	8 AUG 80	2-2-602 (A)	ACCELERATION: MAXIMUM AND MINIMUM SPEEDS
A046842	1 NOV 77	2-2-603 (A)	VEHICLE FUEL CONSUMPTION
A086956	18 JUL 80	2-2-604 (A)	DRAWBAR PULL
A086144	25 JUN 80	2-2-605 (A)	TOWING RESISTANCE
A093823	13 JAN 81	2-2-607 (A)	COOLING SYSTEMS (AUTOMOTIVE)
719084	15 JAN 71	2-2-608 (A)	BRAKING, WHEELED VEHICLES
A086957	18 JUL 80	2-2-609 (A)	STEERING
A086958	18 JUL 80	2-2-610 (A)	GRADEABILITY AND SIDE-SLOPE PERFORMANCE
A086988	25 JUN 80	2-2-611 (A)	STANDARD OBSTACLES
A086959	18 JUL 80	2-2-612 (A)	FORDING
775441	1 FEB 74	2-2-613 (A)	BROADBAND ELECTROMAGNETIC INTERFERENCE TESTING FOR VEHICLES AND ELECTRICAL SUBSYSTEMS - NONCOMMUNICATIONS
A040542	17 JAN 77	2-2-614 (A)	TOXIC HAZARDS TESTS FOR VEHICLES AND OTHER EQUIPMENT

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718687	10 AUG 66	2-2-615 (A)	SECURITY FROM DETECTION (VEHICLES)
718689	13 SEP 68	2-2-616 (A)	NIGHT PERFORMANCE OF COMBAT VEHICLES
AG18054	30 JAN 75	2-2-617 (A)	ARMORED VEHICLE VULNERABILITY TO CONVENTIONAL WEAPONS
718690	30 NOV 66	2-2-618 (N)	VULNERABILITY OF VEHICLES TO NUCLEAR WEAPONS
871765	21 MAY 70	2-2-619 (A)	SOFT-SOIL VEHICLE MOBILITY
A019244	13 NOV 75	2-2-620 (A)	RESISTANCE OF ARMORED VEHICLES TO SEVERE SHOCK
718007	14 MAY 68	2-2-621 (A)	VEHICLE COLLISION AND ACCIDENT SAFETY TEST
871812	27 OCT 69	2-2-625 (A)	MUZZLE BLAST DAMAGE TO COMBAT VEHICLES
763293	18 MAY 73	2-2-626 (A)	OVERLOAD TESTING (VEHICLE)
A086960	18 JUL 80	2-2-627 (A)	BRAKING, TRACKED VEHICLES
A089535	18 JUL 80	2-2-650 (A)	ENGINE COLD-STARTING AND WARMUP TESTS
718009	2 NOV 66	2-2-700 (A)	LABORATORY TESTING OF RECIPROCATING INTERNAL COMBUSTION ENGINES
A032842	2 JUL 76	2-2-701 (A)	FUELS AND LUBRICANTS
718051	19 JAN 66	2-2-702 (A)	EFFECTS OF ALTITUDE ON AUTOMOTIVE ENGINES
718010	19 JAN 66	2-2-703 (A)	LABORATORY TESTS OF POWER TRAIN COMPONENTS
A029719	23 JAN 76	2-2-704 (A)	TIRES
876375	1 JUL 70	2-2-705 (A)	TRACKS
718012	24 NOV 65	2-2-706 (A)	TRACTION DEVICES
718013	20 APR 66	2-2-707 (A)	KITS (VEHICLE)
A090590	18 JUL 80	2-2-708 (A)	VEHICLE PERSONNEL HEATER COMPATIBILITY
718015	23 MAR 66	2-2-709 (A)	COMMUNICATIONS EQUIPMENT
A045676	6 APR 77	2-2-710 (A)	BALLISTIC TESTS OF ARMOR MATERIALS
A037779	23 DEC 76	2-2-711 (A)	ARMOR WELDMENTS
A021164	27 JUN 75	2-2-712 (A)	AUTOMOTIVE WINCHES
720525	12 FEB 71	2-2-714 (A)	TRACKED VEHICLE SUSPENSION SYSTEMS
A006501	24 SEP 73	2-2-715 (A)	PROTECTION BY ARMORED VEHICLES AGAINST KINETIC ENERGY PROJECTILES
768011	9 MAY 73	2-2-721 (A)	FIELD TESTING OF AUTOMOTIVE ENGINES
A006988	25 OCT 74	2-2-722 (A)	FRAGMENT PENETRATION TESTS OF ARMOR
A086961	18 JUL 80	2-2-800 (A)	CENTER OF GRAVITY
671926	22 MAY 70	2-2-801 (A)	LOAD DISTRIBUTION AND GROUND PRESSURE
A065165	22 JAN 79	2-2-802 (A)	STOWAGE
718018	10 AUG 66	2-2-806 (A)	TORQUE MEASUREMENTS FOR TRACKLAYERS
A075732	26 SEP 79	2-2-808 (A)	FIELD SHOCK AND VIBRATION TESTS OF VEHICLES
A074487	18 JUL 79	2-2-812 (A)	INFRARED MEASUREMENTS OF VEHICLES AND WEAPONS
A029317	19 JUN 75	2-2-815 (A)	RAIN AND FREEZING RAIN
A067422	21 MAR 79	2-2-816 (A)	HIGH- AND LOW-TEMPERATURE TESTS OF VEHICLES
A066798	31 OCT 78	2-2-817 (M)	TROPIC TESTING OF VEHICLES
A078945	7 DEC 79	2-2-819 (P)	WHEELED AND TRACKED VEHICLE AIR CLEANER ADEQUACY

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718044	12 MAY 69	2-4-001 (P)	DESERT ENVIRONMENTAL TESTING OF WHEELED AND TRACKED VEHICLES
718045	10 JUL 69	2-4-002 (E)	ARCTIC ENVIRONMENTAL TEST OF TRACKED AND WHEELED VEHICLES
718789	22 JAN 71	2-4-003 (M)	WHEELED, TRACKED, AND GENERAL PURPOSE VEHICLES

<u>AD NO</u>	<u>DATE</u>	<u>MTP/TOP NO</u>	<u>TITLE</u>
718229	25 JAN 67	3-1-002 (A)	CONFIDENCE INTERVALS AND SAMPLE SIZE
717312	30 APR 69	3-1-003 (A)	METEOROLOGICAL DATA
873533	30 JUN 70	3-1-004 (A)	ARTILLERY RANGE AND BALLISTIC MATCH FIRINGS (INDIRECT FIRE)
741811	1 MAR 72	3-1-005 (G)	FIELD ARTILLERY STATISTICS (CI, 10 JUN 74)
876179	3 AUG 70	3-1-006 (A)	STRAIN MEASUREMENT - INSTRUMENTAL
746227	12 MAY 72	3-2-030 (A)	GRENADE LAUNCHERS
729601	1 AUG 71	3-2-045 (A)	MACHINEGUNS AND AUTOMATIC WEAPONS
875638	18 JUN 70	3-2-050 (A)	MORTARS
876256	1 JUL 70	3-2-056 (A)	ROCKET LAUNCHERS (GROUND-TO-GROUND)
729843	1 SEP 71	3-2-059 (A)	HAND AND SHOULDER WEAPONS
759925	16 FEB 73	3-2-066 (A)	RECOILLESS WEAPONS
722725	2 FEB 71	3-2-075 (A)	SECONDARY ARMAMENT, VEHICULAR MOUNTED
726909	5 JUN 71	3-2-500 (A)	WEAPON CHARACTERISTICS
A092174	15 AUG 80	3-2-503 (A)	SAFETY EVALUATION OF FIRE CONTROL SYSTEMS - ELECTRICAL AND ELECTRONIC EQUIPMENT
A045340	1 MAR 77	3-2-504 (A)	SAFETY EVALUATION OF HAND AND SHOULDER WEAPONS
A075733	9 OCT 79	3-2-506 (A)	SELF-PROPELLED ARTILLERY
718853	29 DEC 70	3-2-509 (A)	ARTILLERY CANNON
717532	16 MAY 68	3-2-510 (A)	ARTILLERY CARRIAGES AND MOUNTS
717533	14 MAY 68	3-2-518 (A)	SUBCALIBER GUNS
876180	3 AUG 70	3-2-531 (A)	VULNERABILITY OF WEAPONS
A054803	12 APR 78	3-2-600 (A)	RECOIL SYSTEMS
A036767	3 SEP 76	3-2-602 (A)	GUN STABILIZATION SYSTEMS (VEHICULAR)
A037012	13 AUG 76	3-2-603 (A)	GUN CONTROL SYSTEMS (VEHICULAR)
A031721	9 AUG 76	3-2-604 (A)	BORESIGHT RETENTION
A046007	12 JUL 77	3-2-605 (A)	ACCURACY FIRING OF VEHICULAR WEAPONS
726000	25 MAY 71	3-2-606 (A)	SMALL ARMS EFFECTIVENESS
718712	5 OCT 66	3-2-608 (A)	TERMINAL EFFECTIVENESS OF ANTIPERSONNEL WEAPON SYSTEMS
734305	1 NOV 71	3-2-610 (A)	FIRE CONTROL ACCURACY TESTS WITH A DYNAMIC TESTER
717535	12 JUN 68	3-2-616 (A)	RADIO FREQUENCY RADIATION HAZARDS TO PERSONNEL
A068182	8 MAR 78	3-2-700 (A)	BALLISTIC CORRECTION SYSTEMS
A038147	13 OCT 76	3-2-701 (A)	GUN SIGHT SYNCHRONIZATION
717543	20 APR 66	3-2-702 (A)	OPTICAL RANGEFINDERS
717538	24 JUN 68	3-2-706 (A)	NIGHT VISION DEVICES
717270	10 AUG 66	3-2-707 (A)	EJECTOR CAM TESTS
767074	26 FEB 73	3-2-709 (A)	FIELD ARTILLERY FIRE CONTROL SIGHTS
872258	9 JUN 70	3-2-711 (A)	SAFETY EVALUATION OF RADIOACTIVE COMPONENTS OF MATERIEL

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A036659	6 JAN 76	3-2-800 (A)	SCHEDULES FOR INSPECTIONS AND MEASUREMENTS OF CANNONS
717271	27 OCT 65	3-2-801 (A)	MEASUREMENT OF INTERNAL DIAMETERS OF CANNON
A031780	9 AUG 76	3-2-802 (A)	MEASUREMENT OF CANNON
A051688	19 JAN 78	3-2-803 (A)	VISUAL INSPECTIONS OF CANNON BORES
717373	27 OCT 65	3-2-804 (A)	IMPRESSIONS AND CASTS OF CANNON BORES
A045342	12 JUL 77	3-2-805 (A)	SAFETY EVALUATION OF CANNON AND RECOIL-LESS WEAPONS
759225	10 JAN 73	3-2-806 (A)	METALLURGICAL AND MECHANICAL TESTS OF MATERIALS (C1, 30 JAN 74; C2, 13 NOV 75)
764200	11 SEP 72	3-2-807 (A)	NONDESTRUCTIVE TESTING OF MATERIALS (C1, 14 NOV 75)
717374	7 SEP 66	3-2-809 (A)	STRAIN MEASUREMENT - BRITTLE LACQUER METHOD
A075741	5 OCT 79	3-2-810 (A)	WEAPON PRESSURE MEASUREMENTS
717539	23 FEB 66	3-2-812 (A)	FIELD OF VISION - VEHICLES
718707	20 APR 66	3-2-813 (A)	FIELD OF FIRE
717540	20 APR 66	3-2-814 (A)	OPTICAL COLLIMATION OF RANGEFINDERS
A029073	24 FEB 75	3-2-815 (A)	RECOIL MOTION MEASUREMENT
A056118	18 MAY 78	3-2-816 (A)	HOP FIRING (C1, 25 AUG 78)
A055405	9 MAY 78	3-2-817 (A)	JUMP FIRING
717377	25 JAN 67	3-2-820 (A)	IN-FLIGHT DISPERSION PATTERN MEASUREMENTS
717381	28 DEC 66	3-2-821 (A)	BALLISTIC DATA FOR BOOSTED PROJECTILES
717380	25 JAN 67	3-2-823 (A)	RANGE FIRING OF CLOSE-SUPPORT ROCKETS AND MISSILES
717383	5 JUN 69	3-2-824 (A)	FLIGHT TESTS OF ANTITANK MISSILES
A033780	2 NOV 76	3-2-825 (A)	LOCATION OF IMPACT OR AIRBURST POSITIONS
770859	9 OCT 73	3-2-826 (A)	KINEMATIC TESTS OF SMALL ARMS
A041424	24 NOV 76	3-2-829 (A)	CANNON TUBE SERVICE LIFE
A032004	30 JUN 76	3-2-830 (E)	COLD REGIONS STABILITY TEST OF INDIRECT FIRE ARTILLERY WEAPONS
A045766	15 SEP 77	3-2-831 (A)	CLEANING AND PRESERVING OF WEAPONS
867021	14 NOV 69	3-4-001 (P)	DESERT ENVIRONMENTAL TESTING OF ARMAMENT AND INDIVIDUAL WEAPONS
720559	28 JAN 71	3-4-003 (M)	ARMAMENT AND INDIVIDUAL WEAPONS
717385	29 MAY 69	3-4-004 (E)	ARCTIC ENVIRONMENTAL TEST OF INDIVIDUAL WEAPONS, RIFLES (SEMIAUTOMATIC AND AUTOMATIC) AND PISTOLS
720968	29 MAY 69	3-4-005 (E)	ARCTIC ENVIRONMENTAL TEST OF GRENADE LAUNCHERS
717384	10 MAR 69	3-4-006 (E)	ARCTIC ENVIRONMENTAL TEST OF AUTOMATIC CREW-SERVED WEAPONS
867047	24 NOV 69	3-4-007 (E)	ARCTIC ENVIRONMENTAL TEST OF RECOILLESS WEAPONS
717277	10 JUL 69	3-4-008 (E)	ARCTIC ENVIRONMENTAL TEST OF INDIRECT FIRE WEAPONS (MORTAR)
876198	4 AUG 70	3-4-010 (E)	ARCTIC ENVIRONMENTAL TEST OF DIRECT FIRE CANNON (TANK AND ANTITANK WEAPONS)

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879093	4 DEC 70	4-1-001 (A)	TESTING AMMUNITION AND EXPLOSIVES
718230	7 JUN 68	4-1-002 (A)	TEMPERATURE MEASURING DEVICES
718657	23 FEB 66	4-1-003 (A)	ORDER OF FUNCTIONING
872828	30 APR 70	4-1-005 (A)	THE DOPPLER VELOCIMETER
770033	18 OCT 73	4-2-011 (A)	ARTILLERY AMMUNITION
729599	2 AUG 71	4-2-012 (A)	MORTAR AMMUNITION
726349	1 JUL 71	4-2-013 (A)	RECOILLESS RIFLE AMMUNITION
723025	1 MAR 71	4-2-015 (A)	CLOSE-SUPPORT ROCKETS AND MISSILES
A056146	12 JUN 78	4-2-016 (A)	AMMUNITION, SMALL ARMS
A088611	27 AUG 80	4-2-017 (A)	DISINTEGRATING PROJECTILES
746224	2 FEB 72	4-2-045 (A)	DEMOLITION-INITIATING EQUIPMENT
718711	3 DEC 70	4-2-055 (A)	FUZES
871340	1 APR 70	4-2-070 (A)	FLAMETHROWERS, PORTABLE
870454	1 APR 70	4-2-071 (B)	FLAMETHROWERS, MECHANIZED
719671	18 AUG 69	4-2-090 (L)	MINE DETECTORS
879094	23 NOV 70	4-2-130 (A)	FLARES AND PHOTOFLASH ITEMS
718783	1 JUL 70	4-2-131 (A)	PYROTECHNIC SIGNALS (C1, 11 AUG 72; C2, 5 MAR 73)
729845	1 AUG 71	4-2-132 (P)	TACTICAL LUMINANTS
718725	23 FEB 67	4-2-500 (A)	AMMUNITION CHARACTERISTICS
A068945	1 APR 79	4-2-501 (A)	PROJECTILES (C1, 22 OCT 79)
A055107	5 MAY 78	4-2-502 (A)	SAFETY EVALUATION OF MINES AND DEMOLITIONS
876190	1 JUL 70	4-2-503 (A)	SAFETY EVALUATION - CLOSE-SUPPORT ROCKETS AND MISSILES
A070340	1 APR 79	4-2-504 (A)	SAFETY TESTING OF ARTILLERY, MORTAR, AND RECOILLESS RIFLE AMMUNITION (C1, 31 OCT 79)
A031850	22 APR 74	4-2-505 (A)	MINES AND DEMOLITIONS
759228	1 NOV 72	4-2-509 (P)	AIRDROP CAPABILITY OF EXPLCSIVE MATERIEL
A068946	1 APR 79	4-2-601 (A)	DROP TOWER TESTS FOR MUNITIONS
A068947	1 APR 79	4-2-602 (A)	ROUGH HANDLING TESTS
718744	8 FEB 71	4-2-604 (A)	RANGE FIRINGS OF SMALL ARMS AMMUNITION
718566	10 JUN 68	4-2-605 (A)	BALLISTIC MATCHING OF MAJOR AND MINOR CALIBER SYSTEMS
A036660	17 JAN 77	4-2-606 (A)	ESTABLISHMENT OF MASTER AND REFERENCE CALIBRATION ROUNDS
875700	22 JUL 70	4-2-607 (A)	CHECK FIRING OF MASTER AND REFERENCE PROPELLANTS
A068516	1 APR 79	4-2-700 (A)	PROPELLING CHARGES
718700	23 MAR 66	4-2-701 (A)	IGNITION SYSTEMS FOR ARTILLERY AMMUNITION
718713	10 AUG 66	4-2-703 (A)	PROPELLANT-ACTUATED DEVICES
A091673	21 OCT 80	4-2-705 (A)	CARTRIDGE CASES



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A055596	4 MAY 78	4-2-801 (A)	PROJECTILE UNBALANCE
A017510	29 JUL 75	4-2-802 (A)	PROJECTILE SEATING AND FALLBACK
718699	10 AUG 66	4-2-803 (A)	ROTATING BAND SEATING MEASUREMENTS
A069005	23 APR 79	4-2-805 (A)	PROJECTILE VELOCITY MEASUREMENTS
A043537	26 APR 77	4-2-806 (A)	ARMING DISTANCE AND IMPACT SENSITIVITY OF FUZES
717076	28 DEC 66	4-2-807 (A)	FUZE FUNCTIONING TIME, SUPERQUICK FUZES
717077	30 APR 68	4-2-808 (A)	FUZE FUNCTIONING TIME, AIRBURST FUZES
777919	1 FEB 74	4-2-809 (A)	RECOVERY OF FIRED AMMUNITION
A032165	12 FEB 76	4-2-811 (A)	MEASUREMENT OF PROJECTILE RATE OF SPIN
A090268	6 OCT 80	4-2-812 (A)	PENETRATION TESTS OF HEAT WARHEADS
A081510	31 JAN 80	4-2-813 (A)	STATIC FRAGMENTATION TESTS OF HIGH- EXPLOSIVE MUNITIONS (C1, 8 MAY 80)
719673	28 DEC 66	4-2-816 (A)	PHOTOGRAPHIC INSTRUMENTATION FOR TRAJECTORY DATA
A068515	1 APR 79	4-2-820 (A)	HUMIDITY TESTS
875696	22 JUL 70	4-2-822 (A)	AIRBLAST PRESSURE MEASUREMENT - ELECTRONIC
718686	2 NOV 66	4-2-823 (A)	PAPER BLASTMETERS
718676	25 JAN 67	4-2-824 (A)	PENETRATION TEST OF HEAT WARHEADS FOR CLOSE-SUPPORT ROCKETS AND MISSILES
A057390	8 JUN 78	4-2-825 (A)	FLASH RADIOGRAPHY IN BALLISTIC TESTING
A075734	15 CCT 79	4-2-826 (A)	SOLAR RADIATION TESTS
872144	27 MAY 70	4-2-827 (A)	TIME OF FLIGHT AND BALLISTIC COEFFICIENTS
A027709	9 APR 76	4-2-829 (A)	VERTICAL TARGET ACCURACY AND DISPERSION
871551	13 APR 70	4-3-010 (H)	AMMUNITION, AIRCRAFT
868258	18 FEB 70	4-3-148 (H)	FLARE, AIRCRAFT
875604	13 JUL 70	4-4-001 (P)	DESERT ENVIRONMENTAL TEST OF AMMUNITION AND EXPLOSIVES
866466	24 NOV 69	4-4-004 (E)	ARCTIC ENVIRONMENTAL TEST OF SMALL ARMS AMMUNITION
867362	26 NOV 69	4-4-005 (E)	ARCTIC ENVIRONMENTAL TEST OF GRENADES AND GRENADE-TYPE AMMUNITION
718688	19 MAY 69	4-4-006 (E)	ARCTIC ENVIRONMENTAL TEST OF RECOILLESS AMMUNITION
871430	17 APR 70	4-4-007 (E)	ARCTIC ENVIRONMENTAL TEST OF MORTAR AMMUNITION
867360	26 NOV 69	4-4-008 (E)	ARCTIC ENVIRONMENTAL TEST OF ARTILLERY AMMUNITION
876259	31 JUL 70	4-4-009 (E)	ARCTIC ENVIRONMENTAL TEST OF TANK AMMUNITION

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719670	31 JUL 69	5-1-014 (N)	STATISTICAL METHODS OF RELIABILITY DETERMINATION
718705	31 JAN 69	5-1-020 (N)	MISSILE FLIGHT SURVEILLANCE
719672	10 JUN 68	5-1-025 (N)	DYNAMIC STRUCTURAL DATA ANALYSIS
718666	6 DEC 67	5-1-026 (N)	RANGE INSTRUMENTATION LAYOUT
718664	3 JAN 68	5-1-029 (N)	ROCKET SLED TESTING (Cl, 9 JAN 68)
A063483	1 OCT 78	5-1-030 (N)	ANALYTICAL MODELING AND COMPUTER SIMULATION OF SYSTEMS
718565	31 MAR 69	5-1-031 (N)	CINETHEODOLITES
768009	3 APR 73	5-1-032 (M)	TROPIC ENVIRONMENTAL TEST OF MISSILE AND ROCKET SYSTEMS
872619	26 JUN 70	5-2-090 (A)	STARTER, EXTERNAL, GASOLINE AND ELECTRIC
718571	19 JAN 67	5-2-500 (N)	TESTS OF SOLID PROPELLENT SYSTEMS
718696	13 JAN 67	5-2-501 (N)	TEST OF LIQUID PROPELLENT SYSTEMS
718706	14 MAR 67	5-2-503 (N)	RESTRAINED FIRING TEST PROCEDURES
718232	8 JAN 68	5-2-504 (N)	STRUCTURAL TESTING FOR NONOSCILLATING STEADY STATE AND TRANSIENT LOADS (Cl, 2 Feb 68)
725538	DEC 66	5-2-506 (N)	SHOCK TEST PROCEDURES
718718	10 APR 67	5-2-507 (N)	VIBRATION TEST
718734	22 MAR 67	5-2-508 (N)	ACOUSTIC TEST PROCEDURES
718560	24 JUL 67	5-2-509 (N)	AERODYNAMIC HEATING
718552	15 DEC 67	5-2-510 (N)	NOISE TESTS OF GUIDANCE COMPONENTS
718668	6 DEC 67	5-2-511 (N)	FIRE CONTROL OPERATIONS
870598	20 MAR 70	5-2-512 (N)	INVESTIGATION OF MISSILE SYSTEM AERODYNAMICS
718717	17 JUN 68	5-2-513 (N)	MISSILEBORNE ACCELEROMETER TESTS
718656	6 FEB 68	5-2-515 (N)	MISSILEBORNE PRESSURE ALTIMETERS
718733	15 FEB 68	5-2-516 (N)	PRESSURE TRANSMITTERS
718669	14 DEC 67	5-2-519 (N)	MOVING TARGET INDICATORS
718716	18 OCT 67	5-2-520 (N)	RANGING SYSTEM TEST
718556	3 JAN 68	5-2-524 (N)	MISSILEBORNE GUIDANCE AND CONTROL SUBSYSTEM TESTS
871341	30 MAR 70	5-2-526 (N)	MISSILEBORNE OPTICAL RECEIVERS AND TRANSMITTERS
763324	5 JUN 73	5-2-527 (N)	RECEIVER (INFRARED SEEKERS)
718233	8 DEC 67	5-2-528 (N)	GROUND GUIDANCE SYSTEM TESTS (Cl, 8 Mar 68)
718234	7 DEC 67	5-2-529 (N)	RADAR RECEIVERS
718235	5 DEC 67	5-2-530 (N)	TRANSMITTER TESTS
718567	28 DEC 67	5-2-531 (N)	GROUND GUIDANCE COMPUTERS
718236	11 MAR 68	5-2-532 (N)	COMPUTERS (ELECTRONIC)
718561	25 JAN 68	5-2-533 (N)	MISSILEBORNE COMPUTER (MECHANICAL)
718557	8 MAR 68	5-2-534 (N)	MISSILEBORNE COMPUTERS (ELECTROMECHANICAL)
728593	14 MAR 68	5-2-538 (N)	SERVOMECHANISMS
718554	12 JUL 68	5-2-539 (N)	MISSILEBORNE ELECTRICAL POWER SUPPLY TESTS
718555	9 MAY 67	5-2-540 (N)	MISSILEBORNE GAS-OPERATED POWER SUPPLY TESTS (PNEUMATIC AND HOT GAS)
718553	4 JAN 68	5-2-542 (N)	MISSILEBORNE HYDRAULIC POWER SUPPLIES

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718589	16 MAR 67	5-2-582 (N)	TEMPERATURE - ALTITUDE TESTS
A047970	11 DEC 75	5-2-585 (N)	CHEMICAL TESTS (PROPELLANTS, GASES, AND METALS)
718238	29 FEB 68	5-2-586 (N)	CENTRIFUGE TEST PROCEDURES
718239	10 AUG 67	5-2-587 (N)	PHOTOSTRESS METHOD OF STRUCTURAL DATA ACQUISITION
718244	31 JAN 68	5-2-599 (N)	CREEP TEST PROCEDURES
726003	30 JAN 68	5-2-606 (N)	COMBINED STRUCTURAL ENVIRONMENTAL TESTS
718788	12 JAN 71	5-3-101 (H)	MISSILE, AIR-TO-GROUND (C1, 20 JUL 73)
871334	25 MAR 70	5-3-534 (L)	VULNERABILITY TO DETECTION AND IDENTI- FICATION
718659	22 OCT 68	5-4-001 (P)	DESERT ENVIRONMENTAL TESTING OF MISSILE ROCKET SYSTEMS

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718590	9 JUL 69	6-1-001 (L)	TESTING COMMUNICATION, SURVEILLANCE, AND AVIONIC ELECTRONIC EQUIPMENT
720207	6 FEB 68	6-2-013 (L)	ABSOLUTE ALTIMETERS
718577	1 AUG 67	6-2-015 (L)	AMPLIFIERS, GENERAL
720208	3 OCT 67	6-2-020 (L)	RADAR ANTENNA SUBSYSTEM TESTS
720209	16 DEC 68	6-2-030 (L)	BEACON DEVICES, ELECTRONIC
719094	17 SEP 68	6-2-034 (A)	CHRONOGRAPH, FIELD ARTILLERY
719679	28 MAR 69	6-2-035 (L)	COMBAT SURVEILLANCE SYSTEMS
718579	22 SEP 69	6-2-050 (L)	SIGNAL CONVERTERS
718638	31 DEC 68	6-2-052 (L)	COUNTERMEASURES EQUIPMENT, NONCOMMUNICATION SYSTEMS
869897	25 MAR 70	6-2-055 (L)	COMMUNICATION SECURITY EQUIPMENT
866467	15 DEC 69	6-2-060 (L)	DATA PROCESSING EQUIPMENT
720969	25 SEP 69	6-2-063 (L)	COMPUTER, DIGITAL, FIELD ARTILLERY, AND PROGRAMS FOR ARTILLERY APPLICATIONS
718635	25 SEP 69	6-2-065 (L)	DATA TRANSMISSION EQUIPMENT
718636	27 NOV 68	6-2-070 (L)	DIRECTION FINDER SET, RADIO
718637	1 JUN 67	6-2-075 (L)	DISTANCE MEASURING EQUIPMENT (DME), GENERAL
718608	1 DEC 67	6-2-080 (L)	FACSIMILE SETS
718609	28 AUG 68	6-2-089 (L)	FLASH UNIT, ELECTRONIC
718642	12 MAR 69	6-2-090 (L)	FLIGHT LINE ANALYZERS
718605	19 NOV 68	6-2-095 (L)	FUZE JAMMER COUNTERMEASURES EQUIPMENT
866651	15 DEC 69	6-2-105 (L)	GROUND STATION, GEODETIC, RADIO RANGING
718643	18 AUG 69	6-2-110 (L)	HANDSET, TELEPHONE
720558	18 AUG 69	6-2-115 (L)	HEADSETS (EARPHONES)
718644	1 FEB 68	6-2-120 (L)	HEADING REFERENCE SYSTEMS (C1, 13 FEB 70)
718645	8 DEC 67	6-2-135 (L)	INFRARED EQUIPMENT, GENERAL (C1, 27 FEB 70)
867067	16 JAN 70	6-2-140 (L)	INTEGRATED AIRCRAFT INSTRUMENTATION
720582	11 AUG 69	6-2-145 (L)	INTERCOMMUNICATION SETS
718620	18 AUG 69	6-2-160 (L)	LANDING CONTROL CENTRALS
718621	27 NOV 68	6-2-165 (L)	LASERS (C1, 28 JUN 73)
720579	7 OCT 69	6-2-166 (A)	LASERS RANGEFINDERS
718599	22 SEP 69	6-2-175 (L)	LIE DETECTORS, RECORDING
718598	1 MAR 67	6-2-182 (L)	METEOROLOGICAL EQUIPMENT, BALLOONS
718628	19 MAR 68	6-2-183 (L)	METEOROLOGICAL EQUIPMENT, CLOUD HEIGHT SET (BEAM TYPE)
720580	21 JUN 68	6-2-184 (L)	METEOROLOGICAL EQUIPMENT; INFLATION, TETHERING, AND LAUNCHING EQUIPMENT
866529	15 DEC 69	6-2-185 (L)	METEOROLOGICAL SOUNDING SYSTEMS
718646	6 JUN 68	6-2-186 (L)	METEOROLOGICAL EQUIPMENT; METEOROLOGICAL STATIONS, MANUAL OR AUTOMATIC
870954	20 MAR 70	6-2-189 (L)	METEOROLOGICAL EQUIPMENT, WIND MEASURING, SURFACE
720557	30 APR 68	6-2-200 (L)	TDM-PCM MULTIPLEXERS

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866227	15 DEC 69	6-2-205 (L)	NAVIGATION EQUIPMENT, AUTOMATIC
718601	27 MAR 68	6-2-206 (L)	NAVIGATION EQUIPMENT, DOPPLER
759926	1 FEB 73	6-2-210 (L)	POWER SUPPLY, ELECTRICAL
720554	1 NOV 67	6-2-215 (L)	PUBLIC ADDRESS SET
720581	18 APR 69	6-2-220 (L)	RADAR, FIELD ARTILLERY
718604	4 APR 69	6-2-222 (L)	RADAR, TARGET AND RANGING
718602	28 JAN 69	6-2-223 (L)	WEATHER RADAR
718619	7 APR 69	6-2-230 (L)	RADIO CONTROL EQUIPMENT
720970	1 JAN 68	6-2-235 (L)	RATE-OF-CLIMB INDICATORS
718617	1 SEP 67	6-2-242 (L)	RECEIVER-TRANSMITTER, GENERAL
718627	24 JAN 68	6-2-245 (L)	RECORDING AND REPRODUCING EQUIPMENT, TAPE
720972	18 AUG 69	6-2-250 (L)	RELAYS, RADIO
718622	16 APR 69	6-2-262 (L)	SUPPRESSORS, VOLTAGE TRANSIENT
720578	MAR 67	6-2-265 (L)	SWITCHBOARDS, MANUAL
718647	1 DEC 67	6-2-280 (L)	TELETYPEWRITER EQUIPMENT
720555	26 NOV 68	6-2-285 (L)	TEST SETS, ELECTRONIC
718629	5 JUN 69	6-2-288 (L)	TERMINALS, RADIO
720210	29 JAN 69	6-2-290 (L)	TERMINALS, TELEGRAPH AND TELEPHONE
718631	1 MAY 67	6-2-295 (L)	TERRAIN AVOIDANCE EQUIPMENT
718630	1 MAY 68	6-2-300 (L)	TOWERS AND MASTS
718632	11 JUL 69	6-2-315 (L)	TROPO-SCATTER COMMUNICATIONS SYSTEMS
721599	14 AUG 68	6-2-326 (L)	WIRE AND CABLE (C1, 11 SEP 68; and C2, 5 MAY 72)
718633	21 OCT 69	6-2-327 (L)	CABLE AND WIRE DISPENSERS
720211	21 AUG 68	6-2-329 (L)	REELING MACHINES
869899	20 MAR 70	6-2-330 (L)	DIRECTION FINDING EQUIPMENT, GYROSCOPES
868939	26 FEB 70	6-2-331 (L)	FLASH RANGING EQUIPMENT
720974	25 SEP 69	6-2-332 (L)	NUCLEAR YIELD MEASURING DEVICES
869898	20 MAR 70	6-2-333 (L)	SEISMIC DETECTION AND RANGING
866620	15 DEC 69	6-2-334 (L)	SURVEY SYSTEMS, AIRBORNE
781946	7 MAY 74	6-2-335 (A)	TEST, MEASUREMENT, AND DIAGNOSTIC EQUIP- MENT (SYSTEM PECULIAR)
869926	23 MAR 70	6-2-503 (L)	RELIABILITY
871133	25 MAR 70	6-2-504 (L)	MAINTENANCE/MAINTAINABILITY
718650	MAR 67	6-2-507 (L)	SAFETY
AO54097	12 SEP 77	6-2-508 (L)	VULNERABILITY, ELECTROMAGNETIC
718651	6 JUN 68	6-2-514 (L)	ELECTRICAL POWER REQUIREMENTS
867020	15 DEC 69	6-2-515 (L)	TRANSMITTER RANGE TESTS
721891	26 DEC 67	6-2-516 (L)	ADEQUACY OF SHELTER AND VAN-MOUNTED LIGHTING, VENTILATION, AIR-CONDITIONING, AND HEATING EQUIPMENT
718634	1 MAY 67	6-2-517 (L)	FREQUENCY ACCURACY AND STABILITY
876257	6 AUG 70	6-2-521 (L)	ENGINEERING INTELLIGIBILITY TESTING OF VOICE COMMUNICATION EQUIPMENT

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867176	7 NOV 69	6-2-535 (L)	FUNGUS TEST
866904	30 DEC 69	6-2-540 (L)	VIBRATION TESTS
866662	15 DEC 69	6-2-541 (L)	SHOCK TESTS
775446	1 FEB 74	6-2-542 (A)	ELECTROMAGNETIC INTERFERENCE TESTS FOR ELECTRONIC EQUIPMENT
BO41697	MAR 79	6-2-543 (L)	IDENTIFICATION FRIEND OR FOE (IFF) SYSTEMS PERFORMANCE
AO88149	11 JUL 80	6-2-544 (L)	RADIO RECEIVER SENSITIVITY (NONPULSED)
AO86463	12 MAY 80	6-2-545 (L)	RADIO RECEIVER, SPURIOUS RESPONSE
AO88519	11 JUL 80	6-2-550 (L)	RADIAC DOSIMETER CALIBRATION ACCURACY
AO92271	29 OCT 80	6-2-551 (L)	RADIAC RATEMETER CALIBRATION ACCURACY
AO82639	28 MAR 80	6-2-552 (L)	GAMMA RAY SOURCE CALIBRATION
BO53045	2 SEP 80	6-2-553 (L)	CAMOUFLAGE, ATTENUATION, FIELD (RADAR)
BO53046	19 SEP 80	6-2-554 (L)	CAMOUFLAGE, ATTENUATION, LAB (RADAR)
AO69335	28 FEB 79	6-2-555 (L)	RADAR RECEIVER BANDWIDTH
AO55798	20 APR 78	6-2-558 (L)	RF POWER OUTPUT (AM, FM, SSB), NONPULSED
AO56647	10 APR 78	6-2-559 (L)	ELECTROMAGNETIC RADIATION ANALYSIS
AO78944	12 OCT 79	6-2-560 (L)	COMPATIBILITY, ELECTROMAGNETIC
AO86440	29 FEB 80	6-2-561 (L)	DOSIMETER DIRECTIONAL DEPENDENCE, RADIAC
AO92235	19 NOV 80	6-2-562 (L)	RATEMETER DIRECTIONAL DEPENDENCE, RADIAC
AO90591	29 AUG 80	6-2-563 (L)	RADIAC DOSIMETER LEAKAGE TEST
AO95680	11 FEB 81	6-3-013 (H)	TESTING AIRCRAFT INSTRUMENTS
AO92825	31 JUL 80	6-3-025 (H)	FUNCTIONAL TESTING, COMMUNICATION EQUIP- MENT (AVIONICS)
872670	22 MAY 70	6-3-026 (H)	PROXIMITY WARNING DEVICES (C1, 28 Feb 73)
718785	14 DEC 70	6-3-027 (H)	ACOUSTICAL (GUN) FIRE-DETECTION SYSTEMS
871552	7 MAY 70	6-3-028 (H)	VOICE WARNING SYSTEMS
720569	14 JAN 71	6-3-037 (H)	TARGET DETECTION AND ACQUISITION DEVICES (C1, 13 JUL 73)
718578	14 MAR 69	6-3-052 (L)	COUNTERMEASURES EQUIPMENT, NONCOMMUNI- CATIONS SYSTEMS
872272	25 MAR 70	6-3-060 (L)	DATA PROCESSING EQUIPMENT
871131	25 MAR 70	6-3-061 (L)	COMPUTER, ANALOG
868079	11 FEB 70	6-3-062 (L)	COMPUTERS, DIGITAL
718652	24 MAR 69	6-3-070 (L)	DIRECTION FINDER SET, RADIO
719675	7 JAN 71	6-3-090 (H)	FLIGHT LINE ANALYZERS (C1, 13 JUL 73)
868558	11 FEB 70	6-3-105 (L)	GROUND STATION, GEODETIC, RADIO RANGING
875679	22 JUL 70	6-3-120 (H)	HEADING REFERENCE SYSTEMS (C1, 28 FEB 73)
727789	10 JUN 71	6-3-121 (H)	AUTO PILOT
723028	19 MAR 71	6-3-126 (H)	AIRBORNE TRANSPONDERS (IFF/AIR TRAFFIC CONTROL)
720552	14 JAN 71	6-3-166 (H)	LASER SYSTEMS, AIRBORNE
AO97115	3 MAR 81	6-3-205 (H)	FUNCTIONAL TESTING, AIRBORNE NAVIGATION EQUIPMENT
876131	9 SEP 70	6-3-223 (H)	RADAR, WEATHER
877648	21 OCT 70	6-3-295 (H)	TERRAIN AVOIDANCE EQUIPMENT

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718618	7 AUG 69	6-3-329 (L)	REELING MACHINES
720567	15 JAN 71	6-3-335 (H)	AERIAL RADIOLOGICAL DETECTION EQUIPMENT (AIR)
872266	25 MAR 70	6-3-505 (L)	EMPLACEMENT, ACTION AND MARCH ORDER
A095679	30 NOV 80	6-3-527 (M)	TESTING OF SENSOR MATERIEL
867319	12 NOV 69	6-4-001 (P)	DESERT (FIELD) ENVIRONMENTAL TESTING OF COMMUNICATION, SURVEILLANCE, AND AVIONIC ELECTRONIC EQUIPMENT
720577	4 JAN 71	6-4-003 (M)	COMMUNICATION, SURVEILLANCE, AND AVIONIC ELECTRONIC EQUIPMENT
876133	28 JUL 70	6-4-004 (E)	ARCTIC ENVIRONMENTAL TEST OF TACTICAL RADIO COMMUNICATIONS EQUIPMENT
868940	10 MAR 70	6-4-005 (E)	ARCTIC ENVIRONMENTAL TEST OF SURVEY, SURVEILLANCE, AND TARGET ACQUISITION SYSTEMS
873565	5 JUN 70	6-4-006 (E)	ARCTIC ENVIRONMENTAL TEST OF TACTICAL WIRE COMMUNICATIONS EQUIPMENT

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872273	3 JUN 70	7-1-004 (P)	ARMY AIRCRAFT ARMAMENT (C1, 14 MAR 74)
759148	2 OCT 72	7-1-005 (P)	DESERT ENVIRONMENTAL TESTING OF AIRCRAFT ARMAMENT
A070758	1 JUN 79	7-1-006 (P)	ARMY AIRCRAFT FIRE CONTROL SYSTEMS PERFORMANCE EVALUATION
737177	15 JAN 72	7-2-009 (A)	AIRCRAFT ROCKET SUBSYSTEMS
731189	1 SEP 71	7-2-011 (A)	AIRCRAFT GUIDED-MISSILE SUBSYSTEMS
726910	8 JUN 71	7-2-013 (A)	AIRCRAFT MINE AND MUNITION DISPENSING SUBSYSTEMS
871331	25 MAR 70	7-2-040 (L)	DRONE AIRCRAFT
871332	25 MAR 70	7-2-041 (L)	DRONE GUIDANCE, CONTROL, TRACKING, AND PLOTTING COMPONENTS
867036	4 DEC 69	7-2-050 (A)	FIRE-DETECTING SYSTEMS, AIRCRAFT
723036	12 MAR 71	7-2-055 (A)	GROUND SUPPORT SERVICE EQUIPMENT (AVIATION)
719100	10 APR 67	7-2-056 (A)	SHELTERS - TENTS (AVIATION)
726893	1 JUL 71	7-2-057 (A)	TOOL SETS, AVIATION
871345	2 APR 70	7-2-065 (A)	LIGHTS, RUNWAY
721606	22 NOV 67	7-2-070 (A)	MAT SETS, LANDING
871335	19 MAY 70	7-2-085 (A)	HELMETS (AVIATION)
725540	17 MAY 71	7-2-086 (A)	OXYGEN AND PROTECTIVE MASKS (AVIATION)
723030	19 MAR 71	7-2-087 (A)	CLOTHING (AVIATION)
725541	10 MAY 71	7-2-090 (A)	RESCUE EQUIPMENT, PERSONNEL AIRCRAFT - CRASH
868623	26 NOV 69	7-2-095 (A)	SURVIVAL EQUIPMENT (AVIATION)
745092	20 APR 72	7-2-100 (P)	TIEDOWN, CARGO, AIRCRAFT
868557	26 NOV 69	7-2-105 (A)	TRACTOR, WHEELED, AIRCRAFT, TOWING
741240	15 FEB 72	7-2-506 (P)	AIRDROP SYSTEMS SAFETY
A068709	5 APR 79	7-2-509 (P)	AIRDROP
744811	20 APR 72	7-2-510 (P)	AIRDROP SYSTEM COMPONENTS
A053617	31 JAN 78	7-2-511 (H)	AIRCRAFT MILITARY UTILITY AND FUNCTIONAL TESTS
A063879	3 NOV 78	7-2-512 (P)	SIMULATED AIRDROP TEST - WEAPONS AND INDIVIDUAL EQUIPMENT
870552	7 APR 70	7-3-015 (H)	AIRCRAFT ARMAMENT
729602	1 AUG 71	7-3-016 (H)	AIRCRAFT FIRE CONTROL SYSTEM
870450	17 APR 70	7-3-050 (H)	FIRE-DETECTION SYSTEMS, AIRCRAFT
719101	25 JAN 71	7-3-051 (H)	ENVIRONMENTAL CONTROL UNIT (ECU)
726872	1 JUL 71	7-3-054 (H)	AIRCRAFT REFUELING/DEFUELING SYSTEMS
719102	10 DEC 70	7-3-055 (H)	SERVICING UNITS (AVIATION)
721153	9 MAR 71	7-3-056 (H)	SHELTERS - TENTS (AVIATION)
719103	16 DEC 70	7-3-057 (H)	MAINTENANCE TOOL SETS (AVIATION)
734853	1 NOV 71	7-3-058 (H)	BUILT-IN TEST EQUIPMENT
733283	1 NOV 71	7-3-059 (H)	DIAGNOSTIC AND INSPECTION EQUIPMENT (AIRCRAFT)



