

STP 11-31S14-SM-TG

**HEADQUARTERS
DEPARTMENT OF THE ARMY**

**Soldier's Manual
and Trainer's Guide**

MOS

31S

**SATELLITE COMMUNICATIONS
SYSTEMS OPERATOR-MAINTAINER**

SKILL LEVELS 1/2/3/4

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SOLDIER'S MANUAL AND TRAINER'S GUIDE

MOS 31S

SATELLITE COMMUNICATIONS SYSTEMS OPERATOR-MAINTAINER

SKILL LEVELS 1/2/3/4

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PREFACE

This publication is for skill levels (SL) 1, 2, 3, and 4 soldiers holding military occupational specialty (MOS) 31S and for trainers and first-line supervisors. It contains standardized training objectives, in the form of task summaries, to train and evaluate soldiers on critical tasks that support unit missions during wartime. Trainers and first-line supervisors should ensure soldiers holding MOS 31S SL 1/2/3/4 have access to this publication. When applicable, a chapter is devoted to listing duty specific tasks or those tasks and skill which are not common to all soldiers in MOS 31S SL 1/2/3/4. It should be made available in the soldier's work area, unit learning center, and unit libraries.

This manual applies to both Active and Reserve Component soldiers.

The proponent for this publication is the Signal School. Send comments and recommendations on DA Form 2028 (*Recommended Changes to Publications and Blank Forms*) directly to Commander, US Army Signal Center and Fort Gordon, ATTN: ATZH-DTI, Fort Gordon, Georgia 30905-5074.

Unless this manual states otherwise, masculine pronouns do not refer exclusively to men.

CHAPTER 1

Introduction

1-1. GENERAL

a. This manual identifies the individual MOS training requirements for soldiers in MOS 31S. Commanders, trainers, and soldiers should use it to plan, conduct, and evaluate individual training in units. This manual is the primary MOS reference to the self-development and training of every 31S soldier.

b. Use this manual with the soldier's manual of common tasks (STP 21-1-SMCT and STP 21-24-SMCT), Army training and evaluation programs (ARTEPs), and FM 25-101, *Battle Focused Training*, to establish effective training plans and programs which integrate soldier, leader, and collective tasks.

1-2. TASK SUMMARIES

a. Task summaries outline the wartime performance requirements of each critical task in the soldier's manual (SM). They provide the soldier proficiency on training. As a minimum, task summaries include information you must know and the skills that you must perform to standards for each task. The format for the task summaries included in this SM is as follows:

(1) **Task Title.** The task title identifies the action to be performed.

(2) **Task Number.** A 10-digit number identifies each task or skill. Include this task number, along with the task title, in any correspondence relating to the task. To determine which tasks are testable at each skill level, refer to Chapter 2, Part 2, Critical Tasks. The first two numbers of the last four of each task DO NOT indicate the skill levels testable for that particular task.

(3) **Conditions.** The task conditions identify all the equipment, tools, references, job aids, and supporting personnel which the soldier needs to perform the task in wartime. This section identifies any environmental conditions that can alter task performance, such as visibility, temperature, and wind. This section also identifies any specific cues or events (a chemical attack or identification of a threat vehicle) which trigger task performance.

(4) **Standards.** The task standards describe how well and to what level you must perform a task under wartime conditions. Standards are typically described in terms of accuracy, completeness, and speed.

(5) **Training and Evaluation.** This section may contain the training information outline (performance steps in ASAT), evaluation preparation, and evaluation guide (performance measures in ASAT). The training information outline/performance steps include detailed training information. The evaluation preparation subsection indicates necessary modification to task performance in order to train and evaluate a task that cannot be trained to the wartime standard under wartime conditions. It may also include special training and evaluation preparation instructions to accommodate these modifications and any instructions that should be given to the soldier before evaluation. The evaluation guide/performance measures identify

the specific actions that the soldier must do to successfully complete the task. These actions are listed in a Pass/Fail format for easy evaluation. Each task contains a feedback statement (Evaluation Guidance in ASAT) that indicates the requirements (for the number of performance measures passed) for receiving a GO on the evaluations.

(6) **References.** This section identifies references that provide more detailed and thorough explanations of task performance requirements than those given in the task summary description.

b. Additionally, some task summaries include safety statements and notes. Safety statements (danger, warning, and caution) alert user to the possibility of immediate death, personal injury, or damage to equipment. Notes provide a small, extra supportive explanation or hint relative to the performance measures.

1-3. SOLDIER'S RESPONSIBILITIES

Each soldier is responsible for performing individual tasks that the first-line supervisor identifies based on the unit's mission essential task list (METL). The soldier must perform the task to the standards listed in the SM. If a soldier has a question about how to do a task, or which tasks in the manual he must perform, it is the soldier's responsibility to ask the first-line supervisor for clarification. The first-line supervisor knows how to perform each task, or can direct the soldier to the appropriate training materials.

1-4. NCO SELF-DEVELOPMENT AND THE SOLDIER'S MANUAL

a. Self-development is one of the key components of the leader development program. It is a planned progressive and sequential program followed by leaders to enhance and sustain their military competencies. It consists of individual study, research, professional reading, practice, and self-assessment. Under the self-development concept, the NCO, as an Army professional, has the responsibility to remain current in all phases of the MOS. The SM is the primary source of the NCO to use in maintaining MOS proficiency.

b. Another important resource for NCO self-development is the Army Correspondence Course Program (ACCP). Soldiers should refer to DA Pamphlet 351-20, *Army Correspondence Course Program Catalog*, for information on enrolling in this program and a list of courses, or write to: Army Institute for Professional Development, US Army Training Support Center, ATTN: ATIC-IPS, Newport News, VA 23628-0001.

c. Unit learning centers are valuable resources for planning self-development programs. They can help access enlisted career maps, training support products, and extension training materials, such as field manuals (FM), technical manuals (TM), and training extension course (TEC) lessons. It is the soldier's responsibility to use these materials to maintain performance.

1-5. TRAINING SUPPORT

This manual includes the following appendixes and information which provide additional training support information.

- (1) Appendix A, Sample Training Support Outline (TSO).
- (2) Appendix B, DA Form 5164-R (Hands-on Evaluation).
- (3) Glossary. The glossary is a single comprehensive list of acronyms, abbreviations, definitions and letter symbols.
- (4) References. This section contains two lists of references, required and related, which support training of all tasks in this SM. Required references are listed in the conditions statement and are required for the soldier to do the task. Related references are materials that provide more detailed information and a more thorough explanation of task performance.

CHAPTER 2

Trainer's Guide (TG)

2-1. GENERAL

a. The TG identifies the essential components of a unit training plan for individual training. Units have different training needs and requirements based on differences in environment, location, equipment, dispersion (actual manning of graphic shops), and similar factors. Therefore, the TG is a guide used for conducting unit training and not as a rigid standard.

b. The TG provides information necessary for planning training requirements for this MOS.

- (1) Identifies subject areas in which to train soldiers.
- (2) Identifies the critical tasks for each subject area.
- (3) Specifies where soldiers are trained.
- (4) Recommends how often each task should be trained to sustain proficiency.
- (5) Recommends a strategy for training soldiers to perform higher level tasks.

2-2. BATTLE FOCUSED TRAINING

As described in FM 25-100, *Training the Force*, and FM 25-101, *Battle Focused Training*, the commander must first define the METL as the basis for unit training. Unit leaders use the METL to identify the collective, leader, and soldier tasks that support accomplishment of the METL. Unit leaders then assess the status of training and lay out the training objective and the plan for accomplishing needed training. After preparing the long- and short-range plans, leaders then execute and evaluate training. Finally, the unit's training preparedness is reassessed and the training management cycle begins again. This process ensures the unit has identified what is important for the wartime mission, the training focus is applied to the necessary training, and training meets established objectives and standards.

2-3. RELATIONSHIP OF SOLDIER TRAINING PUBLICATIONS (STPs) TO BATTLE FOCUSED TRAINING

a. The two key components of enlisted STPs are the TG and SM. The TG and SM give leaders important information to help in the battle focused training process. The TG relates soldier and leader tasks in the MOS and SL to duty positions and equipment. It provides information on where the task is trained, how often training should occur to sustain proficiency, and who in the unit should be trained. As leaders go through the assessment and planning stages, they should use the TG as an important tool in identifying what needs to be trained.

b. The execution and evaluation of soldier and leader training should rely on the Armywide training objective and standards in the SM task summaries. The task summaries ensure that soldiers in any unit or location have the same definition of task performance, and that trainers evaluate the soldiers to the same standard.

c. The following diagram shows the relationship between battle focused training and the use of the TG and SM. The left-hand side of the diagram (taken from FM 25-101) shows the soldier training process, while the right side of the diagram shows how the STP supports each step of this process.



2-4. TRAINER'S RESPONSIBILITIES

Training soldier and leader tasks to standard and relating this training to collective mission-essential tasks is the NCO trainer's responsibility. Trainers use the steps below to plan and evaluate training.

(1) **Identify soldier and leader training requirements.** The NCO determines which tasks soldiers need to train on using the commander's training strategy. The unit's METL and ARTEP and MOS Training Plan (MTP) in the TG are sources for helping the training define the individual training needed.

(2) **Plan the training.** Training for specific tasks can usually be integrated or conducted concurrently with other training or during "slack periods." The unit's ARTEP can assist in identifying soldier and leader tasks that can be trained and evaluated concurrently with collective task training and evaluation.

(3) **Gather the training references and materials.** The SM task summary list all references which can assist the trainer in preparing for the training of that task.

(4) **Determine risk assessment and identify safety concerns.** Analyze the risk involved in training a specific task under the current conditions at the time of scheduled training. Ensure that your training preparation takes into account those cautions, warnings, and dangers associated with each task.

(5) **Train each soldier.** Show the soldier how the task is done to standard and explain step-by-step how to do the task. Give each soldier one chance to do the task step-by-step.

(6) **Emphasize training at mission-oriented protection posture (MOPP) level 4.** Soldiers may have difficulty performing even the very simple tasks in a nuclear/chemical environment. The combat effectiveness of the soldier and the unit can degrade quickly when trying to perform in MOPP4. Practice is the best way to improve and ensure performance.

(7) **Check each soldier.** Evaluate how well each soldier performs the tasks in this manual. Conduct these evaluations during individual training sessions or while evaluating soldier proficiency during the conduct of unit collective tasks. Use the information in the MTP as a guide to determine how often to train the soldier in each task to ensure that soldiers sustain proficiency.

(8) **Record the results.** The leader book referred to in FM 25-101, Appendix B, is used to record task performance and gives the leader total flexibility on the method of recording training. The trainer may use DA Forms 5164-R (Hands-On Evaluation) and 5165-R (Field Expedient Squad Book) as part of the leader book. The forms are optional and locally reproducible. STP 21-24-SMCT contains a copy of the forms and instructions for their use.

(9) **Retrain and evaluate.** Work with each soldier until he can perform the task to specific SM standards.

2-5. EVALUATION GUIDE

An evaluation guide exists for each task summary in the SM. Each evaluation guide contains one or more performance measures that identify what the trainer needs to observe to score a soldier's performance. Each step is clearly identified by a P (pass) and F (fail), located under the result column on each evaluation guide. Some tasks involve a process that the trainer must evaluate an "end product" resulting from doing the task. The following are some general points about using the evaluation guide to evaluate soldiers.

- (1) Review the guide to become familiar with the information on which the soldier will be scored.
- (2) Ensure that the necessary safety equipment and clothing needed for proper performance of the job are on hand at the training site.
- (3) Prepare the test site according to the Conditions section of the task summary. Some tasks contain special evaluation preparation instructions. These instructions tell the trainer what modifications must be made to the job conditions to evaluate the task. Reestablish the test site to the original requirements after evaluating each soldier to ensure that conditions are the same for each soldier.
- (4) Advise each soldier of the information in the Brief Soldier section of the task summary before evaluating.
- (5) Score each soldier according to the performance measures and Evaluation Guidance section in the task summary.
- (6) Record the date and task performance (GO or NO-GO) in the leader book.

2-6. TRAINING TIPS FOR THE TRAINER

a. Prepare yourself.