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721155	26 FEB 71	7-3-064 (H)	AIRBORNE SEARCHLIGHTS (C1, 6 Mar 73)
872647	25 JUN 70	7-3-065 (H)	LIGHTS, RUNWAY
719104	15 DEC 70	7-3-066 (H)	APPROACH SYSTEMS (TERMINAL AIR TRAFFIC CONTROL FACILITY)
724080	26 APR 71	7-3-085 (H)	HELMETS (AVIATION)
719105	25 JAN 71	7-3-086 (H)	OXYGEN AND PROTECTIVE MASKS (AVIATION)
719106	23 DEC 70	7-3-087 (H)	CLOTHING (AVIATION)
720563	27 JAN 71	7-3-090 (H)	RESCUE EQUIPMENT, AIRCRAFT CRASH
720225	21 JAN 71	7-3-095 (H)	SURVIVAL EQUIPMENT (AVIATION)
870455	17 APR 70	7-3-105 (H)	TRACTOR, WHEELED, AIRCRAFT, TOWING (C1, 15 MAR 72)
723031	4 MAR 71	7-3-110 (H)	TRAINER, FLIGHT SIMULATOR
729534	1 AUG 71	7-3-120 (H)	STATIC ELECTRICITY DISSIPATER
A053196	27 NOV 77	7-3-500 (H)	PHYSICAL CHARACTERISTICS (AVIATION MATERIEL)
723032	15 MAR 71	7-3-501 (H)	PERSONNEL TRAINING
877647	19 OCT 70	7-3-502 (H)	INSTALLATION CHARACTERISTICS (AIRCRAFT ALLIED EQUIPMENT AND SUBSYSTEMS)
A047260	31 AUG 77	7-3-503 (H)	ARRIVAL INSPECTION/PREOPERATIONAL INSPECTION (AVIATION MATERIEL)
A041021	9 DEC 76	7-3-506 (H)	SAFETY (AVIATION MATERIEL)
720528	8 FEB 71	7-3-507 (H)	MAINTENANCE (MAINTAINABILITY/AVAILABILITY)
A053400	28 JUL 77	7-3-508 (H)	RELIABILITY (AVIATION MATERIEL)
A055595	15 MAY 78	7-3-509 (H)	COMPATIBILITY, RELATED EQUIPMENT (AVIATION MATERIEL)
720561	26 FEB 71	7-3-514 (H)	ADEQUACY OF TECHNICAL MANUALS
A074883	17 AUG 79	7-3-519 (H)	PHOTOGRAPHIC AND VIDEO IMAGE SUPPORT (AVIATION MATERIEL)
A074049	31 AUG 79	7-3-521 (H)	CLIMATIC CHAMBER TESTING (AIRCRAFT, ENGINES, ARMAMENT, AND AVIONICS)
A056976	31 MAY 78	7-3-522 (H)	AIRCRAFT DEFOGGING AND DEFROSTING (TRANSPARENT AREAS)
729603	1 SEP 71	7-3-523 (H)	INFRARED SUPPRESSION DEVICES
729851	1 SEP 71	7-3-524 (H)	RADAR REFLECTIVITY
728454	10 JUN 71	7-3-526 (H)	INTERNAL/EXTERNAL NOISE
A068951	18 OCT 78	7-3-527 (H)	INTERNAL/EXTERNAL LIGHTING (AVIATION MATERIEL)
A074128	31 AUG 79	7-3-528 (H)	AIRCRAFT ANTI-ICING/DE-ICING
720570	29 JAN 71	7-4-005 (M)	AVIATION EQUIPMENT AND AIRCRAFT ARMAMENT
867368	26 NOV 69	7-4-006 (E)	ARCTIC ENVIRONMENTAL TEST OF ROTARY WING AIRCRAFT
866905	26 NOV 69	7-4-007 (E)	ARCTIC ENVIRONMENTAL TEST OF FIXED WING AIRCRAFT
876376	23 JUL 70	7-4-008 (E)	ARCTIC ENVIRONMENTAL TEST OF AVIATION SUPPORT EQUIPMENT
871344	8 MAY 70	7-4-009 (E)	ARCTIC ENVIRONMENTAL TEST OF AIRDROP PLATFORMS
721607	5 DEC 69	7-4-010 (E)	ARCTIC ENVIRONMENTAL TEST OF AIRCRAFT ARMAMENT
719110	29 JUL 69	7-4-011 (E)	ARCTIC ENVIRONMENTAL TEST OF PERSONNEL AND CARGO PARACHUTES

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733296	1 NOV 71	8-1-001 (B)	TESTING CHEMICAL, BIOLOGICAL, AND RADIOLOGICAL EQUIPMENT
868257	16 FEB 70	8-2-011 (B)	FILLING APPARATUSES, CHEMICAL LANDMINE
721609	6 OCT 69	8-2-013 (B)	SHIPPING CONTAINERS, TOXIC CHEMICAL AGENT
865922	15 MAY 69	8-2-014 (B)	DISPENSING PUMPS, HAND-DRIVEN, LIQUID CHEMICAL AGENT
719114	30 SEP 67	8-2-061 (B)	DECONTAMINATING APPARATUS. PORTABLE
720978	6 OCT 69	8-2-062 (B)	DECONTAMINATING APPARATUSES, POWER-DRIVEN, VEHICULAR- OR SKID-MOUNTED
866468	10 DEC 69	8-2-063 (B)	DECONTAMINATING KITS, INDIVIDUAL, FIELD
719115	21 MAY 69	8-2-064 (L)	RADIAC CALIBRATORS
719125	31 JAN 68	8-2-066 (B)	ALARMS, BIOLOGICAL
718772	31 OCT 67	8-2-070 (B)	CHEMICAL AGENT DETECTOR KITS
868299	3 MAR 70	8-2-072 (B)	SAMPLING AND ANALYZING KITS, CBR AGENT
718768	2 OCT 67	8-2-082 (B)	DISPERSERS, RIOT CONTROL AGENT, PORTABLE
718767	31 JAN 69	8-2-083 (B)	DISPERSERS, RIOT CONTROL AGENT, VEHICULAR OR HELICOPTER MOUNTED
871761	27 APR 70	8-2-084 (B)	GENERATORS, SMOKE, MECHANICAL
720980	25 AUG 69	8-2-085 (B)	SMOKE POTS
871762	25 AUG 69	8-2-092 (B)	GRENADES, HAND OR WEAPON LAUNCHED, SMOKE, COLORED, MARKING
718746	31 OCT 67	8-2-093 (B)	HANDGRENADES, RIOT CONTROL
A091737	OCT 80	8-2-110 (B)	MASKS, PROTECTIVE
868301	1 JUN 69	8-2-113 (B)	BREATHING APPARATUSES, SELF-CONTAINED AIR/OXYGEN SUPPLY
868303	1 MAY 69	8-2-114 (B)	RESPIRATORS
718736	31 OCT 67	8-2-121 (B)	LANDMINES, CHEMICAL
867049	25 NOV 69	8-2-136 (B)	IMPREGNATING SETS, CLOTHING, FIELD
718740	17 FEB 68	8-2-162 (B)	WARHEADS, ROCKET, CHEMICAL AGENT
871815	13 OCT 69	8-2-164 (B)	WARHEADS, ROCKET AND GUIDED-MISSILE, CHEMICAL AGENT
718737	10 JUN 69	8-2-172 (L)	RADIAC SURVEY INSTRUMENTATION
718739	30 SEP 67	8-2-181 (B)	BOMBLETS, CHEMICAL
718748	31 OCT 67	8-2-186 (B)	SCREENING SMOKE DISSEMINATION SUBSYSTEM FOR ARMY AIRCRAFT
718850	25 AUG 69	8-2-187 (B)	TANKS, SPRAY, ANTIPERSONNEL, ANTICROP, AND DEFOLIANT AGENT
718752	31 OCT 67	8-2-190 (B)	TARGET AND AREA SMOKE MARKING MUNITION SUBSYSTEM FOR ARMY AIRCRAFT
725542	27 OCT 67	8-2-191 (B)	ALARMS, CHEMICAL
719127	30 NOV 67	8-2-192 (B)	COLLECTIVE PROTECTION SYSTEMS, VEHICLES AND VANS
721278	30 NOV 67	8-2-193 (B)	COLLECTIVE PROTECTION SYSTEMS, FIELD SHELTERS

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868358	2 MAR 70	8-2-194 (B)	COLLECTIVE PROTECTORS, FIXED INSTALLATION
718769	30 NOV 67	8-2-195 (B)	MULTIPLE SUBMUNITIONS SYSTEMS, RIOT CONTROL
718741	30 DEC 67	8-2-500 (B)	RECEIPT INSPECTION
718743	31 JAN 68	8-2-509 (B)	RADIOGRAPHY
718852	30 SEP 67	8-2-510 (B)	DECONTAMINATION
718849	29 FEB 68	8-2-511 (B)	LEAK TESTING OF PROTECTIVE EQUIPMENT
733301	1 NOV 71	8-2-512 (B)	LEAK TESTING OF CHEMICAL AGENT-FILLED MUNITIONS AND CONTAINERS
733297	1 NOV 71	8-2-513 (B)	DISSEMINATION CHARACTERISTICS, CHEMICAL MUNITIONS/DISSEMINATION DEVICES
746226	28 MAR 72	8-2-514 (M)	MICROBIOLOGICAL AIR SAMPLING IN THE TROPICS
A072672	1 AUG 79	8-2-553 (B)	SAFETY EVALUATION - CB ITEMS
726350	5 MAR 71	8-3-080 (H)	AIRBORNE DISSEMINATION DEVICES (C1, 1 DEC 71)
872076	24 JUN 70	8-3-083 (H)	DISPERSER, RIOT CONTROL AGENT - HELICOPTER MOUNTED
872077	22 MAY 70	8-3-186 (H)	SCREENING SMOKE DISSEMINATION SUBSYSTEM FOR ARMY AIRCRAFT
871791	4 MAY 70	8-3-190 (H)	TARGET AND AREA SMOKE MARKING MUNITION SUBSYSTEMS FOR ARMY AIRCRAFT
721281	30 DEC 68	8-4-001 (P)	DESERT ENVIRONMENTAL TEST OF CHEMICAL, BIOLOGICAL, AND RADIOLOGICAL EQUIPMENT (C1, 7 NOV 71)
878321	13 OCT 70	8-4-003 (M)	CHEMICAL EQUIPMENT
719130	29 DEC 67	8-4-004 (B)	LONG-TERM SURVEILLANCE/ENVIRONMENTAL TESTING OF CB EQUIPMENT AND CHEMICAL MUNITIONS AND WEAPONS (C1, 1 NOV 71)
720983	23 JUN 69	8-4-005 (E)	ARCTIC ENVIRONMENTAL TEST OF CB ALARMS AND COLLECTIVE PROTECTION SYSTEMS
719131	15 JAN 70	8-4-006 (E)	ARCTIC ENVIRONMENTAL TEST OF CB PROTECTIVE CLOTHING, PROTECTIVE MASKS, AND WINTERIZATION KITS
719132	29 AUG 69	8-4-007 (E)	ARCTIC ENVIRONMENTAL TEST OF DECONTAMINATION EQUIPMENT AND IMPREGNATION/REIMPREGNATION EQUIPMENT
734847	18 FEB 70	8-4-008 (E)	ARCTIC ENVIRONMENTAL TEST OF CB AGENT DELIVERY DEVICES
871907	30 MAR 70	8-4-010 (E)	ARCTIC ENVIRONMENTAL TEST OF FLAME EQUIPMENT
872078	8 JUN 70	8-4-011 (E)	ARCTIC ENVIRONMENTAL TEST OF SMOKE MUNITIONS AND GENERATING EQUIPMENT
867073	26 NOV 69	8-4-012 (E)	ARCTIC ENVIRONMENTAL TEST OF CHEMICAL AGENT DETECTOR KITS
867022	26 NOV 69	8-4-014 (E)	ARCTIC ENVIRONMENTAL TEST OF WATER HANDLING, WATER STORAGE, AND WATER PURIFICATION EQUIPMENT

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726889	5 JUN 71	9-1-001 (A)	CONSTRUCTION, SUPPORT, AND SERVICE EQUIPMENT
879230	6 NOV 70	9-2-010 (A)	BATH UNITS
725544	17 MAY 71	9-2-016 (A)	BUILDINGS, PREFABRICATED
738844	23 FEB 72	9-2-027 (A)	BRIDGES AND EQUIPMENT
734854	1 DEC 71	9-2-046 (A)	CONVEYOR EQUIPMENT
775433	2 AUG 67	9-2-063 (A)	CRANE TRUCK, WAREHOUSE
726892	1 JUL 71	9-2-064 (A)	CRANE SHOVEL, TRACKED AND WHEELED
739589	9 MAR 72	9-2-071 (A)	EARTH LOADING EQUIPMENT
877649	5 OCT 70	9-2-072 (A)	TRAILER, CABLE REEL
746228	22 MAY 72	9-2-082 (A)	EARTHMOVING EQUIPMENT
737714	12 APR 72	9-2-111 (A)	PAVING EQUIPMENT
873523	30 JUN 70	9-2-116 (A)	CRUSHING, SCREENING, AND WASHING PLANT
872824	6 JUL 70	9-2-124 (A)	ROAD GRADERS
726004	1 JUL 71	9-2-145 (A)	LIQUID TRANSPORTING AND DISPENSING EQUIPMENT
721611	23 MAR 70	9-2-155 (A)	MOTORS, ELECTRICAL
872320	26 JUN 70	9-2-166 (A)	AIR COMPRESSOR
871779	18 MAY 70	9-2-167 (A)	HANDTOOLS, PNEUMATIC
718572	5 MAR 68	9-2-181 (A)	PUMP, CENTRIFUGAL
718573	11 MAR 68	9-2-182 (A)	PUMP, RECIPROCATING
869820	25 MAR 70	9-2-201 (A)	BLOCK AND TACKLE
872323	23 JUN 70	9-2-202 (A)	HOISTS, CHAIN AND WIRE ROPE
876405	3 AUG 70	9-2-203 (A)	CUTTERS, FLOOR MOUNTED
871744	22 MAY 70	9-2-207 (A)	LATHES
721282	25 AUG 69	9-2-211 (A)	SANDERS, BELT OR DISK
875670	28 JUL 70	9-2-212 (A)	TOOL SETS
718574	9 JUN 67	9-2-235 (A)	TANKS, PETROLEUM LIQUID STORAGE, FABRIC, COLLAPSIBLE
718592	3 JUL 67	9-2-236 (A)	TANKS, LIQUID STORAGE, METAL
731190	1 AUG 71	9-2-240 (A)	TRACTORS, WHEELED, AGRICULTURAL
759772	18 AUG 72	9-2-251 (A)	WATERWAY EQUIPMENT - BOAT, BARGE, MOTOR
726911	27 MAY 71	9-2-270 (A)	WATER SUPPLY AND TREATMENT EQUIPMENT
718791	23 DEC 70	9-2-285 (A)	DUST CONTROL MATERIAL
869839	25 MAR 70	9-2-286 (A)	POWER GENERATORS
738845	14 JAN 72	9-2-294 (A)	POL SUPPORT EQUIPMENT
759236	26 JAN 73	9-2-305 (A)	RADIOGRAPHIC EQUIPMENT SET
726906	1 AUG 71	9-2-503 (A)	DURABILITY
718595	30 AUG 68	9-4-001 (P)	DESERT ENVIRONMENTAL TESTING OF CONSTRUCTION, SERVICE, AND SUPPORT EQUIPMENT
720562	13 JAN 71	9-4-003 (M)	CONSTRUCTION, SUPPORT, AND SERVICE EQUIPMENT

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866906	3 DEC 69	10-1-003 (P)	DESERT TERRAIN
759771	2 OCT 72	10-1-004 (P)	DESERT ENVIRONMENTAL TEST OF GENERAL SUPPLIES AND EQUIPMENT
741868	30 DEC 71	10-2-011 (A)	BAKERY EQUIPMENT
763001	6 FEB 73	10-2-021 (A)	COMBAT UNIFORMS AND PROTECTIVE EQUIPMENT
719139	4 APR 68	10-2-023 (A)	INDIVIDUAL LOAD-CARRYING EQUIPMENT
719140	28 FEB 69	10-2-030 (A)	DRAFTING EQUIPMENT
741928	1 MAY 72	10-2-036 (A)	FIELD HEATING AND COOKING EQUIPMENT
742516	20 APR 72	10-2-050 (A)	FIREHOSES AND ASSEMBLIES
867353	12 JUL 69	10-2-051 (A)	FIRE EXTINGUISHERS
719144	19 MAY 69	10-2-060 (B)	FUEL THICKENERS, FLAMETHROWER
719145	23 MAY 69	10-2-066 (A)	FANS, ELECTRIC
870553	28 JUL 69	10-2-067 (A)	BOILERS, STEAM AND HIGH-TEMPERATURE WATER
719146	3 JUL 69	10-2-068 (A)	DEHUMIDIFIERS
742517	20 APR 72	10-2-072 (A)	HEATING EQUIPMENT
719178	12 MAY 67	10-2-080 (A)	CONTAINERS, PALLETS, PALLET CONTAINERS, CONEX CONTAINERS
719183	12 JUN 69	10-2-085 (A)	LUBRICATING AND SERVICING UNITS
719184	16 APR 69	10-2-100 (A)	PRESERVATION AND PACKING EQUIPMENT
725551	22 MAY 69	10-2-106 (A)	BINOCULARS
719185	21 MAR 68	10-2-107 (A)	METASCOPIES - INFRARED, IMAGE FORMING
719186	20 AUG 68	10-2-108 (L)	STEREOSCOPIES
719187	12 JUN 69	10-2-109 (A)	TELESCOPES
719188	16 APR 69	10-2-110 (L)	THEODOLITES
741865	14 JAN 72	10-2-124 (A)	PRINTING EQUIPMENT
734846	1 DEC 71	10-2-130 (A)	PHOTOGRAPHIC EQUIPMENT
719194	6 JUN 69	10-2-137 (A)	PROJECTOR, STILL PICTURE
868365	10 MAR 70	10-2-138 (A)	PROJECTION SET, MOTION PICTURE
725552	10 MAY 71	10-2-145 (A)	AIR-CONDITIONERS
719195	31 JUL 69	10-2-146 (A)	ICEMAKING MACHINES
719196	15 APR 69	10-2-151 (A)	CLOTHING REPAIR SHOP, TRAILER MOUNTED
719197	25 NOV 68	10-2-152 (A)	TEXTILE REPAIR SHOP, TRAILER MOUNTED
719198	16 APR 69	10-2-153 (A)	SHOE REPAIR SHOP, TRAILER MOUNTED
719199	26 MAY 69	10-2-154 (A)	SHOP EQUIPMENT, GENERAL PURPOSE AND ORGANIZATION REPAIR, VEHICULAR MOUNTED
729600	14 JUL 71	10-2-160 (A)	SLEEPING GEAR
719200	10 MAR 69	10-2-165 (A)	SURVIVAL KITS
719201	JUN 67	10-2-175 (A)	TENTS AND SHELTERS
719202	11 APR 69	10-2-180 (L)	THERMOMETERS
873575	30 JUN 70	10-2-185 (A)	VECTOR CONTROL EQUIPMENT
719203	4 DEC 68	10-2-191 (A)	BUOYS, MOORING
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1-1-006

AD-766261

10 Aug 72

DESERT ENVIRONMENTAL CONSIDERATIONS

Provides background information on the test of materials in a desert environment. Discusses desert environmental characteristics, climate, temperature, solar radiation, humidity, terrain, desert types, desert terrain, classification, distribution, sand, dust, vegetation, and camouflage. Appendixes provide world extreme hot-dry temperature distribution and computation of Yuma degree-hour levels. Applies to desert testing. Not applicable to testing of food and clothing.

1-1-007

AD-770035

1 Aug 73

DESERT MAINTENANCE CONSIDERATIONS

Provides background information relative to maintenance during desert environmental tests. Discusses general and unique maintenance requirements, problems, and evaluation guidance. Applies to all materiel.

1-1-008

AD-744812

31 Mar 72

TROPIC ENVIRONMENTAL CONSIDERATIONS

Provides background information on the test of materials in a tropical environment. Discusses tropic environmental characteristics, climate, damaging factors and elements, properties of materials, protection and degradation of materials, human factors, and sound and visibility in the jungle. Applies to tests in the Canal Zone, Isthmus of Panama. Not applicable to laboratory testing.

1-1-010

AD-A027361

12 Apr 76

VEHICLE TEST COURSE SEVERITY

Provides a method of evaluating vehicle test course severity by committee assessment using accelerometers and by spectral analysis of course irregularities. Describes use of profilometer and conversion of profilometer data to power spectral density curves. Includes power spectral densities of APG endurance test courses for vehicles.

1-1-011

AD-A027035

17 Mar 76

VEHICLE TEST FACILITIES AT APG

Describes APG facilities for testing wheeled and tracked vehicles including vehicular weapon systems. Includes photographs and drawings showing test course dimensions and characteristics. Does not cover equipment and instrumentation used on the courses nor laboratory facilities except for climatic test chambers.



1-1-012

AD-A068750

1 Apr 79

## CLASSIFICATION OF DEFICIENCIES AND SHORTCOMINGS

Describes criteria for consistent classification of deficiencies and shortcomings in test and evaluation reports. Provides guidance concerning the mapping of hazard probability and severity into deficiency and shortcoming classifications. Discusses cause and effect relationship of failures and other test incidents.

1-1-019

AD-739588

29 Nov 71  
Cl, 19 Nov 74

## TESTING ARMAMENT AND INDIVIDUAL WEAPONS

Provides background information relative to testing armament and individual weapons. Applies to volume 3, TOP's. Identifies cognizant agencies and offices. Discusses environmental testing, test plans, safety during testing, and acceptance test requirements.

1-1-045

AD-741927

17 Mar 72

## GENERAL SUPPLIES AND EQUIPMENT TESTING

Provides background information relative to testing general supplies and equipment. Groups general supplies and equipment according to functional use. Identifies the items of equipment considered to be in the category of food and food preparation; fuel; shelter; general and special purpose clothing and equipment; heating, cooling, and ventilation equipment; photographic, printing, and optical equipment; and miscellaneous support equipment. Discusses safety considerations, experimental design, instrumentation techniques, statistical techniques, and data reduction. Applies to volume 10, TOP's.

1-1-050

AD-781517

4 Mar 74

## VIBRATION TESTING

Provides background information on the theory and principles of laboratory vibration testing to simulate field vibration environments. Discusses test item structural considerations, data acquisition and interpretation, sinusoidal and complex motion-type vibration schedules, vehicle behavior, and vibration test equipment and instrumentation. Applies to most Army materiel and transportation modes. Does not cover shock, except as interrelated to the field environment, and does not provide vibration test schedules. (Standardized test techniques to be appended at a later date.)

1-1-051

AD-755987

20 Jun 72

## AMMUNITION AND EXPLOSIVES

Describes a method for evaluating ammunition and explosives functional performance characteristics. Discusses preparation for test, facilities, and equipment required. Provides procedures for initial inspection, initial performance, tropic storage, transportation, handling, emplacement, functional performance, maintainability, and safety. Identifies data required and specifies analysis methods. Applies to artillery and small arms ammunition, ammunition components, demolition materiel, mines, and pyrotechnics. Limited to field testing in the tropics.

1-1-052

AD-770910

10 Apr 73

## TROPICAL VEGETATION MEASUREMENTS

Describes a technique for predicting the number of trees in large areas of tropical forests from small samples. Also describes a method for estimating tree height from tree diameter. The techniques described have applications in evaluating the effects of vehicular mobility, weapons and/or munitions, electromagnetic propagation, surveillance systems, and air-delivered items in tropical forests.

1-1-054

AD-A039084

29 Mar 74

## GROUND-TO-GROUND TARGET DETECTION IN THE TROPIC FORESTS

Provides standard objective procedures for measuring ground-to-ground target detection ranges in tropic forests. Purposes for procedures are to determine the effect of a test item on an observer's ability to detect a standard target in the jungle, or to determine the detectability of a test item emplaced in the jungle. Procedures are provided separately for stationary and moving targets. Procedures may not be applicable when the target to be detected is large and cumbersome or very small and not capable of movement under its own power. Procedures are an excellent example of objectivity and realism in human factors measurement.

1-1-056

AD-A046962

15 Nov 77

## SOFTWARE TESTING

Describes 12 objectives and generalized procedures for system level testing of software in tactical embedded-computer systems at TECOM field activities. Emphasizes the "early" areas of coordination with the developer to enable proper and complete test design, execution, and evaluation.

1-2-500

AD-765456

22 Jul 76

C2, 24 Aug 76

C3, 20 Mar 79

## TRANSPORTABILITY

Describes a method for evaluating military equipment transportability characteristics. Discusses preliminary activities, facilities, and equipment required. Provides procedures for lifting and tiedown attachments; rail, highway, and marine transportability; terminals handling and movement; air portability, fixed and rotary wing, internal and external carried, to include airdropped materiel; shock; vibration; safety; human factors; and maintenance evaluation. Appendixes provide railway loading procedures, highway vehicle and load limits, marine transport environmental factors and characteristics, aircraft capacities, and shock and vibration environments during transport by rail, sea, and air. Applies to equipment whether towed, self-propelled, or moved by carrier over highway, cross-country, railway, waterway, or air.

1-2-502

AD-759770

14 Sep 72

C1, 13 Aug 73

## DURABILITY TESTING

Provides a method for planning and conducting durability tests. Applies to all items for which durability criteria exist or can be developed. Defines prerequisites and describes nonparametric and moderately distribution-free methods of developing desired confidence levels of durability. Includes supporting tables for each method (sample size versus failures and versus test times, respectively, for various confidence levels) and examples of application of moderately distribution-free methods.

1-2-504

AD-759419

31 Oct 72

## PHYSICAL CHARACTERISTICS

Describes a method for evaluating materiel physical characteristics. Discusses preliminary activities, facilities, and equipment required. Provides procedures for wheeled, tracked, and special purpose vehicles; armament and individual weapons; ammunition and explosives; missile and rocket systems; electronic, avionic, and communications equipment; aviation, air delivery equipment, and aircraft weapons subsystems; chemical and radiological equipment; construction, support, and service equipment; and general procedures for center of gravity, moments of inertia; special measurements; and projectile characteristics.

TECOM Pam 310-4

1-2-510

AD-A042716

2 Mar 76

#### LOGISTICS-OVER-THE-SHORE (LOTS)

Provides a method for evaluating the LOTS capabilities of military equipment including cargo and vehicles. Describes subtests for watertightness, vehicle stability, marine transport, maneuverability, beaching capabilities, fording operations, soils trafficability, beach mobility, seashore exposure, performance under adverse conditions (high wind, heavy rain, high waves, beach obstacles), and safety evaluation. Discusses site and facilities selection, safety factors, and other test planning requirements and human factors and maintenance evaluations. Applies to movement of cargo and vehicles, including towed, self-propelled, and by carrier, over the shore between ocean transportation and shoreside facilities, without benefit of port facilities; loading/unloading onto and from landing craft, amphibians, other transporters, helicopters, storage areas, and transfer points.

1-2-511

AD-A039703

18 Mar 76

#### ELECTROMAGNETIC RADIATION EFFECTS AND/OR HAZARDS TEST

Provides methods for instrumenting and testing Army materiel to determine the effect of an electromagnetic environment on the operation and/or safety of the materiel.

1-2-601

AD-A093705

22 Dec 80

#### LABORATORY VIBRATION SCHEDULES

Provides schedules for conducting laboratory vibration tests of Army materiel and discusses selection of schedules. Covers simulated logistical transportation of secured cargo and tactical transportation of equipment installed in ground vehicles and helicopters and mounted externally on helicopters. Schedules include vibration levels, frequencies, and test time for various simulations. Applies to ammunition (including close support rockets and missiles) and to electronic, mechanical, and optical equipment. Does not include vibration environments for equipment installed in fixed wing aircraft, missiles, and ships. Does not describe test fixtures and instrumentation which are covered in another TOP.

1-2-605

AD-A088657

28 Aug 80

#### BIREFRINGENT COATING TECHNIQUE, PHOTOELASTIC STRESS ANALYSIS

Describes the birefringent coating technique of photoelastic evaluation of surface stress. Includes test equipment and instrumentation, calibration tests, static and dynamic loading, and photographic requirements.

1-2-608

AD-A046109

3 Jun 77

## SOUND LEVEL MEASUREMENTS

Provides methods of measuring noise levels of materiel as a means of evaluating personnel safety, speech intelligibility, and security from acoustic detection. Covers steady-state and impulse noise from military vehicles, weapon systems, and noise-generating machinery. Includes impulse noise tests of explosive ordnance materiel. Not applicable to explosive ordnance blast effects such as lethality.

1-2-609

AD-(see chapter 3)

Dec 78

## INSTRUCTIONAL MATERIAL ADEQUACY GUIDE AND EVALUATION STANDARD (IMAGES)

Provides material to be used for evaluating Army technical manuals, including Integrated Technical Documentation and Training (ITDT) manuals accompanying equipment or systems to be tested by TECOM. Evaluation criteria are prepared in 14 volumes. Each volume is a self-contained document including evaluation criteria abstracted from governing specifications MIL-M-38734 and MIL-M-63000 series. It encompasses evaluation criteria and procedures for determining if Army technical manuals are written in accordance with governing specification requirements and that the contents are adequate, accurate, and understandable at the intended user level. It includes data collection forms for recording manual deficiencies, a classification of defects card for classifying their severity, and a summary sheet for determining manual quality.

1-2-610

Part I AD-A051481

20 Dec 77

Part II AD-A051482

## HUMAN FACTORS ENGINEERING

Provides material to be used for the human factors engineering (HFE) assessment of all types of materiel and systems tested by TECOM. Supplementary sources of guidance are indicated when required. It encompasses HFE procedures for testing design and functional performance and environmental considerations for the major test functions (operability, maintainability, transportability, portability/usability, erectability, and habitability) applicable to the HFE assessment. Part I (Test Procedures) provides guidance on how to plan and conduct an HFE test. This part also includes specific test procedures and sample data collection forms, such as checklists, questionnaire/interview sheets, and other data collection forms. Part II (Human Factors Engineering Data Guide for Evaluation (HEDGE)) provides planning guidance concerning what to test and includes guidance in the selection of applicable test functions, test conditions, performance tasks, and detailed design criteria.

1-2-611

Part I AD-A051732  
Part II AD-A051733

20 Jan 78

## COLD REGIONS HUMAN FACTORS ENGINEERING

Provides material to be used for the human factors engineering (HFE) assessment of all types of materiel and systems tested by the US Army Cold Regions Test Center (USACRTC). Supplementary sources of guidance are indicated when required. It encompasses HFE procedures for testing design and functional performance and environmental considerations for the major test functions (operability, maintainability, transportability, portability/usability, erectability, and habitability) applicable to the HFE assessment. Part I (Test Procedures) provides guidance on how to plan and conduct an HFE test. This part also includes specific test procedures and sample data collection forms, such as checklists, questionnaire/interview sheets, and other data collection forms. Part II (Human Factors Engineering Data Guide for Evaluation (HEDGE)) provides planning guidance concerning what to test and includes guidance in the selection of applicable test functions, test conditions, performance tasks, and detailed design criteria.

1-2-612

AD-A069845

12 Apr 79

## NUCLEAR RADIATION EFFECTS

Provides procedures for determining the effects of neutron, gamma, and residual radiation on Army materiel. The materiel tested includes such weapons systems as tanks, missile systems, artillery systems, personnel carriers, aircraft, electronic equipment, radiac equipment, and combat support equipment.

1-2-613

AD-A063571

9 Nov 78

## NUCLEAR EFFECTS TESTS OF ARMY MATERIEL (BLAST)

Provides procedures for performing nuclear weapon blast effects tests on Army weapon systems and combat support materiel. Discusses types of blast facilities used to simulate the nuclear weapon blast environment. Covers test procedures, safety, and instrumentation. Applies to vehicles (land, amphibious, tracked, wheeled), missile systems, self-propelled or towed guns, and electronic equipment.

1-2-616

AD-A087977

May 80

## TROPIC EXPOSURE TESTING

Describes general procedures for atmospheric exposure of metals, natural and synthetic polymers, and other materials in a tropic environment.

2-1-001

AD-874023

10 Jul 70

## TESTING WHEELED, TRACKED, AND SPECIAL PURPOSE VEHICLES

Provides background information relative to testing tactical land vehicles and certain special vehicles. Applies to volume 2, TOP's. General coverage of cognizant agency responsibilities, type tests, test management, plans and reports, and policy as pertains to methodology, facilities, and TOP's.

2-1-002

AD-717986

15 Jul 68

## AUTOMOTIVE LABORATORY INSTRUMENTATION

Provides background information on instrumentation as associated with testing engines, transmissions, and other power train components. Applicable to many fields. Basic coverage of the various techniques in power absorption and measurement, temperature measurement and control, pressure measurement, fluid flow, and dimensional measurement.

2-1-004

AD-866463

30 Dec 69

## TELEMETRY

Provides information on radio telemetry systems relative to collecting performance data from missiles and projectiles in flight or vehicles in motion; such as, switch opening or closing, time between events, operation of VT fuzes and fuze functioning, engine temperature, fuel flow, oil pressure, velocity, engine RPM, torque, strain, acceleration, and displacement. Discusses methods of transmission, efforts to standardize radio telemetry, radio frequency allocations, subcarrier bands, PAM/FM/FM commutation, modulation, transmitter and receiver frequency allocations, ground (receiving) stations, and airborne (transmitting) stations.

2-1-005

AD-875668

27 Jul 70

## AUTOMOTIVE FIELD TEST EQUIPMENT AND INSTRUMENTATION

Discusses field dynamometers, load absorption trailers, and instrumentation capabilities. Identifies instrumentation for measuring drawbar pull, resistance to roll, temperature, pressure, road speed, torque, strain, stopping distance, fuel flow, load distribution, and toxic fumes. Discusses data recording instrumentation (van mounted) for shock and vibration and sound pressure level measurements by radio telemetry or cable to test vehicle.

TECOM Pam 310-4

2-1-006

AD-872906

19 May 70

#### MECHANICAL SHOCK

Defines mechanical shock, excitation, response, and shock effects. Discusses piezoelectric and strain resistance accelerometers, strain and displacement gages, and velocity pickups for measurement of shock. Prescribes oscillographic and/or magnetic tape recorders for collecting time history versus displacement, velocity, and acceleration data. Discusses data reduction and presentations in the time and frequency domains. Excludes the means of imposing shock on the materiel involved.

2-2-014

AD-759149

5 Jan 73

#### CARRIERS, FULL-TRACKED (AUTOMOTIVE)

Describes a method for evaluating full-tracked carrier physical and operational performance characteristics. Identifies supporting tests, facilities, and equipment required. Provides procedures for initial inspection, servicing, vehicle characteristics, safety, endurance, durability, reliability, and test procedures.

2-2-020

AD-764203

23 Mar 73

#### TRAILERS, SEMITRAILERS, AND DOLLIES

Provides guidance for testing trailers, semitrailers, and dollies to insure conformance with required operational capabilities, development plans, and other guidance documents. By reference to official documents, describes subtests involved in preparing test plans. Includes supplementary instructions on test planning, initial inspection and servicing, vehicle characteristics, safety evaluation, endurance, durability, and reliability.

2-2-040

AD-764772

21 Mar 73

#### MISSILE SUPPORT VEHICLES

Provides guidance for evaluating missile support vehicle physical and operational characteristics. Identifies supporting tests, facilities, and equipment required. Discusses preparation for test requirements. Provides procedures for initial inspection, servicing, vehicle characteristics, safety, endurance, durability, and reliability. Applies to wheeled and tracked vehicles such as self-propelled launcher, loader transporter, launcher trailer, and missile support truck.



2-2-070

AD-764201

21 Mar 73

**MAIN BATTLE TANKS**

Prescribes a method for evaluating main battle tank physical and operational performance characteristics. Identifies supporting tests, facilities, and equipment required. Provides procedures for test preparation, initial inspection, vehicle characteristics, safety, hydraulic systems, endurance, durability, and reliability. Applies to full-tracked recovery vehicles.

2-2-100

AD-740164

1 Mar 72

**TRUCKS AND TRACTORS**

Describes a method for evaluating truck and tractor physical and performance characteristics relative to suitability for service use. Identifies supporting tests, facilities, and equipment required. Establishes policy for conducting initial inspection and servicing, testing not specifically covered by the materiel need requirements, and concurrent testing of accessory items. Not applicable to trucks in the category of construction, support, and service equipment such as concrete spreaders, forklifts, and warehouse cranes.

2-2-106

AD-764204

12 Mar 73

**FORKLIFTS**

Provides guidance for conducting development tests I, II (ET), and III of forklifts. Applies to electric and engine-driven forklifts and to rough terrain forklifts. Covers test planning, inspection, test team training, and vehicle run-in requirements; and technical performance, operational performance, and high and low temperature storage tests.

2-2-131

AD-759924

26 Mar 73

**RECOVERY VEHICLES, FULL-TRACKED**

Describes a method for evaluating recovery vehicle performance and operational characteristics. Identifies supporting tests, facilities, and equipment required. Provides procedures for test preparation, initial inspection, vehicle characteristics, safety, hydraulic systems, endurance, durability, and reliability. Applies to full-tracked recovery vehicles.

## VEHICLE CHARACTERISTICS

Prescribes procedures for evaluating vehicle and major component characteristics. Discusses test preparation requirements for identity and recording nomenclature, model, serial number, and design information for major components. Prescribes vehicle, major component, and system descriptive elements required; such as, dimensions, weight, size, clearance, pressure, make, type, quantity, capacity, capability, ratio, limits, and output. Specifies data obtained during performance testing. Supporting tests include fuel consumption, drawbar pull, brakes, steering, gradeability, standard obstacles, fording, electrical systems, acceleration, maximum and minimum speeds, engine, power train, center of gravity, load distribution and ground pressure, self-propelled artillery, and gun control systems.

2-2-501

AD-A092393

18 Nov 60

## SWIMMING TESTS OF WHEELED AND TRACKED VEHICLES

Provides detailed tests to assess the swimming abilities of tactical wheeled and tracked vehicles.

2-2-503

AD-732337

15 Jun 66

## MAINTENANCE (VEHICLE)

Provides guidance for evaluating vehicle maintenance based on frequency of maintenance services, labor (man-hours), ease of maintenance, analysis of service and adjustment, analysis of repair and replacement, cost of parts, environmental effects, tools, standardization and parts interchangeability, adequacy of maintenance package, and safety of maintenance operations. Discusses project engineers' responsibilities and cumulative records required under temperate, adverse, arctic, tropic, and high altitude environmental conditions. Specifies acceptance - rejection criteria for use if sample size precludes the use of MIL-STD-471. Provides vehicle design criteria for compatibility with supply objectives.

2-2-505

AD-A045341

14 Jul 77

## INSPECTION AND PRELIMINARY OPERATION OF VEHICLES

Describes procedures for pretest inspections and break-in operation of vehicles. Includes guidance for followup inspections during and after the test of the vehicle. Applies to wheeled, tracked, and special purpose ground vehicles such as construction equipment. Does not cover characteristics inspections.

2-2-506

AD-A037827

9 Sep 76

**ENDURANCE TESTING OF TRACKED AND WHEELED VEHICLES**

Provides a method of evaluating the endurance of tracked and wheeled vehicles. Prescribes mileage or hours of operation over standard test courses, including land and water, for the various types of vehicles, interspersed with vehicle mission tests. Covers loads, towed loads, speeds, maintenance, and inspections and use of the tachograph for recording speed, mileage, and operating time. Applies to all types of vehicles except materials handling equipment.

2-2-508

AD-A086989

11 Jan 80

**AUTOMOTIVE SAFETY AND HEALTH HAZARD EVALUATION**

Describes procedures to identify and evaluate real and potential safety and health hazards that exist in military tracked and wheeled vehicles. Referenced test procedures are taken in part from Federal Motor Vehicle Safety Standards (FMVSS) and several TOP's. Safety tests include the following procedures to evaluate existing and potential hazards: static vehicular stability, braking, steering, human factors, sound level, toxic gas level, stowage, safety aspects of maintenance, weapon system safety, overhead guards, and FMVSS requirements.

2-2-511

AD-A043540

12 Jul 77

**ROAD TESTS OF MOBILE WEAPONS**

Provides a method of evaluating the capability of towed carriers, such as cannon carriages, air defense artillery mounts, and missile launchers, to withstand tactical movement without damage to the weapon or vehicle. Covers brake systems, slope performance, towing resistance, turning capability, endurance, and vibration effects of deep water immersion. Does not cover tests of the armament.

2-2-512

AD-718727

1 Jan 67

**AIRBORNE VEHICLES**

Describes procedures for evaluating the air portability and airdrop characteristics of automotive vehicles. Handling and loading characteristics, altitude, deceleration, suspension system, and static drop and post drop/flight operability tests are included.

2-2-513

AD-717995

5 Oct 66

**FOREIGN VEHICLES**

Provides a system for thorough evaluation of friendly and enemy foreign vehicles and armament. Prescribes 51 supporting tests, in order of increasing severity, to be performed as appropriate. Applies when only one test item is available.

TECOM Pam 310-4

2-2-520

AD-876402

30 Jul 70

#### LOGISTICS-OVER-THE-SHORE (LOTS) (VEHICLES)

Describes a method for evaluating vehicles and associated equipment LOTS characteristics. Discusses requirements for operator training and familiarization, cargo handling equipment, physical characteristics, initial inspection, inventory of basic issue items, kit installation, water tightness, and instrumentation before testing. Test procedures include vehicle stability in water, steering and maneuverability, cooling capacity, mobility (beach area, into and out of surf), toxic fumes, maintenance evaluation, human factors evaluation, safety, and value analysis.

2-2-537

AD-723410

15 Apr 71

#### CARGO LOADING ADAPTABILITY (CLA)

Provides guidance for evaluating cargo vehicle loading adaptability. Defines cargo loading adaptability, carriers, cargo, and type of operations. Discusses cargo considerations, terminal and loading aspects, and transporting procedures. Prescribes evaluation procedures relative to truck, aircraft, ship, and railroad car carriers; gas, liquid, packaged, boxed, bulk material, vehicle, and palletized cargo; interchange of cargo in the storage area and at air, rail, and vehicle terminals; and test vehicle acceptance of cargo, accommodation of materials handling equipment, and physical mating with the terminal.

2-2-601

AD-A045343

20 Jun 77

#### ELECTRICAL SYSTEMS (VEHICLES AND WEAPON SUBSYSTEMS)

Provides procedures for evaluating vehicle electrical system performance including power supply for weapon and other subsystems. Discusses power load planning, test temperatures, initial inspections, and instrumentation. Describes tests at rated and 75 percent rated voltage for engine starting power and individual/cumulative internal component requirements. Other tests cover generator/alternator performance, electromagnetic interference, high/low temperature effects, water/humidity effects, reliability, and weapon subsystem demands. Applies to electrical systems of wheeled and tracked vehicles, helicopters, and small, armed boats equipped with lead-acid batteries, nickel-cadmium batteries, or other special type batteries.

2-2-602

AD-A091708

8 Aug 80

Cl, 28 Jan 81

#### ACCELERATION: MAXIMUM AND MINIMUM SPEEDS

Describes the method of acceleration for achieving maximum and minimum speeds of tracked or wheeled vehicles.

2-2-603

AD-A046842

1 Nov 77

## VEHICLE FUEL CONSUMPTION

Describes the tests to measure and evaluate wheeled and tracked vehicle fuel consumption under both controlled and typical service operating conditions. Applies to land and amphibious vehicles with internal combustion engines.

2-2-604

AD-A086956

18 Jul 80

## DRAWBAR PULL

Describes procedures for evaluating vehicle power available for acceleration, towing, or hill climbing. Defines drawbar pull. Includes procedures for hard surface, soil, and water tests. Discusses vehicle preparation, instrumentation method of computing results, data reduction, and presentation. Establishes curves for comparing performance with similar vehicles and for predicting gradeability. Applies to wheeled, tracked, and amphibious vehicles.

2-2-605

AD-A086144

25 Jun 80

## TOWING RESISTANCE

Describes procedures for determining vehicle power losses attributable to the suspension system and vehicle braking effect available for descending grades. Discusses vehicle preparation, instrumentation, data reduction, and data presentation. Applies to wheeled and tracked vehicles.

2-2-607

AD-A093823

13 Jan 81

## COOLING SYSTEMS (AUTOMOTIVE)

Provides guidance on evaluating the cooling characteristics of engine, power train, and auxiliary components when subjected to full- and part-throttle vehicle operations, repeated steering maneuvers, and exposure to extreme environments.

2-2-608

AD-719084

15 Jan 71

## BRAKING, WHEELED VEHICLES

Prescribes procedures for evaluating wheeled vehicle brake systems. Discusses test courses, instrumentation, and vehicle preparation. Provides procedures for safety evaluation; brake burnishing, holding, and stopping ability; recovery after immersion in water; trailer breakaway holding ability; maximum pedal effort; actuation and release time; pedal effort versus input pressure; and low temperature effects. Describes mountain highway test procedures for high temperature performance, fade, wear, and endurance characteristics. Discusses data reduction and presentation. Prescribes a system for recording test data.

TECOM Pam 310-4

2-2-609

AD-A086957

18 Jul 80

#### STEERING

Prescribes procedures for evaluating vehicle steering systems. Describes cramping angle and steering ratio measurement. Includes tests for turning, overall steering performance, lane changing, drift, dead engine steering, control on slopes and adverse terrain, and human factors evaluation. Applies to land steering of wheeled, tracked, and amphibious vehicles.

2-2-610

AD-A086958

18 Jul 80

#### GRADEABILITY AND SIDE-SLOPE PERFORMANCE

Describes procedures for evaluating vehicle gradeability and side-slope performance. Discusses payload, inspection, vehicle performance, safety, and instrumentation. Includes procedures for calculating the critical grade angle before testing and for evaluating brakes, engine, transmission, fuel system, and steering performance during testing. Applies to wheeled and tracked vehicles.

2-2-611

AD-A086938

25 Jun 80

#### STANDARD OBSTACLES

Provides a method for evaluating obstacle-negotiating capability. Describes procedures for bridging, wall climbing, trench crossing, frame twisting, and aircraft/landing-craft loading-ramp tests. Discusses obstacle courses to include a profile sketch of each. Excludes slope, fording, washboard, and other standard obstacle tests covered in other TOP's. Applies to all military vehicles. Addresses obstacles in DARCOM mobility model.