- (1) Get training guidance from your chain of command on when to train, which soldiers to train, availability of resources, and training site.
- (2) Get the training objective (tasks, conditions, and standards) from the task summary in this manual.
- (3) Ensure you can do the task. Review the task summary and references in the References section. Practice doing the task or, if necessary, have someone train you on the task.
- (4) Choose a training method. Some tasks provide recommended training methods.
- (5) Prepare a training outline consisting of informal notes on what you want to cover during your training session.
- (6) Practice your training presentation.

b. Prepare the resources.

- (1) Obtain the required resources identified in the conditions statement for each task.
- (2) Gather equipment and ensure it is operational.
- (3) Coordinate the use of training aids and devices.
- (4) Prepare the training site according to the conditions statement and Evaluation Preparation section of the task summary, as appropriate.

c. Prepare the soldiers.

- (1) Tell the soldier what task to do and how well it must be done. Refer to the standard statement and Evaluation Preparation section for each task, as appropriate.
- (2) Caution soldiers about safety, environment, and security.
- (3) Provide any necessary training on basic skills that soldiers must have before they can be trained on the task.
- (4) Pretest each soldier to determine who needs training in what areas by having the soldier perform the task. Use DA Form 5164-R and the evaluation guidance in each task summary to make this determination.

d. Train the soldiers who failed the pretest.

- (1) Demonstrate how to do the task or the specific performance steps to those soldiers who could not perform to SM standards. Have soldiers study the appropriate materials.
- (2) Have soldiers practice the task until they can perform it to SM standards.
- (3) Evaluate each soldier using the evaluation guide.
- (4) Provide feedback to those soldiers who fail to perform it to SM standards and have them continue to practice until they can perform to SM standards.

2-7. MOS TRAINING PLAN

One of the key components of the TG is the MOS training plan (MTP). The MTP has two parts to assist the commander in preparing a unit training plan which satisfies integration, cross-train, train-up, and sustainment training requirements for soldiers in this MOS.

(1) Part One of the MTP shows the relationship of an MOS skill level between duty position and critical tasks. These critical tasks are grouped by task commonality into subject areas.

(a) Section I lists subject area numbers and titles used throughout the MTP. These subject areas are used to define the training requirements for each duty position within an MOS.

- **Duty Position column.** This column lists the duty positions of the MOS, by skill level, which have different training requirements.

- **Subject Area column.** This column lists, by numerical key (see Section I), the subject areas a soldier must be proficient in to perform in that duty position.
- **Cross Train column.** This column lists the recommended duty position for which soldiers should be cross trained.
- **Train-up/Merger column.** This column lists the corresponding duty position for the next higher skill level or MOSC the soldier will merge into on promotion.

(b) Section II identifies the total training requirement for each duty position within an MOS and provides a recommendation for cross training and train-up/merger training.

(2) Part Two lists, by general subject areas, the critical tasks to be trained in an MOS and the type of training required (resident, integration, or sustainment).

- **Subject Area column.** This column lists the subject area number and title in the same order as Section I, Part One of the MTP.
- **Task Number column.** This column lists the task numbers for all tasks included in the subject area.
- **Title column.** This column lists the task title for each task in the subject area.
- **Training Location column.** This column identifies the training location where the task is first trained to soldier training publications standards. If the task is first trained to standard in the unit, the word "Unit" will be in this column. If the task is first trained to standard in the training base, it will identify, by brevity code (ANCOC, BNCOC, etc.), the resident course where the task was taught. Figure 2-1 contains a list of training locations and their corresponding brevity codes.

AIT	Advanced Individual Training
UNIT	Trained in the Unit
AFC	Army Functional Course
ASI	Additional Skill Identifier
BNCOC	Basic NCO Course
ANCOC	Advanced NCO Course

Figure 2-1. Training Locations

- **Sustainment Training Frequency column.** This column indicates the recommended frequency at which the tasks should be trained to ensure soldiers maintain task proficiency. Figure 2-2 identifies the frequency codes used in this column.

BA	- Biannually
AN	- Annually
SA	- Semiannually
QT	- Quarterly
MO	- Monthly
BW	- Biweekly
WK	- Weekly

Figure 2-2. Sustainment Training Frequency Codes

- **Sustainment Training Skill Level column.** This column lists the skill levels of the MOS for which soldiers must receive sustainment training to ensure they maintain proficiency to soldier's manual standards.

**MOS TRAINING PLAN
MOS 31S
PART ONE: SUBJECT AREAS AND DUTY POSITIONS**

SECTION I. SUBJECT AREA CODES

Skill Levels 1/2

- 1 Digital Communications Satellite Subsystem (DCSS)
- 2 Satellite Monitoring Subsystem
- 3 SATCOM Terminals AN/FSC-78B(V) and 79A(V), AN/GSC-39B(V) and AN/GSC-52(V)
- 4 Satellite Communications Set AN/USC-28(V)
- 5 Tactical Satellite (TACSAT) Equipment
- 6 Tactical Satellite (TACSAT) Antennas
- 7 SATCOM Signal Administration
- 8 Transportable SATCOM Terminals AN/GSC-49(V) and AN/TSC-86(V)
- 9 Transportable SATCOM Terminal AN/GSC-49(V)
- 10 Satellite Systems/Network Coordinator

Skill Level 3

- 11 SATCOM First Line Site Supervision
- 12 SATCOM Site Administration/Operation
- 13 SATCOM Site Security

Skill Level 4

- 12 SATCOM Site Administration/Operation
- 13 SATCOM Site Security

MOS TRAINING PLAN MOS 31S PART ONE				
SECTION II. DUTY POSITION TRAINING REQUIREMENTS				
SL	DUTY POSITION	SUBJECT AREAS	CROSS-TRAIN	TRAIN-UP MERGER
SL1/2	Satellite Communications Systems Operator-Maintainer	1-7	NA	31S3 Satellite Communications Systems Operator-Maintainer
	Satellite Communications Systems Operator-Maintainer	1-9	NA	31S3 Satellite Communications Systems Operator-Maintainer
	Satellite Communications Systems Operator-Maintainer (ASI)1C	1-7, 10	NA	31S3 Satellite Communications Systems Operator-Maintainer
SL3	Satellite Communications Systems Operator-Maintainer	1-7, 11-13	NA	31S3 Satellite Communications Systems Operator-Maintainer
	Satellite Communications Systems Operator-Maintainer	1-9, 11-13	NA	31S3 Satellite Communications Systems Operator-Maintainer
	Satellite Communications Systems Operator-Maintainer (ASI)1C	1-7, 10-13	NA	31S3 Satellite Communications Systems Operator-Maintainer
SL4	Satellite Communications Systems Operator-Maintainer	1-7, 11-13	NA	31T5 Satellite/Microwave Systems Chief
	Satellite Communications Systems Operator-Maintainer	1-9, 11-13	NA	31T5 Satellite/Microwave Systems Chief
	Satellite Communications Systems Operator-Maintainer (ASI)1C	1-7, 10-13	NA	31T5 Satellite/Microwave Systems Chief

**MOS TRAINING PLAN
31S14
PART TWO. CRITICAL TASKS**

DUTY POSITION TASKS

Skill Levels 1/2/3/4

Subject Area	Task Number	Title	Training Location	Sust Tng Freq	Sust Tng SL
1. Digital Communications Satellite Subsystem (DCSS)	113-583-0404	MAINTAIN DIGITAL COMMUNICATIONS SATELLITE SUBSYSTEM (DCSS)	AIT	QT	1-4
	113-583-3171	PERFORM PMCS ON DCSS	AIT	QT	1-4
	113-583-3256	PERFORM VOICE FREQUENCY (VF) CHANNEL SIGNAL TEST FOR DCSS	UNIT	QT	1-4
	113-590-0143	MAINTAIN MODEM GROUP OM-73(V)/G	AIT	QT	1-4
	113-590-0172	MAINTAIN STANDARDIZED TACTICAL ENTRY POINT (STEP)	AIT	QT	1-4
	113-590-2131	OPERATE MODEM GROUP OM-73(V)/G	AIT	QT	1-4
	113-590-2150	OPERATE STANDARDIZED TACTICAL ENTRY POINT (STEP)	AIT	QT	1-4
	113-606-0001	MAINTAIN DIGITAL MULTIPLEXER SET AN/GSC-24(V)	UNIT	QT	1-4
	113-606-0030	MAINTAIN MULTIPLEXER SET AN/FCC-98(V)	UNIT	QT	1-4
	113-606-0104	PERFORM PMCS ON IDNX	AIT	QT	1-4
	113-606-2054	OPERATE IDNX	AIT	QT	1-4
	113-606-0103	PERFORM PMCS ON MIDAS	AIT	QT	1-4
	113-606-2053	OPERATE MIDAS	AIT	QT	1-4
	113-606-3089	MAINTAIN MIDAS	AIT	QT	1-4
	2. Satellite Monitoring Subsystem	113-590-0142	MAINTAIN SATELLITE MONITORING SUBSYSTEM (DFCS-NT) AN/GSC-51(V)	AIT	QT
113-590-2128		OPERATE SATELLITE MONITORING SUBSYSTEM (DFCS-NT) AN/GSC-51(V)	AIT	QT	1-4
3. SATCOM Terminals AN/FSC-78B(V) and 79A(V), AN/GSC-39B(V) and AN/GSC-52(V)	113-590-0158	MAINTAIN LOW NOISE AMPLIFIER (LNA) SUBSYSTEM, AN/GSC-52(V)	AIT	QT	1-4
	113-590-0159	MAINTAIN TRANSMIT SUBSYSTEM, AN/GSC-52(V)	AIT	QT	1-4
	113-590-0160	MAINTAIN AC POWER DISTRIBUTION SYSTEM, AN/GSC-52(V)	UNIT	QT	1-4
	113-590-0161	MAINTAIN FREQUENCY SUBSYSTEM, AN/GSC-52(V)	AIT	QT	1-4

DUTY POSITION TASKS

Skill Levels 1/2/3/4

Subject Area	Task Number	Title	Training Location	Sust Tng Freq	Sust Tng SL
	113-590-0162	MAINTAIN CONTROL MONITOR AND ALARM (CMA) SUBSYSTEM, AN/GSC-52(V)	AIT	QT	1-4
	113-590-2134	OPERATE MEDIUM SATCOM TERMINAL AN/GSC-52(V) UNDER UNUSUAL CONDITIONS	UNIT	QT	1-4
	113-590-2135	OPERATE MEDIUM SATCOM TERMINAL AN/GSC-52(V)	AIT	QT	1-4
	113-590-2147	OPERATE SATCOM TERMINAL AN/FSC-78B(V), AN/FSC-79A(V), OR AN/GSC-39B(V)	AIT	QT	1-4
	113-590-2148	RESTORE PRIME POWER AFTER A POWER FAILURE AT A MEDIUM SATCOM TERMINAL AN/GSC-52(V)	UNIT	QT	1-4
	113-590-3158	PERFORM PMCS ON MEDIUM SATCOM TERMINAL AN/GSC-52(V)	AIT	QT	1-4
	113-590-3161	PERFORM PMCS ON SATCOM TERMINAL AN/FSC-78B(V), AN/FSC-79A(V), OR AN/GSC-39B(V)	AIT	QT	1-4
	113-590-3162	MAINTAIN SATCOM TERMINAL AN/FSC-78B(V), AN/FSC-79A(V), OR AN/GSC-39B(V)	AIT	QT	1-4
	113-590-3163	MAINTAIN THE ALARM MONITOR GROUP, AN/FSC-78B(V), AN/FSC-79A(V), OR AN/GSC-39B(V)	AIT	QT	1-4
	113-590-3164	MAINTAIN THE SIGNAL GENERATOR GROUP, AN/FSC-78B(V), AN/FSC-79A(V), OR AN/GSC-39B(V)	AIT	QT	1-4
	113-590-3165	MAINTAIN THE FREQUENCY CONVERSION GROUP, AN/FSC-78B(V), AN/FSC-79A(V), OR AN/GSC-39B(V)	AIT	QT	1-4
	113-590-3166	MAINTAIN THE TRANSMITTER GROUP, AN/FSC-78B(V), AN/FSC-79A(V), OR AN/GSC-39B(V)	AIT	QT	1-4
	113-590-3167	MAINTAIN ANTENNA GROUP OE-170/FSC, AN/FSC-78B(V)	AIT	QT	1-4
	113-590-3168	MAINTAIN ANTENNA GROUP OE-222/GSC, AN/GSC-39B(V)	AIT	QT	1-4
	113-596-0224	MAINTAIN ANTENNA SUBSYSTEM, AN/GSC-52(V)	AIT	QT	1-4
	113-600-0013	MAINTAIN TELEPHONE SYSTEM, AN/GSC-52(V)	UNIT	QT	1-4
	113-605-0023	MAINTAIN DOWN-CONVERTER SUBSYSTEM, AN/GSC-52(V)	AIT	QT	1-4
	113-605-0024	MAINTAIN UP-CONVERTER SUBSYSTEM, AN/GSC-52(V)	AIT	QT	1-4
	113-610-2001	OPERATE THE MAINTENANCE KEYBOARD, AN/GSC-52(V)	AIT	QT	1-4
	113-628-2013	REPROGRAM DIGITAL COMPUTER CP-1676/G, AN/GSC-52(V)	UNIT	QT	1-4