2-2-612

AD-A086959

18 Jul 80

#### FORDING

Provides procedures for evaluating wheeled and tracked vehicle fording ability and the effectiveness of fording kits. Covers shallow water, deep water, underwater, and submerged fording. Describes test courses and equipment; preparation of vehicles and accessories; safety hazards; and performance data including water ingress and egress capability, effects on vehicle operation on hand, and endurance. Discusses emergency exit practices and corrosive effects of saltwater and air. Limited to vehicles designed to negotiate a water obstacle with wheels or tracks in contact with the bottom.

2-2-613

AD-775441

1 Feb 74

**BROADBAND ELECTROMAGNETIC INTERFERENCE TESTING FOR VEHICLES AND ELECTRICAL SUBSYSTEMS - NONCOMMUNICATIONS**

Prescribes procedures for measuring frequencies and amplitudes of electromagnetic emissions from vehicles and vehicular equipment, including noncommunication electrical subsystems, to determine if these emissions will produce interference to the vehicle's electronic and electromechanical equipment. Both radiated and conducted emissions are measured, and radio frequency suppression systems are evaluated. Not applicable to emissions from communications electronic equipment and electric handtools.

2-2-614

AD-A040542

17 Jan 77

**TOXIC HAZARDS TESTS FOR VEHICLES AND OTHER EQUIPMENT**

Provides procedures for measuring carbon monoxide and other toxic gas concentrations produced during the operation of military vehicles and accessories including the firing of armament. Includes measurements in work areas where engines and engine-driven equipment are operated. Describes equipment and instrumentation, standards for exposure limits, and physiological effects of exposures. Includes measurements of gases during vehicle tests with engines and other fuel-burning accessories operating, firing tests of vehicle-mounted weapons, firing tests of vehicular weapons in test chambers, and operation of miscellaneous engine-driven equipment such as generators and compressors.

2-2-615

AD-718687

10 Aug 66

**SECURITY FROM DETECTION (VEHICLES)**

Provides procedures for evaluating vehicle susceptibility to detection characteristics. Discusses preparation for test, instrumentation, limitations, and detection by sight, sound, and infrared techniques. Describes procedures for vehicle detection by size, shape, silhouette, visible hot surfaces, smoke, exhaust flames, ice fog phenomenon, road dust, exterior lights during darkness, interior illumination leakage through openings, infrared equipment, noise characteristics, and ground signature. Provides a method for data reduction and presentation.

2-2-616

AD-718689

13 Sep 68

**NIGHT PERFORMANCE OF COMBAT VEHICLES**

Describes procedures for evaluating combat vehicle night performance. Defines night effectiveness. Discusses vehicle preparation for test, condition, inspection, instrumentation, identification of components, electrical test, personnel, and equipment. Provides test procedures for night mobility, interior illumination, illumination durability, and fire control to include angular resolution, target detection range, weapon laying, target acquisition, and firing tests. Prescribes a method for calculating results, data reduction, and presentation.

TECOM Pam 310-4

2-2-617

AD-A018054

30 Jan 75

#### ARMORED VEHICLE VULNERABILITY TO CONVENTIONAL WEAPONS

Provides a method for overall evaluation of vehicle armor system effectiveness in protecting crew, vehicle, components, and equipment from attack by conventional (non-NBC) weapons. Includes tests for resistance to KE projectiles, bullet splash, HEAT ammunition, landmines, shock-producing impacts, and penetration by fragments; vulnerability of vision devices; immobilization of external components and displacement of internal components; welded joint evaluation; compartmentalization of stowed ammunition; and protection against fuel fires, explosive attack, air attack, and flame weapons. Discusses test planning including interpretation of requirements, test sequencing, inspections, instrumentation, precautions, kill probability definitions, and design and use of anthropomorphic test dummies. Does not include methods of attack not specifically designed for antitank use, nor nuclear, biological, or chemical attack.

2-2-618

AD-718690

30 Nov 66

#### VULNERABILITY OF VEHICLES TO NUCLEAR WEAPONS

Provides a method for evaluating combat vehicle vulnerability to nuclear explosion. Discusses nuclear detonation phenomena. Defines unique nuclear terminology. Discusses pretest requirements for vehicle inspection, physical characteristic data, all identification markings, instrumentation, trained personnel, and test limitations. Describes procedures for shock and blast; thermal, initial, and residual radiation; electromagnetic pulse; radiological decontamination; and internal radioactive contamination. Discusses data reduction and presentation. Not applicable to missile and missile system electronic support equipment or atmospheric nuclear bursts.

2-2-619

AD-871765

21 May 70

#### SOFT-SOIL VEHICLE MOBILITY

Describes a system for evaluating vehicle soft-soil mobility characteristics. Discusses test and standard (comparison) vehicle initial inspection, load installation, weight distribution, tires, physical characteristic data, instrumentation, test limitations, soil preparation, and meteorological data required. Describes procedures for drawbar pull measurements and crossing velocity in sand, loam, and clay. Prescribes a method for data reduction and presentation. Excludes off-road mobility problems created by brush trees, and solid objects.



2-2-620

AD-A019244

13 Nov 75

## RESISTANCE OF ARMORED VEHICLES TO SEVERE SHOCK

Provides a method for evaluating the resistance of armored vehicle fire control and other components to shock from KE projectile impacts and blast and fragmentation from exploding HE projectiles. Describes acceleration, strain, and deflection instrumentation. Tests include high energy impacts on bare armor and "sacrificial" armor, graduated energy impacts with proof projectiles, and static detonations of HE projectiles for blast and fragmentation effects. Describes shock data analysis procedures.

2-2-621

AD-718007

14 May 68

## VEHICLE COLLISION AND ACCIDENT SAFETY TEST

Describes a method for evaluating vehicle accident and collision safety limits. Prescribes pretest requirements for vehicle characteristic data, center of gravity, combat weight, load distribution, instrumentation, equipment, and facilities. Provides procedures for rollover and collision tests. Discusses data reduction and presentation.

2-2-625

AD-871812

27 Oct 69

## MUZZLE BLAST DAMAGE TO COMBAT VEHICLES

Prescribes a system for evaluating muzzle blast and firing shock damage to self-propelled and towed artillery components during firing. Discusses the selection, location, and installation of instrumentation. Prescribes the meteorological, weapon, ammunition, blast, and strain gage data required during firing tests. Discusses data reduction and presentation. Provides several typical data presentation forms.

2-2-626

AD-763293

18 May 73

## OVERLOAD TESTING (VEHICLE)

Describes a method for evaluating vehicle (wheeled and tracked) performance and endurance characteristics under overload conditions. Identifies supporting tests, facilities, and equipment required. Provides procedures for safety, sensitivity, and uncovering weak points. Discusses test mileage, inspections, measurements, and loading. Applies to vehicle and vehicle component structure.

2-2-627

AD-A086960

18 Jul 80

## BRAKING (TRACKED VEHICLES)

Provides a method of evaluating the brake systems of tracked vehicles. Covers brake holding ability, stopping distance, steering brake performance, wet and freezing effects, braking potential, service brake efficiency, fade tests, brake system endurance, and human factors evaluation. Includes test course and instrumentation requirements.

TECOM Pam 310-4

2-2-650

AD-A089535

18 Jul 80

#### ENGINE COLD-STARTING AND WARMUP TESTS

Describes procedures for evaluating the cold-starting capability of military engines with and without the aid of arctic kit engine heaters.

2-2-700

AD-718009

2 Nov 66

#### LABORATORY TESTING OF RECIPROCATING INTERNAL COMBUSTION ENGINES

Provides a system for evaluating engine performance and endurance characteristics. Discusses engine preparation for tests, requirements for initial inspection, physical characteristics, and run-in. Describes instrumentation for speed, temperature, pressure, fuel consumption, exhaust smoke, spark advance, and torque measurements. Provides procedures for maximum HP output, accessory losses, motoring friction, volumetric efficiency, blowby, oil consumption, fuel consumption, octane requirements, cold starting, road load economy, performance, and endurance. Discusses data reduction and presentation format.

2-2-701

AD-A032842

2 Jul 76

#### FUELS AND LUBRICANTS

Prescribes a method for evaluating military fuel and lubricant compatibility with Army vehicles and a method for sampling and spectrometric analysis of lubricants for symptoms of metal wear or contamination. Describes equipment and facilities and basic test requirements. Provides tests for octane and cetane requirements; engine, transmission, and vehicle compatibility; cold starting; and hydraulic, gear oil, and grease systems. Includes a chart of typical fuels and lubricants for Army vehicles and equipment.

2-2-702

AD-718051

19 Jan 66

#### EFFECTS OF ALTITUDE ON AUTOMOTIVE ENGINES

Provides a system for evaluating the effects of altitude on engine performance and power loss. Discusses preparation for test, instrumentation, facilities, equipment, test conditions, and performance requirements. Provides procedures for altitude chamber, simulated altitude chamber, and field tests. Describes data collection, reduction, and presentation. Applies to spark ignition and compression engines.

2-2-703

AD-718010

19 Jan 66

## LABORATORY TESTS OF POWER TRAIN COMPONENTS

Describes procedures for evaluating vehicle engine and power train performance and endurance characteristics. Discusses test preparation requirements for identifying and recording nomenclature, model, serial number, manufacturer, and capacity of components, and the type of lubricant or fluid to be pumped. This includes lot; batch; specification number; chemical analysis, when appropriate; inspection; gaging data; instrumentation; and equipment. Specifies data obtained during performance, endurance, and steering tests; such as, speed, power input and output, fluid/lubricant temperature and pressure, environmental conditions, and operating time. Discusses post-test inspection and gaging, data reduction, and presentation. Not applicable to power train components which involve fluid flow only (air cleaners or mufflers).

2-2-704

AD-A029719

23 Jan 76

## TIRES

Provides procedures for evaluating pneumatic tires for military service. Discusses test preparation requirements for tire, rim, and vehicle. Describes test procedures for endurance, temperature, bead slip, traction, lateral stability, and run flat. Provides a system for collecting and presenting tire wear data.

2-2-705

AD-876375

1 Jul 70

## TRACKS

Prescribes a system for evaluating track and track component performance and endurance characteristics. Discusses link type and flexible band track, selection of test components, characteristic data requirements, instrumentation, and equipment. Provides procedures for laboratory, initial inspection, preliminary operations, optimum track tension adjustment, pull and resistance, temperature, general mobility, grade and slide slope, endurance, wear measurements, track failure, and vibration tests. Discusses endurance standards, data reduction, and presentation.

2-2-706

AD-718012

24 Nov 65

## TRACTION DEVICES

Describes procedures for evaluating wheeled vehicle traction devices. Discusses requirements for test item identification, physical characteristics, assembly and installation data, test and control vehicle preparation, instrumentation, facilities, and restrictions. Provides procedures for installation, preliminary operations, traction, trafficability, durability, and general mobility. Discusses a method for data reduction and presentation.

2-2-707

AD-718013

20 Apr 66

## KITS (VEHICLE)

Provides guidance for evaluating vehicular kits and defines a kit. Discusses preparation for tests, installation, performance, endurance, and safety evaluation. Specifies the procedure for MG mount, bulldozer, traction devices, fording, and climatic environmental kit tests. Discusses data reduction and presentation. Not applicable to vehicle modification kits.

2-2-708

AD-A090590

18 Jul 80

## VEHICLE PERSONNEL HEATER COMPATIBILITY

Describes procedures for evaluating the performance of personnel heater systems when installed in a vehicle. Procedures do not pertain to engine heaters or the establishment of heater operating characteristics.

2-2-709

AD-718015

23 Mar 66

## COMMUNICATIONS EQUIPMENT

Provides procedures for evaluating combat vehicle communications equipment compatibility relative to operation, space, and durability. Discusses procedures for storage and mounting space, ease of operation, antenna flexibility, electrical requirements, vehicle noise interference, operations, and durability in extended vehicle operations. Prescribes the test data required. Discusses data reduction and presentation. Applies to vehicle-mounted communications equipment.

2-2-710

AD-A045676

6 Apr 77

## BALLISTIC TESTS OF ARMOR MATERIALS

Describes methods of evaluating armored vehicle armor. Identifies supporting tests, equipment, and facilities required. Discusses methods for determining resistance to mines; penetration by KE, HEAT, HE, and HEP projectiles; shock; spalling; and for obtaining behind-the-plate lethality data. Appendixes cover criteria for assessment of armor defeat, angle of obliquity, effects of impact on armor and projectile, measurement of projectile yaw, conversion of  $\theta 50$  critical angle to V50 ballistic limit, ballistic limit predictions from models, support for thin plates, procedure for determining  $\theta 50$ , and ballistic data retrieval at APG. Applies to armor plates, castings, and spaced or composite armor tests. Excludes vehicle tests.

2-2-711

AD-A037779

23 Dec 76

## ARMOR WELDMENTS

Provides a method for evaluating armor weldments for resistance to shock or penetration by attacking projectiles. Describes ballistic shock tests of H and double-I plate welds, tests at low temperatures, and shock tests of aluminum corner joints typical in armored vehicle structures; penetration tests of area-defect plates representing repair welds; and explosion-bulge tests for strain limits of armor plates and weldments at various temperatures. Includes data collection forms as well as criteria and terminology used to evaluate and report test results.

2-2-712

AD-A021164

27 Jun 75

## AUTOMOTIVE WINCHES

Describes procedures for evaluating automotive winches. Discusses preliminary test activities and testing conditions. Provides procedures for determining line speed, winch capacity, functional capabilities of system components, and endurance. Not applicable to winches associated with warehouse cranes, power cranes, and shovels.

2-2-714

AD-720525

17 Feb 71

## TRACKED VEHICLE SUSPENSION SYSTEMS

Prescribes a method for evaluating technical performance and safety characteristics of tracked vehicle suspension systems. Discusses test preparation requirements for suspension assembly physical and operational peculiarities. Provides supporting test procedures for suspension assembly configuration, road wheels, sprockets, idler wheels, shock absorbers, springing systems, and extreme temperature operations. Discusses jury testing applicability. Excludes tests covering system vulnerability to enemy gunfire and mines.

2-2-715

AD-A006501

24 Sep 73

## PROTECTION BY ARMORED VEHICLES AGAINST KINETIC ENERGY PROJECTILES

Describes a computational technique for assessing the protection afforded by an armored vehicle against a specific threat (defined in the applicable ROC, DP, or other military requirements document) by a kinetic energy projectile. The attack conditions are limited to ground attack from conventional weapons. Computation is based on previously obtained ballistic data. Discusses the threat and the protection probability, rationale for the technique, special armor considerations, and prerequisites.

2-2-721

AD-768011

9 May 73

## FIELD TESTING OF AUTOMOTIVE ENGINES

Provides guidance for development testing of field performance of automotive engines installed in wheeled and tracked vehicles. Describes preliminary activities and requirements for initial inspection, servicing, and safety evaluation. Lists supporting tests including those applicable to engine performance under severe operating conditions. Provides supplementary instructions covering basic vehicle subtests and endurance, durability, and reliability. Designed primarily for reciprocating internal combustion engines but applicable to other types.

2-2-722

AD-A006988

25 Oct 74

## FRAGMENT PENETRATION TESTS OF ARMOR

Provides techniques for evaluating armor resistance to attack by HE projectile fragments. Describes equipment and facilities. Includes static detonations of shell against armor plate and armored vehicles and firing tests using projectile fragments, fragment simulators, and simulated fragments in a canister. Includes index of test data from static detonations of 150mm and 155mm projectile fragments against armor, fragment characteristic tables, and techniques for calculating fragment perforation probability using Poisson distribution. Applies primarily to vehicular and aircraft armor.

2-2-800

AD-A086961

18 Jul 80

## CENTER OF GRAVITY

Describes standard techniques for determining the center of gravity of heavy equipment including vehicles and large weapons. Covers suspension, reaction, and weighing methods. Includes procedures for calculating the combined center of gravity of two or more masses when attached to each other and considered a single unit. Discusses error factors and factors to be considered in selecting the appropriate method. Applies to wheeled and tracked vehicles, trailers, large weapons, construction equipment, and certain types of warehouse and shop equipment.

2-2-801

AD-871926

22 May 70

## LOAD DISTRIBUTION AND GROUND PRESSURE

Describes procedures for determining load distribution and ground pressure of vehicles. Discusses mean or nominal ground pressure determinations. Describes test preparation load distribution tests and ground pressure tests. Applies to wheeled and tracked vehicles.

2-2-802

AD-A065165

22 Jan 79

## STOWAGE

Describes procedures for evaluating the adequacy of on-equipment materiel (OEM) storage facilities provided in or on vehicles.

2-2-806

AD-718018

10 Aug 66

## TORQUE MEASUREMENTS FOR TRACKLAYERS

Describes a method for evaluating torque measurements relating to overall power train efficiency, track and suspension losses, and transmission and final drive torque under all operating conditions. Discusses instrumentation and installation of gages and measurement of final drive and transmission input torques. Not applicable when tests such as drawbar pull are conducted concurrently.

2-2-808

AD-A075732

26 Sep 79

## FIELD SHOCK AND VIBRATION TESTS OF VEHICLES

Provides a method of evaluating shock and vibration characteristics of vehicles during operation over selected test courses. Describes procedures for measuring structural response and response of components, equipment, cargo, and personnel positions. Describes instrumentation and courses and provides guidelines for determining points at which three standardized levels of human exposure are reached. Applies to wheeled and tracked vehicles.

2-2-812

AD-A074487

18 Jul 79

## INFRARED MEASUREMENTS OF VEHICLES AND WEAPONS

Describes techniques and instrumentation for measuring infrared (IR) radiation during development and production tests of military ground vehicles and weapons. Covers measurements of IR signatures of vehicles and IR temperature measurements of weapon tubes during firing programs. Includes pertinent areas/surfaces/conditions for survey and sample plots, graphs, and photographs for reporting results. Applies to tests conducted on land.

2-2-815

AD-A029317

19 Jun 75

## RAIN AND FREEZING RAIN

Provides a method of evaluating the effects of rain, hail, splash, and freezing rain on Army equipment. Includes simulated free-falling and blowing rain and high-velocity impacts with raindrops. Describes test facilities. Applies to vehicles, equipment, ammunition, small arms, and clothing. Not applicable to large missiles and rockets, snow, sleet, high humidity, mud, submerging, swimming, or slippage of tires on wet roads.

2-2-816

AD-A067422

21 Mar 79

## HIGH- AND LOW-TEMPERATURE TESTS OF VEHICLES

Describes procedures for high- and low-temperature tests of vehicles in test chambers and operational conditions. Discusses related tests such as temperature shock. Addresses requirements of MIL-STD-810C and AR 70-38. Discusses high- and low-temperature effects and provides rationale for test temperatures.

2-2-817

AD-A066798

31 Oct 78

## TROPIC TESTING OF VEHICLES

Describes procedures for conducting mobility subtests in tropic environments. Facilities, instrumentation, test controls, and data required are described, in addition to test procedures for conducting the following mobility subtests: Soil tests: one-pass vehicle cone index, drawbar pull, motion resistance, and acceleration/deceleration; Surface geometry tests: slope negotiation and discrete obstacle; Vegetation tests: single-tree override, multiple-tree override, and grassland override.

2-2-819

AD-A078945

7 Dec 79

## WHEELED AND TRACKED VEHICLE AIR CLEANER ADEQUACY

Prescribes a method of evaluating air cleaner adequacy in wheeled and tracked vehicles in the desert environment.

2-4-001

AD-718044

12 May 69

## DESERT ENVIRONMENTAL TESTING OF WHEELED AND TRACKED VEHICLES

Provides a system for evaluating vehicle operational characteristics in the desert. Describes procedures for test preparation, octane requirements, fuel vapor handling capability, compatibility with specification grades of fuel and lubricants, fuel consumption, engine cooling system, braking, drawbar pull, air cleaner adequacy, mobility, durability, exposure and storage, maintenance, security from detection, human engineering, and safety. Discusses data reduction and presentation. Defines desert testing terminology. Applies to wheeled and tracked vehicles except those intended for sheltered environments.

2-4-002

AD-718045

10 Jul 69

## ARCTIC ENVIRONMENTAL TEST OF TRACKED AND WHEELED VEHICLES

Provides methods for evaluating the suitability of tracked and wheeled vehicles in the arctic. Describes procedures for preoperational inspection, physical characteristics, operational suitability, performance characteristics, mobility, human factors, safety, and maintenance. Discusses data reduction and presentation to include a safety statement. Limited to combat and transport vehicles operating in the arctic winter environment.



2-4-003

AD-718789

22 Jan 71

WHEELED, TRACKED, AND GENERAL PURPOSE VEHICLES .

Describes a method for evaluating vehicle operational characteristics in a tropical environment. Provides procedures for test preparation, operational performance, durability, maintainability, availability, reliability, safety, human factors, value analysis, surveillance, and battlefield day. Discusses data reduction and presentation. Applies to wheeled and tracked vehicles except those intended for sheltered environments.

## CONFIDENCE INTERVALS AND SAMPLE SIZE

Provides background information relative to calculating confidence interval and sample size. Discusses confidence coefficient population characteristics, point estimate, and upper and lower confidence limits. Provides step-by-step examples of procedures for calculating confidence intervals in seven common situations; such as, mean of a normal population with standard deviation known and unknown, standard deviation of a normal population with mean known and unknown, difference between mean of two normal populations of equal sample sizes and standard deviation known or unknown but equal, and the binominal probability of failure. Provides tables for ease in obtaining one or more factors. Applies to analysis of test results and in planning sample size to produce a desired interval.

## METEOROLOGICAL DATA

Provides information on surface and upper air meteorological data collection. Applicable to many fields. Discusses ballistic coefficient calculations, standard atmosphere, and the effect of atmospheric conditions on a projectile in flight. Prescribes the meteorological data required from aloft and at the earth's surface; such as, wind velocity, pressure, temperature, humidity, rain, solar radiation, and tide. Discusses the methods (double theodolite and rawinsonde system) and instrumentation available for measuring meteorological data. Provides seasonal examples of meteorological data measurements.

## ARTILLERY RANGE AND BALLISTIC MATCH FIRINGS (INDIRECT FIRE)

Provides background information for indirect-fire range and ballistic match firing. Discusses selection of ammunition and weapon. Describes a system for laying of weapon to include elevation, azimuth, and direction of final adjustments. Prescribes meteorological requirements. Identifies data desired. Provides a sample firing program. Discusses preparation of firing tables, ballistic match, and calculations. Applies to artillery, recoilless rifles, and mortars. Not applicable to direct-fire tank and antitank guns.

## FIELD ARTILLERY STATISTICS

Provides guidance for planning tests and analyzing test data. Discusses all aspects of statistical procedures associated with service testing to include concepts, median, mean, standard deviation, proportion, accuracy, precision, reliability, and maintenance evaluation. Applies to field artillery materiel. Excludes theoretical background for statistical tests.

3-1-006

AD-876179

3 Aug 70

**STRAIN MEASUREMENT - INSTRUMENTAL**

Provides background information on strain measurement. Describes short-term dynamic strains, resistance strain gages, and electronic methods for obtaining strain test data. Discusses Hook's Law, modulus of elasticity, gage factor, Poisson's Ratio, foil and semiconductor strain gages, test item preparation, gage selection, gage and instrumentation calibration, and data requirements.

3-2-030

AD-746227

12 May 72

**GRENADA LAUNCHERS**

Describes a method for evaluating grenade launcher operational and functional performance characteristics. Identifies supporting tests, facilities, and equipment required. Provides procedures for test planning, malfunctions, initial inspection, safety, assembly, disassembly, dispersion, velocity, accuracy, endurance, attitudes, cookoff, extreme temperatures, temperature-humidity, icing, mud, water spray, sand and dust, saltwater immersion, unlubricated, flash, smoke, and solvent and lubricant compatibility and maintenance evaluation.

3-2-045

AD-729601

1 Aug 71

**MACHINEGUNS AND AUTOMATIC WEAPONS**

Describes a method for evaluating machinegun and automatic weapon performance characteristics. Provides procedures for test preparation, initial inspection, physical characteristics, safety hazards, assembly, disassembly, initial dispersion, accuracy and dispersion, attitude tests, cookoff, reliability, endurance, high temperature (+160°F), low temperature (-50°F), icing, temperature/humidity, fungus, unlubricated, water spray, dynamic sand/dust, static sand/dust, saltwater immersion, mud flash, smoke, noise, belt pull capacity, barrel performance, acceleration, maintenance evaluation, and human factors. Not applicable to hand-held and shoulder-fired machineguns.

3-2-050

AD-375638

18 Jun 70

**MORTARS**

Describes a method for evaluating mortar physical and performance characteristics. Defines a mortar. Provides procedures for initial inspection, physical characteristics, safety hazards, component prefiring functioning and alignment, ambient temperature firing, extreme temperature firing, adverse conditions firing, post-firing inspection, rough handling and transportation, human factors evaluation, tools, and accessories tests. Prescribes the data required. Provides a method for data reduction and presentation.

3-2-056

AD-876256

1 Jul 70

## ROCKET LAUNCHERS (GROUND-TO-GROUND)

Prescribes a system for evaluating rocket launcher physical and performance characteristics. Discusses preoperational requirements for initial inspection, physical and operating characteristics, instrumentation, and facilities. Discusses procedures for safety evaluation, selection of rockets, ambient firing tests, low- ( $-50^{\circ}\text{F}$ ) and high- ( $+165^{\circ}\text{F}$ ) temperature storage and firing, rain, freezing rain, noise, blast, sand, dust, humidity, salt spray, roadability, transportability, rough handling, recoil reaction, accuracy, and manned firing tests. Applies to infantry and artillery rocket launchers. Not applicable to aircraft-mounted launchers.

3-2-059

AD-729843

1 Sep 71

## HAND AND SHOULDER WEAPONS

Describes a system for evaluating hand and shoulder weapon performance characteristics. Provides procedures for test preparation, inspection, physical characteristics, safety, accuracy, cookoff, endurance, high temperature ( $+155^{\circ}\text{F}$ ), low temperature ( $-50^{\circ}\text{F}$ ), humidity, fungus, water spray, dynamic sand and dust, static sand and dust, mud, icing, saltwater immersion, unlubricated, fouling sustained firing, flash, smoke, noise, rough handling, human factors, maintenance, and reliability. Not applicable to mounted machineguns, rifle grenades, or hand-held pyrotechnics. Excludes recoil tests.

3-2-066

AD-759925

16 Feb 73

## RECOILLESS WEAPONS

Describes a method for evaluating recoilless weapon performance characteristics. Identifies supporting tests, facilities, and equipment requirements. Provides procedures for planning, physical measurements, and proof tests; stress-strain, cookoff and rate of fire, high-temperature ( $+165^{\circ}\text{F}$ ), low-temperature ( $-50^{\circ}\text{F}$ ), durability and endurance, rough handling and vehicle transport, and flash tests; and human factors evaluation.

3-2-075

AD-722725

2 Feb 71

## SECONDARY ARMAMENT, VEHICULAR MOUNTED

Describes a system for evaluating combat vehicle secondary armament. Defines primary and secondary weapons. Discusses procedures for initial inspection, physical measurements, safety evaluation, compatibility, non-firing performance, firing, road, endurance, reliability, maintenance evaluation, and human factors. Provides sample calculations. Applies to wheeled and tracked vehicles.

3-2-500

AD-726909

5 Jun 71

## WEAPON CHARACTERISTICS

Describes a method for collecting and documenting weapon characteristics. Discusses instrumentation, facilities, and photographic requirements. Identifies the principal dimensional and functional characteristics required. Prescribes the characteristic data sheet format to include the arrangement of descriptive data. Applies to howitzers, guns, recoilless rifles, mortars, rocket launchers, handguns, magazine-fed shoulder weapons, and automatic weapons. Not applicable to aircraft armament.

3-2-503

AD-A092174

15 Aug 80

## SAFETY EVALUATION OF FIRE CONTROL SYSTEMS - ELECTRICAL AND ELECTRONIC EQUIPMENT

Provides procedures for evaluating the safety of electrical and electronic equipment in fire control systems for tank weapons and field and air defense artillery. Includes checklists as guides for identifying electrical and electronic hazards, mechanical hazards, and miscellaneous other hazards.

3-2-504

AD-A045340

1 Mar 77

## SAFETY EVALUATION OF HAND AND SHOULDER WEAPONS

Provides procedures for evaluating the safety of hand and shoulder weapons during developmental testing. Covers performance tests leading to a safety release and includes guidance for safety evaluation throughout all phases of developmental testing. Applies to rifles, pistols, submachineguns, shotguns, and grenade launchers. Excludes pyrotechnic devices.

3-2-506

AD-A075733

9 Oct 79

## SELF-PROPELLED ARTILLERY

Provides a method of evaluating self-propelled artillery. Covers safety evaluation, functional, and firing tests; human factors engineering; and maintenance evaluation. Includes a data collection sheet for safety considerations. Not applicable to vehicle portion.

3-2-509

AD-718853

29 Dec 70

## ARTILLERY CANNON

Describes a system for evaluating artillery cannon firing characteristics. Discusses pretest requirements for initial inspection, weapon preparation, physical characteristics, instrumentation, and facilities. Provides procedures for prefiring functioning, proof and basic firing, cannon component, rate of fire, blast, bore evaluation, obscuration from smoke and flash, extreme temperature, adverse weather conditions, jump firing, accuracy, dispersion, and postfiring inspection. Discusses data reduction and presentation. Applies to cannon portion of guns and howitzers (40mm to 280mm).

3-2-510

AD-717532

16 May 68

## ARTILLERY CARRIAGES AND MOUNTS

Provides a method for evaluating artillery carriage and mount operating characteristics. Discusses preparation for test, instrumentation, and facilities. Describes procedures for force measurement, carriage, fire-control equipment, lighting equipment, range drum, and elevating quadrant tests. Prescribes a system for data reduction and presentation. Excludes proof firing, special firing, and road tests.

3-2-518

AD-717533

14 May 68

## SUBCALIBER GUNS

Describes a system for evaluating subcaliber guns. Discusses requirements for initial inspection, weapon preparation, physical characteristics, instrumentation, and facilities. Prescribes procedures for prefiring, firing, and data collection. Provides a method for data reduction and presentation. Applies to internally and externally mounted subcaliber guns.

3-2-531

AD-876180

3 Aug 70

## VULNERABILITY OF WEAPONS

Provides a method for evaluating weapon vulnerability to enemy action. Discusses requirements for test preparation, operational performance, instrumentation, facilities, and data required. Prescribes procedures for planning vulnerability study areas to include bullet splash, component immobilization, shock, blast, air attack, projectile penetration, welded joint weakness, and fuel fires. Provides procedures for evaluating vulnerability of armored self-propelled weapon systems, gun tube safety, component, and area. Prescribes a system for data reduction and presentation. Applies to artillery, recoilless rifles, and tank guns. Not applicable to small arms.

3-2-600

AD-A054803

12 Apr 78

## RECOIL SYSTEMS

Provides a method of evaluating the design and performance of weapon recoil systems. Includes static pressure test, gymnastication test, firing tests at ambient and extreme temperatures, and durability test. Applies to artillery cannon, including field, tank, self-propelled, and air defense artillery.

3-2-602

AD-A036767

3 Sep 76

## GUN STABILIZATION SYSTEMS (VEHICULAR)

Describes a method of evaluating vehicular gun stabilization system performance over standardized test courses. Includes tests for frequency response, hull displacement, and stabilizer performance in firing and non-firing modes with both stationary and moving targets. Appendixes provide test summary charts.

3-2-603

AD-A037012

13 Aug 76

## GUN CONTROL SYSTEMS (VEHICULAR)

Provides a method of evaluating the performance characteristics of tank gun control systems. Covers azimuth indicator backlash and accuracy, turret friction, gun balance, manual handcrank force, manual response ratio, weapon and sighting system backlash, power controller, static stability, laying and tracking, slope operations, and firing tests. Includes safety checklist. Not applicable to firing on the move.

3-2-604

AD-A031721

9 Aug 76

## BORESIGHT RETENTION

Provides a method of evaluating the boresight retention capability of gun control systems mounted in combat vehicles. Describes equipment and instrumentation including installation of reference telescopes. Includes angular measurements of deviations after vehicle operation over cross-country courses and primary and secondary roads; after firing; and after a period of elevated temperature in crew compartment. Includes procedures for data reduction and analysis.

3-2-605

AD-A046007

12 Jul 77

## ACCURACY FIRING OF VEHICULAR WEAPONS

Provides a method of evaluating the capability of combat vehicles to deliver accurate fire on stationary targets. Includes procedures for determining accuracy of fire, dispersion, and utility of operation. Guidance is also provided for testing special components. Discusses calculation of extreme dispersion, center of impact, standard deviation, cant, and bias corrections to firing data. Applies to components directly influencing accuracy. Excludes tests of secondary armament, rates of fire, and turret controls.

3-2-606

AD-726000

25 May 71

## SMALL ARMS EFFECTIVENESS

Describes a list of tests and data applicable to the evaluation of small arms weapon effectiveness. Lists potentially applicable test operations procedures for ammunition and weapon performance to include testing for projectile velocity, dispersion, recoil impulse, noise, smoke, flash, environmental effects, heating effects, aiming errors, durability, reliability, and physical characteristics. Excludes effectiveness computations, lethality, and soldier performance with the weapon in combat.

3-2-608

AD-718712

5 Oct 66

## TERMINAL EFFECTIVENESS OF ANTIPERSONNEL WEAPON SYSTEMS

Describes procedures for evaluating antibersonnel weapon system terminal effectiveness. Discusses preparation for test requirements for instrumentation and facilities. Provides procedures for in-flight dispersion pattern measurements, location of impact or airburst positions, field of fire, fragmentation, lethal area, and terminal effectiveness. Discusses calculations, data reduction, and presentation.

3-2-610

AD-734305

1 Nov 71

## FIRE CONTROL ACCURACY TESTS WITH A DYNAMIC TESTER

Discusses a method for evaluating fire control system accuracy. Describes pretest requirements for instrumentation and equipment, familiarization with dynamic tester, target course selection, weapon system - dynamic tester interface, preparation of data storage medium, and tester hookup. Provides procedures for tracker, response and control without an operator, computer lead accuracy, tracker and computer accuracy with simulated operator, and system overall accuracy with a real operator. Limited to air defense systems.

3-2-616

AD-717535

12 Jun 68

## RADIO FREQUENCY RADIATION HAZARDS TO PERSONNEL

Provides a method for evaluating electromagnetic radiation hazards. Discusses biological effects of radiated R-F energy, common radar systems, safe distance, instrumentation, component identification, and safety precautions. Describes procedures for pretest operations and power density measurements. Prescribes a system for data reduction and presentation. Applies to safety from R-F energy in the spectrum from 100MHz to 40GHz. Excludes biological effects of exposure to ionizing radiations (such as, X-rays and gamma rays), psychological stresses, neurological effects, and long-term genetic effects.

3-2-700

AD-A068182

8 Mar 78

## BALLISTIC CORRECTION SYSTEMS

Provides nonfiring tests to determine the accuracy of ballistic correction devices in supplying proper superelevation to lead angle data to a fire control system when the weapon is laid to fire at a given range. Applies to ballistic correction systems contained in tank weapons and late model self-propelled artillery.

3-2-701

AD-A038147

13 Oct 76

## GUN SIGHT SYNCHRONIZATION

Provides a method of evaluating the capability of weapon sighting systems to maintain the prescribed azimuth and elevation relationship with the gun bore axis at all positions of weapon elevation and depression. Applies primarily to tank-mounted weapons and other direct-fire weapon systems.



3-2-702

AD-717543

20 Apr 66

## OPTICAL RANGEFINDERS

Describes a system for evaluating rangefinder performance characteristics. Discusses factors influencing accuracy and precision. Prescribes test preparation requirements for inspection, adjustment, component functional check, experienced personnel, facilities, and equipment. Provides procedures for system internal correction, uniformity, accuracy performance, ranging, durability, utility, shock, and postoperation tests. Discusses calculations, data reduction and presentation, rangefinders, and the selection of operators. Prescribes a method for presenting results. Applies to tank-installed optical rangefinders.

3-2-706

AD-717538

24 Jun 68

## NIGHT VISION DEVICES

Provides a method for evaluating night vision devices. Discusses passive and active devices. Prescribes pretest requirements for component identification, inspection, instrumentation, facilities, and equipment. Provides procedures for safety evaluation, magnification, field of view, resolution, luminous gain, reticle accuracy, focus, operational range, electrical characteristics, transportation vibration, and environmental tests; such as, immersion, high and low temperature, solar radiation, humidity, altitude, salt spray, rain, sand, and dust. Prescribes a system for data reduction and presentation.

3-2-707

AD-717270

10 Aug 66

## EJECTOR CAM TESTS

Prescribes a system for evaluating cartridge case ejection mechanisms. Describes preoperational requirements for instrumentation, equipment, facilities, and experienced gunners. Discusses typical problems encountered during ejector cam tests. Provides procedures for measuring ejection velocity at various elevations (zero to maximum) and temperatures (+145°F to -65°F), for all types of ammunition. Discusses calculations, acceptable velocity limits, data reduction, and presentation. Applies to semiautomatic artillery weapon components which directly influence case ejection velocity.

3-2-709

AD-767074

26 Feb 73

## FIELD ARTILLERY FIRE CONTROL SIGHTS

Provides a method of evaluating the performance of optical-mechanical sighting systems used to lay the major armament of towed and self-propelled artillery. Includes test preparation; techniques for checking boresight retention, alinement of panoramic telescope, synchronization, and other features; road tests on rugged test courses; firing tests covering ambient and extreme temperatures, solar radiation, and night performance; rain test; and humidity test. Describes methods for determining azimuth error, testing accuracy of cant corrector, and illustrating test results. Does not cover optical quality of sights.

3-2-711

AD-872258

9 Jun 70

## SAFETY EVALUATION OF RADIOACTIVE COMPONENTS OF MATERIEL

Provides a method for evaluating item radiological safety. Discusses radioactive materials, radioisotopes, instrumentation, and equipment. Prescribes test preparation requirements for NRC and DA authorization and license, written radiation safety appraisal, developing agency or manufacturer design data, separation of radioactive component, and inspection. Provides procedures for shock, vibration, climatic, and storage tests. Discusses data reduction and presentation. Applies to ionizing radiation safety only.

3-2-600

AD-A036659

6 Jan 76

## SCHEDULES FOR INSPECTIONS AND MEASUREMENTS OF CANNONS

Provides an outline of inspection and measurement procedures for cannons. Prescribes inspection frequency and condemnation criteria for cannon components (tube, breech rings, breechblocks, breech/chamber and couplings, mortar base-caps, and recoilless rifle vent assemblies). Provides references for techniques including use of star gage, pullover gage, and borescope; impressions and casts of bores; and magnetic particle, magnetic recording borescope, radiographic, ultrasonic, and liquid penetrant inspections. Applies to large caliber guns, howitzers, mortars, and recoilless rifles.

3-2-801

AD-717271

27 Oct 65

## MEASUREMENT OF INTERNAL DIAMETERS OF CANNON

Provides a method for measuring cannon internal diameters. Discusses pullover and star gages, uses, application, operating principles, selection of equipment, preparation for gaging, and gaging procedures. Describes procedures for bore and chamber measurements. Not applicable to cannon chamber slopes with a diametral taper of 0.100 inch per inch or greater.

3-2-802

AD-A031780

9 Aug 76

## MEASUREMENT OF CANNON

Describes techniques and instrumentation for measuring cannon and tube internal diameters and other dimensions. Covers use of pullover and star gages and procedures for measuring gun and tube total length, headspace, breech recess depth, tube straightness, tube wall thickness, eccentricity of rifling, rotational movement, longitudinal movement, and separation of abutting pieces. Not applicable to cannon chamber slopes with a diametral taper of 0.100 inch per inch or greater.

3-2-803

AD-A051688

19 Jan 78

## VISUAL INSPECTIONS OF CANNON BORES

Describes inspection techniques and equipment for observing and recording changes in condition of cannon bores. Covers closed circuit television (CCTV) and telescopic borescope systems, video tape and photographic recording methods, and techniques and materials for making impressions and casts of the bores. Not applicable to measurements of internal diameters and physical characteristics.

3-2-804

AD-717373

27 Oct 65

## IMPRESSIONS AND CASTS OF CANNON BORES

Describes a system for examining and evaluating bore conditions. Discusses preparation for test and equipment required. Provides procedures for Gutta-Percha impressions, sulfur and metal alloy casts, data reduction, and presentation.

3-2-805

AD-A045342

12 Jul 77

## SAFETY EVALUATION OF CANNON AND RECOILLESS WEAPONS

Provides procedures for evaluating the safety of cannon and recoilless weapons during developmental testing. Covers electrical firing circuit checks, safety inspections, firing tests for launch safety, and operational tests by military test and evaluation personnel. Applies to artillery cannon (guns, howitzers, mortars) and recoilless rifles.

3-2-806

AD-759225

10 Jan 73  
C1, 30 Jan 74  
C2, 13 Nov 75

## METALLURGICAL AND MECHANICAL TESTS OF MATERIALS

Describes methods of evaluating the physical properties of components and causes of failures. Describes equipment required and procedures for chemical analysis (wet method, spectrographic and X-ray emission spectrographic analysis); macroscopic examination (gross structure and fracture area); microscopic examination; and mechanical testing including tension tests, hardness tests (Rockwell, Brinell, Tukon, scleroscope, and Vickers), notched-bar impact tests (Charpy and Izod), fracture toughness tests, and fatigue tests.

3-2-807

AD-764200

11 Sep 72  
C1, 14 Nov 75

## NONDESTRUCTIVE TESTING OF MATERIALS

Describes standard techniques and facilities for evaluating surface and subsurface characteristics of metallic and nonmetallic materials. Provides procedures for magnetic particle, liquid penetrant, radiographic, and ultrasonic inspection methods. Appendixes identify current nondestructive test methods and additional ultrasonic test techniques. Applies to cannon tubes, cast armor plate, welded joints, projectile fuzes, vehicle track shoes, and other material in detection of cracks, voids, corrosion, and thickness variations.

TECOM Pam 310-4

3-2-809

AD-717374

7 Sep 66

#### STRAIN MEASUREMENT - BRITTLE LACQUER METHOD

Provides a method for evaluating material tensile strain. Discusses test preparation, instrumentation, equipment, and limitations. Describes procedures for selection of coating, safety precautions, outdoor testing schedule, pre-test operations, strip calibration, test item operations, sensitivity determination, post operations, and area strain sensitivity. Prescribes a system for data collection, reduction, and presentation.

3-2-810

AD-A075741

5 Oct 79

#### WEAPON PRESSURE MEASUREMENTS

Provides a method for measuring weapon chamber and recoil pressure. Describes crusher gages, electrical transducers for pressure-time measurements, and dynamic pressure generators. Applies to evaluating projectile, propellant, ignition system, and cannon design and performance.

3-2-812

AD-717539

23 Feb 66

#### FIELD OF VISION - VEHICLES

Provides a method for evaluating procedures to determine the field of vision for transport vehicle drivers and combat vehicle crewmembers. Describes procedures for test preparation, locating, and recording data for combat transport vehicles. Discusses vision distances, lateral and elevation angles, and adequacy of mirrors. Describes data reduction and presentation.

3-2-813

AD-718707

20 Apr 66

#### FIELD OF FIRE

Provides a method for evaluating procedures to determine field of fire available to each vehicle-mounted weapon. Describes procedures for test preparation, emplacement of primary and secondary armament, and operation of the manual and power gun control systems. Discusses gun traverse tests, gun elevation tests, and minimum ranges of fire. Describes data reduction and presentation.

3-2-814

AD-717540

20 Apr 66

#### OPTICAL COLLIMATION OF RANGEFINDERS

Provides a method for evaluating rangefinder collimation error. Discusses preparation for test requirements, instrumentation, convergence, divergence, and the correction of collimation errors. Provides procedures for error measurement, data collection, reduction, and presentation.

3-2-815

AD-A029073

24 Feb 75

## RECOIL MOTION MEASUREMENT

Provides a method for selecting instrumentation for weapon recoil motion measurements. Describes selection criteria and characteristics, operation, and applicability of recoil potentiometer, time-displacement (drum) camera, photoelectric transducer, and high-speed camera systems as well as the seldom-used revolving drum and slide wire resistance systems.

3-2-816

AD-A056118

18 May 78  
Cl, 25 Aug 78

## HOP FIRING

Describes procedures for measuring the carriage motion of towed and self-propelled weapons during firing and the final carriage displacement after firing. Applies to towed and self-propelled artillery.

3-2-817

AD-A055405

9 May 79

## JUMP FIRING

Provides a method for assessing weapon jump that occurs during firing. Describes test setup, instrumentation, sighting and firing procedures, measurements, and computations. Applies to artillery and tank weapons.

3-2-820

AD-717377

25 Jan 67

## IN-FLIGHT DISPERSION PATTEPN MEASUREMENTS

Provides a method for evaluating procedures used in obtaining photographic instrumentation measurements of in-flight dispersion patterns of automatically fired projectiles. Describes procedures for determining the in-flight dispersion patterns of projectiles fired at high angles using photographic methods, reducing the data, and graphically presenting the information collected. Discusses test preparation, emplacement of motion picture cameras and mounts, target designation, prefire checks, and firing sequence.