DUTY POSITION TASKS

Skill Levels 1/2/3/4

Subject Area	Task Number	Title	Training Location	Sust Tng Freq	Sust Tng SL
4. Satellite Communications Set AN/USC-28(V)	113-583-0393	MAINTAIN PROGRAMMABLE CONTROLLER (PC), AN/USC-28(V)	AIT	QT	1-4
	113-583-0405	MAINTAIN SATCOM SET AN/USC-28(V)	AIT	QT	1-4
	113-583-2609	PERFORM PRE-NETWORK OPERATIONAL TESTING, AN/USC-28(V)	UNIT	QT	1-4
	113-583-2610	PERFORM CONTROL SYNCHRONIZATION UNIT (CSU) NETWORK OPERATIONS, AN/USC-28(V)	AIT	QT	1-4
	113-583-2611	PERFORM COMMUNICATIONS RECEIVER-TRANSMITTER (COMM R/T) OPERATIONS, AN/USC-28(V)	AIT	QT	1-4
	113-583-3163	PERFORM PMCS ON AN/USC-28(V)	AIT	QT	1-4
	113-590-0144	MAINTAIN DSCS ECCM CONTROL SYSTEM DECS REMOTE COMPONENT (DECS-RC), AN/GSC-63	AIT	QT	1-4
	113-590-2002	OPERATE DSCS ECCM CONTROL SYSTEM (DECS) REMOTE COMPONENT (DECS-RC), AN/GSC-63	AIT	QT	1-4
5. Tactical Satellite (TACSAT) Equipment	113-589-0024	MAINTAIN ECHO SUPPRESSOR MX-9635/TSC	UNIT	QT	1-4
	113-589-0026	MAINTAIN MODEM MD-945/TSC	AIT	QT	1-4
	113-589-0028	MAINTAIN ELECTRONIC FREQUENCY CONVERTER CV-3198B/TSC OR CV-3201B/TSC	AIT	QT	1-4
	113-589-0030	MAINTAIN LOW NOISE AMPLIFIER (LNA) CONTROL/TRANSLATOR	AIT	QT	1-4
	113-589-0034	MAINTAIN DUAL CAPABILITY SERVO CONTROL UNIT (DCSCU)	AIT	QT	1-4
	113-589-0035	MAINTAIN ORDERWIRE RT-1287/TSC	AIT	QT	1-4
	113-589-0036	MAINTAIN FAULT ALARM MONITOR UNIT (FAMU)	AIT	QT	1-4
	113-589-0037	MAINTAIN RADIO FREQUENCY AMPLIFIER AM-6701/TSC AND POWER SUPPLY PP-7086/TSC	AIT	QT	1-4
	113-589-0042	RESTORE TACTICAL SATELLITE TERMINAL EQUIPMENT AFTER COMMUNICATIONS FAILURE	AIT	QT	1-4
	113-589-1003	INSTALL SATELLITE COMMUNICATIONS TERMINAL AN/TSC-85B(V) OR AN/TSC-93B(V)	AIT	QT	1-4
	113-589-2008	OPERATE SATELLITE COMMUNICATIONS TERMINAL AN/TSC-85B(V) OR AN/TSC-93B(V)	AIT	QT	1-4

DUTY POSITION TASKS

Skill Levels 1/2/3/4

Subject Area	Task Number	Title	Training Location	Sust Tng Freq	Sust Tng SL
	113-589-3025	PERFORM PMCS ON AN/TSC-85B(V) OR AN/TSC-93B(V)	AIT	QT	1-4
	113-601-3018	PERFORM PMCS ON 15 KW GENERATOR SET PU-405A	AIT	QT	1-4
	113-601-3021	PERFORM PMCS ON 10 KW GENERATOR SET PU-753/M	UNIT	QT	1-4
	113-605-0015	MAINTAIN TELEPHONE SIGNAL CONVERTER CV-1548/G	UNIT	QT	1-4
	113-606-0002	MAINTAIN MULTIPLEXER, DIGITAL TD-1337/G(V)	AIT	QT	1-4
	113-606-0091	MAINTAIN LOW RATE MULTIPLEXER (LRM) TD-1389/G(V)	AIT	QT	1-4
	113-606-0102	MAINTAIN DIGITAL DATA MODEM MD-1026(P)/G	AIT	QT	1-4
	113-606-2049	OPERATE LOW RATE MULTIPLEXER (LRM) TD-1389/G(V)	AIT	QT	1-4
	113-606-2050	PROGRAM MULTIPLEXER DIGITAL TD-1337/G(V)	AIT	QT	1-4
6. Tactical Satellite (TACSAT) Antennas	113-596-1092	ASSEMBLE 20-FOOT ANTENNA AS-3199/TSC	UNIT	QT	1-4
	113-596-1093	DISASSEMBLE 20-FOOT ANTENNA AS-3199/TSC	UNIT	QT	1-4
	113-596-1094	PERFORM PMCS ON 20-FOOT ANTENNA, AS-3199/TSC	UNIT	QT	1-4
	113-596-1095	ASSEMBLE QUICK ERECT ANTENNA	UNIT	QT	1-4
	113-596-1096	DISASSEMBLE QUICK ERECT ANTENNA	UNIT	QT	1-4
	113-596-1097	PERFORM PMCS ON QUICK ERECT ANTENNA	UNIT	QT	1-4
7. SATCOM Signal Administration	113-590-6000	PREPARE SATCOM TERMINAL REPORT FOR THE DSCS OPERATIONS CENTER (DSCSOC)	AIT	QT	1-4
	113-590-6001	PREPARE HAZARDOUS CONDITIONS (HAZCON) REPORT	AIT	QT	1-4
	113-623-2016	PREPARE SATCOM EQUIPMENT REPORT (SER)	AIT	QT	1-4
8. Transportable SATCOM Terminals AN/GSC-49(V) and AN/TSC-86(V)	113-590-0135	MAINTAIN POWER DISTRIBUTION, AN/TSC-86(V)	UNIT	QT	1-4
	113-590-0137	MAINTAIN UP-CONVERTER CV-3199/TSC, AN/TSC-86(V)	UNIT	QT	1-4
	113-590-0138	MAINTAIN AMPLIFIER/MIXER ASSEMBLY AM-6704/TSC, AN/TSC-86(V)	UNIT	QT	1-4

DUTY POSITION TASKS

Skill Levels 1/2/3/4

Subject Area	Task Number	Title	Training Location	Sust Tng Freq	Sust Tng SL
	113-590-0140	MAINTAIN DOWN-CONVERTER CV-3200/TSC, AN/TSC-86(V)	UNIT	QT	1-4
	113-590-0141	MAINTAIN ALARM MONITOR PANEL BZ-236/TSC, AN/TSC-86(V)	UNIT	QT	1-4
	113-590-1005	INSTALL TRANSPORTABLE SATCOM TERMINAL AN/GSC-49(V) OR AN/TSC-86(V)	UNIT	QT	1-4
	113-590-2045	MAINTAIN SATELLITE COMMUNICATIONS (SATCOM) TERMINAL AN/TSC-86(V)	UNIT	QT	1-4
	113-590-2047	ESTABLISH SITE-TO-SITE COMMUNICATIONS WITH AN AN/TSC-86(V) TERMINAL	UNIT	QT	1-4
	113-590-3128	PERFORM OPERATOR/CREW PMCS ON AN/TSC-86(V)	UNIT	QT	1-4
	113-605-0022	MAINTAIN ANALOG/DIGITAL CONVERTER CV-3034A/G, AN/TSC-86(V)	UNIT	QT	1-4
9. Transportable SATCOM Terminal AN/GSC-49(V)	113-590-0112	MAINTAIN FAULT ALARM MONITOR UNIT (FAMU), AN/GSC-49(V)	AFC	QT	1-4
	113-590-0113	MAINTAIN RADIO FREQUENCY AMPLIFIER OR HIGH POWER AMPLIFIER (HPA), AN/GSC-49(V)	AFC	QT	1-4
	113-590-0114	MAINTAIN HIGH VOLTAGE POWER SUPPLY (HVPS), AN/GSC-49(V)	AFC	QT	1-4
	113-590-0115	MAINTAIN UP-CONVERTER, AN/GSC-49(V)	AFC	QT	1-4
	113-590-0116	MAINTAIN RADIO FREQUENCY POWER MONITOR/POWER DENSITY TRACKER, AN/GSC-49(V)	AFC	QT	1-4
	113-590-0118	MAINTAIN LNA CONTROL/TRANSLATOR, AN/GSC-49(V)	AFC	QT	1-4
	113-590-0119	MAINTAIN DOWN-CONVERTER, AN/GSC-49(V)	AFC	QT	1-4
	113-590-0120	MAINTAIN WAVEGUIDE AND COMBINER ASSEMBLY, AN/GSC-49(V)	AFC	QT	1-4
	113-590-0123	MAINTAIN POWER DISTRIBUTION, AN/GSC-49(V)	AFC	QT	1-4
	113-590-0124	MAINTAIN FREQUENCY STANDARD SUBGROUP, AN/GSC-49(V)	AFC	QT	1-4
	113-590-0163	MAINTAIN SATCOM TERMINAL AN/GSC-49(V)	AFC	QT	1-4
	113-590-2137	OPERATE SATCOM TERMINAL AN/GSC-49(V)	AFC	QT	1-4
	113-590-3153	PERFORM PMCS ON SATCOM TERMINAL AN/GSC-49(V)	AFC	QT	1-4

DUTY POSITION TASKS

Skill Levels 1/2/3/4

Subject Area	Task Number	Title	Training Location	Sust Tng Freq	Sust Tng SL
10. Satellite Systems/ Network Coordinator	113-581-2267	DEFINE SATELLITE NETWORK SCENARIO ON DOSS, AN/FYQ-110	ASI	QT	1-4
	113-581-2270	PERFORM GEOMETRIC CALCULATIONS ON DOSS, AN/FYQ-110	UNIT	QT	1-4
	113-581-2275	COMMUNICATE WITH SCCE USING DOSS, AN/FYQ-110	ASI	QT	1-4
	113-581-2282	PERFORM ANALYSIS OF REPORT AND PLOTS FROM DOSS, AN/FYQ-110	ASI	QT	1-4
	113-581-2286	PERFORM ANALYSIS OF REPORTS USING DASA, AN/FSQ-142	ASI	QT	1-4
	113-583-2603	CHARACTERIZE SATELLITE LINK USING DOSS, AN/FYQ-110 AND DASA, AN/FSQ-142	ASI	QT	1-4
	113-590-0166	MAINTAIN DSCS ECCM CONTROL SUBSYSTEM-CENTRAL COMPONENT (DECS-CC) AN/FSC-115	ASI	QT	1-4
	113-590-0167	MAINTAIN RADIO FREQUENCY INTERFACE SUBSYSTEM (RFIS) AN/FSQ-150	UNIT	QT	1-4
	113-590-0168	MAINTAIN PATCH AND TEST FACILITY (PTF) AN/FSC-160(V)	UNIT	QT	1-4
	113-590-0169	MAINTAIN FREQUENCY CONVERSION SUBSYSTEM (FCS) AN/FSQ-158(V)	UNIT	QT	1-4
	113-590-0170	MAINTAIN SATELLITE MONITORING SYSTEM, DFCS-NCT, AN/FSC-96	UNIT	QT	1-4
	113-590-0171	PERFORM COMMUNICATIONS PAYLOAD CONTROL	UNIT	QT	1-4
	113-590-2112	OPERATE RECEIVER-TRANSMITTER GROUP ORDERWIRE OZ-52/G	ASI	QT	1-4
	113-590-2139	MONITOR DOWNLINK USING DASA, AN/FSQ-142	ASI	QT	1-4
	113-590-2142	OPERATE DECS-CC, AN/FSC-115	UNIT	QT	1-4
	113-590-2143	OPERATE RADIO FREQUENCY INTERFACE SUBSYSTEM (RFIS) AN/FSQ-150	ASI	QT	1-4
	113-590-2144	OPERATE PATCH AND TEST FACILITY (PTF), AN/FSC-160(V)	ASI	QT	1-4
	113-590-2145	OPERATE FREQUENCY CONVERSION SYSTEM (FCS), AN/FSQ-158(V)	ASI	QT	1-4
	113-590-2146	OPERATE SATELLITE MONITORING SYSTEM DFCS-NCT, AN/FSC-96	ASI	QT	1-4
	113-590-2149	OPERATE SMART MULTICIRCUIT TERMINAL (SMCT) II, AN/FGQ-13	ASI	QT	1-4
113-590-3160	PERFORM PMCS ON DECS-CC, AN/FSC-115	ASI	QT	1-4	
11. SATCOM First Line Site Supervision	113-590-1004	PERFORM SITE SELECTION FOR TRANSPORTABLE SATELLITE TERMINAL AN/GSC-49(V) OR AN/TSC-86(V)	BNCOC	QT	3-4
	113-623-7003	INSPECT MAINTENANCE FORMS FOR PROPER COMPLETION	BNCOC	MO	3-4