3-2-821

AD-717381

28 Dec 66

## BALLISTIC DATA FOR BOOSTED PROJECTILES

Provides a method for evaluating procedures used in obtaining trajectory data during the boosted portion of projectile flight. Describes procedures for test preparation, selection of site, emplacement of the weapon and instrumentation, training test personnel, and safety. Discusses velocimeter data, detecting camera or skyscreen, boresight or cinetheodolite, and engineering logbook. Discusses data reduction and presentation. Applies to boosted projectiles but not to hemispherical, conical, or finned-based configurations.

TECOM Pam 310-4

3-2-823

AD-717380

25 Jan 67

#### RANGE FIRING OF CLOSE SUPPORT ROCKETS AND MISSILES

Provides a method for evaluating technical performance and characteristics of close support rockets and missiles. Describes procedures for test preparation, range firing of close support rockets and missiles, and ground-to-ground firing of fin-stabilized and certain spin-stabilized rockets and missiles. Discusses selection of firing site and test equipment, familiarity of test personnel with the item, review of instructional material and records, safety and selection of test items, and firing sequence. Describes data reduction and presentation. Applies to close support rockets and missiles.

3-2-824

AD-717383

5 Jun 69

#### FLIGHT TESTS OF ANTITANK MISSILES

Describes procedures for test preparation of small, guided antitank missiles with a wire link, optical-infrared tracker link, and radio link guidance systems. Discusses inspection and measurements, circuitry checkout, missile firing tests, selection of equipment, familiarity of test personnel with the item, safety, instructional material, launcher emplacement, and photographic and electronic instrumentation. Describes data reduction and presentation. Applies to vehicle-mounted or infantry-type, ground-launched missiles and air-launched missiles.

3-2-825

AD-A033780

2 Nov 76

#### LOCATION OF IMPACT OR AIRBURST POSITIONS

Provides techniques for determining the location of impacts or airbursts of projectiles and rockets. Covers spotting of flight termination on or above land and water and procedures for single and multiple-fired rounds. Describes equipment and facilities, including the use of one or several cameras, one to four observation towers, and digital recording observation theodolites. Covers measurement and data reduction procedures. Applies to artillery, mortar, and rocket ammunition and tank and recoilless rifle ammunition when used as artillery.

3-2-826

AD-770859

9 Oct 73

#### KINEMATIC TESTS OF SMALL ARMS

Provides methods for evaluating motion characteristics of small arms components by means of displacement-time camera and five-wire and three-wire ballistic pendulums. Covers measurement of component displacement relative to time and distance and measurements of impulse and recoil. Describes equipment, techniques, and calculations.

3-2-829

AD-AO41424

24 Nov 76

## CANNON TUBE SERVICE LIFE

Provides techniques for evaluating the safe service life of cannon tubes (37mm and above) by number of equivalent full-charge rounds that can be fired before the occurrence of either excessive metal fatigue or excessive tube wear (erosion). Covers tube inspections and measurements; cannon assembly; proof firing; firing cycles; range firing; vertical target accuracy; and dispersion, recovery, and examination of fired ammunition; and laboratory hydraulic pressure cycling.

3-2-830

AD-AO32004

30 Jun 76

## COLD REGIONS STABILITY TEST OF INDIRECT FIRE ARTILLERY WEAPONS

Prescribes methods for determining the stability of indirect-fire weapons fired from varied terrain types incurred in northern regions during the various seasons. Requirements for facilities and test instrumentation are included.

3-2-831

AD-AO45766

15 Sep 77

## CLEANING AND PRESERVING OF WEAPONS

Provides procedures for cleaning weapons after firing and for preserving weapons for storage and shipping. Lists specifications for materials used in processing. Applies to artillery cannon (including mortars), recoilless rifles, and small arms.

3-4-001

AD-867021

14 Nov 69

## DESERT ENVIRONMENTAL TESTING OF ARMAMENT AND INDIVIDUAL WEAPONS

Provides a method for evaluating individual weapon and armament physical and performance characteristics in desert environments. Describes procedures for test preparation, preoperational inspection, determining exposure effects, functional capabilities, security from detection, maintenance, human factors, and safety. Discusses selecting test personnel, record forms, instructional material, road transportation, forward depot storage, and support points. Describes data reduction and presentation. Applies to individual small arms (not crew served), light and medium weight crew-served weapons, and towed and self-propelled weapons.

3-4-003

AD-720559

28 Jan 71

## ARMAMENT AND INDIVIDUAL WEAPONS

Provides a method for evaluating armament and individual weapons physical and performance characteristics relative to capability of functioning in tropic environments. Describes procedures for test preparation, initial inspections and operation, determining operational performance, short-term storage and surveillance or long-term storage effects, maintenance, safety, human factors, security from detection, and value analysis. Discusses instructional material, schedules, safety release, facilities, test personnel training, and simulated combat missions. Describes data reduction and calculation of maintenance indicators. Applies to use of armament and individual weapons in the tropic environment.

3-4-004

AD-717385

29 May 69

## ARCTIC ENVIRONMENTAL TEST OF INDIVIDUAL WEAPONS, RIFLES (SEMI-AUTOMATIC AND AUTOMATIC) AND PISTOLS

Provides a method for evaluating individual weapons physical and performance characteristics in the arctic environment. Describes procedures for test preparation, preoperational inspection, firing tests, position disclosing effects, functional and operability/portability, air transportability, human factors, safety, and maintenance. Discusses data reduction and presentation. Applies to the use of rifles and pistols in the arctic environment.

3-4-005

AD-720968

29 May 69

## ARCTIC ENVIRONMENTAL TEST OF GRENADE LAUNCHERS

Provides a method for evaluating grenade launcher physical and performance characteristics in the arctic environment. Describes procedures for test preparation, preoperational inspection, firing, position disclosing effect, functional and operational suitability, air transportability, human factors, and maintenance. Discusses test personnel training, instructional materials, selecting test equipment and record forms, ammunition, storage and meteorological conditions, and firing tests. Applies to the use of grenade launchers in the arctic environment.

3-4-006

AD-717384

10 Mar 69

## ARCTIC ENVIRONMENTAL TEST OF AUTOMATIC CREW-SERVED WEAPONS

Provides a method for evaluating automatic crew-served weapon physical and performance characteristics relative to functioning in arctic environments. Describes procedures for test preparation, preoperational inspections, determining ease of disassembly/assembly, and handling, firing, position disclosing effects, functional and operational suitability, portability, air delivery, human factors, and maintenance. Discusses test personnel preparation, review of instructional materials, selecting test equipment, and safety. Describes data reduction and presentation. Applies to crew-served weapons under arctic conditions.

3-4-007

AD-867047

24 Nov 69

## ARCTIC ENVIRONMENTAL TEST OF RECOILLESS WEAPONS

Provides a method for evaluating recoilless weapon physical and performance characteristics in the arctic environment. Describes procedures for test preparation, preoperational inspection, firing tests, position disclosing effects, functional and operational ability, portability, human factors, and maintenance. Discusses test personnel preparation, instructional materials, selecting test equipment and forms, safety, ammunition, storage and meteorological conditions, and firing tests.



3-4-008

AD-717277

10 Jul 69

## ARCTIC ENVIRONMENTAL TEST OF INDIRECT FIRE WEAPONS (MORTAR)

Provides a method for evaluating mortar physical and performance characteristics in the arctic environment. Describes procedures for test preparation, firing tests, position disclosing effects, functional and operational suitability, human factors, and maintenance. Discusses test personnel preparation, instructional materials, selecting test equipment and records, storage and meteorological conditions, and safety. Describes data reduction and presentation.

3-4-010

AD-876198

4 Aug 70

## ARCTIC ENVIRONMENTAL TEST OF DIRECT FIRE CANNON (TANK AND ANTITANK WEAPONS)

Describes a method for evaluating weapon arctic performance characteristics. Discusses test preparation requirements for inspection, physical characteristics, boresight, and zero. Provides procedures for main armament; coaxial machinegun; cupola machinegun; round-to-round dispersion; tactical target engagement; tracking and hitting performance; weapons system functioning; obscuration; and sensing, secondary weapons, grenade projectors, human factors evaluation, maintenance, reliability, and safety tests.

4-1-001

AD-879093

4 Dec 70

## TESTING AMMUNITION AND EXPLOSIVES

Provides list of commodities covered by TOP's along with a list of cognizant agencies and offices concerned with ammunition testing. Also provides background information concerning environmental testing, preparation of test plans, safety during testing, and acceptance test procedures. Includes list of references for ammunition testing.

4-1-002

AD-718230

7 Jun 68

## TEMPERATURE MEASURING DEVICES

Provides an introductory discussion of heat and temperature scales. Describes a variety of temperature measuring devices including thermometers, thermocouples, thermistors, radiation pyrometers, optical pyrometers, and quartz thermometers, as well as various non-instrumented techniques; such as, pyrometric cones and color indicators. Applies whenever temperature measurements are required.

4-1-003

AD-718657

23 Feb 66

## ORDER OF FUNCTIONING

Provides an introductory definition of "order of functioning" of an explosive loaded projectile as well as the types of functioning; such as, detonation and deflagration. Describes methods for analyzing the type of functioning in the air, on land, or after penetration of armor plate.

4-1-005

AD-872828

30 Apr 70

## THE DOPPLER VELOCIMETER

Provides general information on using the doppler velocimeter, supplemented by other instrumentation, for obtaining ballistic data. Explains doppler principle for radial velocity measurement. Supplies a generalized field instrumentation array for doppler velocimeter operations as a guide in planning for specific field testing objectives.

4-2-011

AD-770033

18 Oct 73

## ARTILLERY AMMUNITION

Provides a consolidation of test procedures for artillery ammunition including all field artillery, antiaircraft artillery, and tank ammunition, 37mm and larger. Discusses safety precautions, test sequencing, and initial inspection; safety evaluation including propellant checkout, design strength, transportability, and EMI; extreme temperature testing; reliability; and human factors and maintenance evaluations.

4-2-012

AD-729599

2 Aug 71

**MORTAR AMMUNITION**

Prescribes a method for evaluating mortar ammunition performance characteristics. Provides procedures for test preparation, selection of sample size, initial inspection, physical characteristics, safety evaluation, propellant checkout, strength of design, transportation vibration, sequential rough handling, 40-foot drop, firing, misfire removal, rate of fire, residue accumulation, cookoff, blast pressure, fuze nonarming, fuze arming distance, accuracy, dispersion, reliability, lethality, environmental effects, human factors, and maintenance evaluation. Not applicable to service, field environmental, or nuclear warhead tests.

4-2-013

AD-720349

1 Jul 71

**RECOILLESS RIFLE AMMUNITION**

Describes a method for evaluating recoilless rifle ammunition. Provides procedures for test preparation, safety evaluation, accuracy, reliability, lethality, plate penetration, environmental effects, human factors, maintenance evaluation, and weapon calibration. Not applicable to service, field environmental, or nuclear warhead testing.

4-2-015

AD-723025

1 Mar 71

**CLOSE-SUPPORT ROCKETS AND MISSILES**

Provides test guidance for close-support rockets and missiles such as artillery rockets up to approximately 6 inches in diameter and shoulder-held, bazooka-type, and antitank rockets; and antitank guided missiles and shoulder-fired, surface-to-air guided missiles. Included subtests are physical examination, static motor tests, fuze tests, warhead tests, range-firing tests, safety evaluation, environmental and rough handling tests, pendulum recoil tests, noise and blast measurements, toxic gases, vulnerability to bullets, reliability, and maintenance and human factors evaluations. Excludes testing of launchers, guidance systems, and shaped charge warheads.

4-2-016

AD-A056146

12 Jun 78

**AMMUNITION, SMALL ARMS**

Provides a method for evaluating small arms ammunition. Describes tests for fuzed and nonfuzed service ammunition including initial inspection, physical measurements, safety evaluation, fragmentation-lethality, accuracy and dispersion, time of flight, tracer evaluation, flash, smoke, waterproofness, salt-fog, temperature-humidity, sympathetic detonation, armor penetration, fungus, and human factors engineering. Includes tests for physical and operational characteristics of blank and dummy ammunition. Applies to fixed rounds of ammunition from .22 caliber (or smaller) to 30mm. Does not cover 40mm shoulder-fired grenades.

4-2-017

AD-A088611

27 Aug 80

## DISINTEGRATING PROJECTILES

Provides a method of evaluating the performance of disintegrating projectiles used for troop practice firings and air defense test firings. Includes safety of handling, storing, firing, and transporting. Describes procedures for calculating probabilities of number and location of projectile pieces that fall.

4-2-045

AD-746224

2 Feb 72

## DEMOLITION-INITIATING EQUIPMENT

Describes a method for evaluating demolition-initiating equipment operational and performance characteristics. Identifies supporting tests, facilities, and equipment required. Provides procedures for initial inspection, physical characteristics, safety, component performance, high temperature (+145°F), low temperature (-55°F), reliability, durability, human factors, and maintenance evaluation. Appendixes define the categories of demolition-initiating equipment.

4-2-055

AD-718711

3 Dec 70

## FUZES

Describes test methods for evaluating technical functions of ammunition fuzes for artillery, mortar, and recoilless rifle projectiles. Provides procedures for safety, environmental, shock, functioning, and operational tests for ammunition fuzes. Functioning and operational test methods are presented according to the fuze characteristic which initiates functioning (impact, time, or proximity).

4-2-070

AD-871340

1 Apr 70

## FLAMETHROWERS, PORTABLE

Provides test procedures for evaluating the technical performance of portable flamethrowers. Includes subtests for receipt inspection, safety evaluation, simulated environmental testing, rough handling and surface transport tests, air transportability, airdrop capability, leak testing, reliability, maintenance evaluation, human factors evaluation, and agent/hardware compatibility.

4-2-071

AD-870454

1 Apr 70

## FLAMETHROWERS, MECHANIZED

Provides test procedures for evaluating the technical performance of mechanized flamethrowers. Includes subtests for receipt inspection, safety evaluation, simulated environmental testing, rough handling and surface transport tests, airdrop capability, leak testing, reliability, maintenance evaluation, human factors evaluation, and agent/hardware compatibility.

4-2-090

AD-719671

18 Aug 69

## MINE DETECTORS

Provides procedures for evaluating the performance of mine detectors. Applies specifically to man-pack units employing mutual inductance-type mine detectors. May be modified to include vehicular-mounted units or devices employing radar, audio, and magnetoabsorption principles. Included are subtests for sensitivity, mutual interface, balance point drift, target acquisition, and environmental tests. Excludes large-scale minefield detection systems such as airborne detection systems employing infrared imaging techniques.

4-2-130

AD-879094

23 Nov 70

## FLARES AND PHOTOFLASH ITEMS

Provides procedures for evaluating aircraft flares, surface flares, and photoflash cartridges. Includes subtests for safety evaluation, environmental and handling tests, and performance tests. Procedures are suitable for military potential tests and initial production tests. Excludes photoflash bombs or illuminating projectiles fired from artillery or mortars.

4-2-131

AD-718783

1 Jul 70

C1, 11 Aug 72

## PYROTECHNIC SIGNALS

C2, 5 Mar 73

Provides procedures for evaluating both hand-held and air-launched pyrotechnic signals. Includes subtests for safety evaluation, environmental and shock tests, reliability, and vulnerability and separate performance tests for hand-held, rifle-launched, and aircraft-launched pyrotechnics. Procedures are also suitable for military potential tests and initial production tests. Excludes photoflash units and pyrotechnics launched by artillery or mortar.

4-2-132

AD-729845

1 Aug 71

## TACTICAL LUMINANTS

Describes a method for evaluating illuminating pyrotechnic performance characteristics. Discusses test course limitations due to instrumentation and residual smoke. Provides procedures for test preparation, calibration of instrumentation, and safety. Identifies the functions performed before, during, and after sunset. Prescribes data collection for burn time, optimum functioning height, drift characteristics, multiple-round performance, sequential performance, effective area illuminated, and flare intensity. Limited to light detection between the threshold of 0.05 and 0.2 foot-candle power.

TECOM Pam 310-4

4-2-500

AD-718725

23 Feb 67

#### AMMUNITION CHARACTERISTICS

Provides guidance for collecting characteristics data on ammunition and ammunition components. Characteristics include static data such as composition, hardness, diameter, weight, and length, as well as actual performance data resulting from dynamic tests. Applies to various forms of ammunition.

4-2-501

AD-AC68945

1 Apr 79  
Cl, 22 Oct 79

#### PROJECTILES

Provides a method of evaluating projectiles for structural strength and terminal effects. Applies to nonnuclear projectiles for field and air defense artillery, tank guns, mortars, and recoilless rifles.

4-2-502

AD-A055107

5 May 78

#### SAFETY EVALUATION OF MINES AND DEMOLITIONS

Provides a method of evaluating the safety of mines and demolitions during developmental testing. Covers inspections and tests for adequacy of safety features; confirmation of functioning loads; sensitivity to accidental detonation during emplacement, arming, disarming, and recovery; safety during transportation including secured cargo vibration, rough handling, and 12.2-meter drop; and effects of high- and low-temperature storage on functioning. Not applicable to chemical mines.

4-2-503

AD-876190

1 Jul 70

#### SAFETY EVALUATION - CLOSE-SUPPORT ROCKETS AND MISSILES

Provides general guidelines for the safety evaluation of close-support rockets and missiles. Includes environmental testing consisting of high- and low-temperature storage and operating tests, transportation-vibration tests, rough handling tests, 40-foot drop tests, and electromagnetic radiation initiation hazard tests. Also includes firing tests consisting of performance after environmental exposure, fuze safety tests, and fragmentation hazards. Intentionally provides only general guidance for preparing a specific test plan due to the wide variety of guided missiles and rockets.

4-2-504

AD-A070340

1 Apr 79  
Cl, 31 Oct 79

## SAFETY TESTING OF ARTILLERY, MORTAR, AND RECOILLESS RIFLE AMMUNITION

Describes safety evaluation test procedures applicable to all ammunition for field and air defense artillery, tank guns, recoilless rifles, and mortars. Although primarily oriented toward explosive-loaded projectiles, procedures for nonexplosive projectiles are included. Covers launch, flight, and environmental hazards as well as compatibility of the ammunition with the weapon system. Test phases include propellant checkout, metal parts checkout, storage test, transportation and rough handling tests, and supplemental tests. Excludes nuclear weapon projectiles.

4-2-505

AD-A031850

22 Apr 74

## MINES AND DEMOLITIONS

Provides tests for evaluating the performance characteristics of mines and demolitions. Covers safety evaluation; supplementary environmental and shock tests; and tests for weathering, fuze functioning, mine-fuze compatibility, effectiveness, bullet impact, blast sensitivity, sympathetic detonation, and parachute delivery. Discusses reliability, human factors, and maintenance evaluations. Describes equipment and techniques for determining burst height of bounding mines. Tabulates mine types and applications and physical characteristics of explosives. Not applicable to chemical mines.

4-2-509

AD-759228

1 Nov 72

## AIRDROP CAPABILITY OF EXPLOSIVE MATERIEL

Describes a method for evaluating explosive-loaded materiel during standard airdrop operations. Identifies supporting tests, facilities, and equipment required. Provides procedures for rigging, airdrop, and post-drop evaluation. Not applicable to chemical, biological, and radiological munitions.

4-2-601

AD-A068946

1 Apr 79

## DROP TOWER TESTS FOR MUNITIONS

Describes test methods and techniques for conducting drop tower tests for munitions. The conduct of 40-foot drop tests is presented. Provides general guidance on conducting drop tests from other heights. Also provides guidance for simulated parachute drops using a drop tower.

TECOM Pam 310-4

4-2-602

AD-A068947

1 Apr 79

#### ROUGH HANDLING TESTS

Provides test procedures to simulate the transportation of items carried as unsecured cargo in trucks, or on the person of Army personnel. Items include munitions, rifles, rockets, radios, and mortars.

4-2-604

AD-718744

8 Feb 71

#### RANGE FIRINGS OF SMALL ARMS AMMUNITION

Describes the various types of exterior ballistic tests required for small arms ammunition. Tests include accuracy dispersion tests, drift firings, maximum range firings, ballistic coefficient tests, spin decay tests, and stability factor tests. Limited to ammunition for small arms and automatic weapons (30mm and smaller).

4-2-605

AD-718566

10 Jun 68

#### BALLISTIC MATCHING OF MAJOR AND MINOR CALIBER SYSTEMS

Provides procedures for ballistically matching major and minor caliber systems. Subtests include determination of the approximate spotter velocity and bias angle and determination of the optimum spotter velocity and bias angle. Not applicable to systems in which the spotter weapon is affixed to the major caliber weapon for convenience only and may be set in elevation independently of the major caliber weapon.

4-2-606

AD-A036660

17 Jan 77

#### ESTABLISHMENT OF MASTER AND REFERENCE CALIBRATION ROUNDS

Describes firing procedures for establishing master and reference calibration rounds for gun and howitzer cannon, mortar, and recoilless rifle ammunition. Covers charge selection, uniformity, and temperature coefficient firings. Includes procedures for establishing control work lots and assessing master or reference rounds with substitute components.

4-2-607

AD-875700

22 Jul 70

#### CHECK FIRING OF MASTER AND REFERENCE PROPELLANTS

Describes test methods for check firing artillery ammunition propellants to determine if their continued use as calibration lots is satisfactory. Provides procedures to be followed before, during, and after firings. Limited to artillery, tank, mortar, and recoilless rifle ammunition.



4-2-700

AD-A068516

1 Apr 79

## PROPELLING CHARGES

Describes procedures for assessing propelling charges for ammunition for gun and howitzer cannon, mortars, and recoilless rifles. Includes firing tests to determine charge weight to produce service velocity, velocity and pressure uniformity of the established charge, and effects of extreme temperatures on charge performance. Not applicable to rocket, missile, or small arms propellants.

4-2-701

AD-718700

23 Mar 66

## IGNITION SYSTEMS FOR ARTILLERY AMMUNITION

Describes necessary methods and techniques to be followed before, during, and after test firing ignition systems and comparable standard ignition systems for tank, field artillery, recoilless rifle, and mortar ammunition. Subtests include firings at normal, high, and low temperatures. An appendix presents background information on artillery ammunition ignition systems.

4-2-703

AD-718713

10 Aug 66

## PROPELLANT-ACTUATED DEVICES

Provides detailed test methods for evaluating propellant-actuated devices. Subtests include structural tests, torque tests, locked-shut tests, no-load tests, cookoff tests, extreme temperature tests, drop tests, vibration tests, sand and dust tests, salt spray tests, and high altitude tests. An appendix discusses types and characteristics of propellant-actuated devices.

4-2-705

AD-A091673

21 Oct 60

## CARTRIDGE CASES

Provides procedures for evaluating metal, consumable, and combustible cartridge cases. Identifies supporting tests, facilities, and equipment required. Subtests include weapon and ammunition preparation, initial inspection, ammunition characteristics, safety evaluation, environmental tests, and residue assessment. Also describes techniques used to determine ignition probability and vulnerability to fragments of consumable and combustible cartridge cases.

4-2-801

AD-A055596

4 May 78

## PROJECTILE UNBALANCE

Describes dynamic and static methods of obtaining data on projectile unbalance and procedures for computing dynamic and static unbalance. Applies to artillery projectiles.

4-2-802

AD-A017510

29 Jul 75

## PROJECTILE SEATING AND FALLBACK

Provides a method for evaluating projectile seating and retention characteristics as related to projectile fallback within the weapon chamber. Describes techniques and tools for measuring seating and determining retention characteristics. Applies to separate-loading ammunition. Does not apply to artillery projectiles fired with fixed and semifixed ammunition.

4-2-803

AD-718699

10 Aug 66

## ROTATING BAND SEATING MEASUREMENTS

Describes procedures relating to the nondestructive and destructive methods of measuring rotating band seating. Band seating measurement is primarily made on projectiles of caliber 75mm and over, although may be made on smaller projectiles if necessary. Destructive testing methods are generally restricted to inert-loaded or empty projectiles. Appendixes discuss the effects of rotating band seating and selection of nondestructive machines, indentures, settings, pressures, and accuracy.

4-2-805

AD-A069005

23 Apr 79

## PROJECTILE VELOCITY MEASUREMENTS

Describes methods for measuring projectile velocity. Discusses time of flight and distance measurements and equipment including muzzle velocity radar, solenoid coils, velocity screens, chronographs, smear camera, ultra-high-speed camera, flash X-ray, and Doppler radar velocimeter. Covers magnetization of projectiles and polarization of coils. Describes procedures for translating measured velocity to muzzle or striking velocity. Assumes that drag coefficients, form factors, and ballistic coefficients have already been determined.

4-2-806

AD-A043537

26 Apr 77

## ARMING DISTANCE AND IMPACT SENSITIVITY OF FUZES

Provides a method for determining the arming distance and impact sensitivity characteristics of fuzes for artillery, mortar, and recoilless rifle ammunition. Describes Langlie and other statistical test techniques. Includes tests for sensitivity to various impact media, rain, and graze impact. Applies to point detonating (PD), point initiating base detonating (PIBD), base detonating (BD), mechanical time superquick (MTSQ), electronic time superquick (ETSQ), and proximity (VT or CVT fuzes). Not applicable to small arms fuzes.

4-2-807

AD-717076

28 Dec 66

## FUZE FUNCTIONING TIME, SUPERQUICK FUZES

Provides methods for measuring the functioning time of superquick fuzes. Methods for this test include shutter-type camera and the smear (shutterless) camera.

4-2-808

AD-717077

30 Apr 68

## FUZE FUNCTIONING TIME, AIRBURST FUZES

Describes procedures for determining the time of flight of airburst fuzes using an Infrared Fuze Chronograph System. Limited to the infrared fuze chronograph method.

4-2-809

AD-777919

1 Feb 74

## RECOVERY OF FIRED AMMUNITION

Describes techniques for the recovery of ammunition fired vertically (83° to 90° weapon elevation); at long range into a prepared field and into water; point-blank into sawdust, sand, or Celotex; at low velocity at a cloth target; from a rocket sled; by parachute techniques; by long-tube/compressed air method; and by water-rail deceleration method. Includes test site, equipment and instrumentation, and safety requirements; and computation procedures for weapon elevation. Applies to mortar, recoilless rifle, tank, field artillery, and antiaircraft artillery ammunition. Excludes rocket warheads, missiles, and small arms projectiles.

4-2-811

AD-A032165

12 Feb 76

## MEASUREMENT OF PROJECTILE RATE OF SPIN

Provides techniques for measuring projectile spin rate. Includes photographic method, paint smear method, pop-out-pin method, radio telemetry method, magnetic spin loop method (applies to magnetizable projectiles), and flash radiography method (applies primarily to aluminum sabots at time of emergence from gun tube). Includes spin rate computations for all methods.

4-2-812

AD-A090268

6 Oct 80

## PENETRATION TESTS OF HEAT WARHEADS

Provides a method of determining the ability of HEAT warheads mounted on antitank projectiles, missiles, and rockets to penetrate armor. Describes static tests that determine penetration as a function of standoff distance and spin rate. Describes firing tests that provide data on armor penetration at various obliquities and standoff distances. Includes techniques for measuring depth of penetration.

4-2-813

AD-A081510

31 Jan 80  
Cl, 8 May 80

## STATIC FRAGMENTATION TESTS OF HIGH-EXPLOSIVE MUNITIONS

Provides a method for static detonation of HE munitions horizontally, in an arena, to obtain data for predicting damage from the munition fragments. Describes fragment characteristics and procedures for determining fragment velocity, mass, and spatial distribution. Includes equipment, instrumentation, and procedures for reducing data for input to electronic computation of lethal area.

4-2-816

AD-719673

28 Dec 66

## PHOTOGRAPHIC INSTRUMENTATION FOR TRAJECTORY DATA

Presents the steps necessary for preparing and conducting trajectory studies using photographic instrumentation for obtaining data on space position, velocity, acceleration, yaw, pitch, roll, and launch performance. Appendixes discuss photographic instrumentation characteristics, instrumentation planning, field location considerations, timing systems, visibility, and contrast and refraction errors. Limited to trajectory data specifically associated with the use of photographic instrumentation.

4-2-820

AD-A068515

1 Apr 79

## HUMIDITY TESTS

Describes test methods and techniques for evaluating the effects of high and low humidity on various types of military equipment. Humidity tests of two types are described: (1) high humidity and temperature, and (2) low humidity and high temperature.

4-2-322

AD-875696

22 Jul 70

## AIRBLAST PRESSURE MEASUREMENT - ELECTRONIC

Provides a method for evaluating procedures used in measuring airblast overpressures. Describes procedures for test preparation, site selection, test item positioning, gage positioning, recording instrumentation position, restrictions, calibration, and test shots. Discusses the direct-pressure and the shock wave velocity method. Describes data reduction and presentation. Applies to airblast overpressure measurement by means of piezoelectric gages.

4-2-823

AD-718686

2 Nov 66

## PAPER BLASTMETERS

Provides a method for evaluating the procedures used in determining the extent of shock wave or blast effects. Describes procedures for the use of paper blastmeters, construction of paper blastmeters, and storage. Discusses test preparation, location of the weapon and blastmeters, area for detonating an explosive charge (nonprojectile), and direct measurement of pressure caused by muzzle blast. Describes data reduction and presentation including evaluations of individual charges, average charges, and comparison of charges. Applies to explosions when an approximate measurement of pressure is desired.

4-2-824

AD-718676

25 Jan 67

## PENETRATION TESTS OF HEAT WARHEADS FOR CLOSE-SUPPORT ROCKETS AND MISSILES

Provides a method for evaluating procedures used in determining the extent to which HEAT warheads penetrate armor. Describes procedures for test preparation, test item inspection, determining physical characteristics, and design information. Discusses internal examination of the warhead, facilities and safety of test personnel, and dynamic tests. Describes data reduction and presentation. Applies to HEAT warheads that do not spin in flight.

4-2-825

AD-A057390

8 Jun 78

## FLASH RADIOGRAPHY IN BALLISTIC TESTING

Provides procedures for use of high-speed flash radiographic equipment to obtain shadowgraphs or radiographs of projectile performance in bore, at the muzzle, in flight, or upon impact with target. Describes equipment, test setup, safety precautions, advantages, and limitations.

4-2-826

AD-A075734

15 Oct 79

## SOLAR RADIATION TESTS

Describes methods for evaluating the effects of solar radiation and heat on military materiel and its operation through the use of environmental chambers. Includes a procedure for establishing an equivalent high temperature for use in environmental chamber high-temperature tests.

4-2-827

AD-872144

27 May 70

## TIME OF FLIGHT AND BALLISTIC COEFFICIENTS

Provides a method for evaluating techniques used in determining time of flight and calculating form factors and ballistic coefficients. Describes test preparation including sample size, selection of instrumentation, linear measurements, and introduction of errors. Discusses weapon characteristics and data, projectile pretests, distance between weapon muzzle to projectile-detecting devices, propellant and tube data, and weather and barometric information. Describes data reduction and presentation. Applies to projectile having essentially flat trajectories.

4-2-829

AD-A027709

9 Apr 76

## VERTICAL TARGET ACCURACY AND DISPERSION

Provides a method of evaluating the accuracy and dispersion of ammunition for tank guns, recoilless rifles, and artillery projectiles fired against vertical targets. Describes facilities and instrumentation, including automatic target scoring system; sighting and firing techniques; and measurements, computations, and data analysis. Applies also to firings for projectile strength of design and time of flight.

TECOM Pam 310-4

4-3-010

AD-871551

13 Apr 70

AMMUNITION, AIRCRAFT

Provides a method for evaluating aircraft ammunition physical and effectiveness characteristics. Describes procedures for test preparation, determination of operational performance, reliability, safety, human factors, personnel, and training. Discusses ammunition inspection, static data, weight and balance, compatibility with weapon system and personnel, loading/unloading weapon, belt or linking system, ejection devices, ballistic efficiency, hover firing, and terminal effectiveness. Describes data reduction and presentation. Applies to aviation ammunition.

4-3-148

AD-868258

18 Feb 70

FLARE, AIRCRAFT

Provides a system for evaluating aircraft flares, flare dispensers, and associated materiel physical and performance characteristics. Discusses test preparation requirements for initial inspection, inventory of basic issue items, physical characteristics, instrumentation, facilities, and equipment. Provides procedures for operator training, mission conduct, aircraft and crew compatibility, flare performance, operational dependability, area and degree of illumination, adverse conditions, transportability, maintenance, safety, human factors evaluation, and value analysis.

4-4-001

AD-875604

13 Jul 70

DESERT ENVIRONMENTAL TEST OF AMMUNITION AND EXPLOSIVES

Provides a system for evaluating ammunition and explosives functioning capability. Describes procedures for test preparation, initial inspection, physical characteristics, control functioning test, exposure functioning, security from detection, maintenance, and safety. Discusses sampling plans and considerations, inspection requirements, influence of terrain on desert environmental testing, exposure criteria, mileage criteria for tactical transportation, and functioning test for artillery ammunition. Applies to artillery and small arms ammunition, ammunition components, demolition materiel, mines, pyrotechnics, and ignition systems.

4-4-004

AD-866466

24 Nov 69

ARCTIC ENVIRONMENTAL TEST OF SMALL ARMS AMMUNITION

Describes a method for evaluating small arms ammunition performance characteristics. Provides procedures for initial inspection, physical characteristics, firing, velocity, suitability of tracer or spotter element, position disclosing effect, functional and operational suitability, aerial delivery, human factors, safety, and maintenance. Applies to small arms ammunition under arctic winter environmental conditions only.

4-4-005

AD-867362

26 Nov 69

## ARCTIC ENVIRONMENTAL TEST OF GRENADES AND GRENADE-TYPE AMMUNITION

Provides a system for evaluating grenade and grenade-type ammunition performance characteristics. Describes procedures for test preparation, initial inspection, physical characteristics, firing, fragmentation, position disclosing effect, functional and operational suitability, aerial delivery, human factors, safety, and maintenance evaluation tests. Provides a method for data reduction and presentation. Not applicable to grenade launchers.

4-4-006

AD-718688

19 May 69

## ARCTIC ENVIRONMENTAL TEST OF RECOILLESS AMMUNITION

Provides a method for evaluating recoilless ammunition physical and performance characteristics under arctic winter environmental conditions. Describes procedures for test preparation, preoperational inspection, firing, velocity, position disclosing effects, functional and operational suitability, aerial delivery, human factors, and maintenance. Discusses scheduling, preparation of personnel, instructional materials, selection of test equipment, record forms, and storage of test ammunition. Describes data reduction and presentation. Applies to recoilless ammunition under arctic winter environmental conditions.

4-4-007

AD-871430

17 Apr 70

## ARCTIC ENVIRONMENTAL TEST OF MORTAR AMMUNITION

Provides a method for evaluating mortar ammunition physical and performance characteristics under arctic winter environmental conditions. Describes procedures for preoperational inspection, firing test, velocity, chamber pressure, transportability, aerial delivery, positioning disclosing effects, screening effects, fragmentation, suitability of containers, fuze functioning, fuze setting, human factors, safety, and maintenance. Discusses scheduling, selection of test site, facilities and equipment, preparation of personnel, instructional materials, test equipment and records, safety, and maintenance. Describes data reduction and presentation. Applies to mortar ammunition under arctic winter environmental conditions.

4-4-008

AD-867360

26 Nov 69

## ARCTIC ENVIRONMENTAL TEST OF ARTILLERY AMMUNITION

Provides a method for evaluating artillery ammunition performance characteristics. Describes procedures for test preparation, initial inspection, physical characteristics, ammunition functioning, weather effects on weapon performance, accuracy, position disclosing effects, functional and operational suitability, portability, human factors, safety, and maintenance evaluation.

ARCTIC ENVIRONMENTAL TEST OF TANK AMMUNITION

Describes a method for evaluating tank ammunition performance characteristics. Provides procedures for test preparation, initial inspection, physical characteristics, compatibility, fuze functioning, observation and sensing, dispersion, ammunition functioning, human factors, safety, maintenance evaluation, and reliability.



5-1-014

AD-719670

31 Jul 69

## STATISTICAL METHODS OF RELIABILITY DETERMINATION

Discusses background information associated with reliability determinations, primarily for a missile system test. Topics include reliability requirements and test objectives, collection and format of data for reliability analyses, data reduction and presentation, reliability, and safety. Also provides formulas for finding lower confidence limits on a product of reliabilities and the reliability formula for life test data that follow a Weibull distribution. Includes glossary defining various terms associated with reliability testing.

5-1-020

AD-718705

31 Jan 69

## MISSILE FLIGHT SURVEILLANCE

Defines and discusses those range functions associated with missile flight surveillance. Includes the requirements for measurements, coordination, communication, and safety. Also discusses test vehicles and flight termination systems. Provides glossary of terms concerning missile flight surveillance.

5-1-025

AD-719672

10 Jun 68

## DYNAMIC STRUCTURAL DATA ANALYSIS

Describes methods and procedures dealing with the reduction, presentation, and analysis of environmental data which apply to structural evaluations and fall under the categories of vibration, shock, acoustics, and strain. Basically, this document deals only with the essential background material and methods used in the analysis of a prerecorded signal.

5-1-026

AD-718666

6 Dec 67

## RANGE INSTRUMENTATION LAYOUT

Provides background discussion of various types of range instrumentation necessary for missile and rocket testing. Includes description of available facilities at WSMR. Discusses telescopes, ballistic camera, cinetheodolites, radar, angle measuring equipment (AME), telemetry, velocimeters, doppler velocimeters, sky screen equipment, etc.

5-1-029

AD-718664

3 Jan 68

Cl, 9 Jan 68

## ROCKET SLED TESTING

Presents background information about rocket sleds. Discussion covers sled performance and instrumentation, as well as data analysis and evaluation. Includes a glossary containing various terms connected with rocket sled testing.

5-1-030

AD-A063483

1 Oct 78

ANALYTICAL MODELING AND COMPUTER SIMULATION OF SYSTEMS

Presents simulation development methodology as a succession of five closely related and often iterative stages. The stages are system analysis and requirements definition, implementation, verification, validation, and applications. Details the objectives for each of the development stages, and specifies the analytical and investigative procedures for accomplishing those objectives. Presents requirements for project documentation for each stage of simulation development.

5-1-031

AD-718565

31 Mar 69

CINETHEODOLITES

Presents background description of cinetheodolites, such as the Askania Cinetheodolite and the Controvia Cinetheodolite, and their capabilities. Discusses deployment of cinetheodolites and related support equipment during testing, as well as data acquisition and reduction. Also describes problems associated with cinetheodolites and error minimization procedures.

5-1-032

AD-768009

3 Apr 73

TROPIC ENVIRONMENTAL TEST OF MISSILE AND ROCKET SYSTEMS

Provides background information relative to test and evaluation of missile and rocket systems. Identifies supporting tests, facilities, and equipment required. Discusses conduct of test, test data, and analysis procedures. Applies to storage and field test in wet-warm and wet-hot climatic categories. Excludes simulated environments.

5-2-090

AD-872619

26 Jun 70

STARTER, EXTERNAL, GASOLINE AND ELECTRIC

Describes preparation for and methods of evaluating the technical performance and safety characteristics of external starters. Includes subtests for performance testing, kit evaluation, electromagnetic compatibility and magnetic permeability tests, environmental tests, durability tests, transportability tests, maintenance evaluation, safety evaluation, human factors evaluation, value analysis, and quality assurance.

5-2-500

AD-718571

19 Jan 67

## TESTS OF SOLID PROPELLENT SYSTEMS

Provides procedures to evaluate the performance of solid propellant motors after being subjected to various environmental treatments and to ascertain tactical hazards and methods of self-destruct. Includes subtests for motor inspection, static firing operations, igniter tests, and tactical hazard and destruct tests which include the following: open flame fire test, nozzle impingement test, sympathetic detonation test, gunfire test, slow heat test, self-destruct test, high-level drop test, and thrust neutralizer test. Appendixes discuss special facilities and equipment, motor mounting, motor inspection methods, instrumentation, and igniter types. Procedures are intentionally general to provide test procedures applicable to a wide variety of solid propellant motors.

5-2-501

AD-718696

13 Jan 67

## TESTS OF LIQUID PROPELLENT SYSTEMS

Provides procedures to determine limitations and other characteristics which may affect liquid propellant systems operation. Subtests include static firing tests, nonfiring flow tests, hazard and destruct tests, and propulsion system components tests. Appendixes describe liquid propellant systems and special facilities and equipment.

5-2-503

AD-718706

14 Mar 67

## RESTRAINED FIRING TEST PROCEDURES

Provides procedures to determine missile operation and integrity when firing is conducted with the missile allowed to vibrate freely. Subtests include inspection tests, aerodynamic load tests, restrained firing tests, and post firing operations. Appendixes discuss the advantages and uses of restrained firing, instrumentation, and firing test facilities and equipment. Procedures are intentionally general to provide coverage of a wide variety of missile motors.

5-2-504

AD-718232

8 Jan 68  
Cl, 2 Feb 58

## STRUCTURAL TESTING FOR NONOSCILLATING STEADY STATE AND TRANSIENT LOADS

Describes techniques for conducting realistic structural load environmental testing in conjunction with other applicable test operations procedures. Procedures include preparation for testing and the structural load test. Provides a glossary of terms and appendixes describing load testing facilities, equipment, instrumentation, and other test considerations. Theoretical coverage and mathematical development are limited to those required to understand the practical aspects of structural load testing. Procedures are limited to loads which are nonoscillatory but not necessarily static.

## SHOCK TEST PROCEDURES

Provides procedures to evaluate the reaction of a missile structure to the effects of mechanical shocks. Describes test preparation, test conduct, and data reduction and presentation. Appendixes discuss test specifications, shock machine facilities, instrumentation, shock environment simulation, and equivalent testing concepts. Also provides a glossary of terms. Limited to testing using single impact drop test machines.

## VIBRATION TEST

Instructs personnel in the techniques of missile vibration testing. Describes test preparation, test conduct, and data presentation. Provides a glossary of terms. Appendixes discuss vibration test specifications, vibration exciters, instrumentation, testing concepts, physical arrangement of exciter and test specimen, theoretical considerations, mechanical impedance matching, equalization problems in random testing, and failure detection problems.

## ACOUSTIC TEST PROCEDURES

Provides procedures to determine the effects of simulated or actual flight acoustics (high-level noises) upon the missile skin, structure, and components. Subtests include reproduction testing, simulated testing, fatigue testing, and actual operational testing. Appendixes discuss acoustic environment, acoustic test facilities and equipment, sound characteristics, comparative information, advantages and disadvantages of acoustical laboratory testing, and types of failures.

## AERODYNAMIC HEATING

Presents heating methods of subjecting a test specimen to heating effects that simulate those aerodynamic heating effects that the test specimen would encounter if flown in a given trajectory. Includes methods for mathematically determining probable heating effects on a test specimen flying a given trajectory using standard air tables, known trajectory, shape of the test specimen, and known heat transfer constants. Provides a glossary of terms. Appendixes also discuss aerodynamic heating test facilities, instrumentation, and basic techniques for programing mission profiles. Procedures are intentionally general to provide discussion of a wide variety of missile configurations. Mathematical considerations limit this test to simulated temperature and altitudes where conventional gas dynamic solutions are valid.

5-2-510

AD-718552

15 Dec 67

## NOISE TESTS OF GUIDANCE COMPONENTS

Presents a basic discussion of the methods used to determine noise effects on guidance components. Included among test considerations are electronic noise, RF and radar control systems noise, infrared and optical systems noise, and inertial guidance systems noise. Appendixes discuss cause of noise in guidance systems and the effects of noise in guidance and control signal channels. Limited in scope to those noises which are the most common and frequently found in electronic, RF and radar control, and infrared and optical systems.

5-2-511

AD-718668

6 Dec 67

## FIRE CONTROL OPERATIONS

Describes procedures to evaluate the live firing of a surface-to-air missile against a given target. Included are target acquisition, target tracking, and target interception tests. Tests are limited in scope to those items or components directly used during a fire mission, and their ability to function as an integrated system.

5-2-512

AD-870598

20 Mar 70

## INVESTIGATION OF MISSILE SYSTEM AERODYNAMICS

Provides general guidance for obtaining data on missile aerodynamics during actual flight conditions. Presents uses of missile flight simulation, prescribes setup of ground instrumentation and data handling facilities, outlines preflight missile inspection procedures, prescribes installation of missileborne instrumentation, and enumerates meteorological support needs. Gives guidelines for reducing data to obtain force and moment coefficients, aerodynamic heating effects, aeroelastic effects, and establishment of flight safety boundaries. Limited to rockets and missiles with a range of up to 200 miles ground track.

5-2-513

AD-718717

17 Jun 68

## MISSILEBORNE ACCELEROMETER TESTS

Presents procedures composed of tests common to all linear accelerometers followed by tests applicable only to spring-mass type accelerometers with dc potentiometer pickoff, gyro-type integrating accelerometers, and piezoelectric-type accelerometers. The common tests include visual examination, resistance and insulation, frequency response and damping factors, null offset  $E_n$  and null uncertainty, sensitive axis alignment, linearity, scale factor constancy, cross coupling, pickoff scale factor and spring constant, quadrature voltage, case leaks, tests under specified environment, and dielectric tests. Subtests for spring-mass-type accelerometers include potentiometer resolution, sensitivity resolution, static friction, plus and minus  $I_0$  static calibration, swept length and width of potentiometer wiper, calibration, linearity, and repeatability. Appendixes describe accelerometers and discuss sensitive axis alignment.

TECOM Pam 310-4

5-2-515

AD-718656

6 Feb 68

#### MISSILEBORNE PRESSURE ALTIMETERS

Provides guides for evaluating missileborne pressure altimeters that are designed to sense the value of atmospheric pressure at a preset flight level, and interpret the sensed value in terms of distance above or below the preset flight level. Describes the following tests: resistance, output impedance, and insulation tests; dielectric test; null and quadrature voltage test; gradient and linearity test; hysteresis and striction test; absolute accuracy test; polarity, phase shift, and reversal test; wave form test; leakage test; transient response test; frequency response test; and life cycle test. Appendixes discuss missileborne pressure altimeters and typical transient and frequency response configurations. Limited to those altimeters that are designed to sense the distance above or below a preset altitude.

5-2-516

AD-718733

15 Feb 68

#### PRESSURE TRANSMITTERS

Provides general procedures for evaluating pressure transmitters commonly found in missile systems. Describes the following tests: visual examination, case leak, overall sensitivity and pickoff resolution, calibration-linearity, hysteresis, friction, repeatability, variation in contact resistance, width of potentiometer, range end points, zero drift, transient response, overall resolution, frequency response, accelerated life testing, and resistance, insulation, and dielectric tests. Appendixes describe pressure transmitters and an example of a typical contact resistance measuring circuit. Limited in scope to those pressure transmitters commonly found in missile systems.

5-2-519

AD-718669

14 Dec 67

#### MOVING TARGET INDICATORS (MTI)

Describes procedures for evaluating MTI systems. Specific tests include minimum discernible signal measurement, clutter amplitude measurement, sub-clutter visibility test, clutter rejection test, blind speed test, scanning modulation test, and nonsynchronous signal rejection tests. Provides a glossary of terms related to MTI systems. Appendix discusses testing moving target indicators. Restricted to laboratory tests of typical MTI configurations, and no attempt is made to describe the values or arrangements of individual components.

5-2-520

AD-718716

18 Oct 67

## RANGING SYSTEM TEST

Describes methods for evaluating two typical ranging systems under both static and dynamic conditions. Subtests for a geometric ranging system include target position - beam axis determination (static and dynamic), positioning accuracy (static and dynamic), coordinate transformation error, propagation error determination, maximum and minimum range determination (electrical and geometric), and range tracking noise. Specific subtests for a propagation time measurement ranging system include range accuracy determination (static and dynamic), maximum and minimum range, maximum tracking range, range tracking noise, and range resolution capability. Appendixes discuss both geometric ranging systems and propagation time measurement ranging systems. Excludes systems using comparison ranging methods.

5-2-524

AD-718556

3 Jan 68

## MISSILEBORNE GUIDANCE AND CONTROL (MBGC) SUBSYSTEM TESTS

Outlines procedures to determine the applicability of a missileborne guidance and control system to a given use, both from an operational and performance point of view. Operational subtests include an organizational checkout equipment subtest and an MBGC assembly operation subtest. Static performance subtests determine accuracy, sensitivity, dead band, drift, cross coupling, repeatability, stability, and response. Dynamic performance subtests determine the MBGC subsystem capabilities under dynamic loading and noise conditions. Procedures are limited to laboratory tests.

5-2-526

AD-871341

30 Mar 70

## MISSILEBORNE OPTICAL RECEIVERS AND TRANSMITTERS

Describes procedures for evaluating the performance of missileborne optical receivers and transmitters. Receiver tests determine spectral response, frequency response, rise and fall time, optical power limits, and field of view. Transmitter tests determine wavelengths, mode structure, peak and average power, steady-state power, stability, modulation, losses, spectrum, power distribution, and field of broadcast. Limited to devices using visible or near visible radiation.

5-2-527

AD-763324

5 Jun 73

## RECEIVER (INFRARED SEEKERS)

Describes a method for evaluating heat-seeking missiles. Discusses preliminary activities, equipment, and facilities required. Provides procedures for gyro spin-up time, gyro spin-up current, gyro spin-down time, maximum look angle, recovery time, maximum slew rate, gyro drift, signal-to-noise ratio, cool-down time, field-of-view, caging accuracy, static gain, spectral responsivity, intercept ability, gyro spin versus slew rate, maximum tracking versus gyro spin, maximum tracking rate versus target intensity, low-temperature storage and operation, high-temperature storage and operation, transportation vibration, handling shock, and boost shock. Discusses gyro spin-up time, maximum look angle, signal-to-noise ratio, and low temperature storage. Limited to infrared seekers.

TECOM Pam 310-4

5-2-528

AD-718233

8 Dec 67

Cl, 8 Mar 68

#### GROUND GUIDANCE SYSTEM TESTS

Provides general description of tests required to evaluate the performance of ground guidance systems. Specific tests include maximum and minimum ranges of acquisition radar test, maximum tracking range test, transfer to track time test, transfer to track accuracy test, quality of position information supplied by tracker test, maximum angle and range tracking rates test, and human engineering test. Appendix provides detailed discussion of ground guidance systems.

5-2-529

AD-718234

7 Dec 67

#### RADAR RECEIVERS

Provides procedures for evaluating the performance of radar receivers. Includes subtests which determine receiver sensitivity, receiver noise, receiver bandwidth, and receiver recovery. All tests to be conducted at room temperature; excludes environmental testing.

5-2-530

AD-718235

5 Dec 67

#### TRANSMITTER TESTS

Describes tests to determine and evaluate such transmitter characteristics as accuracy and reliability. Frequency generator tests determine tuning range, frequency stability, frequency spectrum, power output, modulation capability, and operation under extreme conditions. Power amplifier tests determine gain bandwidth characteristics, variation of power output, frequency response range, frequency and power output spectrum, distortion due to amplifier, and modulation signal frequency. Modulator tests include output waveshape and amplitude, input waveshape required, recovery time, and pulse transformer output voltage waveshape. Synchronizer tests measure pulse waveshape and frequency stability of pulse repetition rate. Includes a glossary of terms related to radar transmitters. Excludes environmental testing.

5-2-531

AD-718567

28 Dec 67

#### GROUND GUIDANCE COMPUTERS

Describes procedures to determine the applicability of ground guidance computers to the intended usage. Subtests for analog computers include individual circuit tests, static tests, dynamic tests, and dynamic evaluation. Also provides subtests for digital computers including input unit static and dynamic tests, memory unit tests, arithmetic and programing unit test, computer outputs and displays test, and system dynamic tests. In addition, provides for an analysis of the degree of automation built into the guidance computer. Appendix provides additional information on testing ground guidance computers.



5-2-532

AD-718236

11 Mar 68

## COMPUTERS (ELECTRONIC)

Describes procedures to determine the applicability of missileborne electronic computers to the intended usage. Specific tests include composite tests, limiter tests, timer tests, integrator tests, differentiator tests, control amplifier tests, comparator tests, and mixer tests. Limited to missileborne analog computers.

5-2-533

AD-718561

25 Jan 68

## MISSILEBORNE COMPUTER (MECHANICAL)

Provides procedures to ascertain characteristics such as accuracy and repeatability of missileborne computers. Included subtests are gear train friction and direction of rotation test, integrator zero and backlash test, integrator accuracy test, and carriage excursion time test. Limited to mechanical computers of the ball and disk integrator type only.

5-2-534

AD-718557

8 Mar 68

## MISSILEBORNE COMPUTERS (ELECTROMECHANICAL)

Describes a method of testing electromechanical computers. Subtests cover resistance potentiometers, induction potentiometers, synchros, and resolvers. Appendix provides additional discussion of electromechanical computers.

5-2-538

AD-728593

14 Mar 68

## SERVOMECHANISMS

Provides procedures to evaluate the performance of servomechanisms. Time domain tests and frequency domain tests are conducted. Excludes testing under environmental extremes.

5-2-539

AD-718554

12 Jul 68

## MISSILEBORNE ELECTRICAL POWER SUPPLY TESTS

Provides procedures for evaluating the performance of missileborne electrical power supplies. Subtests include power supply warmup test, power supply accuracy and stability test, output voltage regulation test, efficiency test, harmonic distortion test, ripple content test, relay functions test, frequency stability test, frequency analysis test, phase unbalance test, phase angle test, and battery life test. Appendix describes power supply test configurations.

5-2-540

AD-718555

9 May 67

## MISSILEBORNE GAS-OPERATED POWER SUPPLY TESTS (PNEUMATIC AND HOT GAS)

Provides procedures to ascertain characteristics of gas-operated missile-borne power supplies. Describes starting time tests, pressure regulation tests, power capability tests, fuel consumption and onboard run time tests, operating life and wear resistance test, operating positions test, resonant spectrum test, leakage test, relief valve test, hydrostatic test, and overspeed test.

5-2-542

AD-718553

4 Jan 68

## MISSILEBORNE HYDRAULIC POWER SUPPLIES

Provides procedures to ascertain power supply characteristics such as fuel consumption, power capability, regulation, and reliability. Includes start time test, pressure regulation test, steady-state and dynamic power capabilities test, fuel consumption and run time test, operating positions tests, resonant spectrum test, valve seal and operating limits test, hydrostatic test, nominal heat rise test, operating life and wear resistance test, and overspeed and burst speed test. Excludes hydraulic power supplies which use the main propulsion system power takeoff as the prime mover.

5-2-582

AD-718589

16 Mar 67

## TEMPERATURE - ALTITUDE TESTS

Describes procedures to determine the ability of a missile system and its components to operate and withstand degradation during and after exposure to various temperature - altitude environments. Tests are conducted using an environmental simulation facility. Pressures are varied from those encountered at sea level to those at 80,000 feet. Temperatures range from -62°C to +260°C. Excludes items containing explosives or flammable material, items not readily transportable, and items of sizes capable of affecting the ability of the environmental facility to maintain desired conditions.

5-2-585

AD-A047970

11 Dec 75

## CHEMICAL TESTS (PROPELLANTS, GASES, AND METALS)

Prescribes a method for evaluating missile system materials and identifies chemical analysis tests, facilities, and equipment for use, as appropriate. Provides procedures for propellant, gas, and metal tests. Applies to missile system material properties determinable by chemical tests.

5-2-586

AD-718238

29 Feb 68

## CENTRIFUGE TEST PROCEDURES

Describes procedures for conducting a centrifuge test program; provides necessary particulars to be performed when a test specimen is exposed to steady state accelerations. Appendixes discuss centrifuges, centrifuge instrumentation and calibration, as well as test considerations and planning.

5-2-587

AD-718239

10 Aug 67

## PHOTOSTRESS METHOD OF STRUCTURAL DATA ACQUISITION

Describes methods for performing photostress data acquisition including the selection, application, and calibration of the plastic coating; the acquisition of photostress data using a reflective polariscope; the determination of principal stresses by the construction of stress trajectories; and the determination of the difference in magnitude of principal stresses. Does not describe analysis of stress in any specific structure. Appendixes discuss polarization of light, optical law of photostress, and necessary test equipment.

5-2-599

AD-718244

31 Jan 68

## CREEP TEST PROCEDURES

Outlines various tests which can be performed to obtain creep data for metallic and plastic materials. Appendixes discuss creep behavior of materials and testing considerations for creep tests.

5-2-606

AD-726003

30 Jan 68

## COMBINED STRUCTURAL ENVIRONMENTAL TESTS

Describes a series of combined structural environmental tests which are conducted to simulate the various conditions which missiles and missile equipment are expected to experience during normal operation. Appendixes discuss combined environmental testing, criteria for selecting test parameters, and facilities required for conducting various tests.

5-3-101

AD-718788

12 Jan 71  
Cl, 20 Jul 73

## MISSILE, AIR-TO-GROUND

Provides service test procedures to evaluate air-to-ground missiles and associated aircraft equipment. Subjects include pretest operations, installation requirements, weight and balance, operational performance (guidance and trajectory efficiency, terminal effectiveness, night operations), handling requirements, maintenance, personnel and training requirements, human factors, and safety.

TECOM Pam 310-4

5-3-534

AD-871334

25 Mar 70

VULNERABILITY TO DETECTION AND IDENTIFICATION

Describes procedures to determine the vulnerability of a surface-based tactical missile system to detection and identification. Specific tests determine vulnerability to aerial, ground, and electromagnetic surveillance. Limited to mobile, tactical missile systems and currently standard surveillance systems.

5-4-001

AD-718659

22 Oct 68

DESERT ENVIRONMENTAL TESTING OF MISSILE AND ROCKET SYSTEMS

Describes preparation, conduct, recording, and reporting methods used for desert environmental testing of missile, rocket, and ancillary systems and equipment. Specific subtests include exposure, performance, maintenance, security from detection, and safety. Excludes missiles such as ICBM's and anti-ICBM's; warheads for missiles and rockets; components which serve non-weapon functions such as vehicles, electronic fire control systems, and explosive ordnance items; and missile and rocket subsystems used for aircraft armament.

6-1-001

AD-718590

9 Jul 69

**TESTING COMMUNICATION, SURVEILLANCE, AND AVIONIC ELECTRONIC EQUIPMENT**

Provides a method for evaluating physical and performance characteristics of communication, surveillance, and avionic electronic equipment relative to suitability for service use. Describes procedures for test preparation in three phases: engineering, service, and environmental. Engineering test phases include components, intercomponent compatibility of subsystem interface, subsystems, and systems. Service tests evaluate the maintenance package, suitability of the equipment, and the degree to which the item meets the military characteristics. Environmental procedures determine how effectively the test items perform in the environments of intended use. Discusses instrumentation techniques, general test design considerations, test procedures, and test facilities.

6-2-013

AD-720207

6 Feb 68

**ABSOLUTE ALTIMETERS**

Provides a method for evaluating absolute altimeter physical and performance characteristics. Describes procedures for test preparation, warmup time requirements, primary voltage sensitivity, mutual interference, low altitude voltage sensitivity, low altitude accuracy and resolution, failsafe features, pitch and roll, accuracy and range, terrain tracking, operation over water, effects of adverse weather, function over icecaps and snow, and reliability during continuous operations.

6-2-015

AD-718577

1 Aug 67

**AMPLIFIERS, GENERAL**

Provides a method for evaluating general amplifier physical and performance characteristics. Describes procedures for test preparation, determinations of noise figure, input and output impedance, selectivity and phase difference, gain-bandwidth, linearity, feedback factor, and warmup time. Discusses procedures for impedance matching requirements, instrumentation calibration and accuracy, test conditions, and control settings. Describes data reduction and presentation. Applies to amplifiers having three adjustable parameters: gain, tuned frequency, and bandwidth.

6-2-020

AD-720208

3 Oct 67

**RADAR ANTENNA SUBSYSTEM TESTS**

Provides a method for evaluating radar antenna subsystem physical and performance characteristics. Describes procedures for test preparation, determinations of antenna radiation pattern, antenna gain, antenna bandwidth and side lobes, input impedance, antenna polarization, antenna scanning rates, antenna data accuracy, antenna slewing and tracking rates, servo response, and phase front. Discusses prescheduling and pretest conditions, data reduction, and presentation. Applies to antenna subsystems when radome and antenna are integral in construction.

6-2-030

AD-720209

16 Dec 68

## BEACON DEVICES, ELECTRONIC

Provides a method for evaluating electronic beacon technical and engineering characteristics. Describes procedures for electromagnetic field pattern, transmission range, power requirement and supply, electromagnetic vulnerability and compatibility, spectrum signature, frequency accuracy and stability, triggering system, crystal units, and bench tests. Discusses test preparation, visual inspections, data reduction, and presentation. Applies to navigation and non-IFF uses.

6-2-034

AD-719094

17 Sep 68

## CHRONOGRAPH, FIELD ARTILLERY

Provides a method for evaluating a doppler system type radar chronograph. Describes test preparation, procedures for laboratory electronics tests, field operations tests, trial firing, accuracy tests, exposure of the test item to adverse conditions, transportability, reliability, maintenance, safety, and human factors. Discusses receipt inspection, facilities, laboratory electron tests, and radar chronograph associated equipment.

6-2-035

AD-719679

28 Mar 69

## COMBAT SURVEILLANCE SYSTEMS

Provides a method for evaluating combat surveillance system physical and performance characteristics relative to suitability for service use. Describes procedures for test preparation, maximum and minimum acquisition and resolution, scan rates, target saturation level, lock-on time after detection, maximum and minimum elevation angles, line of resolution, flight test of image data acquisition subsystem, and laboratory test of image processor subsystem. Discusses data reduction and presentation. Applies to systems which produce permanent record imagery.

6-2-050

AD-718579

22 Sep 69

## SIGNAL CONVERTERS

Provides a method for evaluating signal converter physical and performance characteristics relative to suitability for service use. Describes procedures for test preparation, signaling, and transmission tests. Describes data reduction and presentation. Excludes the testing of items designed for conversion of information-type signals.

6-2-052

AD-718638

31 Dec 68

## COUNTERMEASURES EQUIPMENT, NONCOMMUNICATION SYSTEMS

Provides a method for evaluating countermeasures equipment technical performance and characteristics. Describes procedures for test preparation, parameter, and field tests. Discusses selection of test equipment, item physical data, operator training, review of instructional material, chronology data, safety, physical and electrical defect inspections, verification of power source, preparation of a sample plan providing final data, and preparation of aircraft with proper instrumentation. Describes electromagnetic characteristics, intercept and direction finding, jamming, and ECM system tests. Discusses data reduction and presentation. Applies to general category of countermeasures equipment.

6-2-055

AD-869897

25 Mar 70

## COMMUNICATION SECURITY EQUIPMENT

Provides a method for evaluating communication security equipment physical and technical performance characteristics relative to suitability for service use. Describes procedures for test preparation, component system, and open field tests. Discusses scheduling, selection of test equipment, item physical data, operator training, review of instructional materials, chronology data, safety, physical and electrical defects inspection, verification of power source, and preparation of sample plan providing final data. Describes terminal impedance, timing signal characteristics, encrypted signal and classified characteristics, and electromagnetic interference. Discusses back-to-back, closed loop, and open field tests. Discusses data reduction and presentation. Applies to testing cryptoequipment and associated crypto-ancillary equipment.

6-2-060

AD-866467

15 Dec 69

## DATA PROCESSING EQUIPMENT

Provides a method for evaluating data processing equipment physical and technical performance characteristics relative to suitability for service use. Describes procedures for test preparation, component, subsystem, and system tests. Discusses selection of test equipment, item physical data, preparation of test personnel, review of instructional materials, chronology data, safety, physical and electrical defects inspection, and verification of power source. Describes component, subsystem, and system tests. Discusses data reduction and presentation. Excludes the detailed testing of data acquisition equipment which may interface with the test item.

TECOM Pam 310-4

6-2-063

AD-720969

25 Sep '69

COMPUTER, DIGITAL, FIELD ARTILLERY, AND PROGRAMS FOR ARTILLERY APPLICATIONS

Provides a method for evaluating field artillery digital computer physical and technical performance characteristics relative to suitability for service use. Describes procedures for test preparation, component, and system tests. Discusses selection of test equipment, item physical data, preparation of test personnel, review of instructional material, safety, chronology data, physical and electrical defects inspections, and verification of power source. Describes timing circuit and real time tests, system tests for checkouts, manual operation, programed logic and controls, and sample problem program. Discusses data reduction and presentation. Excludes testing of data acquisition equipment and of firing units which would interface with the commodity.

6-2-065

AD-718635

25 Sep 69

DATA TRANSMISSION EQUIPMENT

Provides a method for evaluating data transmission equipment physical and technical performance characteristics. Describes procedures for test preparation, component, system, and closed or open field tests. Discusses selection of test equipment, item physical data, preparation of test personnel, review of instructional material, chronology data, safety, item physical and electrical defects inspections, verification of power source, and preparation of sample plan for final data. Describes component tests, terminal impedance, operating parameters, timing signal and transmitter output characteristics, and noise tolerance. Discusses data reduction and presentation. Excludes consideration of equipment designed or required solely to resolve ADP equipment anomalies.

6-2-070

AD-718636

27 Nov 68

DIRECTION FINDER SET, RADIO

Provides a method for evaluating radio direction finder set physical and technical performance characteristics. Describes procedures for test preparation, determining sensitivity, bearing accuracy, selectivity, audio frequency response, spurious response, dynamic range, characteristics of radar antennas, and measuring system performance by multiple bearing tests. Discusses data reduction and presentation. Not applicable to larger direction finding systems providing intercept reception, spectrum analysis communication reception, and telephone communications.



6-2-075

AD-718637

1 Jun 67

## DISTANCE MEASURING EQUIPMENT (DME), GENERAL

Provides a method for evaluating general distance measuring equipment physical and technical performance characteristics. Describes procedures for test preparation, range and accuracy, warmup, influence of weather, and warning and restricting devices. Discusses selection of test equipment, item physical data, preparation of test personnel, review of instructional material, physical and electrical defects inspection, chronology data, safety, and aircraft equipment. Describes test item ranges, aircraft courses, data on the frequency distribution of DME error, and tellurometers. Discusses data reduction and presentation. Excludes DME components in detail.

6-2-080

AD-718608

1 Dec 67

## FACSIMILE SETS

Provides a method for evaluating facsimile set physical and technical performance characteristics relative to suitability for service use. Describes procedures for test preparation, selection of photographs, maps and diagrams, scanning/recording motion, modulation/demodulation methods, recording process and medium, equipment configuration, and special facility requirements. Discusses frequency standards, item sample index of cooperation, scan/record speed and synchronization, phasing functions, terminal impedance, transmitter output power, receiver sensitivity, picture/signal characteristics, supervisory functions, electromagnetic interference, power supply, and transmission facility tests. Describes data reduction and presentation. Excludes converters which may be required to interface the test item with certain transmission facilities.

6-2-089

AD-718609

28 Aug 68

## FLASH UNIT, ELECTRONIC

Provides a method for evaluating electronic flash and unit physical and technical performance characteristics. Describes procedures for test preparation, flash duration and flash repetition rate, synchronous operation, illumination intensity and uniformity, electrical power requirements, and electromagnetic interference characteristics. Discusses required records, inspections, standard equipment, and safety. Describes data reduction and presentation. Not applicable to the aerodynamic characteristics of externally mounted flash units and the airworthiness of aircraft with the unit installed.

6-2-090

AD-718642

12 Mar 69

## FLIGHT LINE ANALYZERS

Provides a method for evaluating flight line analyzer physical and performance characteristics relative to suitability for service use. Describes procedures for test preparation, radio frequency interference, adequacy of power source, input and output impedance, sensor circuitry sensitivity and accuracy, indicator characteristics, fault isolation ability, allowable tolerance, and self-test characteristics. Discusses selection of test equipment, preparation of test personnel, review of instructional material, chronology of data, safety, inspections, verification of power source, and test item sample of final data. Describes data reduction and presentation.

6-2-095

AD-718605

19 Nov 68

## FUZE JAMMER COUNTERMEASURES EQUIPMENT

Provides a method for evaluating fuze jammer countermeasures equipment physical and technical performance characteristics. Describes procedures for test preparation, parameter, and field tests. Discusses prescheduling and pretesting conditions, optimum jammer parameters and effective area, and volley fire effectiveness. Describes airborne test items, area of normal VT fuze action, area protection, effectiveness versus fuze type, effectiveness against salvo fire, and maximum effectiveness. Discusses data reduction and presentation. Excludes consideration of test item features, functions, or characteristics requiring application of security measures.

6-2-105

AD-866651

15 Dec 69

## GROUND STATION, GEODETIC, RADIO RANGING

Provides a method for evaluating ground station portion of geodetic survey systems physical and technical performance characteristics. Describes procedures for test preparation, component, and system tests. Discusses preparation of test personnel, review of instructional material, chronology data, safety, physical and electrical defects inspection, verification of power source, and test item sample for final data. Describes employment of block diagrams, supporting pictorial or graphical material, engineering logbook, and instrumentation description. Discusses data reduction and presentation.

6-2-110

AD-718643

18 Aug 69

## HANDSET, TELEPHONE

Provides a method for evaluating telephone handset physical and technical performance characteristics relative to suitability for service use. Describes procedures for test preparation and visual, mechanical, and performance tests. Discusses test equipment, item physical data, preparation of test personnel, safety, chronology data, test item sample for final data, and review of instructional material. Describes procedures for earphone frequency response, distortion, impedance, overload and magnetic stability, transformer insertion loss and frequency response, switch operation, life and characteristics, microphone frequency response, signal to noise ratio, calibration and measurement procedures, and signaling devices. Discusses data reduction and presentation. Applies to tactical military equipment.

6-2-115

AD-720558

18 Aug 69

## HEADSETS (EARPHONES)

Provides a method for evaluating earphone headset physical and technical performance characteristics relative to suitability for service use. Describes procedures for test preparation and visual, mechanical, and performance tests. Discusses test equipment, safety, chronology data, test item sample plan for final data, and review of instructional material. Describes earphone frequency response, earphone distortion, impedance, overload, and magnetic stability; dielectric strength and insulation resistance, transformer insertion loss, and frequency response; and switch operation, life, and characteristics. Discusses data reduction and presentation. Excludes microphone component of headset-chestset and headset-microphone assemblies.

6-2-120

AD-718644

1 Feb 68  
Cl, 13 Feb 70

## HEADING REFERENCE SYSTEMS

Provides a method for evaluating technical performance of heading reference systems. Describes procedures for determining radio frequency interference, low-strength, earth-magnetic-field environment, voltage and frequency variation, erection cycle and accuracy, heading drift rate, vertical drift rate, heading procession rate, compass mode accuracy, and compass air swing. Discusses selection of test equipment, preparation of test personnel, review of instructional material, physical and electrical test personnel, review of instructional material, physical and electrical defect inspection, chronology data, and safety. Describes photographic and stable platform methods for tests. Discusses data reduction and presentation. Applies to heading reference systems of the directional gyro type.

TECOM Pam 310-4

6-2-135

AD-718645

8 Dec 67  
Cl, 27 Feb 70

#### INFRARED EQUIPMENT, GENERAL

Provides a method for evaluating general infrared equipment physical and performance characteristics. Describes procedures for test preparation, absolute sensitivity measurements, contrast (thermal gradient) measurements, resolution measurements, and distortion measurements. Discusses selection of test equipment, preparation of test personnel, review of instructional material, chronology data, and review of instructions to prevent equipment damage. Describes data reduction and presentation. Applies to infrared surveillance equipment.

6-2-140

AD-867067

16 Jan 70

#### INTEGRATED AIRCRAFT INSTRUMENTATION

Provides a method for evaluating integrated aircraft instrumentation physical and technical performance characteristics relative to suitability for service use. Describes procedures for test preparation, and tests for components, laboratory, and flight performance. Discusses selection of test equipment, item physical data, preparation of test personnel, review of instructional material, chronology data, safety, physical and electrical defect inspection, test item sample for final data, instrumentation of support aircraft, and coordination of the meteorological support activity. Describes data reduction and presentation. Excludes automatic flight control systems (autopilot) and stability-augmentation systems.

6-2-145

AD-720582

11 Aug 69

#### INTERCOMMUNICATION SETS

Provides a method for evaluating intercommunication set physical and technical performance characteristics relative to suitability for service use. Describes procedures for test preparation, electroacoustic characteristics, intelligibility, and miscellaneous tests. Discusses selection of test equipment, preparation of test personnel, review of instructional material, chronology data, safety, test item physical and electrical defect inspection, verification of power source, and test item sample plan for final data. Describes transmitting and receiving tests, ancillary transducers, signaling, crosstalk, vibration, and electromagnetic interference tests. Discusses data reduction and presentation. Excludes special items designated as "intercommunication" which are integral or ancillary components of vehicular (tank, aircraft) ratio-interphone systems or ground-based air traffic control center systems. Also excludes intercommunication features of common-user telephone systems.

6-2-160

AD-718620

18 Aug 69

**LANDING CONTROL CENTRALS**

Provides a method for evaluating landing control central physical and technical performance characteristics relative to suitability for service use. Describes procedures for test preparation, component, and system tests. Discusses combined antenna, communication range, and space position and IFF data acquisition tests. Describes selection of test equipment, item physical data, preparation of test personnel, safety, test item sample plan for final data, review of instructional material, and coordination with the meteorological support activity.

6-2-165

AD-718621

27 Nov 68  
Cl, 28 Jun 73**LASERS**

Provides a method for evaluating laser physical and technical performance characteristics and associated equipment. Describes procedures for test preparation. output energy average power, peak power, pulse description, beam divergence, spectral width, temporal coherence, and degree of polarization. Discusses preparation of test personnel, previous item reports, use of logbook, review of instructional material, and degree of accuracy. Describes characteristics of laser radiation, biologic effects, medical surveillance, exposure of personnel, hazard evaluation, exposure control, carbon dioxide-nitrogen gas lasers, personnel protective equipment, and variation in laser systems. Discusses data reduction and presentation.

6-2-166

AD-720579

7 Oct 69

**LASER RANGEFINDERS**

Prescribes a method for evaluating laser rangefinder physical performance and safety characteristics. Describes procedures for test preparation, operational checkout and performance, power requirements, electromagnetic compatibility, environmental tests, transportability, reliability, maintenance, human factors, and safety. Discusses personnel training, initial inspections, physical and electrical characteristics, operational performance, transmitter operation, output pulse power, receiver operation signal detectability, detector and range counter pulse response, range counter accuracy, field tests, maximum range capability, optical collimation accuracy, target discrimination, and arming and sighting capability. Describes data reduction and presentation. Applies to laser rangefinders with pulsed solid-state transmitters.

6-2-175

AD-718599

22 Sep 69

## LIE DETECTORS, RECORDING

Provides a method for evaluating recording lie detector physical and technical performance characteristics relative to suitability for service use. Describes procedures for test preparation, preoperational inspections, and determination of performance effectiveness. Discusses selection of test equipment, item physical data, preparation of personnel, chronology data, test item sample plan for final data, and review of instructional material. Describes pneumograph air-leakage rate and dynamic range tests, cardio-sphygmograph air leakage rate, adequacy of centering control and sensitivity tests, galvanometer resistance range, and sensitivity and self-center function response time tests. Discusses data reduction and presentation. Applies to tactical military equipment.

6-2-182

AD-718598

1 Mar 67

## METEOROLOGICAL EQUIPMENT, BALLOONS

Provides a method for evaluating balloon physical and technical performance characteristics designed for meteorological flights. Describes procedures for test preparation, burst and aging effect tests, and reliability. Discusses selection of an environmental test chamber and test equipment, preparation of test personnel, review of instructional material, chronology data, pretest inspections, and preconditioning. Describes data reduction and presentation. Applies to ceiling, pilot, and sounding balloons used for meteorological purposes.

6-2-183

AD-718628

19 Mar 68

## METEOROLOGICAL EQUIPMENT, CLOUD HEIGHT SET (BEAM TYPE)

Provides a method for evaluating cloud height measurement system physical and technical performance characteristics. Describes procedures for test preparation, electrical power requirements, electrical power supply, technical characteristics of illuminator, detector sensor, scanner movement, angular height, display components, amplifier, and integrated system. Discusses lamp cooling, laser and radar systems, and radio frequency compatibility. Discusses data reduction and presentation. Applies to items which employ illumination techniques for measurement for cloud base height.

6-2-184

AD-720580

21 Jun 68

## METEOROLOGICAL EQUIPMENT; INFLATION, TETHERING, AND LAUNCHING EQUIPMENT

Provides a method for evaluating inflating, tethering, and launching equipment physical and technical performance characteristics. Describes procedures for hydrogen generator tests, inflation and launch devices, volume weight-off test, and engineering evaluation of publications. Discusses visual inspections, gas generator, volume meter, preparation of test personnel, records, forms, and safety. Describes data reduction and presentation. Applies to catalytic gas generators producing pure hydrogen.

6-2-185

AD-866629

15 Dec 69

**METEOROLOGICAL SOUNDING SYSTEMS**

Provides a method for evaluating meteorological sounding system physical and technical performance characteristics. Describes procedures for test preparation, radiosonde power output, battery life, and transmitter range tests, sensor response and temperature, humidity and pressure measuring accuracy, upper windspeed and direction measuring accuracy, frequency accuracy and stability, receiver sensitivity and selectivity, recording equipment, computer, antenna, balloon, and systems tests. Discusses data reduction and presentation. Applies to meteorological sounding systems which determine atmospheric pressure, temperature, humidity, and upper atmospheric windspeed and direction.

6-2-186

AD-718646

6 Jun 68

**METEOROLOGICAL EQUIPMENT; METEOROLOGICAL STATIONS, MANUAL OR AUTOMATIC**

Provides a method for evaluating safety aspects and technical performance characteristics of meteorological equipment and stations. Describes procedures for test preparation, temperature sensor, hygrometers, wind measurement sensor, cloud height set, rain and snow measurement sensor, visibility and air pressure sensor, aspirator system, indicator-recorder tests, transducers, transmitters, and decoders.

6-2-189

- AD-870954

20 Mar 70

**METEOROLOGICAL EQUIPMENT, WIND MEASURING, SURFACE**

Provides a method for evaluating surface wind measuring equipment physical and technical performance. Describes procedures for test preparation, windspeed, and direction components. Discusses scheduling, selection of test equipment, preparation of test personnel, review of instructional material, chronology data, safety, physical and electrical defect inspection, verification of power source, and test item sample for final data. Describes speed test accuracy and response, direction test accuracy, response and stability, component interchangeability, and electromagnetic interference tests. Discusses data reduction and presentation. Applies to portable and transportable wind measuring equipment and sets for field Army operations. Excludes consideration of upper atmosphere wind measuring systems.

## TDM-PCM MULTIPLEXERS

Provides a method for evaluating multiplexing equipment physical and technical performance characteristics. Describes procedures for test preparation, determining frequency response, input-output, linearity, gain stability, distortion, noise, and crosstalk. Discusses voice, teletype, facsimile and data transmission, and noise and crosstalk versus system loading. Describes order wire operation, integral test facilities, and electromagnetic interference. Discusses data reduction and presentation. Not applicable to radio sets integral to communication assemblage incorporating PCM multiplexers and individual special cable assemblies and components.

## NAVIGATION EQUIPMENT, AUTOMATIC

Provides a method for evaluating automatic navigation equipment physical and performance characteristics relative to suitability for service use. Describes procedures for test preparation, component, special component, and special tests. Discusses selection of test equipment, item physical data, preparation of test personnel, review of instructional material, chronology data, item physical and electrical defect inspection, and verification of power source. Describes special components tests including receiver-indicator, readout versus phase or time-difference of input signals, readout stability versus amplitude of input signals, dynamic response to phase-or-time-difference step input, dynamic response to signal amplitude step input, and slave receiver-transmitter synchronization tests. Systems tests include ground system coverage, accuracy, and repeatability; airborne system coverage, accuracy, and repeatability; and position fixing and navigation. Discusses data reduction and presentation. Excludes the testing of doppler systems and inertial navigation systems.

## NAVIGATION EQUIPMENT, DOPPLER

Provides a method for evaluating doppler navigation equipment physical and technical performance. Describes procedures for test preparation, determining radio frequency interference, RF power output, frequency stability, hover, and accuracy. Discusses item physical data, test personnel familiarity with test item, review of instructional material, and item physical and electrical defect inspection. Describes data reduction and presentation. Excludes doppler optical navigation systems.



6-2-210

AD-759926

1 Feb 73

## POWER SUPPLY, ELECTRICAL

Describes a method for evaluating electrical power supply operational and performance characteristics. Identifies supporting tests, facilities, and equipment required. Provides procedures for safety, input and output regulation, ripple, output transient voltage, overload protection, power changeover, meter accuracy, efficiency, visual-mechanical inspection, environmental tests, human factors, and electromagnetic interference. Applies to conversion-type electrical supplies and rotary and static converters. Not applicable to power supply converters that convert energy in any form other than electrical to electrical energy.

6-2-215

AD-720554

1 Nov 67

## PUBLIC ADDRESS SET

Provides a method for evaluating public address set physical and technical performance characteristics. Describes procedures for test preparation; determining characteristics of preparation; and determining characteristics of microphone, amplifier, loudspeaker, and speech transmission. Discusses selection of test equipment, preparation of test personnel, review of instructional material, chronology data, and safety. Describes scheduling; free field and impedance matching considerations; microphone amplitude, frequency response, and directivity; amplifier and loudspeaker amplitude, frequency response, and directivity; and speech transmission characteristics. Discusses data reduction and presentation.

6-2-220

AD-720581

18 Apr 69

## RADAR, FIELD ARTILLERY

Provides a method for evaluating field artillery radar physical and technical performance characteristics relative to suitability for service use. Describes procedures for test preparation, transmitter, receiver, antenna, moving target indicator, and system tests. Discusses selection of test equipment, item physical data, preparation of test personnel, review of instructional material, chronology data, item physical and electrical defect inspection, and test item sample plan for final data. Describes receiver noise figure, antenna measurements, moving target indicator threshold velocity detection capability, radar performance figure, radar minimum-maximum range, determination of target size, radar resolution, azimuth resolution, radar system accuracy, and mutual interference. Describes data reduction and presentation. Excludes capabilities as a fire direction-counterfire adjustment facility.

## RADAR, TARGET AND RANGING

Provides a method for evaluating target and ranging radar physical and technical performance characteristics. Describes procedures for test preparation, transmitter, receiver, receiver moving target indicator, and antenna and system tests. Discusses preparation of test personnel, item inspection, samples of final data, instrumentation requirements, and measurement computation. Describes transmitter power output, duty cycle figure, pulse and spectrum characteristics, frequency accuracy and stability, receiver selectivity, susceptibility, moving target indicator and subclutter visibility, and antenna tests. Describes data reduction and presentation. Applies to all pulsed radar systems.

## WEATHER RADAR

Provides a method for evaluating weather radar physical and technical performance characteristics. Describes procedures for test preparation, sensitivity time control, audio alarm, lsecho contouring, display persistence, functional tests, spatial coverage, radar system accuracy, and radar resolution. Discusses pretest conditions and preparations. Describes data reduction and presentation. Not applicable to procedures for extracting climatological data for radarscope film records.

## RADIO CONTROL EQUIPMENT

Provides a method for evaluating radio control equipment physical and technical performance characteristics. Describes procedures for test preparation, static test signaling, loop signaling, wire-to-wire and radio-to-wire signaling, voice frequency control, and transmission; dynamic test compatibility with interface equipment; and control through wire circuit. Discusses data reduction and presentation.

## RATE-OF-CLIMB INDICATORS

Provides a method for evaluating rate-of-climb indicator physical and technical performance characteristics. Describes procedures for test preparation, determining zero setting, leakage, scale error, pointer lag, position error, magnetic effect, and flight tests. Discusses data reduction and presentation. Applies to instantaneous rate-of-climb indicators.

6-2-242

AD-718617

1 Sep 67

## RECEIVER-TRANSMITTER, GENERAL

Provides a method for evaluating general receiver-transmitter physical and technical performance characteristics. Describes procedures for test preparation, determining power output and requirements, warmup time, frequency accuracy and stability, spurious emissions, channel selection time, carrier noise level, sidetone response, modulator bandwidth, modulation characteristics, transmitter range, sensitivity, audio frequency response, spurious response, dynamic range, vulnerability, compatibility, spectrum signature, and radio frequency interference tests. Discusses data reduction and presentation. Applies to the measurement of parameters that describe a voltage wave.

6-2-245

AD-718627

24 Jan 68

## RECORDING AND REPRODUCING EQUIPMENT, TAPE

Provides a method for evaluating tape recording and reproducing equipment physical and performance characteristics. Describes procedures for test preparation, determining electrical power requirements, frequency response, reproducibility (playback) response, distortion, flutter and wow, signal-to-noise ratio, tape running time, and calibration-indication characteristics. Discusses data reduction and presentation. Applies to magnetic tape recording and reproduction equipment operating in the audio frequency range only.

6-2-250

AD-720972

18 Aug 69

## RELAYS, RADIO

Provides a method for evaluating radio relay system physical and technical performance characteristics relative to suitability for service use. Describes procedures for test preparation, component tests including electromagnetic characteristics and primary power tests, and system tests including system quality and compatibility tests.

6-2-262

AD-718622

16 Apr 69

## SUPPRESSORS, VOLTAGE TRANSIENT

Describes a system for evaluating transient voltage suppressors. Discusses selection of test equipment, calibration, initial inspection, and identifying data. Provides procedures for radio transmitter output power, suppression of voltage transients, intelligibility degradation, adequacy of self-protection features, and electromagnetic compatibility. Describes applicable common engineering tests.

6-2-265

AD-720578

Mar 67

## SWITCHBOARDS, MANUAL

Provides a method for evaluating two-wire telephone switchboards. Discusses test preparation requirements for initial inspection, instrumentation, equipment, and functional check. Describes procedures for terminal impedance, amplitude versus frequency distortion, harmonic distortion, envelope delay distortion, longitudinal balance, crosstalk, noise, signaling and supervision, operator's telephone circuit, auxiliary circuits, compatibility with associated equipment, and instructional manual. Prescribes a system for data collection, reduction, and presentation. Not applicable to automatic electronic switching systems.

6-2-280

AD-718647

1 Dec 67

## TELETYPEWRITER EQUIPMENT

Prescribes a system for evaluating teletypewriters. Discusses preoperational requirements for functional check, instrumentation, and equipment. Provides procedures for orientation range, receiving circuit distortion tolerance, transmitting circuit distortion, sensitivity, signal speeds and composition, electromagnetic interference characteristics, internal signal line power supply characteristics, and miscellaneous electrical and mechanical features. Applies to teletypewriters using US Military Standard Coded Character Set, start/stop, five-unit code, International Number 2 Alphabet (American Variation).

6-2-285

AD-720555

26 Nov 68

## TEST SETS, ELECTRONIC

Provides a method for evaluating electronic test sets. Discusses test preparation requirements for initial inspection, safety precautions, facilities, and equipment. Defines test terminology. Provides procedures for meter characteristics, generating function, retrieving function, and combined function tests. Describes applicable common engineering tests. Discusses a system for data reduction and presentation.

6-2-288

AD-718629

5 Jun 69

## TERMINALS, RADIO

Describes a system for evaluating radio communication link terminals. Discusses radio terminal set basic characteristics, general configuration, and preparation for tests. Provides procedures for component, system, and electromagnetic environmental tests. Prescribes applicable common engineering tests. Applies to tactical direct link radio communication systems. Excludes communication security equipment.

6-2-290

AD-720210

29 Jan 69

## TERMINALS, TELEGRAPH AND TELEPHONE

Provides a method for evaluating telegraph and telephone equipment. Discusses frequency division multiplexing (FDM), time division multiplexing (TDM), and frequency shift keying (FSK) modulation. Provides procedures for test preparation, performance characteristics, transmission, traffic, order wire channel compatibility, adequacy, reliability, and electromagnetic interference. Prescribes a system for data reduction and presentation. Excludes radios, switchboards, teletypewriters, special cable assemblies, special components, and standard signaling and two-wire/four-wire converter equipment.

6-2-295

AD-718631

1 May 67

## TERRAIN AVOIDANCE EQUIPMENT

Prescribes a system for evaluating terrain avoidance equipment. Discusses pretest requirements for initial inspection, safety, instrumentation, equipment, and preflight preparations. Provides procedures for fail-safe, obstacle detection/resolution, automatic and manual profile following, automatic and manual vertical terrain clearance, lateral terrain clearance, automatic and manual dual mode, ground mapping, over water, over ice caps, and over snow. Describes a method for data reduction and presentation. Not applicable to pitch, roll, and yaw equipment. Excludes environmental testing.

6-2-300

- AD-718630

1 May 68

## TOWERS AND MASTS

Provides a method for evaluating towers and masts. Describes procedures for test preparation, lift mechanisms, locking components, guy cables, tension devices, anchorage, platforms, braces, struts, ladders, and instructional manuals. Prescribes a system for data reduction and presentation.

6-2-315

AD-718632

11 Jul 69

## TROPO-SCATTER COMMUNICATIONS SYSTEMS

Prescribes a system for evaluating tropo-scatter radio communications systems. Provides procedures for test preparation, power requirements, frequency accuracy and stability, spurious emissions, electromagnetic vulnerability and compatibility, antenna gain, antenna polarization, power output, modulation characteristics, carrier noise level, sensitivity, selectivity, audio frequency response, transmission, and compatibility with end instruments. Describes applicable common engineering tests. Discusses a method for data reduction and presentation. Transmission tests apply to transmitter and receiver circuits. Excludes verification of equipment reliability and end item tests; such as, facsimile, teletype, multiplexer, and encryption equipment.

TECOM Pam 310-4

6-2-326

AD-721599

14 Aug 68

C1, 11 Sep 68

C2, 5 May 72

#### WIRE AND CABLE

Provides a method for evaluating tactical wire and cable. Describes test preparation, conditions, and environment. Discusses procedures for field wire, multipair cable/cable assemblies, and carrier cable/cable assemblies. Provides a system for data reduction and presentation of conductor and insulation resistance, capacitance unbalance, attenuation, characteristic impedance, crosstalk, and electromagnetic interference.

6-2-327

AD-718633

21 Oct 69

#### CABLE AND WIRE DISPENSERS

Describes a system for evaluating cable and wire dispensers. Discusses pretest requirements for initial inspection, nomenclature, serial numbers, manufacturer, physical characteristics, instrumentation, and equipment. Provides procedures for laboratory and field payout, jettisoning, and air-lay characteristics. Prescribes a method for data reduction and presentation. Excludes laying techniques, loading and reloading dispensers, and the effect of weather and terrain on wire payout.

6-2-329

AD-720211

21 Aug 68

#### REELING MACHINES

Provides a method for evaluating reeling machines. Describes procedures for test preparation, reel type, size, speed, braking, clutch characteristics, torque, level wind, tension control, radio frequency interference, wire rewinding, and servicing capability. Adaptable to gasoline motor-driven, electric motor-driven, and hand-operated reeling machines.