DUTY POSITION TASKS

Skill Levels 1/2/3/4

Subject Area	Task Number	Title	Training Location	Sust Tng Freq	Sust Tng SL
	113-623-7141	SUPERVISE THE MAINTENANCE AND REPAIR OF SIGNAL EQUIPMENT IN YOUR SECTION/SHOP	BNCOC	MO	3-4
	113-623-7155	MAINTAIN A PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS) PROGRAM	BNCOC	MO	3-4
12. SATCOM Site Administration/ Operation	113-589-7118	INSPECT THE INSTALLATION OF AN/TSC-85B(V) OR AN/TSC-93B(V)	BNCOC	QT	3-4
	113-590-6002	PREPARE PRODUCT QUALITY DEFICIENCY REPORT (PQDR)	BNCOC	QT	3-4
	113-616-1019	IMPLEMENT TELECOMMUNICATIONS SERVICE ORDERS (TSOs) IN A SATCOM FACILITY	BNCOC	QT	3-4
	121-004-1227	ESTABLISH FILES	BNCOC	QT	3-4
	113-613-4001	MAINTAIN SITE CONFIGURATION PLANS	UNIT	QT	4
	121-004-3528	REVIEW FILES	UNIT	MO	4
13. SATCOM Site Security	113-379-7001	INSPECT KEY CONTROL	ANCOC	QT	4
	113-573-1002	EVALUATE THE RESULTS OF FACILITY PHYSICAL SECURITY INSPECTION	ANCOC	MO	4
	113-573-2032	EVALUATE COMMUNICATIONS SECURITY (COMSEC) FOR INSECURITIES	ANCOC	QT	4
	113-611-1013	PERFORM SITE RECONNAISSANCE	UNIT	QT	4
	113-611-5012	MAINTAIN A SITUATION MAP	UNIT	QT	4
	113-611-5016	DIRECT THE ESTABLISHMENT OF A SIGNAL SITE DEFENSE	UNIT	QT	4

CHAPTER 3

MOS/Skill Level Tasks

Skill Level 1

Subject Area 1: Digital Communications Satellite Subsystem (DCSS)

MAINTAIN DIGITAL COMMUNICATIONS SATELLITE SUBSYSTEM (DCSS)

113-583-0404

Conditions: Given DCSS, DA Pam 738-750, DISAC 800-70-1, TM 11-5895-1008-13-1, TM 11-5895-1008-13-2, and DA Forms 2404 and/or 2407.

Standards: The standards are met when the subsystem is restored to a fully mission capable (FMC) status.

Performance Measures	Results	
1. Verify DCSS alarm on DCSS control and status (local or remote). (Refer to TM 11-5895-1008-13-2.)	P	F
2. Determine if it is a major DCSS component fault or a power/temperature fault. (Refer to TM 11-5895-1008-13-2.)	P	F
3. Localize fault to the lowest replaceable unit (LRU) or component. (Refer to TM 11-5895-1008-13-2.)	P	F
4. Perform link bit error rate (BER) measurements as directed by the satellite network controller (SNC). (Refer to DISAC 800-70-1 or TM 11-5895-1008-13-1 and TM 11-5895-1008-13-2.)	P	F
5. Restore communications with redundant DCSS components. Reconfigure communications IAW DISAC 800-70-1 and TM 11-5895-1008-13-1 prior to system being placed on-line.	P	F
6. Verify communications are restored and all DCSS alarm conditions are corrected IAW DISAC 800-70-1, TM 11-5895-1008-13-1, and TM 11-5895-1008-13-2.	P	F
7. Complete DA Form 2404 and/or DA Form 2407. (Refer to DA Pam 738-750.)	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

- DA Pam 738-750
- DISAC 800-70-1
- TM 11-5895-1008-13-1
- TM 11-5895-1008-13-2

Related

**PERFORM PMCS ON DCSS
113-583-3171**

Conditions: Given DCSS, modified pliers (protector tool), lint-free cloth, oval sash brush, DA Pam 738-750, TM 11-5895-1008-13-1, and DA Form 2404.

Standards: The standards are met when no alarms or defects are recorded on DA Form 2404.

Performance Measures

Results

NOTE: During PMCS, stop operation immediately if a defect is discovered which would damage equipment.

- | | | |
|---|---|---|
| 1. Perform checks and services as listed in PMCS chart. | P | F |
| 2. Clean equipment as specified in TM. | P | F |
| 3. Record PMCS results on DA Form 2404. | P | F |

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

DA Pam 738-750

TM 11-5895-1008-13-1

Related

**PERFORM VOICE FREQUENCY (VF) CHANNEL SIGNAL TEST FOR DCSS
113-583-3256**

Conditions: Given multiplexer AN/FCC-98(V) in a DCSS, transmission test set AN/USM-485, and TM 11-5895-1008-13-2.

Standards: The standards are met when the VF channel test is performed and channel level is correct as stated in the TSO.

Performance Measures	Results	
1. Connect test equipment for channel under test.	P	F
2. Set transmission test set controls.	P	F
3. Check level for proper reading. If not correct, adjust RCV CHAN GAIN potentiometer to correct level. Correct level is determined by the TSO for the circuit under test.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

TM 11-5895-1008-13-2

Related

**MAINTAIN MODEM GROUP OM-73(V)/G
113-590-0143**

Conditions: Given a defective modem group OM-73(V)/G, DA Pam 738-750, TM 11-5895-1346-13, and DA Forms 2404 and/or 2407.

Standards: The standards are met when the LRU is replaced and the modem passes the self-test and is passing communications.

Performance Measures	Results	
1. Perform power-up self-test.	P	F
2. First major alarm.	P	F
3. Subsequent alarms.	P	F
4. Minor alarms.	P	F
5. Commanded self-test.	P	F
6. Corrective action.	P	F
7. Perform operational check.	P	F
8. Complete DA Form 2404 and/or DA Form 2407.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

DA Pam 738-750

TM 11-5895-1346-13

Related

**MAINTAIN STANDARDIZED TACTICAL ENTRY POINT (STEP)
113-590-0172**

Conditions: Given a STEP system, TM 11-5895-1215-10, TM 11-7025-221-10, DA Pam 738-750, and DA Forms 2404 and/or 2407.

Standards: The standards are met when STEP equipment and communications are operational.

Performance Measures	Results	
1. Verify STEP equipment alarms.	P	F
a. Reset minor alarms (glitches and hits in the network).	P	F
b. Isolate major alarms (lost of lock/equipment failure).	P	F
2. Notify controller of equipment failure.	P	F
3. Localize fault to the LRU.	P	F
4. Restore communications with redundant STEP equipment.	P	F
a. Prepare spare equipment for operation per unit mission and TSO.	P	F
b. Make proper patch connection at STEP and/or data patch panels.	P	F
5. Verify communication is restored and all alarm conditions are corrected.	P	F
6. Troubleshoot defective equipment and complete DA Form 2404 and/or DA Form 2407.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

- DA Pam 738-750
- TM 11-5895-1215-10
- TM 11-7025-221-10

Related

**OPERATE MODEM GROUP OM-73(V)/G
113-590-2131**

Conditions: Given a modem group OM-73(V)/G and TM 11-5895-1346-13.

Standards: The standards are met when the OM-73(V)/G passes all operational tests and is passing communications.

Performance Measures	Results	
1. Prepare/assemble modem group OM-73(V)/G for operation.	P	F
2. Perform power-up/built-in test (BIT).	P	F
3. Perform alarm monitoring BIT.	P	F
4. Perform initiated (commanded) self-test.	P	F
5. Obtain channel BER and Eb/No measurement.	P	F
6. Perform local commands.	P	F
7. Edit the modem configuration.	P	F
8. Edit the controller configuration.	P	F
9. Verify modem operation.	P	F
10. Obtain link (end-to-end) BER.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

TM 11-5895-1346-13

Related

**OPERATE STANDARDIZED TACTICAL ENTRY POINT (STEP)
113-590-2150**

Conditions: Given a low rate multiplexer (LRM) TD-1389(P)(V)/G, digital multiplexer TD-1337(V)/G, trunk encryption device (TED) KG-81, GMF gateway (STEP) patch panel (rack type 40), TM 11-5895-1215-10, and TM 11-7025-221-10.

Standards: The standards are met when the LRM TD-1389(P)(V)/G and TD-1337(V)/G are operational.

Performance Measures	Results	
NOTE: Refer to TM 11-5895-1215-10 for TD-1389(P)(V)/G and TM 11-7025-221-10 for TD-1337(P)(V)/G. HDR: Set up the LRM TD-1389(V)/G.		
1. Perform power turn-on procedure.	P	F
2. Perform system mode change procedure.	P	F
3. Perform memory display procedure.	P	F
4. Perform memory copy procedure.	P	F
5. Perform restart procedure.	P	F
6. Perform composite loopback procedure.	P	F
7. Perform user card loopback procedure.	P	F
8. Perform remote control enable/disable procedure.	P	F
9. Perform on-line polarity changes of data clock signal procedure.	P	F
10. Perform audible alarm enable/disable procedure.	P	F
11. Perform nonvolatile memory clearing procedure.	P	F
12. Perform configuration procedures.	P	F
NOTE: HDR: Program digital multiplexer TD-1337(V)/G.		
13. Perform power turn-on procedures.	P	F
14. Perform system mode change procedure.	P	F
15. Answer orderwire (OW) call routine.	P	F
16. Change OW routine.	P	F
17. Composite rate display routine.	P	F
18. Perform VCXO status display routine.	P	F
19. Display test routine.	P	F
20. Perform 5-minute audible alarm inhibit routine.	P	F
21. Use configuration routines.	P	F
NOTE: Make GMF gateway (STEP) patch connections.		
22. Patch LRM TD-1389(P)(V)/G unit to KG-81 unit.	P	F
a. TD-1389(P)(V)/G to KG-81.	P	F
b. DO TxP.	P	F
c. CO TxC.	P	F
d. DI RxP.	P	F

Performance Measures	Results	
e. CI RxC.	P	F
23. Patch KG-81 unit to digital multiplexer TD-1337(V)/G.	P	F
a. KG-81 to TD-1337(V)/G.	P	F
b. Txcy ... DI.	P	F
c. TxC CI.	P	F
d. Rxcy ... DO.	P	F
e. RxC CO.	P	F
NOTE: The TD-1337 output format is unbalanced nonreturn to zero (NRZ) and the DCSS modems require balanced NRZ. Patching the TD-1377 into data level adjust (DLA) converts the unbalanced format to a balanced format.		
24. Patch the TD-1337 system aggregate to the system unbalanced data DLA.	P	F
a. SYS# AGGR.....SYS# UNBAL.	P	F
b. TD-1337...TO...DATA DLA.	P	F
c. DO DI.	P	F
d. CO CI.	P	F
e. DI DO.	P	F
f. CI CO.	P	F
25. Patch output of DLA to appropriate trunk unit.	P	F
a. BAL DATA SYS 3 TO TRUNK UNIT.	P	F
b. DO 1.	P	F
c. CO 2.	P	F
d. DI 3.	P	F
e. CI 4.	P	F
26. Patch the trunk unit to the designated modem.	P	F
a. TRUNK UNIT TO MODEM.	P	F
b. 1 DI.	P	F
c. 2 CI.	P	F
d. 3 DO.	P	F
e. 4 CO.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

TM 11-5895-1215-10

TM 11-7025-221-10

Related

**MAINTAIN DIGITAL MULTIPLEXER SET AN/GSC-24(V)
113-606-0001**

Conditions: Given a defective multiplexer set AN/GSC-24(V), DA Pam 738-750, TM 11-5805-688-14-1, and DA Forms 2404 and/or 2407.