6-2-330

AD-869899

20 Mar 70

#### DIRECTION FINDING EQUIPMENT, GYROSCOPES

Prescribes a system for evaluating gyro-stabilized direction finding equipment. Provides procedures for test preparation, voltage breakdown, leak, drift, balance, procession rate, leveling pickoff signal gradient, leveling rate, and scale error. Applies to the gyro unit. Excludes the amplifier.

6-2-331

AD-868939

26 Feb 70

#### FLASH RANGING EQUIPMENT

Provides a method for evaluating flash ranging equipment. Discusses procedures for test preparation, observation (spotting), instrumentation, orientation, angle measurement, target position location, communication equipment, and plotting boards. Applies to manually operated equipment.

6-2-332

AD-720974

25 Sep 69

## NUCLEAR YIELD MEASURING DEVICES

Describes a system for evaluating nuclear yield measuring devices. Discusses pretest requirements for initial inspection, device identifying data, instrumentation, equipment, and safety precautions. Provides procedures for response, electromagnetic interference, SFERICS response, nuclear weapons effects, microbiological, battery load, shelf life, reliability, and airdrop tests. Prescribes applicable common engineering tests.

6-2-333

AD-869898

20 Mar 70

## SEISMIC DETECTION AND RANGING

Prescribes a method for evaluating seismic detection and ranging devices. Discusses pretest requirements for initial inspection, component identifying data, safety precautions, functional check, instrumentation, and equipment. Provides procedures for response characteristics, effect of positioning, and characteristic signatures of vibrational disturbances, such as those caused by walking man, running man, military vehicles, and various explosions (mortar, grenade, etc.) in sand, gravel, mud, clay, and in the forest. Applies to tactical seismic detection and ranging devices.

6-2-334

AD-866620

15 Dec 69

## SURVEY SYSTEMS, AIRBORNE

Provides a method for evaluating airborne survey systems. Defines geodetic survey and position determining type systems. Describes procedures for test preparation, geodetic survey accuracy, overwater accuracy, repeatability, system-controlled photography, and traverse accuracy. Prescribes applicable common engineering tests. Provides sample calculations of results and data presentation format. Applies to overall system accuracy in electronic surveying (geodetic), controlled photography, and connection surveying (closed traverse).

6-2-335

AD-781946

7 May 74

## TEST, MEASUREMENT, AND DIAGNOSTIC EQUIPMENT (SYSTEM PECULIAR)

Describes methodology for evaluating system-peculiar test, measurement, and diagnostic equipment (TMDE), including physical and operational characteristics. Provides procedures for initial inspection, physical characteristics, safety, performance, extreme environments, interference, reliability, maintenance, and human factors. Includes supplementary instructions for identifying the test item, documenting test criteria, developing performance tests and environmental tests, organizing test plans, and evaluating the maintenance of TMDE.

## RELIABILITY

Describes a method for evaluating communication, surveillance, and avionic electronic equipment reliability characteristics. Provides procedures for preparing the item and conducting the test under controlled stress conditions. Prescribes the accumulation of failure, operating time, and temperature data. Discusses mean-time-between-failure, longevity characteristics, and overall assessment of reliability characteristics requirements. Appendixes define test terminology and describe reliability test plans; verification of exponential assumption for failure times; and reliability test levels, to include temperature cycling, vibration, equipment on-off cycling, duty cycling, and voltage cycling. Excludes determination of sample size, confidence levels, and risks associated with reliability estimation or demonstration.

## MAINTENANCE/MAINTAINABILITY

Provides a system for evaluating maintenance characteristics. Discusses preparation for test requirements. Describes procedures for maintenance package, organizational maintenance, direct and general support maintenance, tools and test equipment, technical manuscripts and manuals, and human factors. Prescribes the accumulation of data and the calculation of mean-time-between-failure with upper and lower confidence limits.

## SAFETY

Describes a method for evaluating materiel safety. Discusses preparation for test requirements. Provides procedures for safety inspection, observation by qualified personnel, completion of questionnaires, electrical hazards, mechanical hazards, and other potential hazards such as those associated with human factors, electromagnetic radiation, thermal sources, and chemical contamination. Excludes radiological emissions.

## VULNERABILITY, ELECTROMAGNETIC

Provides methods for determining the electromagnetic vulnerability of communications-electronics (C-E) equipment. Describes procedures to determine if C-E systems or equipment possesses inherent deficiencies which can be intentionally exploited by enemy electromagnetic means and if the contribution of the systems or equipment to the electromagnetic environment can be used to detect their presence and location.



6-2-514

AD-718651

6 Jun 68

**ELECTRICAL POWER REQUIREMENTS**

Provides a method for evaluating electronic materiel power requirements. Describes pretest requirements for initial inspection, component identity, instrumentation, equipment, and calibration. Provides procedures for warmup, power requirements, frequency variations, and voltage variations. Appendix discusses calculation of dc and ac power.

6-2-515

AD-867020

15 Dec 69

**TRANSMITTER RANGE TESTS**

Describes a system for evaluating tactical radio transmitter range. Discusses preoperational requirements for initial inspection, component identity, instrumentation, facilities, and equipment. Provides procedures for performance test and the collection of data to include antenna orientation, test frequency, RF power, modulation, test signal characteristics, path and site designation, carrier frequency, RF signal strength, RF noise level, demodulated test signal, and meteorological data. Applies to radio transmitters in the line-of-sight category. Not applicable to airborne, special ground-to-air transmitters or radar transmitters, or radar transmitters and transmitters used in skywave and scatter modes of operation.

6-2-516

AD-721891

26 Dec 67

**ADEQUACY OF SHELTER AND VAN-MOUNTED LIGHTING, VENTILATION, AIR-CONDITIONING, AND HEATING EQUIPMENT**

Prescribes a method for evaluating electronic van and shelter lighting, ventilation, air-conditioning, and heating characteristics. Provides procedures for test preparation, general lighting, supplementary lighting, reflectance and brightness, shadow, brightness contrast, natural lighting, blackout, outlet air velocity, air movement, air exhaust, heating and air-conditioning, temperature, humidity, stratification, physical characteristics, noise, and low-temperature (-65°F) and high-temperature (+120°F) tests.

6-2-517

AD-718634

1 May 67

**FREQUENCY ACCURACY AND STABILITY**

Describes a system for evaluating frequency. Provides procedures for preparation of test item, equipment calibration, standard test frequencies, item modulation, item termination, interference measurement, selection of measurement techniques, deviation from desired channel setting, frequency accuracy and reproducibility, and carrier frequency stability. Appendixes discuss measurement techniques to include direct reading, heterodyne, heterodyne/gating, direct interpolation, and oscillographic lissajous figure methods. Applies to frequencies from 14KHz to 12,000 MHz. Excludes environmental testing.

6-2-521

AD-876257

6 Aug 70

## ENGINEERING INTELLIGIBILITY TESTING OF VOICE COMMUNICATION EQUIPMENT

Provides general guidance for determining the intelligibility characteristics of voice communication equipment. Covers multiple-choice scoring and automatic testing methods. Appendixes describe the listener facility and voice intelligibility analysis system. Appendix also provides a representative phonetically balanced wordlist.

6-2-535

AD-867176

7 Nov 69

## FUNGUS TEST

Provides general guidance for determining the resistance of communication, surveillance, and avionic electronic equipment to fungi and adverse effects on such equipment caused by exposure to fungal micro-organisms. Procedures involve inoculating the test item with selected fungi spores and placing the item in a controlled environment for a specified incubation period. Appendixes discuss fungi and test sequence. Limited to testing within test chamber facilities.

6-2-540

AD-866904

30 Dec 69

## VIBRATION TESTS

Outlines procedures for determining the adverse effects of service use vibration on communication, surveillance, and avionic electronic equipment. Specific tests include resonance search, resonance dwell, sinusoidal cycling, random vibration, vehicular bounce, and loose cargo bounce. Appendixes discuss vibration testing, vibration machines, and test sequence. Limited to vibration testing under ambient conditions. Excludes vibration tests for shipboard and amphibious equipment.

6-2-541

AD-866662

15 Dec 69

## SHOCK TESTS

Provides general guidance for determining the adverse effects of mechanical shock environments on communication, surveillance, and avionic electronic equipment. Specific subtests include basic design, transient drop, crash safety, high intensity shock, and bench handling. Appendixes discuss test sequence, shock machines, and measurement systems. Limited to mechanical shock environmental testing using a shock machine, quick release hook, and pendulum tester.

6-2-542

AD-775446

1 Feb 74

## ELECTROMAGNETIC INTERFERENCE TESTS FOR ELECTRONIC EQUIPMENT

Prescribes procedures and techniques for measuring frequencies and amplitudes of the electromagnetic interference characteristics (emission, compatibility, and susceptibility) of electronic and electromechanical equipment, systems, and subsystems. Discusses selection of a testing chamber, sources of error due to chamber wall reflections, and techniques for error reduction. Provides definitions of terminology. Not applicable to vehicles and electrical subsystems nor noncommunications-electronic equipment.

6-2-543

AD-B041697

Mar 79

## IDENTIFICATION FRIEND OR FOE (IFF) SYSTEMS PERFORMANCE

Describes the methods of obtaining the overall IFF system performance when the components are connected in a closed loop configuration (technical performance under engineering, bench test conditions) and under normal operational configuration using an aircraft test bed. In the system test, the data base is accumulated at various ranges, aspects, and weather conditions and in an actual radiated environment. The data base yields friend rejection and enemy acceptance probabilities. Exercises all components of the IFF system.

6-2-544

AD-A088149

11 Jul 80

## RADIO RECEIVER SENSITIVITY (NONPULSED)

Describes the engineering test method and techniques for evaluating the sensitivity performance of nonpulsed receivers and other devices. Provides empirical determinations of sensitivity, gain and noise limited, 12 dB SINAD, and quieting and squelch sensitivity. The evaluation is related to criteria expressed in ROC and MN requirements. These procedures were developed from NBSIR 73-333 modified for receivers up to 400 MHz.

6-2-545

AD-A086463

12 May 80

## RADIO RECEIVER, SPURIOUS RESPONSE

Determines and measures the spurious responses of AM/FM radio receivers by using commonly available test instrumentation. Generally applies to all receivers, including image, intermediate frequency (IF) feed-through, local oscillator related, and extraneously produced spurious responses. Spurious responses are signals propagated at frequencies outside the tuned principal response frequency to which the receiver responds with measurable output power. They reveal frequencies where the receiver is most susceptible to undesired signals (jamming).

6-2-550

AD-A088519

11 Jul 80

RADIAC DOSIMETER CALIBRATION ACCURACY

Standardizes methods to determine the accuracy of dosimeters over the range of 80 KEV to 3 MEV (to be conducted within a secure area of maximum radiation rate 2 milliroentgens per hour). Calibration is scored against US Army secondary standards. Developed for field or tactical type meters.

6-2-551

AD-A092271

29 Oct 80

RADIAC RATEMETER CALIBRATION ACCURACY

Standardizes methods of determining the calibration accuracy of ratemeters over the range of 80 KEV to 3 MEV (to be conducted within a secure enclosure or building where radiation is reduced to a rate less than 2 milliroentgens per hour). Calibration is scored against US Army secondary standards. The procedure is used for/with tactical ratemeters.

6-2-552

AD-A082639

28 Mar 80

GAMMA RAY SOURCE CALIBRATION

Provides techniques to perform periodic calibration of gamma ray sources used as secondary standards. The personnel must be trained and experienced in Radiac calibration equipment, so the procedures are not step-by-step but are planned to be interpreted by the operator in each instance.

6-2-553

AD-B053045

2 Sep 80

CAMOUFLAGE, ATTENUATION, FIELD (RADAR)

Standardizes methods for determining the attenuation properties of various types of radar camouflage materiel using ground surveillance radars (GSR).

6-2-554

AD-B053046

19 Sep 80

CAMOUFLAGE, ATTENUATION, LAB (RADAR)

Standardizes methods for determining the attenuation properties of radar camouflage using laboratory facilities.

6-2-555

AD-A069335

28 Feb 79

RADAR RECEIVER BANDWIDTH

Provides a method of measuring bandwidth by the swept-frequency technique in a Government or contractor's laboratory on any type of radar (i.e., fixed, mobile, airborne, or portable). Useful for fixed frequency or tunable radar and shows the quality of the frequency response.

6-2-558

AD-A055798

20 Apr 78

## RF POWER OUTPUT (AM, FM, SSB), NONPULSED

Provides methodology and procedures for determining nonpulsed, radio frequency output power. Procedures are adaptable to any power level and can be used in shielded enclosures or in the field and adapted to arctic, desert, temperate, or tropic zones. Delineates instrumentation, data collection, and analysis.

6-2-559

AD-A056647

10 Apr 78

## ELECTROMAGNETIC RADIATION ANALYSIS

Provides methodology for determining if electromagnetic radiation of sufficient strength to cause performance degradation to the test item exists at the test item location. Uses the results of an electromagnetic radiation effects test to identify the radio frequencies and electromagnetic radiation levels to which the test item is susceptible. Further, using a test bed, comparisons are made with the representative signal levels to determine if the levels at which the test item suffers performance degradation would occur in the field. Develops signal transmission characteristics for each radiation source to provide recommended minimum separation criteria.

6-2-560

AD-A078944

12 Oct 79

## COMPATIBILITY, ELECTROMAGNETIC

Provides methods for determining the electromagnetic compatibility of communications-electronics (C-E) equipment. Describes procedures to determine if C-E equipment and systems incorporate the best available technology for securing freedom from interference and if concepts for their use assure mutual compatibility with the resultant electromagnetic environment.

6-2-561

AD-A086440

29 Feb 80

## DOSIMETER DIRECTIONAL DEPENDENCE, RADIAC

Provides a method for determining the directional dependence characteristics of direct-reading dosimeters. The dosimeter is oriented in various positions and angles with reference to a calibrated radiation source, thus providing data for evaluating the directional accuracy.

6-2-562

AD-A092235

19 Nov 80

## RATEMETER DIRECTIONAL DEPENDENCE, RADIAC

Provides a standard method for performing radiac ratemeter directional dependence tests to determine the ratemeter response to radiation emanating from different directions relative to the test item.

TECOM Pam 310-4

6-2-563

AD-A090591

29 Aug 80

#### RADIAC DOSIMETER LEAKAGE TEST

Provides standard methods for performing leakage test of direct-reading tactical dosimeters of the sealed or pump-down types. The procedure is designed for normal ambient conditions but can be used in other environments with the necessary precautions.

6-3-013

AD-A095680

11 Feb 81

#### TESTING AIRCRAFT INSTRUMENTS

Presents information and procedures for testing aircraft flight and systems performance instruments in the functional environment of the designated aircraft.

6-3-025

AD-A092825

31 Jul 80

#### FUNCTIONAL TESTING, COMMUNICATION EQUIPMENT (AVIONICS)

Provides guidance and procedures for performance testing airborne communication equipment. Addresses communication range, transmission pattern, homing, retransmission (effects of atmospheric conditions), and durability. Provides general information and guidance in test preparation, test controls, test conduct, and data reduction.

6-3-026

AD-872670

22 May 70  
Cl, 28 Feb 73

#### PROXIMITY WARNING DEVICES

Describes test methods and techniques for evaluating the performance and characteristics of proximity warning devices for Army aircraft and for determining their suitability for service use by the Army. The evaluation is related to criteria expressed in applicable qualitative materiel requirements (QMR), small development requirements (SDR), technical characteristics (TC), or other appropriate design requirements and specifications.

6-3-027

AD-718785

14 Dec 70

#### ACOUSTICAL (GUN) FIRE-DETECTION SYSTEMS

Provides guidance for evaluating acoustical fire-detection systems. Applies to aircraft systems which detect ground weapon fire using an acoustical detection system and provide warning to aircraft crews. Specific tests cover inspection, installation, maintenance, compatibility, draft technical manuals, safety, personnel and training requirements, and human factors.

6-3-028

AD-871552

7 May 70

## VOICE WARNING SYSTEMS

Provides procedures for evaluating voice warning systems installed on Army aircraft. Specific tests cover preparation for test, operation and performance, maintenance, compatibility, draft technical manuals, safety, and human factors evaluation.

6-3-037

AD-720569

14 Jan 71  
Cl, 13 Jul 73

## TARGET DETECTION AND ACQUISITION DEVICES

Provides general guidance for evaluating airborne target detection and acquisition systems including systems using low light television cameras, microwave detection, and infrared detection. Specific tests cover inspection, installation, operation and performance, durability, maintainability, reliability, maintenance evaluation, compatibility, safety, personnel and training requirements, and human factors. Describes procedures for evaluating airborne target detection and acquisition systems.

6-3-052

AD-718578

14 Mar 69

## COUNTERMEASURES EQUIPMENT, NONCOMMUNICATIONS SYSTEMS

Provides procedures for evaluating ECM systems. Applies to airborne and ground-based systems incorporating the primary functions of detection, location, and jamming. Also applies to air and ground-based victim systems classed as radar-type and one-way transmission or reception type. Tests have been designed considering test item and victim system in applicable opposition; different victim systems within the scope of the test item; test item primary functions of detection, location, and jamming; and systems operated in simulated tactical situations by appropriate military personnel. Specific tests include physical characteristics, durability, operational test, qualitative electromagnetic interference, transportability, adverse conditions, maintenance, reliability, safety, human factors, emplacement and displacement, personnel training requirements, and adequacy of instruction manuals.

6-3-060

AD-872272

25 Mar 70

## DATA PROCESSING EQUIPMENT

Provides procedures for evaluating data processing equipment used in tactical data processing systems. Specific tests cover operational characteristics, qualitative electromagnetic interference, physical characteristics, durability, transportability, adverse conditions, maintenance, safety, human factors, emplacement and displacement, personnel training requirements, and adequacy of instruction manuals. Excludes procedures for determining test item design flexibility and evolutionary capability.

6-3-061

AD-871131

25 Mar 70

## COMPUTER, ANALOG

Provides procedures for evaluating tactical electronic analog computers designed for solving specific mathematical problems in artillery and navigation information or control systems. Specific tests include checkout routines, system tests, subsystem tests, qualitative electromagnetic interference, physical characteristics, durability, transportability, adverse conditions, maintenance, safety, human factors, emplacement and displacement, personnel training requirements, and adequacy of instruction equipment. Excludes testing of any equipment which interfaces the computer system.

6-3-062

AD-868079

11 Feb 70

## COMPUTERS, DIGITAL

Describes procedures for evaluating tactical digital computer systems. Specific tests cover operational characteristics, qualitative electromagnetic interference, physical characteristics, durability, transportability, adverse conditions, maintenance, safety, human factors, emplacement and displacement, personnel training requirements, and adequacy of training manuals.

6-3-070

AD-718652

24 Mar 69

## DIRECTION FINDER SET, RADIO

Provides procedures for evaluating the performance of radio direction finder sets. Specific tests include installation space requirements; operational characteristics; reliability; adequacy of vehicle, van, or shelter; and maintainability. Excludes testing of larger direction finder systems to provide intercept reception, spectrum analysis, communications reception, and telephone communications.

6-3-090

AD-719675

7 Jan 71  
Cl, 13 Jul 73

## FLIGHT LINE ANALYZERS

Describes procedures for determining the suitability of flight line analyzers for testing aircraft systems. Tests include initial inspection, installation characteristics, electrical power requirements, compatibility with related equipment, operational tests, qualitative electromagnetic interference, durability, maintainability, reliability, maintenance evaluation, safety, human factors, and personnel training requirements. Maintenance of complex aircraft systems requires the ability to determine the completion of systems on the flight line. Defines procedures for field testing analyzers used in testing systems and fault isolating components.



6-3-105

AD-868558

11 Feb 70

## GROUND STATION, GEODETIC, RADIO RANGING

Provides procedures for evaluating the radio ranging geodetic ground station portion of geodetic survey systems. Specific tests include operational tests, qualitative electromagnetic interference, physical characteristics, durability, transportability, adverse conditions, maintenance, safety, human factors, emplacement and displacement, personnel training requirements, and adequacy of instruction manuals.

6-3-120

AD-875679

22 Jul 70  
C1, 28 Feb 73

## HEADING REFERENCE SYSTEMS

Describes procedures for evaluating aircraft heading reference systems. Specific tests include preparation for testing, operational tests, maintenance, compatibility, draft technical manuals, safety, human factors evaluation, and personnel training requirements. Describes test methods and techniques for evaluating the performance and characteristics of aircraft heading reference systems (Army aircraft) and for determining the suitability of such items for service use by the Army. The evaluation is related to criteria expressed in applicable qualitative materiel requirements (QMR), small development requirements (SDR), technical characteristics (TC), or other appropriate design requirements and specifications.

6-3-121

AD-727789

10 Jun 71

## AUTO PILOT

Provides a method for evaluating auto pilot performance characteristics. Describes procedures for test preparation, initial inspection, electrical power requirements, operational performance, durability, effects of weather, maintenance evaluation, maintainability, reliability, achieved availability, safety, human factors, operator training, and compatibility with related equipment. Applies to fixed and rotary wing aircraft.

6-3-126

AD-723028

19 Mar 71

## AIRBORNE TRANSPONDERS (IFF/AIR TRAFFIC CONTROL)

Describes test methods for evaluating airborne transponders operated in conjunction with air traffic control facilities. Specific procedures include initial inspection, installation characteristics, electrical power requirements, operational performance, compatibility with related equipment, electromagnetic interference, durability, effects of weather, maintenance evaluation, reliability, achieved availability, safety, human factors, and personnel training requirements. Excludes testing of interrogation and auxiliary equipment installed at the air traffic facility.

6-3-166

AD-720552

14 Jan 71

## LASER SYSTEMS, AIRBORNE

Describes procedures for evaluating laser systems installed in aircraft. Discusses terrain mapping, rangefinding, communication, and fire control. Tests cover inspection, installation, operational tests, maintenance, compatibility, draft technical manuals, safety, human factors, and personnel training requirements.

6-3-205

AD-A097115

3 Mar 81

## FUNCTIONAL TESTING, AIRBORNE NAVIGATION EQUIPMENT

Provides guidance and procedures for performance testing airborne navigation equipment. Addresses flight planning, range test, rotor modulation, accuracy, and influence of weather. Provides general information and guidance in test preparation, test controls, test conduct, and data reduction.

6-3-223

AD-876131

9 Sep 70

## RADAR, WEATHER

Provides a method for evaluating aircraft weather radar. Describes pre-operational requirements for initial inspection, inventory of basic issue items, lubrication, physical characteristics, functional check, facilities, and equipment. Provides procedures for operations, performance, effects of atmospheric conditions, durability, maintainability, reliability, draft technical manuals, safety, human factors, and personnel training requirements. Appendixes discuss reliability calculations.

6-3-295

AD-877648

21 Oct 70

## TERRAIN AVOIDANCE EQUIPMENT

Discusses a method for evaluating terrain avoidance equipment. Provides procedures for initial inspection, physical characteristics, technical characteristics, installation, operation, performance, maintenance, compatibility, technical manuals, safety, human factors, and personnel training tests. Applies to aircraft systems which obtain and display location, size, etc., of terrain and manmade obstructions protruding into the flight path during low-level flight.

6-3-329

AD-719518

7 Aug 69

## REELING MACHINES

Discusses a system for evaluating reeling machines. Provides procedures for test preparation, prefield laying, field laying, postfield laying, field recovery, and postfield recovery tests. Applies to surface laying and recovery of field wire and cable in a tactical environment.

6-3-335

AD-720567

15 Jan 71

**AERIAL RADIOLOGICAL DETECTION EQUIPMENT (AIR)**

Describes a system for evaluating radiological detection equipment. Provides procedures for project planning, required equipment, facilities, personnel training, initial inspection, installation, flight adaptability, operational characteristics, durability, maintenance, safety, and human factors tests. Applies to equipment installed in aircraft.

6-3-505

AD-872266

25 Mar 70

**EMPLACEMENT, ACTION AND MARCH ORDER**

Provides guidance for evaluating electronic and communication equipment emplacement, action, and march order capabilities under applicable tactical and environmental conditions. Specific tests cover site selection and preparation, emplacement, preparation for action, and march order.

6-3-527

AD-A095679

30 Nov 80

**TESTING OF SENSOR MATERIEL**

Provides basic procedures for conducting tests of vehicle and personnel intrusion detectors (sensors) and related materiel in any environment. Applies to testing all types of tactical, unattended ground sensors which work on the principles of detection of an outside stimulus, logic processing of that stimulus, and transmission of a coded signal to a readout device. Includes sensors which operate on magnetic, seismic, acoustic, electromagnetic, and audio detection principles. Describes methods for determining the operational effectiveness of sensors to include false alarm rate (susceptibility to undesired sources), detection range and a probability of detection, probability of correct classification, and mission length data. Also considers survivability of air-delivered or artillery-delivered sensors. Evaluations of readout devices are limited to probability of reception, transmission, and display of sensor messages. References common procedures such as preoperational inspection, physical characteristics, human factors, and camouflage and concealment.

6-4-001

AD-867319

12 Nov 69

**DESERT (FIELD) ENVIRONMENTAL TESTING OF COMMUNICATION, SURVEILLANCE, AND AVIONIC ELECTRONIC EQUIPMENT**

Provides a method for evaluating electronic equipment performance characteristics. Describes procedures for test preparation, initial inspection, exposure, system performance/capability, security from detection, maintenance, human factors, and safety tests. Applies to field tests in a desert environment. Excludes simulated environments.

6-4-003

AD-720577

4 Jan 71

## COMMUNICATION, SURVEILLANCE, AND AVIONIC ELECTRONIC EQUIPMENT

Prescribes a method for evaluating communication, surveillance, and avionic electrical equipment under tropical environmental conditions. Discusses project planning, facilities, documentation, calibration, equipment required, personnel training, and mission scenario. Provides procedures for initial inspection, operational characteristics, short-term storage, surveillance, maintenance, safety, human factors, security from detection, and value analysis. Applies to field testing. Excludes simulated environments.

6-4-004

AD-876133

28 Jul 70

## ARCTIC ENVIRONMENTAL TEST OF TACTICAL RADIO COMMUNICATIONS EQUIPMENT

Describes a system for evaluating tactical radio communications equipment. Provides procedures for preoperational inspection, physical characteristics, arctic mounting, vehicle winterization kit adequacy, short-range communications, frequency stability, continuous operations, compatibility, remote operations, mobile and man-pack operations, reaction time, accessories, battery power supplies, human factors, safety, maintenance, and reliability. Not applicable to aircraft systems.

6-4-005

AD-368940

10 Mar 70

## ARCTIC ENVIRONMENTAL TEST OF SURVEY, SURVEILLANCE, AND TARGET ACQUISITION SYSTEMS

Provides a method for evaluating survey, surveillance, and target acquisition systems. Describes procedures for preoperational inspection, physical characteristics, accuracy, range capability, compatibility, vulnerability to detection, power supplies, human factors, safety, transportation maintenance, and post-test inspection. Applies to arctic environmental conditions.

6-4-006

AD-873565

5 Jun 70

## ARCTIC ENVIRONMENTAL TEST OF TACTICAL WIRE COMMUNICATIONS EQUIPMENT

Describes a system for evaluating tactical wire communications equipment physical characteristics. Provides procedures for preoperational inspection, physical characteristics, functional suitability, durability, compatibility, human factors, safety, and maintenance evaluation tests. Applies to field wire, telephones, switchboards, teletypewriters, reels, cables, crypto equipment, and related equipment.

7-1-004

AD-872273

3 Jun 70  
Cl, 14 Mar 74

## ARMY AIRCRAFT ARMAMENT

Provides background information relative to testing aircraft armament. Discusses facilities, equipment, and test planning. Identifies potentially applicable TOP's. Describes typical weapons, ammunition, fire control systems, and characteristic data sheets. Provides a checklist of special considerations for weapon subsystem - aircraft compatibility evaluation. Discusses safety evaluation and environmental test requirements. Applies to Army helicopter armament subsystems.

7-1-005

AD-759148

2 Oct 72

## DESERT ENVIRONMENTAL TESTING OF AIRCRAFT ARMAMENT

Describes a method for evaluating aircraft armament operational and functional performance characteristics. Discusses preparation for test, facilities, and equipment required. Provides procedures for exposure, performance, maintenance evaluation, human factors, and safety tests.

7-1-006

AD-A070758

1 Jun 79

## ARMY AIRCRAFT FIRE CONTROL SYSTEMS PERFORMANCE EVALUATION

Provides an overview of the testing required for evaluating the performance or effectiveness of modern Army aircraft weapon systems. Provides a chart of test inputs to an aircraft armament system effectiveness evaluation. Presents in detail test and analysis procedures for accuracy and dispersion inputs.

7-2-009

AD-737177

15 Jan 72

## AIRCRAFT ROCKET SUBSYSTEMS

Describes a method for evaluating air-to-ground rocket subsystem performance characteristics. Provides procedures for test preparation, physical characteristics, safety evaluation, high temperature (+145°F), low temperature (-50°F), sand, dust, humidity, salt spray, fungus, rain, freezing rain, vibration, static loading, firing tests, durability, accuracy, and dispersion.

7-2-011

AD-731189

1 Sep 71

## AIRCRAFT GUIDED-MISSILE SUBSYSTEMS

Describes a method for evaluating aircraft guided-missile system performance characteristics. Provides procedures for test preparation, physical characteristics, safety, firing system operating characteristics, environmental effects, operational vibration, static loading, warhead effectiveness, noise, blast, toxic gas, electronic counter countermeasures, radiation hazards, radio frequency interference, ground firing, airborne firing, tracking, maintenance, human factors, reliability, and insurance.

TECOM Pam 310-4

7-2-013

AD-726910

8 Jun 71

#### AIRCRAFT MINE AND MUNITION DISPENSING SUBSYSTEMS

Provides a method for evaluating helicopter mine and munition dispensing subsystems relative to suitability for service use. Describes procedures for test preparation, safety, supplementary shock, vibration, environmental effects, performance, bullet impact and vulnerability, reliability, human factors, and maintenance. Discusses data reduction and presentation to include a safety configuration. Limited to general testing of mine and munition dispensing subsystems.

7-2-040

AD-871331

25 Mar 70

#### DRONE AIRCRAFT

Provides a method for evaluating drone aircraft performance characteristics. Describes procedures for prelaunch checkout routines and system tests to include flight performance characteristics, compatibility, and performance of subsystems and components (airframe, propulsion, flight control). Excludes individual component, command guidance link, ground control and support system, and drone payload testing.

7-2-041

AD-871332

25 Mar 70

#### DRONE GUIDANCE, CONTROL, TRACKING, AND PLOTTING COMPONENTS

Describes a system for evaluating drone guidance, control, tracking, and plotting components. Provides procedures for components, laboratory performance, flight performance, and compatibility tests. Excludes testing of the drone aircraft or the intended drone payload.

7-2-050

AD-867036

4 Dec 69

#### FIRE-DETECTING SYSTEMS, AIRCRAFT

Provides a method for evaluating aircraft fire-detection systems. Includes procedures for preparation for test, false alarms, electrical evaluation, environmental evaluation, performance tests, transportability, safety, human factors, value analysis, maintenance evaluation, and quality assurance. Limited to fire-detecting systems using continuous strip sensing elements.

7-2-055

AD-723036

12 Mar 71

## GROUND SUPPORT SERVICE EQUIPMENT (AVIATION)

Provides a system for evaluating aviation ground support service equipment and associated accessories performance characteristics. Describes procedures for preparation for test, ground blower heater performance, portable ground support air compressor, auxiliary power, tilted position operations, endurance, self-propelled equipment mobility, towed or manually propelled equipment, broadband radio interference, vibration shock, climatic extremes, intermediate climatic, transportability, maintenance, reliability, safety, human factors, value analysis, and quality assurance tests.

7-2-056

AD-719100

10 Apr 67

## SHELTERS - TENTS (AVIATION)

Describes a method for evaluating aviation maintenance test shelters. Provides procedures for erection, moving, striking, structural stability, blackout, illumination, heating, water resistance, durability, environmental maintainability, reliability, transportability, human factors, and safety evaluation tests. Applies to nose-in wall and air-inflated tents. Excludes testing for special characteristics such as sound level, ventilation, etc.

7-2-057

AD-726893

1 Jul 71

## TOOL SETS, AVIATION

Describes a method for evaluating aviation tool performance characteristics. Provides procedures for test preparation, linear measuring tools, torsional moment, bending moment, compression, shear stresses, climatic effects, endurance, transportability, maintenance, reliability, safety, human factors, value analysis, and quality assurance. Applies to handtools.

7-2-065

AD-871345

2 Apr 70

## LIGHTS, RUNWAY

Provides a system for evaluating runway light performance including airport approach lights, beacons, boundary lights, code beacons, course lights, contact lights, identification lights, obstruction lights, range lights, signal and special lights, and traffic control lights. Describes procedures for preparation for test, electrical performance, lamp color temperature, chromatics, beam characteristics, environmental, durability, transportability, maintenance, electromagnetic interference, safety, human factors evaluation, value analysis, and quality assurance tests.

7-2-070

AD-721606

22 Nov 67

## MAT SETS, LANDING

Describes a method for evaluating landing mat sets and associated equipment performance characteristics. Describes procedures for arrival inspection, safety test, physical characteristics, durability, skid resistance, tire wear, topographical data, soil strength, installation, trafficability, wheel load, mat deflection, maintenance, human factors, environmental, and value analysis tests. Appendix describes the California Bearing Ratio Method for soil strength measurement.

7-2-085

AD-871335

19 May 70

## HELMETS (AVIATION)

Provides a system for evaluating aviation helmets. Describes procedures for preparation for test, helmet shell performance, visor performance, helmet communications and attenuation, environmental effects, transportability, maintenance, safety, human factors, value analysis, and quality assurance tests.

7-2-086

AD-725540

17 May 71

## OXYGEN AND PROTECTIVE MASKS (AVIATION)

Describes a method for evaluating aviation oxygen and protective mask performance characteristics. Provides procedures for test preparation, leakage, inspiratory and expiratory resistance, subjective evaluation, environmental effects, durability, transportability, maintenance, reliability, safety, human factors, value analysis, and quality assurance.

7-2-087

AD-723030

19 Mar 71

## CLOTHING (AVIATION)

Describes a method for evaluating aviation clothing such as flying coveralls, flying suits, and flight clothing accessories (gloves, scarves, socks, etc.). Provides procedures for test preparation, sizing, fitting, donning, doffing, compatibility with associated aviation clothing and personal equipment, water/POL repellency, cleaning, anti-exposure, CBR protection, resistance to static electricity, endurance, fungus resistance, maintenance, sunshine, reliability, transportability, safety, human factors, value analysis, and quality assurance tests.



7-2-090

AD-725541

10 May 71

## RESCUE EQUIPMENT, PERSONNEL AIRCRAFT CRASH

Describes a method for evaluating aircraft crash rescue equipment performance characteristics. Provides procedures for test preparation, performance characteristics, environmental effects, durability, transportability, maintenance, reliability, safety, human factors, value analysis, and quality assurance. Applies to protective clothing, rescue tools and implements, fire-fighting arresting apparatus, and rescue systems.

7-2-095

AD-868623

26 Nov 69

## SURVIVAL EQUIPMENT (AVIATION)

Provides a system for evaluating aviation survival equipment. Describes procedures for preparation for test, performance characteristics, storage in aircraft, environmental, transportability, maintenance, safety, human factors, and value analysis tests.

7-2-100

AD-745992

20 Apr 72

## TIEDOWN, CARGO, AIRCRAFT

Describes a method for evaluating aircraft cargo tiedown device performance characteristics. Provides procedures for test preparation, initial inspection, performance, durability, reliability, maintenance, safety, and human factors. Applies to conventional tiedown devices. Not applicable to aircraft and platform tiedown provisions or equipment suitability for tiedown.

7-2-105

AD-868557

26 Nov 69

## TRACTOR, WHEELED, AIRCRAFT, TOWING

Describes a method for evaluating wheeled aircraft towing tractors. Provides procedures for preparation for test, clutch pedal, steering wheel, brakes, electrical system, cooling system, exhaust system, power trains, drawbar pull, acceleration, speed, fuel consumption, turning radius, gradeability, side slope, fording, mobility, durability, broadband radio interference, magnetic permeability property, transportability, maintenance, safety, human factors, and value analysis tests.

## AIRDROP SYSTEMS SAFETY

Describes a method for evaluating airdrop equipment safety characteristics. Provides procedures for test preparation, initial inspection, preparation of questionnaires, mechanical hazards, electrical hazards, personnel safeguards, and safety measures required on drop zone (land and water). Appendixes describe permanently installed airdrop equipment, identify the levels of safety hazards, and provide an example questionnaire. Applies to airdrop equipment (restraining, extraction, retardation, and ground impact) for rotary and fixed wing aircraft in the delivery of general materials, excluding toxic or hazardous items.

## AIRDROP

Describes the engineering procedures required to evaluate the ability of materiel to withstand airdrop operations in accordance with design requirements. Includes automotive equipment (and components), weapons, inert ammunition, missile support equipment, electronic equipment, and various items of quartermaster materiel. Excludes rockets and missiles, and toxic, explosive, and hazardous items.

## AIRDROP SYSTEM COMPONENTS

Describes a method for evaluating airdrop system component performance characteristics. Provides procedures for test preparation, initial inspection, performance, durability, reliability, maintenance, safety, human factors, and value analysis. Applies to conventional airdrop system components associated with the extraction, deployment, retardation, and impact phases. Excludes rotating decelerators, radar release activation devices, paragliders, and similar unconventional components.

## AIRCRAFT MILITARY UTILITY AND FUNCTIONAL TESTS

Identifies testing methods and techniques necessary to determine the degree to which Army fixed wing and rotary wing aircraft meet the functions and performance requirements stated in the requirements documents. Procedures cover testing relating to the weight and balance, ground handling, aircraft configuration, system configuration, aircraft performance, and operational characteristics and compatibility with related equipment.

7-2-512

AD-A063879

3 Nov 78

## SIMULATED AIRDROP TEST - WEAPONS AND INDIVIDUAL EQUIPMENT

Provides a method of determining if weapons and individual equipment (when rigged in common or special purpose containers) jumped by individual parachutists are capable of functioning as intended after landing on the drop zone. Limited to items released on a lowering line before landing.

7-3-015

AD-870552

7 Apr 70

## AIRCRAFT ARMAMENT

Provides a method for evaluating aircraft armament subsystems. Describes procedures for preparation for test, armed mission performance, compatibility, gun/launcher performance, rocket and guided-missile launcher performance, dropped munitions performance, night operations, operational dependability, maintainability, reliability, system safety, and value analysis tests. Applies to automatic weapons, aerial rockets, antitank missiles, and associated equipment.

7-3-016

AD-729602

1 Aug 71

## AIRCRAFT FIRE CONTROL SYSTEM

Describes a method for evaluating aircraft fire control system performance characteristics. Provides procedures for test preparation, initial inspection, installation characteristics, electrical power requirements, operational performance, compatibility with related equipment, durability, weather effects, maintenance, maintainability, reliability, achieved availability, safety, human factors, and operator training. Not applicable to weapon, projectile, launcher, or supporting structure used in conjunction with aircraft fire control systems.

7-3-050

AD-870450

17 Apr 70

## FIRE-DETECTION SYSTEMS, AIRCRAFT

Provides a method for evaluating aircraft fire-detection systems. Describes procedures for preparation for test, operation and performance, maintenance, compatibility, draft technical manuals, safety, and human factors evaluation. Limited to linear strip sensing element devices.

7-3-051

AD-719101

25 Jan 71

## ENVIRONMENTAL CONTROL UNIT (ECU)

Describes a system for evaluating aircraft environmental control units. Provides procedures for initial inspection, installation characteristics, power requirements, operational performance, compatibility, durability, effects of weather, maintenance, reliability, achieved availability, safety, human factors, and personnel training requirements.

7-3-054

AD-726872

1 Jul 71

## AIRCRAFT REFUELING/DEFUELING SYSTEMS

Describes a method for evaluating aircraft refueling/defueling system operational performance characteristics. Provides procedures for test preparation, initial inspection, operational performance, durability, weather effects, maintenance evaluation, maintainability, reliability, achieved availability, safety, human factors, personnel training, and compatibility with related equipment. Excludes aircraft external refueling/defueling equipment associated with the operation.

7-3-055

AD-719102

10 Dec 70

## SERVICING UNITS (AVIATION)

Describes a method for evaluating aviation servicing units. Provides procedures for initial inspection, electrical power requirements, compatibility, operational test, electromagnetic interference, transportability, durability, effects of weather, maintenance, reliability, safety, human factors, and personnel training requirements. Excludes aircraft fuel servicing equipment.

7-3-056

AD-721153

9 Mar 71

## SHELTERS - TENTS (AVIATION)

Provides a system for evaluating aviation shelters and tents. Describes procedures for initial inspection, installation, operational test, transportability, durability, effects of weather, maintenance, safety, human factors, and personnel training requirements. Applies to TATCF and aircraft maintenance shelters and tents.

7-3-057

AD-719103

16 Dec 70

## MAINTENANCE TOOL SETS (AVIATION)

Describes a method for evaluating aviation maintenance tool sets. Provides procedures for durability, reliability, safety, compatibility with aircraft hardware, ease of equipment repair and part removal or replacement, and maintenance effectiveness tests.

7-3-058

AD-734853

1 Nov 71

## BUILT-IN TEST EQUIPMENT

Describes a method for evaluating aircraft built-in test equipment performance characteristics. Provides procedures for inspection, physical characteristics, electrical power requirements, compatibility with related equipment, operational performance, electromagnetic interference, durability, maintenance evaluation, maintainability, reliability, achieved availability, safety, human factors, and personnel training requirements. Excludes aircraft and aircraft component testing.

7-3-059

AD-733283

1 Nov 71

## DIAGNOSTIC AND INSPECTION EQUIPMENT (AIRCRAFT)

Describes a system for evaluating aircraft diagnostic and inspection equipment performance characteristics. Provides procedures for test preparation, initial inspection, electrical power requirements, compatibility with related equipment, operational performance, electromagnetic interference, durability, maintenance evaluation, maintainability, reliability, availability, safety, human factors, and personnel training requirements. Excludes aircraft and aircraft component testing.

7-3-064

AD-721155

26 Feb 71  
Cl, 6 Mar 73

## AIRBORNE SEARCHLIGHTS

Describes a system for evaluating airborne searchlights. Provides procedures for initial inspection, installation, electrical power requirements, operational performance, compatibility with related equipment, electromagnetic interference, durability, effects of weather, maintenance, reliability, achieved availability, safety, human factors, and personnel training requirements tests. Applies to visible and infrared airborne searchlights. Excludes landing searchlights and infrared conversion equipment.

7-3-065

AD-872647

25 Jun 70

## LIGHTS, RUNWAY

Describes a method for evaluating airfield runway lighting systems. Provides procedures for preparation for test, installation, operational performance, durability, maintenance, personnel training requirements, human factors, and safety tests. Applies to tactical forward area airfields.

7-3-066

AD-719104

15 Dec 70

## APPROACH SYSTEMS (TERMINAL AIR TRAFFIC CONTROL FACIL

Describes a system for evaluating TATCF consisting of all or part of the following components: shelter (fixed or mobile), search and precision radar, transponder interrogator, ground-to-air communications, and meteorological equipment. Provides procedures for initial inspection, installation characteristics, operational tests, transportability, durability, adverse conditions, maintenance, safety, human factors, and personnel training requirements. Not applicable to individual components.

7-3-085

AD-724080

26 Apr 71

## HELMETS (AVIATION)

Provides a method for evaluating aviation helmets. Describes procedures for arrival inspection, physical characteristics, donning, removing, protection to the wearer, compatibility with the aviation environment, operation suitability, communications suitability, durability, maintenance, human factors, and safety tests.

7-3-086

AD-719105

25 Jan 71

OXYGEN AND PROTECTIVE MASKS (AVIATION)

Provides a system for evaluating aviation oxygen and protective masks. Describes procedures for inspection, physical characteristics, masking, unmasking, protection to the wearer, compatibility with aviation equipment, operational suitability, communications suitability, comfort, durability, maintainability, reliability, maintenance, human factors, and safety tests. Applies to aviation demand oxygen masks, protective masks, and combination oxygen and protective masks.

7-3-087

AD-719106

23 Dec 70

CLOTHING (AVIATION)

Describes a method for evaluating flight crewmember clothing. Provides procedures for inspection, physical characteristics, donning, doffing, protection to the wearer, compatibility with the aviation environment, appearance, comfort, human factors, durability, and maintainability. Limited to aircraft crewmember clothing.

7-3-090

AD-720563

27 Jan 71

RESCUE EQUIPMENT, AIRCRAFT CRASH

Provides a system for evaluating aircraft rescue equipment. Describes procedures for inspection, physical characteristics, installation requirements, weight and balance, employment techniques, operational performance, maintenance, safety, human factors, and personnel training requirements. Applies to airborne rescue equipment and helicopter-mounted rescue hoists and accessories.

7-3-095

AD-720225

21 Jan 71

SURVIVAL EQUIPMENT (AVIATION)

Provides a method for evaluating aviation survival equipment. Describes procedures for inspection, physical characteristics, compatibility with aircraft crewmember personal equipment, functional suitability, durability, maintenance, human factors, and safety tests. Applies to signaling equipment, survival rations, personnel protective equipment, etc.

7-3-105

AD-870455

17 Apr 70  
Cl, 15 Mar 72

TRACTOR, WHEELED, AIRCRAFT, TOWING

Describes a system for evaluating wheeled aircraft towing tractors. Provides procedures for test preparation, mission conduct, operating controls, steering and turning radius, accessories, and aircraft pushing, towing, mobility, safety, and value analysis. Appendix discusses soil trafficability tests.

7-3-110

AD-723031

4 Mar 71

## TRAINER, FLIGHT SIMULATOR

Provides a method for evaluating flight simulation trainers. Considers the performance of the student pilot, instructor, and the system computer. Describes procedures for initial inspection, installation characteristics, operational tests, durability, reliability, maintenance evaluation, safety, human factors, and personnel training requirements. Appendixes discuss simulator test exercises for fixed and rotary wing aircraft.

7-3-120

AD-729534

1 Aug 71

## STATIC ELECTRICITY DISSIPATER

Describes a method for evaluating static electricity dissipater operational performance characteristics. Provides procedures for test preparation, initial inspection, installation characteristics, electrical power requirements, operational performance, compatibility with related equipment, electromagnetic interference, maintenance, maintainability, reliability, achieved availability, safety, human factors, and operator training. Applies to fixed and rotary wing aircraft static electricity dissipaters.

7-3-500

AD-A053196

27 Nov 77

## PHYSICAL CHARACTERISTICS (AVIATION MATERIEL)

Identifies testing methods and techniques necessary to determine the degree to which Army aviation materiel physical characteristics are determined.

7-3-501

AD-723032

15 Mar 71

## PERSONNEL TRAINING

Provides a method for evaluating aviation materiel personnel training requirements. Describes procedures for aviation materiel inspection, physical characteristics, operational use of the equipment, maintenance, safety, and training program effectiveness. Applies to ground and flight personnel training.

7-3-502

AD-877647

19 Oct 70

## INSTALLATION CHARACTERISTICS (AIRCRAFT ALLIED EQUIPMENT AND SUBSYSTEMS)

Provides a system for evaluating aviation materiel installation characteristics. Describes procedures for acceptance inspection, physical compatibility, post installation alignment, post installation maintenance, removal, tools and equipment requirements, technical publications, personnel training requirements, human factors, and safety.

TECOM Pam 310-4

7-3-503

AD-AO47260

31 Aug 77

ARRIVAL INSPECTION/PREOPERATIONAL INSPECTION (AVIATION MATERIEL)

Describes a method for evaluating test item completeness, conditions, and operability upon receipt for testing. Identifies the facilities and equipment required. Provides procedures for document arrival, receiving, packaging, maintenance test package, item, inventory, safety, and preoperational and technical inspections. Applies to aviation materiel.

7-3-506

AD-AO41021

9 Dec 76

SAFETY (AVIATION MATERIEL)

Identifies existing test methodology and techniques necessary to determine the degree to which aviation materiel meets the safety requirements stated in the requirements documents. Procedures cover the requirements, aircraft armament, airframe, ejection seat, and electronic, mechanical, and miscellaneous hazards relating to Army aircraft. Includes a guide for laser safety for use when lasers are mounted in Army aircraft.

7-3-507

AD-720528

8 Feb 71  
Cl, 15 Mar 74

MAINTENANCE (MAINTAINABILITY/AVAILABILITY)

Provides a system for evaluating aviation system maintainability/availability characteristics. Describes procedures for calculating man-hour to flight-hour ratios, mean time between failure (MTBF), mean time to repair (MTTR), mean active down time ( $\bar{M}$ ), inherent availability ( $A_1$ ), and achieved availability ( $A_a$ ).

7-3-508

AD-AO53400

28 Jul 77

RELIABILITY (AVIATION MATERIEL)

Identifies testing methods and techniques necessary to determine the degree to which Army aviation materiel meets the reliability prescribed in the requirements documents.

7-3-509

AD-AO55595

15 May 78

COMPATIBILITY, RELATED EQUIPMENT (AVIATION MATERIEL)

Establishes procedures to conduct a compatibility test of aviation materiel during development testing to assure that the items being tested meet the compatibility requirements of the Army environment and the explicit compatibility parameters stated in the requirements documents. Includes physical, technical, and operational characteristics; and installation/removal, armament, avionics, personnel materiel, and maintenance. Also includes checklists and data collection forms.



7-3-514

AD-720561

26 Feb 71

## ADEQUACY OF TECHNICAL MANUALS

Describes a method for evaluating technical manuals including technical bulletins and lubrication orders. Provides procedures for initial inspection, technical evaluation, safety, human factors, and personnel training requirements.

7-3-519

AD-A074883

17 Aug 79

## PHOTOGRAPHIC AND VIDEO IMAGE SUPPORT (AVIATION MATERIEL)

Uses photographic techniques to obtain precise data in relation to time velocity and rates and characteristics of a developmental test event or simply to document a physical defect, deficiency, or shortcoming in a human factors evaluation. Provides requirements, suggestions, and techniques for incorporating photographic coverage into the developmental test of aviation materiel.

7-3-521

AD-A074049

31 Aug 79

## CLIMATIC CHAMBER TESTING (AIRCRAFT, ENGINES, ARMAMENT, AND AVIONICS)

Provides information, guidance, and methodology for planning and conducting an environmental climatic chamber developmental test of aviation materiel. Environmental climatic chamber developmental testing, in general, determines the degree to which aviation materiel meets the developmental requirements of the US Army Materiel Needs (MN) documents, when subjected to the environmental conditions developed in the climatic chamber.

7-3-522

AD-A056976

31 May 78

## AIRCRAFT DEFOGGING AND DEFROSTING (TRANSPARENT AREAS)

Provides procedures for testing and evaluating aircraft defogging and defrosting equipment. The test item may be an integral part of the aircraft environmental control system or a separate system designed to operate independently or in conjunction with the aircraft environmental control system. Determines if the test item can prevent or eliminate fogging or frosting of the interior and exterior surfaces of aircraft transparent areas in all aircraft operational modes.

7-3-523

AD-729603

1 Sep 71

## INFRARED SUPPRESSION DEVICES

Describes a method for evaluating infrared suppression device performance characteristics. Provides procedures for test preparation, initial inspection, installation characteristics, power requirements, operational performance, qualitative electromagnetic interference, durability, weather effects, maintenance, maintainability, reliability, achieved availability, compatibility with related equipment, safety, human factors, and operator training. Not applicable to ground and airborne infrared detection sensors.

TECOM Pam 310-4

7-3-524

AD-729851

1 Sep 71

#### RADAR REFLECTIVITY

Describes a method for evaluating aircraft radar reflectivity characteristics. Provides procedures for test planning, required support, operator training, surveillance by ground-based radar, surveillance by airborne radar, and weather effects. Prescribes data collection relative to aircraft altitude, range, bearing, pattern voids, degree of reflectivity, and detection or radar scope.

7-3-526

AD-728454

10 Jun 71

#### INTERNAL/EXTERNAL NOISE

Describes a method for evaluating aircraft and air traffic control facility noise characteristics. Provides procedures for test preparation, operator training, internal and external noise effects, safety, and human factors. Specifies the maximum acceptable noise levels for communications, materiel, and ear protection.

7-3-527

AD-AO68951

18 Oct 78

#### INTERNAL/EXTERNAL LIGHTING (AVIATION MATERIEL)

Prescribes procedures for determining the functional characteristics of an internal/external light or lighting system developed for US Army aircraft.

7-3-528

AD-AO74128

31 Aug 79

#### AIRCRAFT ANTI-ICING/DE-ICING

Provides information, methodology, and techniques necessary to plan, conduct, and document a development test of an aircraft anti-icing/de-icing system. A development test of an aircraft anti-icing/de-icing system will determine the degree to which a subject system and its associated documentation, tools, and auxiliary equipment meet the requirements of the Army Materiel Needs (MN's) documents.

7-4-005

AD-720570

29 Jan 71

#### AVIATION EQUIPMENT AND AIRCRAFT ARMAMENT

Describes a method for evaluating aviation, air delivery equipment, and aircraft armament. Provides procedures for initial inspection, operating characteristics, individual and organizational clothing and equipment, aircraft flight evaluation, aircraft armament, short-term storage, surveillance, security from detection, maintenance, safety, human factors, and value analysis tests. Provides sample scenario for tropic testing. Excludes simulated environmental testing. Limited to field testing in the humid tropics.

7-4-006

AD-867368

26 Nov 69

## ARCTIC ENVIRONMENTAL TEST OF ROTARY WING AIRCRAFT

Provides a system for evaluating rotary wing aircraft performance characteristics. Describes procedures for preoperational inspection, physical characteristics, operational suitability, aircraft heating, defrosting, flight and performance characteristics, compatibility with related equipment, human factors, and maintenance evaluation. Appendixes provide human factors checklists.

7-4-007

AD-866905

26 Nov 69

## ARCTIC ENVIRONMENTAL TEST OF FIXED WING AIRCRAFT

Describes a method for evaluating fixed wing aircraft performance characteristics. Provides procedures for pretest inspection, physical characteristics, operational suitability, aircraft heating, defrosting, flight and performance characteristics, compatibility with related equipment, human factors, and maintenance evaluation. Provides a human factors checklist.

7-4-008

AD-876376

23 Jul 70

## ARCTIC ENVIRONMENTAL TEST OF AVIATION SUPPORT EQUIPMENT

Describes a system for evaluating aviation support equipment performance characteristics. Provides procedures for preoperational inspection, physical characteristics, operational suitability, human factors, safety, maintenance, and reliability. Appendixes provide human factors checklists.

7-4-009

AD-871344

8 May 70

## ARCTIC ENVIRONMENTAL TEST OF AIRDROP PLATFORMS

Describes a method for evaluating airdrop platform performance characteristics. Provides procedures for preoperational inspection, physical characteristics, assembly, rigging, loading, aerial delivery, durability, reusability, human factors, safety, and maintenance evaluation.

7-4-010

AD-721607

5 Dec 69

## ARCTIC ENVIRONMENTAL TEST OF AIRCRAFT ARMAMENT

Provides a system for evaluating aircraft armament subsystems. Describes procedures for preoperational inspection, physical characteristics, functional suitability, human factors, safety, and maintenance evaluation.

7-4-011

AD-719110

29 Jul 69

## ARCTIC ENVIRONMENTAL TEST OF PERSONNEL AND CARGO PARACHUTES

Describes a method for evaluating personnel and cargo parachutes performance characteristics. Provides procedures for preoperational inspection, physical characteristics, packing, rigging, aerial delivery, human factors, and maintenance evaluation.

8-1-001

AD-733296

1 Nov 71

TESTING CHEMICAL, BIOLOGICAL, AND RADIOLOGICAL EQUIPMENT

Provides introductory discussion on testing CBR equipment. Covers categories of CBR equipment and possible problem areas peculiar to CBR equipment testing. Also deals with factors influencing specific test plans such as instrumentation requirements and availability, safety, statistical, and data reduction techniques.

8-2-011

AD-868257

16 Feb 70

FILLING APPARATUSES, CHEMICAL LANDMINE

Provides a method for evaluating chemical landmine filling apparatus physical and technical performance characteristics relative to suitability for service use. Describes procedures for test preparation, receipt inspection, safety, simulated environmental testing, rough handling and surface transport, air portability, airdrop capability, leak testing, operational reliability, decontamination aspects, maintenance characteristics, agent-hardware compatibility, and human factors. Discusses data reduction and presentation including a safety confirmation.

8-2-013

AD-721609

6 Oct 69

SHIPPING CONTAINERS, TOXIC CHEMICAL AGENT

Provides a method for evaluating toxic agent shipping container physical and performance characteristics relative to suitability for service use. Describes procedures for test preparation, receipt inspection, safety, simulated environmental testing, rough handling and surface transport, air portability, airdrop capability, leak testing, agent-container compatibility, radiography, and design evaluation. Discusses data reduction and presentation to include a safety statement.

8-2-014

AD-865922

15 May 69

DISPENSING PUMPS, HAND-DRIVEN, LIQUID CHEMICAL AGENT

Provides a method for evaluating hand-driven dispensing pump physical and performance characteristics. Describes procedures for test preparation, receipt inspection, safety, simulated environmental testing, rough handling and surface transport tests, air portability, airdrop capability, leak testing, operational reliability, decontamination aspects, maintenance aspects, agent-hardware compatibility, and human factors. Discusses data reduction and presentation to include a safety statement.

8-2-061

AD-719114

30 Sep 67

## DECONTAMINATING APPARATUS, PORTABLE

Provides a method for evaluating portable decontaminating apparatus physical and performance characteristics. Describes procedures for test preparation, receipt inspection, safety, simulated environmental testing, rough handling and surface transport, air portability, airdrop capability, leak testing, operational reliability, assembly/disassembly, maintenance aspects, and human factors. Discusses data reduction and presentation to include a safety statement.

8-2-062

AD-720978

6 Oct 69

## DECONTAMINATING APPARATUSES, POWER-DRIVEN, VEHICULAR- OR SKID-MOUNTED

Provides a method for evaluating decontaminating machinery physical and performance characteristics. Describes procedures for test preparation, receipt inspection, safety, simulated environmental testing, rough handling and surface transport, air portability, maintenance aspects, operational reliability, agent-hardware compatibility, auxiliary capability, and human factors. Discusses data reduction and presentation to include a safety statement.

8-2-063

AD-866468

10 Dec 69

## DECONTAMINATING KITS, INDIVIDUAL, FIELD

Provides a method for evaluating small field decontamination kit physical and performance characteristics. Describes procedures for test preparation, receipt inspection, safety, simulated environmental testing, rough handling and surface transport tests, air portability, airdrop capability, operational aspects, and human factors. Discusses data reduction and presentation to include a safety statement.

8-2-064

AD-719115

21 May 69

## RADIAC CALIBRATORS

Provides a method for evaluating radiac calibrator physical and performance characteristics relative to suitability for service use. Describes procedures for test preparation, safety, environmental tests, rough handling, characteristic calibration energy, calibration accuracy, repeatability, and electromagnetic effects. Discusses data reduction and presentation to include a safety statement. Limited to radiac calibrators designed for field use.

8-2-066

AD-719125

31 Jan 68

## ALARMS, BIOLOGICAL

Provides a method for evaluating biological alarm physical and performance characteristics. Describes procedures for test preparation, receipt inspection, safety, simulated environmental testing, rough handling and surface transport, air portability, airdrop capability, decontamination aspects, maintenance, operational characteristics, EMR vulnerability, nuclear effects, and human factors. Discusses data reduction and presentation to include a safety confirmation.

8-2-070

AD-718772

31 Oct 67

## CHEMICAL AGENT DETECTOR KITS

Provides a method for evaluating chemical agent detector kit physical and performance characteristics. Describes procedures for test preparation, receipt inspection, safety evaluation, simulated environmental testing, rough handling and surface transport, air portability, airdrop capability, decontamination aspects, operational characteristics, maintenance aspects, field detection, operational reliability, and human factors. Discusses data reduction and presentation to include a safety statement.

8-2-072

AD-868299

3 Mar 70

## SAMPLING AND ANALYZING KITS, CBR AGENT

Provides a method for evaluating CBR agent sampling and analyzing kit physical and performance characteristics. Describes procedures for test preparation, receipt inspection, safety, simulated environmental tests, rough handling and surface transport tests, air portability, airdrop capability, decontamination aspects, operational characteristics, maintenance aspects, field operability, and human factors. Discusses data reduction and presentation to include a safety statement.

8-2-082

AD-718768

2 Oct 67

## DISPERSERS, RIOT CONTROL AGENT, PORTABLE

Provides a method for evaluating portable riot control agent disperser technical performance and safety aspects. Describes procedures for test preparation, receipt inspection, safety evaluation, simulated environmental tests, rough handling and surface transport, air portability, airdrop capability, decontamination aspects, maintenance, operational reliability, radiography, leak tests, dissemination characteristics, agent/hardware compatibility, and human factors. Discusses data reduction and presentation to include a safety statement. Limited to systems which are man-portable and operator controlled.

8-2-083

AD-71767

31 Jan 69

## DISPERSERS, RIOT CONTROL AGENT, VEHICULAR- OR HELICOPTER-MOUNTED

Provides a method for evaluating vehicular- or helicopter-mounted riot control agent disperser technical performance and safety aspects. Describes procedures for test preparation, receipt inspection, safety, simulated environmental tests, rough handling and surface transport, air portability, airdrop capability tests, decontamination aspects, operational reliability tests, installation and maintenance aspects, leak testing, dissemination characteristics, agent/hardware compatibility tests, and human factors. Discusses data reduction and presentation to include a safety statement. Limited to riot control agent dispersers, vehicular- or helicopter-mounted.

8-2-084

AD-871761

27 Apr 70

## GENERATORS, SMOKE, MECHANICAL

Provides a method for evaluating mechanical smoke generator technical performance and safety aspects relative to suitability for service use. Describes procedures for test preparation, receipt inspection, safety evaluation, simulated environmental tests, rough handling and surface transport, air portability, airdrop capability, leak testing, operational reliability, dissemination characteristics, maintenance, human factors, and electromagnetic radiation (EMR).

8-2-085

AD-720980

25 Aug 69

## SMOKE POTS

Provides a method for evaluating smoke pot technical performance and safety aspects relative to suitability for service use. Describes procedures for test preparation, receipt inspection, safety, simulated environmental tests, rough handling and surface transport, air portability, airdrop capability, dissemination characteristics, leak testing, maintenance, operational reliability, agent/hardware compatibility, and human factors. Discusses data reduction and presentation to include a safety statement.

8-2-092

AD-871762

25 Aug 69

## GRENADES, HAND OR WEAPON LAUNCHED, SMOKE, COLORED, MARKING

Provides a method for evaluating colored smoke grenade technical performance and safety aspects relative to suitability for service use. Describes procedures for test preparation, receipt inspection, safety, simulated environmental tests, rough handling and surface transport, air portability, airdrop capability, radiography, dissemination characteristics, leak testing, maintenance, operational reliability, vulnerability, susceptibility to sympathetic ignition, agent/hardware compatibility, chamber test, and human factors. Discusses data reduction and presentation to include a safety statement. Limited to testing burning-type smoke grenades.

TECOM Pam 310-4

8-2-093

AD-718746

31 Oct 67

#### HANDGRENADES, RIOT CONTROL

Provides a method for evaluating riot control handgrenade technical performance and safety aspects relative to suitability for service use. Describes procedures for test preparation, receipt inspection, safety evaluation, simulated environmental testing, rough handling and surface transport, air portability, airdrop capability, radiography, decontamination aspects, dissemination characteristics, leak tests, operational reliability, vulnerability, susceptibility to sympathetic detonation, agent/hardware compatibility, and maintenance. Discusses data reduction and presentation to include a safety statement.

8-2-110

AD-A091737

Oct 80

#### MASKS, PROTECTIVE

Covers general procedures for determining the technical performance and safety aspects of protective masks relative to the criteria in the applicable required operational capabilities (RCC's) documents, technical characteristics (TC's) documents, and other publications that pertain to the test item. Includes outlines of tests to be conducted to address agent protection, resuscitation, and drinking capabilities and materiel performance under various environmental conditions, and when exposed to rough handling and field contaminants.

8-2-113

AD-868301

1 Jun 69

#### BREATHING APPARATUSES, SELF-CONTAINED AIR/OXYGEN SUPPLY

Provides a method for evaluating self-contained air/oxygen supply breathing apparatus technical performance and safety aspects relative to suitability for service use. Describes procedures for test preparation, receipt inspection, safety evaluation tests, simulated environmental tests, rough handling and surface transport, air portability, airdrop capability, leak tests, operational tests, maintenance, and human factors. Discusses data reduction and presentation to include a safety statement. Limited to tests not usually intended for protection against chemical, biological, or radiological (CBR) agents.

8-2-114

AD-868303

1 May 69

#### RESPIRATORS

Provides a method for evaluating respirator technical performance and safety aspects. Describes procedures for test preparation, receipt inspection, safety, simulated environmental tests, rough handling and surface transport, air transport, leak tests, operational characteristics, maintenance, efficiency and reliability, and human factors. Discusses data reduction and presentation to include a safety statement. Limited to tests not intended for protective masks used to protect against CBR agents.



8-2-121

AD-718736

31 Oct 67

## LANDMINES, CHEMICAL

Provides a method for evaluating chemical landmine technical performance and safety aspects. Describes procedures for test preparation, receipt inspection, safety evaluation, simulated environmental tests, rough handling and surface transport, air portability, airdrop capability, radiography, leak tests, operational reliability, dissemination characteristics, prolonged burial, agent/hardware compatibility, decontamination, vulnerability to small arms fire, susceptibility to sympathetic detonation, nuclear effects, EMR vulnerability, maintenance, and human factors. Discusses data reduction and presentation to include a safety statement.

8-2-136

AD-567049

25 Nov 69

## IMPREGNATING SETS, CLOTHING, FIELD

Provides a method for evaluating clothing impregnating set technical performance. Describes procedures for test preparation, receipt inspection, safety, simulated environmental testing, rough handling and surface transport, air portability, airdrop capability, operational effectiveness tests, and human factors. Discusses data reduction and presentation to include a safety statement. Limited to evaluation of impregnating agents, not the auxiliary equipment used for impregnation.

8-2-162

AD-718740

17 Feb 68

## WARHEADS, ROCKET, CHEMICAL AGENT

Provides a method for evaluating chemical agent rocket warhead technical performance and safety aspects. Describes procedures for test preparation, receipt inspection, safety, simulated environmental tests, rough handling and surface transport, air portability, airdrop capability, radiography, leak tests, operational reliability, dissemination characteristics, fire vulnerability and downwind hazard, decontamination, susceptibility to sympathetic detonation, agent/hardware compatibility, EMR vulnerability, and nuclear effects tests. Discusses data reduction and presentation to include a safety statement.

8-2-164

AD-871815

13 Oct 69

## WARHEADS, ROCKET AND GUIDED-MISSILE, CHEMICAL AGENT

Provides a method for evaluating rocket and guided-missile warhead chemical performance and safety aspects. Describes procedures for test preparation, receipt inspection, safety, simulated environmental tests, rough handling and surface transport, air portability, airdrop capability radiography, leak testing, operational reliability, dissemination characteristics, fire vulnerability and downwind hazard, decontamination, susceptibility to sympathetic detonation, agent/hardware compatibility, EMR vulnerability, nuclear effects tests, and maintenance. Discusses data reduction and presentation to include a safety statement.

TECOM Pam 310-4

8-2-172

AD-718737

10 Jun 69

#### RADIAC SURVEY INSTRUMENTATION

Provides a method for evaluating radiac survey instrumentation technical performance and safety aspects relative to suitability for service use. Describes procedures for test preparation, directional response, electromagnetic environment, accuracy, energy dependence, response time, compatibility with field calibration device, drift, and warmup time. Discusses data reduction and presentation. Limited to radiological survey instruments only.

8-2-181

AD-718739

30 Sep 67

#### BOMBLETS, CHEMICAL

Provides a method for evaluating chemical bomblet technical performance and safety aspects. Describes procedures for test preparation, receipt inspection, safety, simulated environmental tests, rough handling and surface transport, air portability, radiography, dissemination characteristics, leak testing, operational reliability, susceptibility to sympathetic detonation, agent/hardware compatibility, EMR vulnerability, maintenance, and nuclear effects tests. Discusses data reduction and presentation to include a safety statement.

8-2-186

AD-718748

31 Oct 67

#### SCREENING SMOKE DISSEMINATION SUBSYSTEM FOR ARMY AIRCRAFT

Provides a method for evaluating screening smoke dissemination subsystem technical performance and safety aspects. Describes procedures for test preparation, receipt inspection, safety, simulated environmental tests, rough handling and surface transport, air portability, installation and maintenance, dissemination characteristics, operational reliability, leak tests, agent/hardware compatibility, and jettisonability. Discusses data reduction and presentation to include a safety statement.

8-2-187

AD-718850

25 Aug 69

#### TANKS, SPRAY, ANTIPERSONNEL, ANTICROP, AND DEFOLIANT AGENT

Provides a method for evaluating procedures used in determining spray tank technical performance and safety aspects. Describes procedures for test preparation, receipt inspection, safety, simulated environmental testing, rough handling and surface transport, air portability, decontamination, installation and maintenance, agent dissemination, operational reliability, leak testing, agent-hardware, compatibility, jettison characteristics, and human factors. Discusses data reduction and presentation to include a safety statement and safety of flight release.

8-2-190

AD-718752

31 Oct 67

## TARGET AND AREA SMOKE MARKING MUNITION SUBSYSTEM FOR ARMY AIRCRAFT

Provides a method for evaluating dispenser and smoke munition physical and performance characteristics. Describes procedures for test preparation, receipt inspection, safety, simulated environmental, rough handling and surface transport, air portability, radiography, installation and maintenance, operational reliability, dissemination characteristics, nuclear effects, susceptibility to sympathetic detonation, agent/hardware compatibility, leak testing, and human factors. Discusses data reduction and presentation to include a safety statement and safety of flight release.

8-2-191

AD-725542

27 Oct 67

## ALARMS, CHEMICAL

Provides a method for evaluating chemical alarm physical and technical performance characteristics and safety aspects. Describes procedures for test preparation, receipt inspection, safety, simulated environmental testing, rough handling and surface transport, airdrop capability, decontamination aspects, maintenance, operational characteristics, EMR vulnerability, nuclear effects, and human factors. Discusses data reduction and presentation to include a safety statement.

8-2-192

AD-719127

30 Nov 67

## COLLECTIVE PROTECTION SYSTEMS, VEHICLES AND VANS

Provides a method for evaluating collective protection system technical performance and safety aspects. Describes procedures for test preparation, receipt inspection, safety, reliability, flammability, protective material characteristics, agent penetration and simulated environmental tests, field operations, rough handling and surface transportability, portability, chemical and biological protection, special "gas" tests, alarm and gas life tests, decontamination, emergency measures, maintainability, and human factors. Discusses data reduction and presentation to include a safety statement.

8-2-193

AD-721278

30 Nov 67

## COLLECTIVE PROTECTION SYSTEMS, FIELD SHELTERS

Provides a method for evaluating field collective protection system technical performance and safety aspects. Describes procedures for test preparation, receipt inspection, safety, reliability, flammability tests, protective material characteristics, agent penetration and simulated environmental tests, field operations, rough handling and surface transportability, airdrop capability, chemical and biological protection, emergency measures, alarm and gas life tests, decontamination, maintenance, and human factors. Discusses data reduction and presentation to include a safety statement.

8-2-194

AD-868356

2 Mar 70

## COLLECTIVE PROTECTORS, FIXED INSTALLATION

Provides a method for evaluating collective protector technical performance and safety aspects. Describes procedures for test preparation, receipt inspection, installation, safety, simulated environmental tests, rough handling and surface transport, air portability, airdrop capability, leak testing, filter tests, operational reliability, decontamination, maintenance, and human factors. Discusses data reduction and presentation to include a safety confirmation. Not applicable to collective protection systems or collective protectors designed for use in vehicles, vans, and field shelters.

8-2-195

AD-718769

30 Nov 67

## MULTIPLE SUBMUNITIONS SYSTEMS, RIOT CONTROL

Provides a method for evaluating multiple riot control submunitions technical performance and safety aspects. Describes procedures for test preparation, receipt inspection, safety, simulated environmental tests, rough handling and surface transport, air portability, airdrop capability, leak tests, operational reliability, agent dissemination, agent/hardware compatibility, decontamination, vulnerability, maintenance, and human factors. Discusses data reduction and presentation to include a safety statement.

8-2-500

AD-718741

30 Dec 67

## RECEIPT INSPECTION

Provides a method for evaluating CBR item handling procedures used during initial inspection and processing. Describes methods for test preparation, unpacking and arrival inspection, determining damage to items, marking, physical characteristics, and repacking. Discusses data reduction and presentation to include a safety statement. Applies to the initial steps required on receipt of a test item shipment.

8-2-509

AD-718743

31 Jan 68

## RADIOGRAPHY

Provides a method for evaluating X- and gamma radiation capability to penetrate materiel and permit internal inspection. Describes procedures for test preparation, selection of the appropriate radiographic equipment, processing radiographic film, and radiographic interpretation. Discusses data reduction and presentation to include a safety statement. Applies to radiography conducted in conjunction with CBR materiel test items.

8-2-510

AD-718852

30 Sep 67

## DECONTAMINATION

Provides a method for evaluating procedures used in decontamination. Describes methods for test preparation, determining effects of decontamination agents, safety aspects of the decontamination process, and the effects on the test item. Discusses persistent and nonpersistent type CBR agents, data reduction, and presentation to include a safety statement. Applies to decontamination procedures required during engineering tests.

8-2-511

AD-718849

29 Feb 68

## LEAK TESTING OF PROTECTIVE EQUIPMENT

Provides a method for evaluating procedures used in leak testing of CB protective equipment. Describes procedures for test preparation, visual inspection, safety hazards, pressurization tests, detection, sampling, analysis, and determination of leakage rate.

8-2-512

AD-733301

1 Nov 71

## LEAK TESTING OF CHEMICAL AGENT - FILLED MUNITIONS AND CONTAINERS

Provides a method for evaluating procedures used in leak testing chemical munitions or containers. Describes procedures for test preparation, safety, visual inspection, detection, sampling, analysis, and helium tank testing. Discusses data reduction and presentation to include a safety statement.

8-2-513

AD-733297

1 Nov 71

## DISSEMINATION CHARACTERISTICS, CHEMICAL MUNITIONS/DISSEMINATION DEVICES

Provides a method for evaluating procedures used in determining dissemination characteristics of chemical munitions/dissemination devices. Describes procedures for determining control sample characteristics, agent dissemination rate, droplet size or particle sizing, source strength and agent dissemination efficiency, agent cloud characteristics, agent decay factors, infectivity changes, and residual hazards.

8-2-514

AD-746226

28 Mar 72

## MICROBIOLOGICAL AIR SAMPLING IN THE TROPICS

Describes a method for qualitatively and quantitatively estimating airborne micro-organisms in a tropical environment. Identifies and describes facilities and equipment required. Provides procedures for calibration of airflow through membrane filter, air sampling, sample preparation, and micro-organism counting and identification. Applies to wet-hot and wet-warm climates.

8-2-553

AD-A072672

1 Aug 79

## SAFETY EVALUATION - CB ITEMS

Describes development test procedures required to determine whether chemical/biological (CB) equipment is free from design, operational, or support hazards which could prevent accomplishment of intended missions. Checklists and hazard analysis formats are provided to assist test personnel in assessing hazards.

8-3-080

AD-726350

5 Mar 71

Cl, 1 Dec 71

## AIRBORNE DISSEMINATION DEVICES

Provides a method for evaluating airborne dissemination device physical and performance characteristics relative to suitability for service use. Describes procedures for test preparation, initial inspection, inventory check, physical characteristics, preoperational inspection, installation characteristics, flight characteristics tests, operational effectiveness, maintenance, maintainability, reliability, tools and test equipment, publications, safety, and human factors. Discusses data reduction and presentation to include a safety statement. Applies as a basic guide for the responsible test activity employing the agent dissemination devices.

8-3-083

AD-872076

24 Jun 70

## DISPERSER, RIOT CONTROL AGENT - HELICOPTER MOUNTED

Provides a method for evaluating riot control disperser subsystem physical and performance characteristics relative to suitability for service use. Describes procedures for test preparation, initial inspection, installation characteristics, flight characteristics tests, operational effectiveness, maintenance, safety analysis, and human factors. Discusses data reduction and presentation to include a safety statement. Applies as a guide to the responsible activity employing the riot control agent disperser subsystems.

8-3-186

AD-872077

22 May 70

## SCREENING SMOKE DISSEMINATION SUBSYSTEM FOR ARMY AIRCRAFT

Provides a method for evaluating smoke screening subsystems. Describes procedures for test preparation, physical characteristics, initial inspection, installation characteristics, flight characteristics, operational effectiveness, maintenance, safety, and human factors. Applies to Army aircraft-mounted smoke screening subsystems.

8-3-190

AD-871791

4 May 70

## TARGET AND AREA SMOKE MARKING MUNITION SUBSYSTEMS FOR ARMY AIRCRAFT

Describes a system for evaluating aerial marking (target and area smoke) subsystems. Provides procedures for initial inspection, inventory check, operator training, physical characteristics, installation, aircrew briefing, drop zone preparation, flight characteristics, compatibility with aircraft and crew, marking subsystem/munition performance, maintenance, reliability, safety, human factors, and value analysis.

8-4-001

AD-721281

30 Dec 68  
C1, 1 Nov 71

## DESERT ENVIRONMENTAL TEST OF CHEMICAL, BIOLOGICAL, AND RADIOLOGICAL EQUIPMENT

Provides a system for evaluating CBR equipment desert environmental performance characteristics. Prescribes procedures for test preparation, exposure (storage, transportation, handling, and airdrop), performance, security from detection, maintenance, and safety. Applies to field testing. Excludes simulated environments.

8-4-003

AD-878321

13 Oct 70

## CHEMICAL EQUIPMENT

Provides a method for evaluating chemical equipment physical and performance characteristics. Describes procedures for test preparation, initial inspection, operational performance, short-term storage, surveillance (long-term storage), maintenance, safety, human factors, security from detection, and value analysis. Discusses data reduction and presentation to include a safety statement. Applies to field testing of chemical munitions, weapons, and equipment.

8-4-004

AD-719130

29 Dec 67  
C1, 1 Nov 71

## LONG-TERM SURVEILLANCE/ENVIRONMENTAL TESTING OF CB EQUIPMENT AND CHEMICAL MUNITIONS AND WEAPONS

Provides a method for evaluating CBR materiel physical and performance characteristics relative to suitability for long-term surveillance. Describes procedures for receipt inspection, graphic requirements, cyclic schedule, meteorological data, prestorage tests, storage, cyclic inspections, and tests. Discusses data reduction and presentation to include a safety statement. Applies to general procedures for surveillance/environmental testing relating to all CBR items.

8-4-005

AD-720983

23 Jun 69

## ARCTIC ENVIRONMENTAL TEST OF CB ALARMS AND COLLECTIVE PROTECTION SYSTEMS

Provides a method for evaluating CB alarms and collective protection systems physical and performance characteristics relative to exposure to arctic environmental conditions. Describes procedures for test preparation, preoperational inspection, physical characteristics, agent challenge test, purge time challenge, operational reliability, functional suitability, maintenance, safety, and human factors. Applies to general procedures and considerations employed in arctic environmental testing of CB alarms and collective protection systems.

8-4-006

AD-719131

15 Jan 70

## ARCTIC ENVIRONMENTAL TEST OF CB PROTECTIVE CLOTHING, PROTECTIVE MASKS, AND WINTERIZATION KITS

Provides a method for evaluating CB protective clothing and equipment physical and performance characteristics. Describes procedures for test preparation, preoperational inspection, physical characteristics, rough handling, surface transport, operational reliability, chemical challenge, maintenance, and human factors. Discusses data reduction and presentation. Limited to the testing of CB protective clothing, protective masks, and winterization kits in an arctic winter environment.

8-4-007

AD-719132

29 Aug 69

## ARCTIC ENVIRONMENTAL TEST OF DECONTAMINATION EQUIPMENT AND IMPREGNATION/REIMPREGNATION EQUIPMENT

Provides a method for evaluating decontaminating apparatus and field impregnating equipment physical and performance characteristics. Describes procedures for test preparation, preoperational inspection, physical characteristics, apparatus assembly/installation, functional and operational suitability, human factors, safety, and maintenance. Discusses data reduction and presentation. Limited to arctic winter environment and generally not authorized until data from simulated environmental tests provide reasonable assurance that the test item will function satisfactorily in the arctic.

8-4-008

AD-734847

18 Feb 70

## ARCTIC ENVIRONMENTAL TEST OF CB AGENT DELIVERY DEVICES

Provides a method for evaluating CB agent delivery device performance characteristics. Describes pretest requirements for initial inspection, physical characteristics, personnel training, instrumentation, facilities, and equipment. Provides procedures for functional and operational characteristics, human factors, safety, and maintenance evaluation tests. Applies to tests under arctic environmental conditions.



8-4-010

AD-871907

AD-871907

8 Jun 70

#### ARCTIC ENVIRONMENTAL TEST OF FLAME EQUIPMENT

Describes a system for evaluating flame equipment performance characteristics. Discusses pretest requirements for initial inspection, physical characteristics, instrumentation facilities, equipment, and operator training. Provides procedures for human factors, safety, transportability, mobility, pressure, volumetric, storage, operational suitability, and maintenance evaluation tests. Applies to general testing under arctic conditions.

8-4-011

AD-872078

8 Jun 70

#### ARCTIC ENVIRONMENTAL TEST OF SMOKE MUNITIONS AND GENERATING EQUIPMENT

Provides a method for evaluating smoke munition and generating equipment performance characteristics. Discusses procedures for test preparation, initial inspection, physical characteristics, human factors, safety, rough handling, surface transportability, pressure test, reliability, and maintenance evaluation. Limited to general testing under arctic conditions.

8-4-012

AD-867073

26 Nov 69

#### ARCTIC ENVIRONMENTAL TEST OF CHEMICAL AGENT DETECTOR KITS

Describes a system for evaluating chemical agent detector kit performance characteristics. Provides procedures for preoperational inspection, physical characteristics, human factors, safety, rough handling, surface transportability, field detection and operational characteristics, and maintenance evaluation tests. Limited to general testing under arctic conditions.

8-4-014

AD-867022

26 Nov 69

#### ARCTIC ENVIRONMENTAL TEST OF WATER HANDLING, WATER STORAGE, AND WATER PURIFICATION EQUIPMENT

Provides a method for evaluating water handling, storage, and purification equipment. Describes procedures for test preparation, preoperational inspection, physical characteristics, transportability, functional suitability, human factors, safety, and maintenance evaluation. Limited to general testing under arctic conditions.

9-1-001

AD-726889

5 Jun 71

## CONSTRUCTION, SUPPORT, AND SERVICE EQUIPMENT

Provides a method for evaluating construction, support, and service equipment physical and performance characteristics relative to suitability for service use. Describes procedures for test preparation, efficiency of POL support equipment, bridging equipment, prefabricated buildings, construction equipment, gas generating and charging equipment, shop equipment, and waterway equipment. Discusses data reduction and presentation. Introduces concepts for testing construction, support, and service equipment.

9-2-010

AD-879230

6 Nov 70

## BATH UNITS

Describes a method for evaluating bath unit performance characteristics. Discusses pretest requirements for initial inspection, inventory of basic issue items, physical characteristics, operator training, functional verification, instrumentation, and equipment. Provides procedures for operation and performance effects, kit adequacy, electromagnetic compatibility, environmental, durability, transportability, maintainability, reliability, safety, human factors, value analysis, and quality assurance. Appendix provides sample reliability calculations.

9-2-016

AD-725544

17 May 71

## BUILDINGS, PREFABRICATED

Provides a system for evaluating prefabricated buildings. Discusses pretest requirements for initial inspection, inventory of basic issue items, physical characteristics, facilities, and equipment. Describes procedures for site selection, assembly and erection, building strength, environmental effects, durability, transportability, maintainability, reliability, safety, human factors, value analysis, and quality assurance tests. Provides a method for data reduction and presentation.

9-2-027

AD-738844

23 Feb 72

## BRIDGES AND EQUIPMENT

Describes a method for evaluating bridge operational and functional performance characteristics. Identifies support tests, facilities, and equipment required. Provides procedures for site selection, assembly, disassembly, launching, retrieving, static load, dynamic load, mobility, and anchorage system tests. Applies to highway, railway, floating, mobile, panel, and suspension type bridges for vehicular and foot traffic to include accessory equipment inherent to the bridge mission.

9-2-046

AD-734854

1 Dec 71

## CONVEYOR EQUIPMENT

Describes a system for evaluating conveyor equipment operational and performance characteristics. Designates procedures for preoperational inspection, physical characteristics, safety, performance tests, environmental tests, transportability, human factors evaluation, reliability, durability, maintenance evaluation, and value analysis. Not applicable to service testing or environmental testing at climatic test sites.

9-2-063

AD-775433

2 Aug 67

## CRANE TRUCK, WAREHOUSE

Provides a system for evaluating warehouse crane truck performance characteristics. Discusses pretest requirements for initial inspection, physical characteristics, inventory of basic issue items, safety precautions, instrumentation, facilities, and equipment. Provides procedures for clutch pedal, steering, service brake, load line hook, boom topping, sluing, crane speed, acceleration, acceleration response, slope, parking brake, under-clearance, stopping distance, suitability, lifting attachment, structural load, overload, power train static torque, controls, hook and cable, durability, postoperational inspection, maintenance, safety evaluation, human factors, and value analysis tests. Excludes special purpose crane trucks.

9-2-064

AD-726892

1 Jul 71

## CRANE SHOVEL, TRACKED AND WHEELED

Describes a method for evaluating crane shovel performance characteristics. Provides procedures for packaging and test item inspection, inventory, preliminary operations, physical characteristics, operator training, preoperational check, laboratory tests, crane stability, load strain, hoist line speed and power, mobility, brake, fuel consumption, environmental effects, electromagnetic interference, durability, transportability, maintenance, reliability, safety, human factors, value analysis, and quality assurance. Limited to self-propelled wheeled or tracked crane shovel units.

9-2-071

AD-739589

9 Mar 72

## EARTH LOADING EQUIPMENT

Describes a method for evaluating earth loading equipment operational and functional performance characteristics. Identifies supporting tests, facilities, and equipment required. Provides procedures for safety, functional performance, loading, and capacity rating to include tables establishing minimum performance standards.

9-2-072

AD-877649

5 Oct 70

## TRAILER, CABLE REEL

Describes a method for evaluating cable reel trailer performance characteristics. Discusses preoperational requirements for initial inspection, inventory of basic issue items, physical characteristics, operator training, instrumentation, and equipment. Provides procedures for electrical equipment, towing hitch, brakes, interaction with towing vehicle, fording, mobility, compatibility, environmental effects, durability, transportability, maintainability, reliability, safety, human factors, value analysis, and quality assurance tests.

9-2-082

AD-746228

22 May 72

## EARTHMOVING EQUIPMENT

Describes a method for evaluating earthmoving equipment performance and operational characteristics. Identifies supporting tests, facilities, and equipment required. Provides procedures for test planning, compatibility with related equipment, bulldozing earthmoving operations, scraper earthmoving operations, performance, salt fog, reliability, and endurance. Applies to auger, angledozer, bulldozer, ditching machine, grader, and scraper.

9-2-111

AD-737714

12 Apr 72

## PAVING EQUIPMENT

Describes a method for evaluating paving equipment operational and functional performance characteristics. Identifies supporting test, facilities, and equipment required. Specifies procedures for operator training, photographic coverage, safety, initial inspection, physical environmental effects, maintenance, reliability, transportability, durability, and value analysis.

9-2-116

AD-873523

30 Jun 70

## CRUSHING, SCREENING, AND WASHING PLANT

Provides a system for evaluating crushing, screening, and washing plant performance characteristics. Describes typical processing plant major components. Discusses pretest requirements for initial inspection, inventory of basic issue items, physical characteristics, operator training, instrumentation, facilities, and equipment. Provides procedures for performance, power and fuel requirements, mobility, environmental effects, electromagnetic interference, durability, transportability, maintenance, safety, human factors, value analysis, and quality assurance. Applies to rock, gravel, and sand crushing and cleaning plants.

9-2-124

AD-872824

6 Jul 70

## ROAD GRADERS

Describes a method for evaluating road grader performance characteristics. Discusses preoperational requirements for initial inspection, inventory of basic issue items, physical characteristics, instrumentation, facilities, equipment, and break-in. Provides procedures for clutch, steering, wheel lean, brakes, electrical, cooling, accessory items, power train, warmup, cold starting, drawbar pull, acceleration, travel speed, fuel consumption, turning radius, gradeability, side slope, fording, blade pull, tandem rotation, roadability, actuating mechanism, ground clearance, circle assembly moldboard rigidity, blade control, towing, rain, radio interference, endurance, sectionalization, transportability, maintenance, safety, human factors, value analysis, and quality assurance tests.

9-2-145

AD-726004

1 Jul 71

## LIQUID TRANSPORTING AND DISPENSING EQUIPMENT

Describes a system for evaluating liquid transporting and dispensing equipment performance characteristics. Provides procedures for test preparation, operational performance, environmental effects, durability, transportability, maintenance evaluation, reliability, safety, human factors, value analysis, and quality assurance. Limited to system testing.

9-2-155

AD-721611

23 Mar 70

## MOTORS, ELECTRICAL

Prescribes a method for evaluating electric motor performance characteristics. Discusses pretest requirements for initial inspection, inventory of basic issue items, physical characteristics, operating training, instrumentation, facilities, and equipment. Provides procedures for electrical characteristics, dynamic balance, operational performance, inclined operation, mechanical shock, vibration, electromagnetic interference, durability, environmental effects, transportability, maintenance, safety, human factors, value analysis, and quality assurance tests. Applies to AC or DC motors.

9-2-166

AD-872320

26 Jun 70

## AIR COMPRESSOR

Describes a method for evaluating air compressor performance characteristics. Discusses preoperational requirements for initial inspection, physical characteristics, operator training, instrumentation, facilities, and equipment. Provides procedures for rated capacity automatic regulation, tilted position, endurance, cycling, fuel contamination, radio interference, environmental, transportability, maintenance, safety, human factors, value analysis, and quality assurance tests.

9-2-167

AD-871779

18 May 70

## HANDTOOLS, PNEUMATIC

Provides a system for evaluating pneumatic handtool performance characteristics. Describes pretest requirements for initial inspection, physical characteristics, operator training, instrumentation, facilities, and equipment. Provides procedures for functional performance endurance, environmental effects, maintenance, safety, human factors, value analysis, and quality assurance tests. Applies to hand-held, rotary, rotary impact, percussion, percussion rotation, and vibrating pneumatic tools used in field construction work.