Standards: The standards are met when the multiplexer set passes the self-test.

Performance Measures	Results	
1. Visually check the multiplexer set front panel display for fault indications in the automatic mode.	P	F
2. Perform test procedures in the self-test mode.	P	F
3. Perform test procedures in the lamp test mode.	P	F
4. Isolate malfunctions to the LRU.	P	F
5. Replace the LRU.	P	F
6. Perform self-test.	P	F
7. Complete DA Form 2404 and/or DA Form 2407.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

DA Pam 738-750
TM 11-5805-688-14-1

Related

MAINTAIN MULTIPLEXER SET AN/FCC-98(V)
113-606-0030

Conditions: Given a multiplexer set AN/FCC-98(V), built-in test equipment (BITE) cables as specified by TM, DA Pam 738-750, TM 11-5805-711-13, and DA Forms 2404 and/or 2407.

Standards: The standards are met when the AN/FCC-98(V) passes the self-test.

Performance Measures	Results	
1. Check multiplexer front panel for fault indications.	P	F
2. Use troubleshooting chart to determine defective module.	P	F
3. Isolate defective module.	P	F
4. Replace defective module.	P	F
5. Perform self-test.	P	F
6. Complete DA Form 2404 and/or DA Form 2407.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

DA Pam 738-750
TM 11-5805-711-13

Related

**PERFORM PMCS ON IDNX
113-606-0104**

Conditions: Given an IDNX system with computer interface, TS-4465/G test set, lint-free cloth, oval sash brush, DA Pam 738-750, and applicable IDNX commercial manuals.

Standards: The standards are met when no alarms or defects are recorded on DA Form 2404.

Performance Measures	Results
1. Perform checks and services as listed in PMCS chart.	P F
2. Clean equipment as specified in manual.	P F
3. Record PMCS results on DA Form 2404.	P F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required
DA Pam 738-750
IDNX MANUAL

Related

OPERATE IDNX
113-606-2054

Conditions: Given an IDNX system, IDNX commercial manuals, and applicable TSOs.

Standards: The standards are met when the IDNX passes all operational tests and is passing communications.

Performance Measures	Results	
1. Using the TSO, equip the system with appropriate trunk and port cards.	P	F
2. Configure external equipment to allow the IDNX to access the network.	P	F
3. Using the TSO, configure the ports, port cards, voice compression cards, and (if required) trunk cards.	P	F
4. Enable and activate the ports, port cards, (if required) trunk cards, and (if required) voice compression.	P	F
5. Verify establishment of the link; query the trunk cards and the link.	P	F
6. Perform desired loopback testing across configured circuits.	P	F
7. Verify establishment of calls routed through the ports; query the Call Control Block.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required
Applicable TSO
IDNX MANUAL

Related

PERFORM PMCS ON MIDAS**113-606-0103**

Conditions: Given a MIDAS system with computer interface, TS-4465/G test set, lint-free cloth, oval sash brush, DA Pam 738-750, and applicable TMs.

Standards: The standards are met when no alarms or deficiencies are recorded on DA Form 2404.

Performance Measures	Results	
1. Perform checks and services as listed in PMCS chart.	P	F
2. Clean equipment as specified in TM.	P	F
3. Record PMCS results on DA Form 2404.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required
 APPLICABLE TM
 DA Pam 738-750

Related

OPERATE MIDAS
113-606-2053

Conditions: Given a MIDAS system with computer interface, applicable TMs, applicable TSOs, and operating requirements.

Standards: The standards are met when the MIDAS passes all operational tests and is passing communications.

Performance Measures	Results	
1. Configure chassis with matrix and control cards.	P	F
2. Configure chassis with function cards required by the applicable TSOs.	P	F
3. Configure chassis with the I/O cards required to support circuits.	P	F
4. Configure software to support required TSOs.	P	F
NOTE: Ensure a site license is obtained for each Mux/Demux card placed in AN/FCC-100 mode.		
5. Perform end-to-end and loopback testing as required.	P	F
6. Place circuits on-line.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required
APPLICABLE TM
Applicable TSO

Related

**MAINTAIN MIDAS
113-606-3089**

Conditions: Given a MIDAS system with computer interface, TS-4465/G test set, applicable TMs, DA Pam 738-750, and operating requirements.

Standards: The standards are met when the MIDAS passes all operational and built-in tests and successfully passes communications.

Performance Measures	Results
1. Perform built-in self test.	P F
2. Replace defective LRU.	P F
3. Verify replacement LRU is operational.	P F
4. Complete DA Form 2404 and/or DA Form 2407.	P F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required
 APPLICABLE TM
 DA Pam 738-750

Related

Subject Area 2: Satellite Monitoring Subsystem

**MAINTAIN SATELLITE MONITORING SUBSYSTEM (DFCS-NT) AN/GSC-51(V)
113-590-0142**

Conditions: Given an operational satellite monitoring subsystem AN/GSC-51(V)1 or AN/GSC-51(V)2, electronic tool kit TK-101/G, digital multimeter AN/USM-486/U, fiber optic multimeter for AN/GSC-51(V)2 only, spectrum analyzer AN/USM-491, cables, adapters, connectors, DA Pam 738-750, TM 11-5895-1358-13-1, TM 11-5895-1358-13-2, and DA Forms 2404 and/or 2407.

Standards: The standards are met when the subsystem is restored to normal operation.

Performance Measures	Results	
NOTE: HDR: Troubleshooting at unit level.		
1. Sectionalize fault down to a major component of the subsystem.	P	F
NOTE: HDR: Troubleshooting a major component; localize the fault to the LRU.		
2. Troubleshoot processor group, unit 1.	P	F
3. Troubleshoot control group, unit 2.	P	F
4. Troubleshoot interface extender 1A2-A6.	P	F
5. Troubleshoot optical converter (AN/GSC-51(V)2).	P	F
NOTE: HDR: Troubleshooting at intermediate direct support (DS) level.		
6. Sectionalize fault down to a major component of the subsystem.	P	F
NOTE: HDR: Troubleshooting a major component; localize the fault to the LRU, replace the LRU, and return system to normal operation.		
7. Troubleshoot processor group, unit 1.	P	F
8. Troubleshoot control group, unit 2.	P	F
9. Troubleshoot base assembly, unit 3.	P	F
10. Troubleshoot interface extender 1A2-A6.	P	F
11. Troubleshoot optical converter (AN/GSC-51(V)2).	P	F
12. Troubleshoot cable assemblies W1, 2, and 3.	P	F
13. Troubleshoot mainframe 1A12A7.	P	F
14. Troubleshoot power supply 1A12PS1 and 2.	P	F
15. Troubleshoot converter modem 1A12A1.	P	F
16. Troubleshoot NT fiber optic cable assembly.	P	F
17. Complete DA Form 2404 and/or DA Form 2407.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

DA Pam 738-750

TM 11-5895-1358-13-1

TM 11-5895-1358-13-2

Related

**OPERATE SATELLITE MONITORING SUBSYSTEM (DFCS-NT) AN/GSC-51(V)
113-590-2128**

Conditions: Given a SATCOM site equipped with satellite monitoring subsystem AN/GSC-51(V)1 or AN/GSC-51(V)2, TM 11-5895-1358-13-1, and TM 11-5895-1358-13-2.

Standards: The standards are met when normal operations are maintained. This includes carrier performance, equipment status, database monitoring, monitoring of alarms, identification, calibration, and power control.

Performance Measures	Results	
NOTE: HDR: Subsystem initialization.		
1. Initialize network terminal (NT).	P	F
2. Configure link.	P	F
3. Perform calibrations.	P	F
4. Characterize link.	P	F
5. Enter operator data.	P	F
NOTE: HDR: Operate under usual conditions.		
6. Monitor carrier performance.	P	F
7. Monitor link plot.	P	F
8. Monitor AN/GSC-51(V)1 or (V)2 equipment status.	P	F
9. Monitor link database.	P	F
10. Configure receive link.	P	F
11. Configure transmit link.	P	F
12. Configure NT monitor link.	P	F
13. Characterize receive link.	P	F
14. Characterize terminal link.	P	F
15. Calibrate control.	P	F
16. Set NT control.	P	F
17. Set engineering parameters.	P	F
18. Set power control.	P	F
19. Set automatic control.	P	F
20. Set spectrum analyzer backup mode.	P	F
21. Configure NT manual control.	P	F
22. Configure local equipment.	P	F
23. Configure alarms and notification.	P	F
NOTE: HDR: Operate under unusual conditions.		
24. Operate satellite monitoring subsystem AN/GSC-51(V)1 or (V)2 with a disk drive failure.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

TM 11-5895-1358-13-1

TM 11-5895-1358-13-2

Related

Subject Area 3: SATCOM Terminals AN/FSC-78B(V) and 79A(V), AN/GSC-39B(V) and AN/GSC-52(V)

**MAINTAIN LOW NOISE AMPLIFIER (LNA) SUBSYSTEM, AN/GSC-52(V)
113-590-0158**

Conditions: Given a defective AN/GSC-52(V) LNA subsystem; TMDE and tools as listed in appropriate TM(s); TM 11-5895-1196-13-2, TM 11-5895-1196-13-3, TM 11-5895-1196-13-5, and TM 11-5895-1196-13-6 or TM 11-5895-1197-13-3, TM 11-5895-1197-13-4, TM 11-5895-1197-13-6, and TM 11-5895-1197-13-7; DA Pam 738-750; and DA Forms 2404 and/or 2407.

Standards: The standards are met when the equipment is operational.

Performance Measures	Results	
1. Determine if the LNA subsystem is functioning.	P	F
2. Verify the symptom.	P	F
3. Visually inspect all components and cables.	P	F
4. Sectionalize, localize, and/or isolate the trouble to the LRU.	P	F
5. Repair by removal/replacement or alignment/adjustment.	P	F
6. Test/operate.	P	F
7. Complete DA Form 2404 and/or DA Form 2407.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

- DA Pam 738-750
- TM 11-5895-1196-13-2
- TM 11-5895-1196-13-3
- TM 11-5895-1196-13-5
- TM 11-5895-1196-13-6
- TM 11-5895-1197-13-3
- TM 11-5895-1197-13-4
- TM 11-5895-1197-13-6
- TM 11-5895-1197-13-7

Related

**MAINTAIN TRANSMIT SUBSYSTEM, AN/GSC-52(V)
113-590-0159**

Conditions: Given a defective AN/GSC-52(V) transmit subsystem; TMDE and tools as listed in appropriate TMs; TM 11-5895-1196-13-2, TM 11-5895-1196-13-3, TM 11-5895-1196-13-5, and TM 11-5895-1196-13-6 or TM 11-5895-1197-13-3, TM 11-5895-1197-13-4, TM 11-5895-1197-13-6, and TM 11-5895-1197-13-7; DA Pam 738-750; and DA Forms 2404 and/or 2407.

Standards: The standards are met when the equipment is operational.

Performance Measures	Results
1. Determine if the transmit subsystem is functioning.	P F
2. Verify the symptom.	P F
3. Visually inspect all components and cables.	P F
4. Sectionalize, localize, and/or isolate the trouble to the LRU.	P F
5. Repair by removal/replacement or alignment/adjustment.	P F
6. Test/operate.	P F
7. Complete DA Form 2404 and/or DA Form 2407.	P F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required	Related
DA Pam 738-750	
TM 11-5895-1196-13-2	
TM 11-5895-1196-13-3	
TM 11-5895-1196-13-5	
TM 11-5895-1196-13-6	
TM 11-5895-1197-13-3	
TM 11-5895-1197-13-4	
TM 11-5895-1197-13-6	
TM 11-5895-1197-13-7	

MAINTAIN AC POWER DISTRIBUTION SYSTEM, AN/GSC-52(V)
113-590-0160

Conditions: Given a defective AN/GSC-52(V) AC power distribution system; TMDE and tools as listed in appropriate TMs; TM 11-5895-1196-13-2, TM 11-5895-1196-13-3, and TM 11-5895-1196-13-8 or TM 11-5895-1197-13-3, TM 11-5895-1197-13-4, and TM 11-5895-1197-13-10; DA Pam 738-750; and DA Forms 2404 and/or 2407.

Standards: The standards are met when the equipment is operational.

Performance Measures	Results	
1. Determine if the AC power distribution system is functioning.	P	F
2. Verify the symptom.	P	F
3. Visually inspect all components and cables.	P	F
4. Sectionalize, localize, and/or isolate the trouble to the LRU.	P	F
5. Repair by removal/replacement or alignment/adjustment.	P	F
6. Test/operate.	P	F
7. Complete DA Form 2404 and/or DA Form 2407.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required	Related
DA Pam 738-750	
TM 11-5895-1196-13-2	
TM 11-5895-1196-13-3	
TM 11-5895-1196-13-8	
TM 11-5895-1197-13-10	
TM 11-5895-1197-13-3	
TM 11-5895-1197-13-4	

**MAINTAIN FREQUENCY SUBSYSTEM, AN/GSC-52(V)
113-590-0161**

Conditions: Given a defective AN/GSC-52(V) frequency subsystem; TMDE and tools as listed in appropriate TMs; TM 11-5895-1196-13-2, TM 11-5895-1196-13-3, TM 11-5895-1196-13-5, and TM 11-5895-1196-13-6 or TM 11-5895-1197-13-3, TM 11-5895-1197-13-4, TM 11-5895-1197-13-6, TM 11-5895-1197-13-7, TM 11-5895-1197-13-11, and TM 11-5895-1197-13-8; DA Pam 738-750; and DA Forms 2404 and/or 2407.

Standards: The standards are met when the equipment is operational.

Performance Measures	Results	
1. Determine if the frequency subsystem is functioning.	P	F
2. Verify the symptom.	P	F
3. Visually inspect all components and cables.	P	F
4. Sectionalize, localize, and/or isolate the trouble to the LRU.	P	F
5. Repair by removal/replacement or alignment/adjustment.	P	F
6. Test/operate.	P	F
7. Complete DA Form 2404 and/or DA Form 2407.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

- DA Pam 738-750
- TM 11-5895-1196-13-2
- TM 11-5895-1196-13-3
- TM 11-5895-1196-13-5
- TM 11-5895-1196-13-6
- TM 11-5895-1197-13-11
- TM 11-5895-1197-13-3
- TM 11-5895-1197-13-4
- TM 11-5895-1197-13-6
- TM 11-5895-1197-13-7
- TM 11-5895-1197-13-8

Related

**MAINTAIN CONTROL MONITOR AND ALARM (CMA) SUBSYSTEM, AN/GSC-52(V)
113-590-0162**

Conditions: Given a defective AN/GSC-52(V) CMA subsystem; TMDE and tools as listed in appropriate TMs; TM 11-5895-1196-13-2, TM 11-5895-1196-13-3, TM 11-5895-1196-13-5, TM 11-5895-1196-13-6, TM 11-5895-1196-13-7, and TM 11-5895-1196-13-8 or TM 11-5895-1197-13-3, TM 11-5895-1197-13-4, TM 11-5895-1197-13-6, TM 11-5895-1197-13-7, TM 11-5895-1197-13-8, and TM 11-5895-1197-13-9; DA Pam 738-750; and DA Forms 2404 and/or 2407.

Standards: The standards are met when the equipment is operational.

Performance Measures	Results	
1. Determine if the CMA subsystem is functioning.	P	F
2. Verify the symptom.	P	F
3. Visually inspect all components and cables.	P	F
4. Sectionalize, localize, and/or isolate the trouble to the LRU.	P	F
5. Repair by removal/replacement or alignment/adjustment.	P	F
6. Test/operate.	P	F
7. Complete DA Form 2404 and/or DA Form 2407.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required	Related
DA Pam 738-750	
TM 11-5895-1196-13-2	
TM 11-5895-1196-13-3	
TM 11-5895-1196-13-5	
TM 11-5895-1196-13-6	
TM 11-5895-1196-13-7	
TM 11-5895-1196-13-8	
TM 11-5895-1197-13-3	
TM 11-5895-1197-13-4	
TM 11-5895-1197-13-6	
TM 11-5895-1197-13-7	
TM 11-5895-1197-13-8	
TM 11-5895-1197-13-9	

OPERATE MEDIUM SATCOM TERMINAL AN/GSC-52(V) UNDER UNUSUAL CONDITIONS
113-590-2134

Conditions: Given an AN/GSC-52(V) SATCOM terminal and TM 11-5895-1197-13-3 or TM 11-5895-1196-13-2.

Standards: The standards are met when the terminal is operating under unusual conditions.

Performance Measures	Results	
1. Operate under extreme climatic conditions.	P	F
2. Operate under reduced power.	P	F
3. Operate with power failure.	P	F
4. Operate under DTF standard failure.	P	F
5. Operate under failure of all frequency standards.	P	F
6. Operate under terminal processor failure.	P	F
7. Operate under antenna servo failure.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

TM 11-5895-1196-13-2

TM 11-5895-1197-13-3

Related

OPERATE MEDIUM SATCOM TERMINAL AN/GSC-52(V)
113-590-2135

Conditions: Given a SATCOM terminal AN/GSC-52(V) and TM 11-5895-1196-13-2 or TM 11-5895-1197-13-3.

Standards: The standards are met when the terminal is operational.

Performance Measures	Results	
1. Ensure AC power is applied to all equipment.	P	F
2. Ensure all subsystem controllers are set in the REMOTE position.	P	F
3. Ensure all local equipment is set in the REMOTE position.	P	F
4. Bring up earth terminal (ET) display and ensure all subsystems are operational.	P	F
5. Bring up performance monitor display and verify all system parameters are within tolerance.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

TM 11-5895-1196-13-2
TM 11-5895-1197-13-3

Related

**OPERATE SATCOM TERMINAL AN/FSC-78B(V), AN/FSC-79A(V), OR AN/GSC-39B(V)
113-590-2147**

Conditions: Given a SATCOM terminal AN/FSC-78B(V), AN/FSC-79A(V), or AN/GSC-39B(V), TSO from SNC, ephemeris data, and TMDE listed in TM 11-5895-1535-12.

Standards: The standards are met when the SATCOM terminal is operating.

Performance Measures	Results	
1. Perform preoperational adjustments.	P	F
2. Perform preoperational checks.	P	F
3. Perform satellite acquisition.	P	F
4. Perform satellite tracking.	P	F
5. Perform uplink carrier alignment.	P	F
6. Perform uplink carrier level adjustment.	P	F
7. Perform carrier-to-noise density ratio check.	P	F
8. Perform manual switchover.	P	F
9. Configure terminal equipment for automatic switchover.	P	F
10. Perform downlink traffic monitoring.	P	F
11. Perform uplink signal and traffic monitoring.	P	F
12. Perform terminal equipment selection and status monitoring.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

Applicable TSO
TM 11-5895-1535-12

Related

TM 11-5895-1531-30
TM 11-5895-1532-30
TM 11-5895-1533-30
TM 11-5895-1534-30
TM 11-5895-1536-13
TM 11-5895-1537-13
TM 11-5895-1558-13

**RESTORE PRIME POWER AFTER A POWER FAILURE AT A MEDIUM SATCOM TERMINAL
AN/GSC-52(V)
113-590-2148**

Conditions: Given a medium SATCOM terminal AN/GSC-52(V) and TM 11-5895-1196-13-2 or TM 11-5895-1197-13-3.

Standards: The standards are met when normal operation resumes.

Performance Measures	Results	
CAUTION: In the event of power failure, it is advisable to set main power circuit breakers 25A2CB37 and 25A3CB1 (as applicable) to the OFF position. Damage to equipment may occur if returning power source is out of tolerance. HDR: Critical power failure.		
1. Turn OFF critical power circuit breaker 25A2CB37.	P	F
2. Notify the SNC of station power problem.	P	F
3. Contact cognizant (site) power personnel to verify status of the prime critical power source.	P	F
4. Turn ON circuit breaker 25A2CB37 when the prime critical power is restored and within tolerance.	P	F
5. Verify no alarm conditions when the ET display appears on monitor 10A2.	P	F
6. Correct alarm conditions (if present) and resume normal operation.	P	F
NOTE: HDR: Noncritical power failure.		
7. Turn OFF noncritical power circuit breaker 25A3CB1.	P	F
8. Contact cognizant (site) power personnel to verify status of the prime noncritical power source.	P	F
9. Turn ON circuit breaker 25A3CB1 when the prime noncritical power is restored and within tolerance.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required	Related
TM 11-5895-1196-13-2	
TM 11-5895-1197-13-3	

**PERFORM PMCS ON MEDIUM SATCOM TERMINAL AN/GSC-52(V)
113-590-3158**

Conditions: Given a SATCOM terminal AN/GSC-52(V)1, materials as shown in PMCS charts; TM 11-5895-1196-13-3, TM 11-5895-1196-13-4, TM 11-5895-1196-13-5, TM 11-5895-1196-13-7, TM 11-5895-1196-13-8, and TM 11-5895-1196-13-9, Appendix E; or SATCOM terminal AN/GSC-52(V)2, TM 11-5895-1197-13-4, TM 11-5895-1197-13-5, TM 11-5895-1197-13-6, TM 11-5895-1197-13-8, TM 11-5895-1197-13-9, TM 11-5895-1197-13-10, and TM 11-5895-1197-13-11, Appendix E; DA Pam 738-750; and DA Form 2404.

Standards: The standards are met when no alarms or deficiencies are recorded on DA Form 2404.

Performance Measures	Results	
1. Perform daily PMCS.	P	F
2. Perform weekly PMCS.	P	F
3. Perform monthly PMCS.	P	F
4. Perform quarterly PMCS.	P	F
5. Perform semiannual PMCS.	P	F
6. Perform annual PMCS.	P	F
7. Record PMCS results on appropriate forms/records.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required	Related
DA Pam 738-750	
TM 11-5895-1196-13-3	
TM 11-5895-1196-13-4	
TM 11-5895-1196-13-5	
TM 11-5895-1196-13-7	
TM 11-5895-1196-13-8	
TM 11-5895-1196-13-9	
TM 11-5895-1197-13-10	
TM 11-5895-1197-13-11	
TM 11-5895-1197-13-4	
TM 11-5895-1197-13-5	
TM 11-5895-1197-13-6	
TM 11-5895-1197-13-8	
TM 11-5895-1197-13-9	

**PERFORM PMCS ON SATCOM TERMINAL AN/FSC-78B(V), AN/FSC-79A(V), OR AN/GSC-39B(V)
113-590-3161**

Conditions: Given a SATCOM terminal AN/FSC-78B(V), AN/FSC-79A(V), or AN/GSC-39B(V), BITE listed in TM 11-5895-1535-12, DA Pam 738-750, and DA Form 2404.

Standards: The standards are met when no alarms or deficiencies are recorded on DA Form 2404.

Performance Measures	Results
1. Perform shift PMCS.	P F
2. Perform daily PMCS.	P F
3. Perform weekly PMCS.	P F
4. Perform monthly PMCS.	P F
5. Perform quarterly PMCS.	P F
6. Perform semiannual PMCS.	P F
7. Perform annual PMCS.	P F
8. Record PMCS results on appropriate forms/records.	P F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

DA Pam 738-750
TM 11-5895-1535-12

Related

TM 11-5895-1531-30
TM 11-5895-1532-30
TM 11-5895-1533-30
TM 11-5895-1534-30
TM 11-5895-1536-13
TM 11-5895-1537-13
TM 11-5895-1558-13

**MAINTAIN SATCOM TERMINAL AN/FSC-78B(V), AN/FSC-79A(V), OR AN/GSC-39B(V)
113-590-3162**

Conditions: Given a defective terminal AN/FSC-78B(V), AN/FSC-79A(V), or AN/GSC-39B(V), TMDE listed in appropriate TM, TM 11-5895-1532-30, TM 11-5895-1558-13, DA Pam 738-750, and DA Forms 2404 and/or 2407.