9-2-181

AD-718572

5 Mar 68

## PUMP, CENTRIFUGAL

Describes a method for evaluating centrifugal pump performance characteristics. Discusses preoperational requirements for initial inspection, physical characteristics, operator training, instrumentation, facilities, and equipment. Provides procedures for balancing, hardness, hydrostatic, priming, suction loss, discharge pressures, reliability, environmental effects, transportability, maintenance, human factors, value analysis, and safety tests.

9-2-182

AD-718573

11 Mar 68

## PUMP, RECIPROCATING

Provides a system for evaluating reciprocating pump performance characteristics. Describes pretest requirements for initial inspection, physical characteristics, operator training, instrumentation, facilities, and equipment. Provides procedures for hydrostatic, priming, suction loss, discharge pressure, reliability, environmental effects, transportability, maintenance, human factors, safety, and value analysis tests.

9-2-201

AD-869820

25 Mar 70

## BLOCK AND TACKLE

Describes a method for evaluating block and tackle performance characteristics. Discusses pretest requirements for initial inspection, inventory of basic issue items, physical characteristics, operator training, facilities, and equipment. Provides procedures for rope tensile strength, block strength, composite performance, mechanical advantage, durability, transportability, maintenance, safety, human factors, value analysis, and quality assurance. Prescribes a system for data reduction and presentation.

9-2-202

AD-872323

23 Jun 70

## HOISTS, CHAIN AND WIRE ROPE

Provides a system for evaluating chain and wire rope hoists. Describes preoperational requirements for initial inspection, inventory of basic issue items, physical characteristics, operator training, functional check, instrumentation, facilities, and equipment. Provides procedures for electrical, rated capacity, static overload, dynamic overload, impact, track clamp, environmental effects, electromagnetic interference, durability, transportability, maintenance, safety, human factors, value analysis, and quality assurance tests. Applies to electrical or manually powered hoists with fixed or trolley suspension.

9-2-203

AD-876405

3 Aug 70

## CUTTERS, FLOOR MOUNTED

Describes a method for evaluating floor-mounted cutters. Discusses pretest requirements for initial inspection, inventory of basic issue items, physical characteristics, operator training, instrumentation, facilities, and equipment. Provides procedures for machine balance, input consumption, speed of moving components, power line variation, brakes, mechanical overload, alinement, performance, electromagnetic interference, environmental effects, durability, maintenance, safety, human factors, value analysis, and quality assurance tests.

9-2-207

AD-871744

22 May 70

## LATHES

Prescribes a system for evaluating lathe performance characteristics. Discusses pretest requirements for initial inspection, inventory of basic issue items, physical characteristics, operator training, functional check, instrumentation, facilities, and equipment. Provides procedures for rough cut, finish cut, threading, taper, boring, electromagnetic interference, durability, transportability, maintenance, safety, human factors, value analysis, environmental effects, and quality assurance tests. Applies to electric motor-driven lathes.

9-2-211

AD-721282

25 Aug 69

## SANDERS, BELT OR DISK

Provides a method for evaluating electric sanders. Describes preoperational requirements for initial inspection, inventory of basic items, operator training, physical characteristics, instrumentation, facilities, and equipment. Describes procedures for electrical characteristics, vibration, power consumption, operating speed, dust collector, electromagnetic interference, durability, transportability, maintainability, reliability, safety, human factors, and value analysis. Applies to disk and belt sanders.

9-2-212

AD-875670

28 Jul 70

## TOOL SETS

Describes a system for evaluating tool sets. Discusses pretest requirements for initial inspection, inventory of basic issue items, physical characteristics, instrumentation, facilities, and equipment. Provides procedures for cylinder head, engine block, tubing, cutting, welding, special tools, arctic, desert, intermediate climatic, endurance, transportability, maintenance, compatibility, safety, human factors, value analysis, and quality assurance tests. Applies to standard and special tool equipment.

9-2-235

AD-718574

9 Jun 67

## TANKS, PETROLEUM LIQUID STORAGE, FABRIC, COLLAPSIBLE

Provides a method for evaluating storage tank performance characteristics. Describes pretest requirements for initial inspection, physical characteristics, operator training, instrumentation, facilities, and equipment. Prescribes procedures for erection, initial checkout, relocation, filling, emptying, pressure surge, valve induced surge, pumping, water drain system, static fuel storage, manifold adaptability, maintenance, durability, safety, and human factors tests. Applies to collapsible (fabric) petroleum liquid storage tanks with a 1250, 2500, or 5000 barrel capacity.

9-2-236

AD-718592

3 Jul 67

## TANKS, LIQUID STORAGE, METAL

Describes a system for evaluating metal liquid storage tank performance characteristics. Discusses pretest requirements for initial inspection, physical characteristics, operator training, instrumentation, facilities, and equipment. Provides procedures for erection, initial checkout, relocation, filling, emptying, water drain facility, pressure surge, static fuel storage, postoperation inspection, manifold adaptability, environmental effects, maintenance, safety, and human factors tests. Applies to rigid bulk storage tanks for liquids such as petroleum fuel and nonpotable water.

9-2-240

AD-731190

1 Aug 71

## TRACTORS, WHEELED, AGRICULTURAL

Describes a method for evaluating wheeled agricultural tractor performance characteristics. Provides procedures for test preparation, initial inspection, inventory of basic issue items, preliminary operations, laboratory tests, physical characteristics, operator training, clutch, steering, brake, electrical system, cooling, accessory item, drawbar pull, wheel slippage, acceleration, speed, fuel consumption, turning radius, durability, radio frequency interference, environmental effects, transportability, maintenance evaluation, reliability, safety, human factors, value analysis, and quality assurance tests.



9-2-251

AD-759772

18 Aug 72

**WATERWAY EQUIPMENT - BOAT, BARGE, MOTOR**

Describes a method for evaluating waterway equipment performance and operational characteristics. Identifies facilities and equipment required. Discusses supporting tests. Provides procedures for watertight integrity, stability, static flotation, dynamic pitch and roll, dock trials, components and subsystems, bollard pull tests, sea trials, turning radius, towing and resistance, beaching, ramp operation, operational performance, communications and navigation equipment, inflation (inflatables), pressure (inflatables), and leakage (inflatables) tests. Applies to barges and lighters and passenger, cargo landing, assault, packet, patrol, tug, tow, and special purpose boats.

9-2-270

AD-726911

27 May 71

**WATER SUPPLY AND TREATMENT EQUIPMENT**

Describes a method for evaluating water supply and treatment equipment performance characteristics. Provides procedures for test preparation, performance, kits, environmental effects, electromagnetic interference, durability, transportability, maintenance evaluation, reliability, safety, human factors, value analysis, and quality assurance. Limited to system test of units previously evaluated as suitable for military use.

9-2-285

AD-718791

23 Dec 70

**DUST CONTROL MATERIAL**

Prescribes a system for evaluating dust control material. Discusses pretest requirements for initial inspection, inventory of basic issue items, physical characteristics, operator training, functional check, and site selection. Provides procedures for surface treatment, prefabricated membrane, kits, environmental effects, durability, transportability, maintenance, safety, human factors, value analysis, and quality assurance tests. Not applicable to concrete bituminous paving, vegetation, and reusable landing mats as palliative agents.

9-2-286

AD-869839

25 Mar 70

**POWER GENERATORS**

Provides a method for evaluating power generator technical performance and safety characteristics relative to suitability for service use. Describes procedures for test preparation, operational performance, environmental tests, electromagnetic interference, durability, transportability, maintenance, safety, human factors, value analysis, and quality assurance. Discusses data reduction and presentation. Applies to portable, self-contained power generators that are skid mounted and provide 200 kw or less continuous output power when fully loaded.

9-2-294

AD-738845

14 Jan 72

## POL SUPPORT EQUIPMENT

Describes a method for evaluating POL support equipment operational and functional performance characteristics. Identifies supporting tests, facilities, and equipment required. Provides procedures for batch interface detection, fuel contamination level, switching manifold, strainer, and trap tests. Applies to hoses, pipelines, pressure regulations, switching manifolds, monitoring devices, batch detectors, fuel testers, filters, separators, strainers, and traps.

9-2-305

AD-759236

26 Jan 73

## RADIOGRAPHIC EQUIPMENT SET

Describes a method for evaluating radiographic equipment operational and functional performance characteristics. Identifies supporting tests, facilities, and equipment required. Provides procedures for safety, operator training, initial inspection, physical characteristics, performance, environmental, transportability, durability, human factors, and reliability testing. Applies to portable radiographic equipment used in evaluating structural integrity and interior constitution of weldments, vehicle structures, castings, and assemblies such as ammunition fuzes and dud rounds. Excludes medical equipment and test at climatic test sites.

9-2-503

AD-726906

1 Aug 71

## DURABILITY

Describes a method for evaluating construction, support, and service equipment durability characteristics. Discusses pretest requirements for receipt inspection, inventory, physical characteristics, operator training, checklist, and questionnaires. Provides procedures for maintenance, service, wear, protective coatings, joints and seams, fatigue, critical dimensions, clearances, alignment, adjustments, electrical system, operating fluids, overload and loss of power, handling and shipment, improper usage, instruction plates and markings, animals, insects, fungus, dust, sand, salt fog, atmosphere, ozone, sunshine, humidity, rain, water, wind, ice, sleet, snow, hail, temperature effects, and altitude tests. Applies to many different commodity items.

9-4-001

AD-718595

30 Aug 68

## DESERT ENVIRONMENTAL TESTING OF CONSTRUCTION, SERVICE, AND SUPPORT EQUIPMENT

Describes a method for evaluating construction, service, and support equipment. Provides procedures for test preparation, safety, exposure, performance, security from detection, maintenance, data collection, and reporting. Limited to desert field testing. Not applicable to waterways equipment and railway rolling stock.

9-4-003

AD-720562

13 Jan 71

CONSTRUCTION, SUPPORT, AND SERVICE EQUIPMENT

Describes a system for evaluating construction, support, and service equipment. Provides procedures for test preparation, operational performance, storage, surveillance, security from detection, maintenance, safety, human factors, and value analysis. Limited to field testing in the humid tropics. Excludes simulated environmental tests.

10-1-003

AD-866906

3 Dec 69

## DESERT TERRAIN

Provides background information relative to desert testing. Defines a desert. Discusses terrain classification by physical geography, geomorphology, and physiographic association systems. Describes deserts containing stone, gravel, and sand to include desert components such as mountains, badlands, hills, fans, washes, flats, sand dunes, and fields. Discusses the development of desert landscapes. Describes physiographic association classification as used by Corps of Engineer Waterway Experiment Station (WES). Provides a table on desert component distribution worldwide. Discusses transportation, storage, and performance testing.

10-1-004

AD-759771

2 Oct 72

## DESERT ENVIRONMENTAL TEST OF GENERAL SUPPLIES AND EQUIPMENT

Describes a method for evaluating general supplies and equipment operational and functional performance characteristics. Discusses preliminary operations, facilities, and equipment required. Provides procedures for exposure, performance, security from detection, maintenance evaluation, safety, and human factors. Appendixes define classes of supplies.

10-2-011

AD-741868

30 Dec 71

## BAKERY EQUIPMENT

Describes a method for evaluating bakery equipment operational and performance characteristics. Identifies supporting tests, facilities, and equipment required. Provides procedures for preformed polyurethane board, mechanical flour sifter, and doughmixing machine performance tests. Applies to flour sifters, doughmixers, dough troughs, dividing machines, molding machines, mixing and makeup outfits, proofing cabinets, ovens, and accessory sets.

10-2-021

AD-763001

6 Feb 73

## COMBAT UNIFORMS AND PROTECTIVE EQUIPMENT

Describes a method for evaluating combat uniforms and protective equipment operational and functional performance characteristics. Identifies supporting tests, facilities, and equipment required. Discusses test planning and preparation for tests. Provides procedures for physical characteristics, protection against agents, sizing, fitting, donning, doffing, functional suitability, leakage, water exposure, infrared reflectance, static electricity, filter gas life, launderability, storage, water immersion, transportability, human factors, reliability, durability, and maintenance evaluation. Appendixes discuss test courses, sizing and fitting, donning and doffing data, boot impregnating procedures, and handwear tests.

10-2-023

AD-719139

4 Apr 68

## INDIVIDUAL LOAD-CARRYING EQUIPMENT

Discusses a system for evaluating individual load-carrying equipment performance characteristics. Describes procedures for initial inspection, physical characteristics, coding, user medical examination, personnel training, donning, doffing, adjustment, controlled field wear, laboratory analysis, water resistance, durability, identification of materials, salt spray exposure, colorfastness, gloss, temperature, humidity, static electric charge, immersion, flammability, fungus, puncture, crocking, breaking strength, clothing compatibility and sizing, value analysis, safety hazards, and maintenance evaluation tests. Applies to hot, temperate, and cold wet regional evaluation. Excludes cold dry arctic testing.

10-2-030

AD-719140

28 Feb 69

## DRAFTING EQUIPMENT

Describes a method for evaluating drafting equipment performance characteristics. Provides procedures for test preparation, performance, material evaluation, environmental storage, transportability, safety, maintainability, reliability, human factors, and value analysis. Applies to general purpose drafting equipment such as instrument sets, templates, ruler, T-squares, and drafting machines. Not applicable to automatic or electrically powered equipment.

10-2-036

AD-741928

1 May 72

## FIELD HEATING AND COOKING EQUIPMENT

Describes a method for evaluating field heating and cooking equipment operational and functional performance characteristics. Identifies supporting tests, facilities, and equipment required. Provides procedures for adjustment, control accuracy, heat distribution, and efficiency. Not applicable to space heaters, field mess equipment, and tests at climatic test sites.

10-2-050

AD-742516

20 Apr 72

## FIREHOSES AND ASSEMBLIES

Describes a method for evaluating firehose and firehose assembly operational and performance characteristics. Identifies supporting tests, facilities, and equipment required. Provides procedures for leakage, resistance to vacuum, fitting retention, pull resistance, coupling compatibility, and coupling reattachability tests.

TECOM Pam 310-4

10-2-051

AD-867353

12 Jul 69

#### FIRE EXTINGUISHERS

Provides a system for evaluating fire extinguisher performance characteristics. Describes procedures for test preparation, hydrostatic strength, component usage and operability, gunfire effects, hose evaluation, packed chamber, maximum pressure, performance, leakage, vibration, transportability, safety, maintainability, reliability, human factors, and value analysis tests. Applies to portable fire extinguishers of the hand, back-packed, wheeled, and skid- or platform-mounted types.

10-2-060

AD-719144

19 May 69

#### FUEL THICKENERS, FLAMETHROWER

Prescribes a method for evaluating flamethrower fuel thickener performance characteristics. Provides procedures for initial inspection, physical and chemical characteristics, safety evaluation, leak, environmental effects, decontamination, rough handling, transportability, airdrop capability, operational performance, and laboratory analysis tests.

10-2-066

AD-719145

23 May 69

#### FANS, ELECTRIC

Discusses a system for evaluating electric fan performance characteristics. Provides procedures for test preparation, preliminary electrical evaluation, performance, electromagnetic interference, balance, durability, transportability, environmental effects, maintainability, reliability, safety, human factors, and value analysis. Applies to air moving devices whether classified a fan, blower, exhauster, or booster.

10-2-067

AD-870553

28 Jul 69

#### BOILERS, STEAM AND HIGH-TEMPERATURE WATER

Describes a method for evaluating boiler performance characteristics. Provides procedures for test preparation, preliminary electrical measurements, strength, tightness, pressure, operations, performance, electromagnetic interference, durability, balance, transportability, maintainability, reliability, safety, human factors, and value analysis. Not applicable to nuclear and combined cycle steam generators.

10-2-068

AD-719146

3 Jul 69

## DEHUMIDIFIERS

Discusses a system for evaluating dehumidifiers performance characteristics. Provides procedures for test preparation, preliminary electrical measurements, operation and performance, electromagnetic interference, durability, environmental effects, balance, transportability, maintainability, reliability, safety, human factors, and value analysis. Limited to self-contained electrical dehumidifiers, refrigeration, and sorption, which extract moisture as air is passed through the test item.

10-2-072

AD-742517

20 Apr 72

## HEATING EQUIPMENT

Describes a method for evaluating heating equipment operational and performance characteristics. Identifies supporting tests, facilities, and equipment required. Provides procedures for heating capacity and smoke tests. Applies to space, radiant, and portable nonduct and duct type heaters.

10-2-080

AD-719178

12 May 67

## CONTAINERS, PALLETS, PALLET CONTAINERS, CONEX CONTAINERS

Prescribes a method for evaluating palletized and conex container performance characteristics. Provides procedures for preoperational inspection, assembly, packaging, stacking, shipping, handling, storage, environmental effects, vertical deceleration, vertical pull, and shock tests. Appendixes provide a method for data collection.

10-2-085

AD-719183

12 Jun 69

## LUBRICATING AND SERVICING UNITS

Provides a method for evaluating lubricating and service unit performance characteristics. Describes procedures for test preparation, preliminary electrical test, performance, electromagnetic compatibility, transportability, environmental storage, maintainability, reliability, safety, human factors, and value analysis.

10-2-100

AD-719184

15 Apr 69

## PRESERVATION AND PACKING EQUIPMENT

Describes a method for evaluating preservation and packing equipment performance characteristics. Provides procedures for pretest inspection, physical characteristics, performance, efficiency, functional suitability, leakage, electromagnetic compatibility, environmental storage, transportability, maintainability, reliability, human factors, safety, and value analysis. Excludes general handtools and shop tools, machines, carpentry tools, compressor equipment, chain hoists, conveyors, and general equipment items.

10-2-106

AD-725551

22 May 69

## BINOCULARS

Discusses a system for evaluating binoculars. Provides procedures for test preparation, mechanical evaluation, eyepiece focus, reticle alinement, collimation, resolution, angular magnification, linear distortion, field of view, relative light efficiency, extreme temperature (-80°F and +160°F) effects, transportability, maintainability, reliability, safety, human factors, and value analysis tests. Excludes infrared type binoculars.

10-2-107

AD-719185

21 Mar 68

## METASCOPIES - INFRARED, IMAGE FORMING

Describes a method for evaluating image-forming infrared metascope performance characteristics. Provides procedures for test preparation, receiver brightness gain, resolving power, receiver linear distortion, field of view, focus range, infrared light source characteristics, light source receiver alinement, filter characteristics, maintenance, transportability, safety, human factors, and value analysis tests. Applies to devices which use image converter tubes.

10-2-108

AD-719186

20 Aug 68

## STEREOSCOPIES

Discusses a method for evaluating stereoscope performance characteristics. Provides procedures for test preparation, working distance, focus, image jump, resolution, field of view, distortion, color correction, magnification, optical and physical orientation, and dual optical bench tests. Applies to fixed power and variable power lense devices. Excludes test of light tables, roll film holders, and other ancillary equipment.

10-2-109

AD-719187

12 Jun 69

## TELESCOPES

Provides a method for evaluating telescope technical performance and safety characteristics relative to suitability for service use. Describes procedures for test preparation, mechanical operation, reticle accuracy, eyepiece focus, resolution, angular magnification, linear distortion, field of view, relative light efficiency, extreme temperature effects, transportability, maintainability and reliability, safety, human factors, and value analysis. Discusses data reduction and presentation to include a safety statement. Applies to all types of telescopes except observation telescope mechanical and image assessment tests.



10-2-110

AD-719188

16 Apr 69

## THEODOLITES

Provides a method for evaluating theodolite physical and technical performance characteristics. Describes procedures for test preparation, accuracy, comparison with other theodolites, atmospheric condition effects, and optics efficiency. Discusses data reduction and presentation. Not applicable to photo theodolites and cinetheodolites.

10-2-124

AD-741865

14 Jan 72

## PRINTING EQUIPMENT

Describes a method for evaluating printing equipment operational and performance characteristics. Identifies supporting tests, facilities, and equipment required. Provides procedures for paper capacity, feed, registration, reproduction accuracy, turntable trueness, functional performance, controls, and indicators. Applies to printing presses, printing machines, dry developing machines, electrostatic printers, and lithographic plate coating machines.

10-2-130

AD-734846

1 Dec 71

## PHOTOGRAPHIC EQUIPMENT

Provides a method for evaluating photographic equipment operational and performance characteristics. Describes procedures for operator training and familiarization, photographic coverage, safety, inspection upon receipt, physical characteristics, human factors evaluation, lens resolution, lens equivalent focal length, lens distortion, shutter, synchronization, flash units, illumination, rangefinder focusing, viewfinder, light leakage, film scratch, steadiness, film advance speed, photographic printers, processing machine, photographic film and paper, chopper-paper cutter, drier, leakage, copying camera, lithographic plate coating machine turntable trueness and functional performance, environmental testing, maintenance evaluation, reliability, transportability, durability, and value analysis. Discusses data required and analytical plans. Not applicable to special purpose vehicles, common designed engines, and power sources used to house and operate photographic equipment.

10-2-137

AD-719194

6 Jun 69

## PROJECTOR, STILL PICTURE

Provides a method for evaluating still picture projector technical performance and safety characteristics relative to suitability for service use. Describes procedures for test preparation, resolution, distortion, screen illumination, transparency temperature, projected image area size, noise, physical stability, accelerated wear, environmental tests, transportability, safety, maintainability, reliability, human factors, and value analysis. Discusses data reduction and presentation to include a safety statement. Limited to still picture (transparency) projectors, not to overhead or vertical reflecting photogrammetric projectors.

10-2-138

AD-868365

10 Mar 70

## PROJECTION SET, MOTION PICTURE

Provides a method for evaluating motion picture projection set technical performance and safety characteristics relative to suitability for service use. Describes procedures for test preparation, technical performance, electromagnetic compatibility, durability, transportability, environmental tests, maintenance, safety, human factors, value analysis, and quality assurance. Discusses data reduction and presentation to include a safety statement. Limited to projectors that optically reproduce audio information, not to projectors using magnetic reproduction systems.

10-2-145

AD-725552

10 May 71

## AIR-CONDITIONERS

Prescribes a system for evaluating air-conditioner heating and cooling characteristics. Provides procedures for initial inspection, servicing, baseline operational measurements, 24-hour initial operations, safety evaluation, audio-noise, electromagnetic interference, refrigerant leak, evaporator compartment air leakage, ventilation air flow, evaporator coil frost, capacity, heating, tilted operation, vibration, high temperature (+155°F) storage and operation, thermal overload protection, low temperature (-50°F) storage and operation, humidity, fungus, rain, salt fog, sand, dust, endurance, reliability, and maintenance evaluation. Applies to self-contained electrically powered air-conditioning units.

10-2-146

AD-719195

31 Jul 69

## ICEMAKING MACHINES

Provides a method for evaluating icemaking machine technical performance and safety characteristics relative to suitability for service use. Describes procedures for test preparation, functional performance, defrosting, electromagnetic compatibility, environmental test, effects of water quality, maintenance, transportability, safety, human factors, and value analysis. Discusses data reduction and presentation to include a safety confirmation. Limited to overall performance tests on air- or water-cooled, self-contained, automatic, electric powered icemakers.

10-2-151

AD-719196

15 Apr 69

## CLOTHING REPAIR SHOP, TRAILER MOUNTED

Provides a method for evaluating trailer-mounted clothing repair shop technical performance and safety characteristics relative to suitability for service use. Describes procedures for test preparation, electrical and performance tests, durability and trailer brake tests, electromagnetic compatibility, transportability, cabinet assembly water leakage tests, environmental storage tests, safety, maintainability, reliability, human factors, and value analysis. Discusses data reduction and presentation.

10-2-152

AD-719197

25 Nov 68

## TEXTILE REPAIR SHOP, TRAILER MOUNTED

Provides a method for evaluating trailer-mounted textile repair shops. Describes procedures for test preparation, electrical tests, electromagnetic compatibility, sewing machine and durability tests, trailer brake and transportability tests, cabinet assembly water leakage test, environmental storage tests, safety, maintenance, human factors, and value analysis. Discusses data reduction and presentation. Cabinet assembly, water leakage tests apply only to items equipped with waterproof storage and transport protective covers.

10-2-153

AD-719198

16 Apr 69

## SHOE REPAIR SHOP, TRAILER MOUNTED

Provides a method for evaluating trailer-mounted shoe repair shop technical performance and safety characteristics relative to suitability for service use. Describes procedures for test preparation, electrical and machine performance tests, electromagnetic compatibility, durability and trailer brake tests, transportability, cabinet assembly water leakage tests, environmental storage tests, safety, maintainability, reliability, human factors, and value analysis. Discusses data reduction and presentation to include a safety statement. Limited to trailer-mounted shoe repair shop as currently designed.

10-2-154

AD-719199

26 May 69

## SHOP EQUIPMENT, GENERAL PURPOSE AND ORGANIZATION REPAIR, VEHICULAR MOUNTED

Provides a method for evaluating vehicular-mounted shop equipment technical performance and safety characteristics relative to suitability for service use. Describes procedures for electrical and performance tests, component compatibility, durability, transportability, cabinet assembly water leakage test, environmental storage tests, safety, electromagnetic compatibility tests, maintainability, reliability, human factors, and value analysis. Discusses data reduction and presentation to include a safety statement. Limited to testing the repair shop as a system, not for testing components.

10-2-160

AD-729600

14 Jul 71

## SLEEPING GEAR

Describes a method for evaluating sleeping gear functional performance characteristics. Provides procedures for test preparation, initial inspection, inventory of basic issue items, physical characteristics, operator training, performance, insulation properties, weight, bulk, compatibility with related equipment, durability, transportability, maintenance, reliability, safety, human factors, value analysis, and quality assurance. Applies to blankets, sleeping bags, quilted pads, air-inflated pads, air mattresses, and sleeping bag and poncho liners. Not applicable to post, camp, and station type sleeping gear.

10-2-165

AD-719200

10 Mar 69

#### SURVIVAL KITS

Provides a method for evaluating survival kit technical performance and safety characteristics relative to suitability for service use. Describes procedures for test preparation, metal and chemical component tests, fabrics tests, transportability, environmental chamber tests, human factors, safety, and value analysis. Discusses data reduction and presentation. Limited to hot and cold climate and overwater survival equipment and components.

10-2-175

AD-719201

Jun 67

#### TENTS AND SHELTERS

Provides a method for evaluating tent and shelter technical performance and safety characteristics. Describes procedures for test preparation, erection and striking, structural stability tests, blackout and illumination test, heating and test chamber water resistance tests, durability and environmental tests, maintainability, reliability, transportability, human factors, and safety. Discusses data reduction and presentation. Not applicable to tests for sound level, ventilation, etc.

10-2-180

AD-719202

11 Apr 69

#### THERMOMETERS

Provides a method for evaluating thermometer technical performance and characteristics. Describes procedures for test preparation, accuracy, stabilization, resolution, and solar radiation effects. Discusses data reduction and presentation. Not applicable to optical type temperature measuring devices, devices using color changes of a chemical substance to indicate temperatures, sonic thermometers, or radiation thermometers.

10-2-185

AD-873575

30 Jun 70

#### VECTOR CONTROL EQUIPMENT

Provides a method for evaluating vector control equipment technical performance and safety characteristics relative to suitability for service use. Describes procedures for test preparation, chemical analysis, hydrostatic and pneumatic tests, preliminary electrical measurements, operation and performance, electromagnetic interference, durability, balance, transportability, maintenance, safety, human factors, value analysis, and quality assurance. Discusses data reduction and presentation to include a safety confirmation. Not applicable to sleds, carts, and trailers.

10-2-191

AD-719203

4 Dec 68

## BUOYS, MOORING

Provides a method for evaluating mooring buoys technical performance and safety characteristics relative to suitability for service use. Describes procedures for test preparation, operator training, receipt inspection, physical characteristics, leakage tests, transportability, and durability tests, safety, and value analysis. Discusses data reduction and presentation. Limited to mooring buoys of the anchored flotation device type only.

10-2-192

AD-871349

23 Mar 70

## DIVING EQUIPMENT (HELMETS, BELTS, DIVERS DRESS, ETC.)

Provides a method for evaluating diving equipment technical performance and safety characteristics relative to suitability for service use. Describes procedures for test preparation, safety, maintenance, hydrostatic tests, sizing and fitting, donning and removing, performance tests, transportability, stress and accelerated aging tests, magnetic effects tests, human factors, value analysis, and quality assurance. Discusses data reduction and presentation to include a safety confirmation. Limited to equipment worn or used by divers permitting life and function in an underwater environment.

10-2-196

AD-870035

16 Mar 70

## POUCH, COLLECTION AND BURIAL, HUMAN REMAINS

Describes a system for evaluating human remains collection and burial pouch performance characteristics. Provides procedures for test preparation, materiel characteristics, leakage, odor retention, strength, closure wear, environmental storage, decontamination resistance, safety, human factors, and value analysis tests.

10-2-197

AD-719207

15 Jul 69

## PRISONER-OF-WAR IDENTIFICATION KIT

Discusses a method for evaluating prisoner-of-war (POW) identification kit performance characteristics. Provides procedures for test preparation, material characteristics, performance evaluation, environmental effects, shock, safety, maintainability, reliability, transportability, human factors, and value analysis tests.

TECOM Pam 310-4

10-2-198

AD-719208

3 Dec 68

#### LASER SAFETY GOGGLES

Prescribes a system for evaluating laser goggles performance characteristics. Provides procedures for test preparation, physical characteristics, critical wavelength attenuation, visible light transmission, infrared transmittance, ultraviolet transmission, haze, definition, prismatic power, refractive power, fracture resistance, breakage pattern, primary beam exposure, safety, and value analysis tests. Appendixes provide information on control of laser radiation health hazards.

10-2-199

AD-875673

3 Aug 70

#### DECEASED PERSONNEL ID SYSTEMS

Describes a method for evaluating deceased personnel identification systems. Discusses pretest requirements for initial inspection, inventory of basic issue items, physical characteristics, operator training, facilities, and equipment. Provides procedures for technical characteristics, system compatibility, environmental effects, transportability, maintenance, durability, safety, human factors, value analysis, and quality assurance.

10-2-200

AD-741101

4 Mar 72

#### LIFESAVING EQUIPMENT

Describes a method for evaluating lifesaving equipment operational and functional performance characteristics. Identifies supporting tests, facilities, and equipment required. Provides procedures for belt buckle and web strength (life preservers) and buoyancy (lifeboats and liferafts).

10-2-205

AD-720985

26 May 70

#### CLOTHING, COMBAT VEHICLE CREWMAN

Discusses a method for evaluating combat clothing performance characteristics. Provides procedures for initial inspection, physical characteristics, user medical examination, operator training, sizing, fitting, donning, doffing, functional suitability, compatibility, combat effectiveness, waterproofness, launderability, environmental effects, safety, maintenance, human factors, CBR protective capability, value analysis, and quality assurance. Limited to vehicle crewman combat clothing.

10-2-206

AD-872651

24 Jun 70

## BODY ARMOR

Describes a system for evaluating body armor performance characteristics. Provides procedures for test preparation, preoperational inspection, user medical check, controlled field wear, accelerated wear, laundry and cleaning, donning, doffing, adjustment and closure, clothing equipment compatibility, ballistic tests, transportability, maintenance, durability, environmental effects, safety, human factors, value analysis, combat effectiveness, and quality assurance. Applies to infantryman and airman selected area (head to ankles) protection. Excludes head and foot armor.

10-2-207

AD-726351

1 Jun 71

## RATIONS

Prescribes a method for evaluating rations performance characteristics. Provides procedures for test preparation, food preparation, palatability, nutritional evaluation, environmental effects, transportability, durability, reliability, safety, human factors, value analysis, and quality assurance. Appendixes discuss instrumentation, testers, and palatability rating techniques.

10-2-209

AD-719209

29 Nov 67

## FOOD ACCEPTANCE SURVEYS

Provides a method for evaluating Army food acceptability. Describes procedures for selecting survey geographic area, installation, unit, and personnel. Discusses orientation of the survey team and all participants, questionnaire administration, data collection, reduction, and presentation.

10-2-211

AD-725553

28 May 71

## PACKAGING AND CONTAINERS

Describes a system for evaluating packaging and container adequacy. Provides procedures for initial inspection, inventory, physical characteristics, operator training, extent of protection, durability, transportability, maintenance, reliability, safety, human factors, value analysis, and quality assurance. Applies to general equipment packaging and container testing.

10-2-212

AD-725554

9 May 71

## PREPARATION METHODS AND EQUIPMENT - FOOD SERVICE

Describes a system for evaluating food service preparation methods and equipment. Provides procedures for test preparation, food preparation, equipment evaluation, environmental effects, transportability, durability, maintenance evaluation, safety, human factors, value analysis, and quality assurance. Applies to field mess food preparation methods and equipment for standard B rations.

TECOM Pam 310-4

10-2-213

AD-724097

4 Mar 71

#### DIVING EQUIPMENT, SCUBA

Prescribes a method for evaluating scuba performance characteristics. Discusses open-circuit, closed-circuit, and combination (open- and closed-circuit) scuba gear. Provides procedures for test preparation, gas cylinder pressure, knife, watch, compass, face mask, electric lantern, pencil and slate, depth gauge, camera, wet and dry suit, life preserver, storage container, spear gun, scuba system performance characteristics, environmental effects, electromagnetic interference, durability, transportability, maintenance, reliability, safety, human factors, value analysis, and quality assurance. Applies to open- and closed-circuit scuba systems.

10-2-214

AD-AC28308

20 Sep 74

#### LARGE CARGO CONTAINERS

Provides guidance for evaluating physical and performance characteristics of large cargo containers. Covers initial inspection; assembly and coupling; stacking; lifting; restraint; lashing; wall, roof, and floor strength; and racking. Performance tests cover compatibility with other containers, transporting media, and MHE; tests with MHE; engagement, lift, and tiedown tests; cargo loading adaptability, pendulation, shipping and handling; environmental performance tests including high and low temperatures, snowload, salt fog, dust, condensation, shock, extended storage, corrosion, and weatherproofness; and tests for transportability, LOTS, safety, human factors, maintenance evaluation, kits, and electromagnetic interference. Describes types of containers, fittings and attachments, and test facilities. Provides container test requirement checklist.

10-2-215

AD-A055907

31 Mar 78

#### CONTAINERS, HANDLING AND ACCESSORY EQUIPMENT

Describes a method for testing and evaluating handling and accessory equipment for oversized cargo containers. Discusses test planning, preparations for test, inspection, technical performance, beach mobility, LOTS, terminals handling operations, restraint system tests, spreader, sling, and pendant tests. Applies to transporters, truck/tractors, trailers, container handlers, container stuffers, spreader bars, slings and pendants, internal cargo restraint systems, and special devices such as hoppers and powered taglines.

10-2-501

AD-719211

27 Mar 67

#### OPERATOR TRAINING AND FAMILIARIZATION

Describes a system for evaluating general supplies and equipment operator training requirements. Discusses pretest requirements for personnel data and training. Provides procedures for installation/disassembly, organizational maintenance, direct support maintenance, general support maintenance, and adequacy of training.



10-2-502

AD-729853

1 Sep 71

**DURABILITY**

Describes a method for evaluating general supplies and equipment durability characteristics. Provides procedures for initial inspection, inventory of basic issue items, physical characteristics, operator training, checklist and questionnaires, operational/usage exposure, periodic inspection, and postoperation evaluation.

10-2-506

AD-A018236

6 Jan 75  
Cl, 17 Aug 76**BALLISTIC TESTING OF PERSONNEL ARMOR MATERIALS**

Describes methods for evaluating the resistance of personnel armor material to perforation by attacking projectile fragments, simulated fragments, and small arms ammunition. Covers physical characteristics of materials, firing tests for ballistic limits of materials, determination of residual velocities, and environmental conditioning. Not applicable to material in actual armor configuration.

10-2-507

AD-730497

15 Sep 71

**MAINTENANCE EVALUATION**

Describes a system for evaluating general supplies and equipment maintenance/maintainability characteristics. Discusses pretest requirements for receipt inspection, inventory of basic issue items, physical characteristics, operator training, checklists, questionnaires, and maintenance logs. Provides procedures for maintenance calculations, confidence levels, design for maintainability, equipment publications, tools and equipment, repair parts, storage facilities and components, safety, and human factors.

10-2-508

AD-A086990

6 May 80

**SAFETY AND HEALTH HAZARD EVALUATION - GENERAL EQUIPMENT**

Describes development test procedures required to determine whether general equipment is free from design, operational, or maintenance hazards which could prevent accomplishment of intended missions. Provides checklists and a hazard analysis format to assist test personnel in assessing hazards.

10-2-509

AD-A084621

5 May 80

**COLD REGIONS PERFORMANCE TEST OF SNOWSHOES**

Describes procedures and data requirements for evaluating snowshoes. Presents procedures for obtaining data to be used in evaluating snowshoe structural strength, compatibility with other military equipment, and functional characteristics for military use.

TECOM Plan 310-4

10-2-510

AD-A058057

1 May 78

COLD REGIONS ENVIRONMENTAL PROTECTION TEST OF CLOTHING

Prescribes methods for evaluating the protective qualities of clothing developed for cold regions use. Contains procedures for evaluating wind, cold, and snow protection characteristics. Describes facilities and instrumentation requirements for test accomplishment.

10-3-061

AD-729544

1 Aug 71

AVIATION TURBINE FUEL

Prescribes a method for evaluating aviation turbine fuel functional performance characteristics. Provides procedures for initial inspection, transportability, performance characteristics, compatibility with related equipment, durability, weather effects, reliability, safety, human factors, and operator training. Not applicable to liquid storage and transfer facilities and aircraft engines or components used in conjunction with aviation turbine fuels.

10-3-512

AD-A087116

9 May 80

COLD REGIONS ENVIRONMENTAL TEST OF BOOT AND SIMILAR FOOTWEAR

Prescribes methods for evaluating footwear undergoing cold climate testing. Contains procedures for evaluating functional suitability, compatibility with arctic clothing and equipment operation, durability, troop acceptability, maintainability, and safety. Contains facility and instrumentation requirements for testing.

10-4-003

AD-877646

24 Sep 70

GENERAL SUPPLIES AND EQUIPMENT

Provides procedures used in determining the effective storage and operation of supplies and equipment in humid environments. Describes procedures for test preparation, physical and operating characteristics, operational performance, individual equipment suitability, efficiency of tents and shelters, characteristics of clothing, storage effects on armor and related equipment, foodstuff palatability, short-term storage effects on items, long-term (surveillance) storage conditions and related item effects, item security from detection, maintenance, safety, human factors, and value analysis. Discusses data reduction and presentation. Limited to testing general supplies and equipment in the humid tropics.

10-4-004

AD-719258

16 Jul 69

## ARCTIC ENVIRONMENTAL TEST OF RATIONS

Provides procedures used in determining ration acceptability in arctic winter environments. Describes procedures for test preparation, preoperational inspection and physical characteristics of rations, determining consumption acceptability, ration portability, test ration storage, airdrop suitability, human factors, and maintenance. Discusses data reduction and presentation. Limited to testing rations during arctic winters.

10-4-005

AD-867361

26 Nov 69

## ARCTIC ENVIRONMENTAL TEST OF CLOTHING AND SLEEPING EQUIPMENT

Provides procedures used in determining the suitability of clothing and sleeping equipment in arctic winter environments. Describes procedures for test preparation, preoperational inspection and physical characteristics, functional and operational suitability of the test items, suitability for airdrop, human factors, safety, and maintenance. Discusses data reduction and presentation. Limited to testing of clothing and sleeping equipment during arctic winters.

10-4-007

AD-719260

10 Jul 69

## ARCTIC ENVIRONMENTAL TEST OF SKIS AND SNOWSHOES

Provides procedures used in determining the suitability of skis and snowshoes in arctic winter environments. Describes procedures for test preparation, preoperational inspection and physical characteristics, suitability and compatibility of skis and snowshoes during cross-country or ski trail operations, airdrop suitability, human factors, safety, and maintenance. Discusses data reduction and presentation. Limited to testing skis and snowshoes in the arctic.

10-4-008

AD-719261

16 Jun 69

## ARCTIC ENVIRONMENTAL TEST OF INDIVIDUAL LOAD-CARRYING EQUIPMENT

Provides procedures used in determining the performance and suitability of individual load-carrying equipment during arctic winters. Describes procedures for test preparation, preoperational inspection, physical characteristics, functional and operational suitability of the test item, suitability for airdrop, human factors, and maintenance. Discusses data reduction and presentation. Limited to testing individual load-carrying equipment during arctic winters.

10-4-009

AD-867357

28 Nov 69

## ARCTIC ENVIRONMENTAL TEST OF BODY ARMOR AND HELMETS

Provides procedures used in determining the performance, safety, human factors, and characteristics of body armor and helmets in the arctic. Describes procedures for test preparation, preoperational inspection, physical characteristics, item functional suitability, airdrop suitability, human factors, safety, and maintenance. Discusses data reduction and presentation. Limited to testing body armor and helmets under arctic environmental conditions.

10-4-010

AD-719262

17 Jun 69

## ARCTIC ENVIRONMENTAL TEST OF GENERATORS AND GENERATING EQUIPMENT

Provides procedures used in determining the suitability of generators and generating equipment operating in the arctic. Describes procedures for test preparation, preoperational inspection, physical characteristics, cold-starting characteristics, functional and operational suitability, fuel and oil consumption analysis, human factors, and maintenance. Discusses data reduction and presentation. Limited to testing generators in the field and under arctic winter environmental conditions.

10-4-011

AD-719268

19 Aug 69

## ARCTIC ENVIRONMENTAL TEST OF FUEL FILTER/SEPARATORS AND COLLAPSIBLE PETROLEUM STORAGE RESERVOIRS

Provides procedures used in determining the performance of fuel filters/separators and collapsible storage reservoirs in the arctic. Describes procedures for test preparation, preoperational inspection, physical characteristics, transportability, installation of the test item and components, functional and operational suitability, human factors, and maintenance. Discusses data reduction and presentation. Limited to general testing of petroleum handling equipment.

10-4-012

AD-872275

23 Mar 70

## ARCTIC ENVIRONMENTAL TEST OF PETROLEUM HANDLING EQUIPMENT (FUEL PURITY MONITORING EQUIPMENT)

Provides procedures used in determining the performance, safety, and maintenance characteristics of fuel purity monitoring equipment in the arctic. Describes procedures for test preparation, preoperational inspection and physical characteristics, transportability, test item installation, functional and operational suitability, human factors, safety, and maintenance. Discusses data reduction and presentation. Limited to general testing of fuel purity monitoring equipment under arctic environmental conditions.

10-4-013

AD-870542

30 Mar 70

**ARCTIC ENVIRONMENTAL TEST OF PETROLEUM HANDLING EQUIPMENT (POL PUMPING EQUIPMENT, MANIFOLDS, AND METAL STORAGE TANKS)**

Provides procedures for evaluating the performance, human factor aspects, safety characteristics, and maintenance requirements of petroleum handling and associated tools and equipment in the arctic. Describes procedures for test preparation, preoperational inspection, physical characteristics, transportability, installation, functional and operational suitability, human factors, safety, and maintenance. Discusses data reduction and presentation. Limited to general testing of petroleum pumping equipment, manifolds, and metal storage tanks in the arctic environment.

10-4-016

AD-868366

18 Feb 70

**ARCTIC ENVIRONMENTAL TEST OF PETROLEUM HANDLING EQUIPMENT (MOBILE POL STORAGE AND TRANSPORT EQUIPMENT)**

Describes a method for evaluating petroleum handling equipment performance characteristics. Provides procedures for preoperational inspection, physical characteristics, stowage, transportability, installation, functional and operational suitability, human factors, safety, and maintenance evaluation. Applies to general testing under arctic conditions.

10-4-500

AD-719269

25 Jun 69

**ARCTIC PREOPERATIONAL INSPECTION, PHYSICAL CHARACTERISTICS, HUMAN FACTORS, SAFETY, AND MAINTENANCE EVALUATION**

Prescribes a system for evaluating arctic environmental effects on materiel. Provides procedures for test preparation, preoperational inspection, physical characteristics, human factors, safety, and maintenance evaluation. Limited to field testing.

## CHAPTER 6

## DISTRIBUTION LIST

This chapter contains the TOP distribution list which indicates the number of copies, by volume, that using activities need to support current requirements. Submit changes in distribution requirements to Commander, US Army Test and Evaluation Command, ATTN: DRSTE-AD-M, Aberdeen Proving Ground, Maryland 21005.

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PM, Cannon Artillery Weapons Systems US Army Armament Research and Development Command ATTN: DRCPM-CAWS-TE Dover, NJ 07801	-	-	2	2	2	-	-	2	-	-	2

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TECOM INSTALLATIONS AND FIELD OPERATING ACTIVITIES

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US Army Aberdeen Proving Ground

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HQ, Joint US Military Assistance Group - Korea Office of the Assistant Chief of Staff, Dev and Acq (MKDA-D) ATTN: Tech Data APO San Francisco, CA 96301	3	3	3	3	3	3	3	3	3	3	3
Commander US Army Combined Arms Combat Developments Activity ATTN: ATZLCA-DN-PB Fort Leavenworth, KS 66027	1	1	1	1	1	1	1	1	1	1	1

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Director US Army Materiel Systems Analysis Activity ATTN: DRXSY-MP Aberdeen Proving Ground, MD 21005	1	1	1	1	1	1	1	1	1	1	1

The proponent of this pamphlet is the Methodology Improvement Division (Analysis Directorate). Users are invited to send comments to Commander, TECOM, ATTN: DRSTE-AD-M, Aberdeen Proving Ground, Maryland 21005.

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