Standards: The standards are met when communications are restored by using spare equipment.

Performance Measures	Results
1. Check the fault and system status panel (FSSP) 14A16 for visual/audible alarm situations.	P F
2. Localize fault to a functional uplink, downlink, and tracking.	P F
3. Determine the defective functional group.	P F
4. Restore communications by using spare equipment.	P F
5. Complete DA Form 2404 and/or DA Form 2407.	P F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

DA Pam 738-750
 TM 11-5895-1532-30
 TM 11-5895-1558-13

Related

TM 11-5895-1531-30
 TM 11-5895-1533-30
 TM 11-5895-1534-30
 TM 11-5895-1535-12
 TM 11-5895-1536-13
 TM 11-5895-1537-13
 TM 11-5895-1557-30-1
 TM 11-5985-359-13

**MAINTAIN THE ALARM MONITOR GROUP, AN/FSC-78B(V), AN/FSC-79A(V), OR AN/GSC-39B(V)
113-590-3163**

Conditions: Given a defective alarm monitor group, TMDE and tools listed in TM 11-5895-1532-30, DA Pam 738-750, TM 11-5895-1535-12, and DA Forms 2404 and/or 2407.

Standards: The standards are met when the equipment is operational.

Performance Measures	Results	
1. Determine abnormal operation in the alarm monitor group.	P	F
2. Verify the fault.	P	F
3. Visually inspect all components and cables.	P	F
4. Isolate trouble to the LRU.	P	F
5. Repair by removal/replacement or alignment/adjustment.	P	F
6. Test/operate.	P	F
7. Complete DA Form 2404 and/or DA Form 2407.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

- DA Pam 738-750
- TM 11-5895-1532-30
- TM 11-5895-1535-12

Related

- TM 11-5895-1531-30
- TM 11-5895-1533-30
- TM 11-5895-1534-30
- TM 11-5895-1536-13
- TM 11-5895-1537-13
- TM 11-5895-1558-13

MAINTAIN THE SIGNAL GENERATOR GROUP, AN/FSC-78B(V), AN/FSC-79A(V), OR AN/GSC-39B(V)

113-590-3164

Conditions: Given defective signal generator equipment, TMDE and tools listed in TMs, TM 11-5895-1531-30, TM 11-5895-1535-12, TM 11-5895-1558-13, DA Pam 738-750, and DA Forms 2404 and/or 2407.

Standards: The standards are met when the equipment is operational.

Performance Measures	Results
1. Determine abnormal indications from the signal generator functional group.	P F
2. Verify the fault.	P F
3. Visually inspect all components and cables.	P F
4. Isolate the trouble to the LRU.	P F
5. Repair by removal/replacement or alignment/adjustment.	P F
6. Test/operate.	P F
7. Complete DA Form 2404 and/or DA Form 2407.	P F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

- DA Pam 738-750
- TM 11-5895-1531-30
- TM 11-5895-1535-12
- TM 11-5895-1558-13

Related

- TM 11-5895-1532-30
- TM 11-5895-1534-30
- TM 11-5895-1536-13
- TM 11-5895-1537-13

MAINTAIN THE FREQUENCY CONVERSION GROUP, AN/FSC-78B(V), AN/FSC-79A(V), OR AN/GSC-39B(V)

113-590-3165

Conditions: Given defective frequency up- and down-converters, TMDE and tools listed in TMs, TM 11-5895-1534-30, TM 11-5895-1535-12, TM 11-5895-1558-13, DA Pam 738-750, and DA Forms 2404 and/or 2407.

Standards: The standards are met when the equipment is operational.

Performance Measures	Results
1. Determine abnormal indications from the frequency conversion group.	P F
2. Verify the faults.	P F
3. Visually inspect all components and cables.	P F
4. Isolate trouble to the LRU.	P F
5. Repair by removal/replacement or adjustment/alignment.	P F
6. Test/operate.	P F
7. Complete DA Form 2404 and/or DA Form 2407.	P F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

DA Pam 738-750
 TM 11-5895-1534-30
 TM 11-5895-1535-12
 TM 11-5895-1558-13

Related

TM 11-5895-1531-30
 TM 11-5895-1532-30
 TM 11-5895-1533-30
 TM 11-5895-1536-13
 TM 11-5895-1537-13

**MAINTAIN THE TRANSMITTER GROUP, AN/FSC-78B(V), AN/FSC-79A(V), OR AN/GSC-39B(V)
113-590-3166**

Conditions: Given a defective transmitter group, TMDE and tools listed in TMs, test equipment and materials listed in TMs, TM 11-5895-1533-30, TM 11-5895-1536-13, TM 11-5895-1535-12, TM 11-5895-1558-13, DA Pam 738-750, and DA Forms 2404 and/or 2407.

Standards: The standards are met when the equipment is operational.

Performance Measures	Results	
1. Determine abnormal operation from the transmitter group.	P	F
2. Verify the fault.	P	F
3. Visually inspect all components and cables.	P	F
4. Isolate trouble to the LRU.	P	F
5. Repair by removal/replacement or alignment/adjustment.	P	F
6. Test/operate.	P	F
7. Complete DA Form 2404 and/or DA Form 2407.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

- DA Pam 738-750
- TM 11-5895-1533-30
- TM 11-5895-1535-12
- TM 11-5895-1536-13
- TM 11-5895-1558-13

Related

- TM 11-5895-1531-30
- TM 11-5895-1532-30
- TM 11-5895-1534-30
- TM 11-5895-1537-13
- TM 11-5895-1557-30-1

**MAINTAIN ANTENNA GROUP OE-170/FSC, AN/FSC-78B(V)
113-590-3167**

Conditions: Given a defective antenna group OE-170/FSC, TMDE and tools listed in appropriate TMs, TM 11-5895-900-34, TM 11-5895-898-12-1, TM 5-4120-243-14, DA Pam 738-750, and DA Forms 2404 and/or 2407.

Standards: The standards are met when the equipment is operational.

Performance Measures	Results	
1. Determine abnormal operation from the antenna functional group.	P	F
2. Verify the fault.	P	F
3. Visually inspect all components and cables.	P	F
4. Isolate trouble to the LRU.	P	F
5. Repair by removal/replacement or alignment/adjustment of faulty component.	P	F
6. Test/operate.	P	F
7. Complete DA Form 2404 and/or DA Form 2407.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

DA Pam 738-750
 TM 11-5895-898-12-1
 TM 11-5895-900-34
 TM 5-4120-243-14

Related

TM 11-5895-1535-12
 TM 11-5985-359-13
 TM 5-4120-222-14
 TM 5-4120-222-24P
 TM 5-4120-243-24P

**MAINTAIN ANTENNA GROUP OE-222/GSC, AN/GSC-39B(V)
113-590-3168**

Conditions: Given a defective antenna group OE-222/GSC, TMDE listed in the TM, TM 11-5985-358-14, DA Pam 738-750, and DA Forms 2404 and/or 2407.

Standards: The standards are met when the equipment is operational.

Performance Measures	Results	
1. Determine abnormal indication in antenna group OE-222/GSC.	P	F
2. Localize fault in antenna group.	P	F
3. Visually inspect the equipment for burned, loose, broken, or missing wires or components.	P	F
4. Isolate fault within the antenna group.	P	F
5. Repair by removal/replacement or adjustment/realignment.	P	F
6. Complete DA Form 2404 and/or DA Form 2407.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

DA Pam 738-750
TM 11-5985-358-14

Related

TM 11-5895-1535-12

MAINTAIN ANTENNA SUBSYSTEM, AN/GSC-52(V)
113-596-0224

Conditions: Given a defective AN/GSC-52(V) antenna subsystem; TMDE and tools as listed in appropriate TMs; TM 11-5895-1196-13-2, TM 11-5895-1196-13-3, and TM 11-5895-1196-13-4 or TM 11-5895-1197-13-3, TM 11-5895-1197-13-4, and TM 11-5895-1197-13-5; DA Pam 738-750; and DA Forms 2404 and/or 2407.

Standards: The standards are met when the equipment is operational.

Performance Measures	Results
1. Determine if the transmit subsystem is functioning.	P F
2. Verify the symptom.	P F
3. Visually inspect all components and cables.	P F
4. Sectionalize, localize, and/or isolate the trouble to the LRU.	P F
5. Repair by removal/replacement or alignment/adjustment.	P F
6. Test/operate.	P F
7. Complete DA Form 2404 and/or DA Form 2407.	P F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

DA Pam 738-750
 TM 11-5895-1196-13-2
 TM 11-5895-1196-13-3
 TM 11-5895-1196-13-4
 TM 11-5895-1197-13-3
 TM 11-5895-1197-13-4
 TM 11-5895-1197-13-5

Related

TM 11-5895-1197-13-10
 TM 11-5895-1197-13-11

**MAINTAIN TELEPHONE SYSTEM, AN/GSC-52(V)
113-600-0013**

Conditions: Given a defective AN/GSC-52(V) telephone system, TMDE as listed in appropriate TMs, TM 11-5895-1196-13-3, TM 11-5895-1196-13-8, TM 11-5895-1197-13-4, TM 11-5895-1197-13-10, DA Pam 738-750, and DA Forms 2404 and/or 2407.

Standards: The standards are met when the equipment is operational.

Performance Measures	Results
1. Determine if the telephone system is functioning.	P F
2. Verify the symptom.	P F
3. Visually inspect all instruments in the system.	P F
4. Sectionalize, localize, and/or isolate the trouble to the LRU.	P F
5. Repair by removal/replacement or alignment/adjustment.	P F
6. Test/operate.	P F
7. Complete DA Form 2404 and/or DA Form 2407.	P F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required	Related
DA Pam 738-750	
TM 11-5895-1196-13-3	
TM 11-5895-1196-13-8	
TM 11-5895-1197-13-10	
TM 11-5895-1197-13-4	

MAINTAIN DOWN-CONVERTER SUBSYSTEM, AN/GSC-52(V)
113-605-0023

Conditions: Given a defective AN/GSC-52(V) down-converter subsystem; TMDE and tools as listed in appropriate TMs; TM 11-5895-1196-13-2, TM 11-5895-1196-13-3, and TM 11-5895-1196-13-8 or TM 11-5895-1197-13-3, TM 11-5895-1197-13-4, and TM 11-5895-1197-13-9; DA Pam 738-750; and DA Forms 2404 and/or 2407.

Standards: The standards are met when the equipment is operational.

Performance Measures	Results	
1. Determine if the down-converter subsystem is functioning.	P	F
2. Verify the symptom.	P	F
3. Visually inspect all components and cables.	P	F
4. Sectionalize, localize, and/or isolate the trouble to the LRU.	P	F
5. Repair by removal/replacement or alignment/adjustment.	P	F
6. Test/operate.	P	F
7. Perform downlink gain and power measurements.	P	F
8. Complete DA Form 2404 and/or DA Form 2407.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

- DA Pam 738-750
- TM 11-5895-1196-13-2
- TM 11-5895-1196-13-3
- TM 11-5895-1196-13-8
- TM 11-5895-1197-13-3
- TM 11-5895-1197-13-4
- TM 11-5895-1197-13-9

Related

- TM 11-5895-1197-13-11

**MAINTAIN UP-CONVERTER SUBSYSTEM, AN/GSC-52(V)
113-605-0024**

Conditions: Given a defective AN/GSC-52(V) up-converter subsystem; TMDE and tools as listed in appropriate TMs; TM 11-5895-1196-13-2, TM 11-5895-1196-13-3, and TM 11-5895-1196-13-8 or TM 11-5895-1197-13-3, TM 11-5895-1197-13-4, and TM 11-5895-1197-13-9; DA Pam 738-750; and DA Forms 2404 and/or 2407.

Standards: The standards are met when the equipment is operational.

Performance Measures	Results
1. Determine if the up-converter subsystem is functioning.	P F
2. Verify the symptom.	P F
3. Visually inspect all components and cables.	P F
4. Sectionalize, localize, and/or isolate the trouble to the LRU.	P F
5. Repair by removal/replacement or alignment/adjustment.	P F
6. Test/operate.	P F
7. Complete DA Form 2404 and/or DA Form 2407.	P F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

- DA Pam 738-750
- TM 11-5895-1196-13-2
- TM 11-5895-1196-13-3
- TM 11-5895-1196-13-8
- TM 11-5895-1197-13-3
- TM 11-5895-1197-13-4
- TM 11-5895-1197-13-9

Related

- TM 11-5895-1197-13-11

OPERATE THE MAINTENANCE KEYBOARD, AN/GSC-52(V)
113-610-2001

Conditions: Given an AN/GSC-52(V), maintenance keyboard; TM 11-5895-1196-13-7 and TM 11-5895-1196-13-9 or TM 11-5895-1197-13-8 and TM 11-5895-1197-13-11.

Standards: The standards are met when parameter changes are entered correctly.

Performance Measures	Results
1. Connect maintenance keyboard to monitor 10A2.	P F
2. Check warning messages.	P F
3. Set gain reference values and tolerances for transmitter subsystem, receiving subsystem, and up-/down-converter.	P F
4. Perform calibration functions.	P F
5. Save or restore database to a floppy disk.	P F
6. Configure system.	P F
7. Calibrate system.	P F
8. Disconnect maintenance keyboard and connect regular keyboard.	P F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

- TM 11-5895-1196-13-7
- TM 11-5895-1196-13-9
- TM 11-5895-1197-13-11
- TM 11-5895-1197-13-8

Related

**REPROGRAM DIGITAL COMPUTER CP-1676/G, AN/GSC-52(V)
113-628-2013**

Conditions: Given a terminal processor, station console, maintenance keyboard, TM 11-5895-1196-13-7 and TM 11-5895-1196-13-9 or TM 11-5895-1197-13-8 and TM 11-5895-1197-13-11.

Standards: The standards are met when the terminal processor is reprogrammed.

Performance Measures	Results
1. Ensure floppy disks are in consecutive order.	P F
2. Perform software loading procedures.	P F
3. Enter site configuration and calibration data using maintenance keyboard.	P F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required	Related
TM 11-5895-1196-13-7	
TM 11-5895-1196-13-9	
TM 11-5895-1197-13-11	
TM 11-5895-1197-13-8	

Subject Area 4: Satellite Communications Set AN/USC-28(V)

MAINTAIN PROGRAMMABLE CONTROLLER (PC), AN/USC-28(V)
113-583-0393

Conditions: Given a defective AN/USC-28(V), DA Pam 738-750, TM 11-5895-808-13-2, and DA Forms 2404 and/or 2407.

Standards: The standards are met when the PC equipment is operational.

Performance Measures	Results	
1. Isolate failure in the PC to the LRU.	P	F
2. Remove and replace the LRU.	P	F
3. Verify repair is fully correct and system is fully operational.	P	F
4. Return failed unit to operational condition.	P	F
5. Prepare maintenance form to order replacement part or request higher level maintenance.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

DA Pam 738-750

TM 11-5895-808-13-2

Related

MAINTAIN SATCOM SET AN/USC-28(V)

113-583-0405

Conditions: Given an AN/USC-28(V); NCB (SECRET); DA Pam 738-750; DISACs 800-E70-7 for NCT, 800-E70-8 for ALTNCT, 800-E70-9 for NT, and 800-E70-11 for AN/GSC-49 terminals; TM 11-5895-808-13-1 and TM 11-5895-808-13-2 for nonmitigated systems and TM 11-5895-808-13-10 for mitigated systems; and DA Forms 2404 and/or 2407. NOTE: The site configuration determines which DISA circular is required.

Standards: The standards are met when the AN/USC-28(V) is fully operational.

Performance Measures	Results	
1. Perform an initial assessment of failure indications to identify if the failure affects the entire system, a rack, half-rack drawer, or half drawer. Localize failure to an area of high probability prior to using directed alarm fault isolation (AFI), verify, or IZAP.	P	F
2. Restore communications prior to troubleshooting and verify communications are fully operational. (Refer to NCB.)	P	F
3. Troubleshoot the AN/USC-28(V) using BITE, verify, AFI, and IZAP.	P	F
4. Remove and replace failed card or module.	P	F
5. Restore communications and use the digital data test set to verify user data or conference links are fully operational. (Refer to NCB.)	P	F
6. Prepare maintenance form to order replacement part or request higher level maintenance.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required	Related
DA Pam 738-750	
DISAC 800-E70-11	
DISAC 800-E70-7	
DISAC 800-E70-8	
DISAC 800-E70-9	
TM 11-5895-808-13-1	
TM 11-5895-808-13-10	
TM 11-5895-808-13-2	

PERFORM PRE-NETWORK OPERATIONAL TESTING, AN/USC-28(V)

113-583-2609

Conditions: Given an AN/USC-28(V); TMDE and tools as required by DISA circulars; DISA circulars 800-E70-7 for NCT, 800-E70-8 for ALTNCT, 800-E70-9 for NT, and 800-E70-11 for AN/GSC-49 terminals; TM 11-5895-808-13-1 and TM 11-5895-808-13-10; and JS test set recommended for the characterization test. SECURITY NOTE: E70 series DISA circulars and test results are classified SECRET. NOTE: The site configuration determines which DISA circular is required.

Standards: The standards are met when the equipment is operational and the data is recorded and forwarded to appropriate authorities.

Performance Measures

Results

- | | | |
|---|---|---|
| 1. Perform the transmit IF power output variation test.
SECURITY NOTE: Data sheets are classified SECRET when filled in. | P | F |
| 2. Perform the performance characterization test. | P | F |

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

DISAC 800-E70-11
DISAC 800-E70-7
DISAC 800-E70-8
DISAC 800-E70-9
TM 11-5895-808-13-1
TM 11-5895-808-13-10

Related

**PERFORM CONTROL SYNCHRONIZATION UNIT (CSU) NETWORK OPERATIONS, AN/USC-28(V)
113-583-2610**

Conditions: Given an AN/USC-28(V); NCB (SECRET); keying materials (SECRET); KAO-184A/TSEC; KYK-13/ KOI-18; fill cable; DISA circulars 800-E70-7 for NCT, 800-E70-8 for ALTNCT, 800-E70-9 for NT, and 800-E70-11 for AN/GSC-49 terminals; TM 11-5815-602-10 (AN/UGC-74), TM 11-5895-808-13-1, TM 11-5895-808-13-10, and TM 11-5895-1179-13 (KY-883); and site SOP. NOTE: The site configuration determines which DISA circular is required.

Standards: The standards are met when all equipment is operational.

Performance Measures	Results	
1. Perform AN/USC-28(V) power-on, program tape loading, and initialization procedures.	P	F
2. Configure CSU as NCT (or NT).	P	F
3. Configure and operate the UTE for critical control circuit (CCC)/terrestrial critical control (TCC) unit operation.	P	F
4. Configure and load the TSEC/KG-84 CCC/TCC for network operations.	P	F
5. Enter electronic counter-countermeasures (ECCM) network in TDI or TIME APPROX. Perform time entries, schedule CSU, load range data and code of the day (COD) entries, load and initialize the KGV-9, correct for time offset as required, and make initial status report.	P	F
6. Enter ECCM network in standard time and make full status report as required by DISA circulars. Perform items listed in performance measure 5 as required.	P	F
NOTE: Performance measure 7 is an NCT and ALTNCT function only.		
7. Perform a coordinated ECCM network control transfer. Poll terminals for status as required. Monitor probes and controls of the network as required.	P	F
8. Operate AN/USC-28(V) using backup TTY.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required	Related
DISAC 800-E70-11	
DISAC 800-E70-7	
DISAC 800-E70-8	
DISAC 800-E70-9	
TM 11-5815-602-10	
TM 11-5895-1179-13	
TM 11-5895-808-13-1	
TM 11-5895-808-13-10	
Unit SOP	

PERFORM COMMUNICATIONS RECEIVER-TRANSMITTER (COMM R/T) OPERATIONS, AN/USC-28(V)

113-583-2611

Conditions: Given an AN/USC-28(V); NCB (SECRET); keying materials (SECRET); KAO-184A/TSEC; KYK-13/ KOI-18; fill cable; DISA circulars 800-E70-7 for NCT, 800-E70-8 for ALTNCT, 800-E70-9 for NT, and 800-E70-11 for AN/GSC-49 terminals; and TM 11-5895-808-13-1, TM 11-5895-808-13-10, and TM 11-5895-1179-13 (KY-883). NOTE: The site configuration determines which DISA circular is required.

Standards: The standards are met when all equipment is operational.

Performance Measures	Results	
1. Configure IF/radio frequency (RF)/teletypewriter (TTY) patch panels, KY-883, and schedule R/Ts.	P	F
2. Configure and operate the UTE for link orderwire (LOW) operation.	P	F
3. Configure and load the KG-84 LOW for network operations.	P	F
4. Load and initialize the KGV-9, establish user data communications, and verify performance of user data links.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

- DISAC 800-E70-11
- DISAC 800-E70-7
- DISAC 800-E70-8
- DISAC 800-E70-9
- TM 11-5895-1179-13
- TM 11-5895-808-13-1
- TM 11-5895-808-13-10

Related

PERFORM PMCS ON AN/USC-28(V)
113-583-3163

Conditions: Given a SATCOM set AN/USC-28(V), tools and TMDE as listed in TM, site network configuration book (NCB), DA Pam 738-750, TM 11-5895-808-13-2, and DA Form 2404.

Standards: The standards are met when no alarms or defects are recorded on DA Form 2404.

Performance Measures	Results
1. Perform daily PMCS.	P F
2. Record PMCS results on appropriate forms/records.	P F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required	Related
113-NCB	
DA Pam 738-750	
TM 11-5895-808-13-2	

**MAINTAIN DSCS ECCM CONTROL SYSTEM DECS REMOTE COMPONENT (DECS-RC), AN/GSC-63
113-590-0144**

Conditions: This task is only applicable to those terminals equipped with the AN/GSC-63 equipment. Given an AN/GSC-63; NCB (SECRET); DA Pam 738-750; DISA circulars 800-E70-7 for NCT, 800-E70-8 for ALTNCT, 800-E70-9 for NT, and 800-E70-11 for AN/GSC-49; TM 11-5895-808-13-1, TM 11-5895-808-13-2, and TM 11-5895-808-13-10; site SOP; and DA Forms 2404 and/or 2407. NOTE: The site configuration determines which DISA circular is required.

Standards: The standards are met when the AN/GSC-63 is fully operational.

Performance Measures	Results	
1. Perform an initial assessment of failure indications to localize the failure to a high probability area prior to troubleshooting. (Refer to TM 11-5895-808-13-2 or TM 11-5895-808-13-10.)	P	F
2. Restore communications prior to troubleshooting and verify communications are fully operational. (Refer to NCB, TM 11-5895-808-13-1 or TM 11-5895-808-13-10, and site SOP.)	P	F
3. Troubleshoot the AN/GSC-63 to the failed LRU. (Refer to TM 11-5895-808-13-2 or TM 11-5895-808-13-10.)	P	F
4. Remove and replace the failed LRU. (Refer to TM 11-5895-808-13-2 or TM 11-5895-808-13-10 and site SOP.)	P	F
5. Return system to operational or standby condition. (Refer to NCB, TM 11-5895-808-13-1, and TM 11-5895-808-13-10.)	P	F
6. Prepare maintenance forms to order replacement parts or request higher level maintenance. (Refer to DA Pam 738-750.)	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

113-NCB
DA Pam 738-750
DISAC 800-E70-11
DISAC 800-E70-7
DISAC 800-E70-8
DISAC 800-E70-9
TM 11-5895-808-13-1
TM 11-5895-808-13-10
TM 11-5895-808-13-2
Unit SOP

Related

TM 11-5895-1398-13

OPERATE DSCS ECCM CONTROL SYSTEM (DECS) REMOTE COMPONENT (DECS-RC), AN/GSC-63

113-590-2002

Conditions: Given an AN/GSC-63 and TM 11-5895-1398-13.

Standards: The standards are met when you operate and control the AN/USC-28(V) using DECS-RC equipment.

Performance Measures	Results	
1. Prepare and set up the printer and ensure it is ready for use.	P	F
2. Perform DECS-RC system turn-on.	P	F
3. Operate, configure, and manage the AN/USC-28(V) while in the network using the DECS-RC main and submenu operating software.	P	F
4. Install new DECS-RC operating software.	P	F
5. Perform DECS-RC system shutdown.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

TM 11-5895-1398-13

Related

Subject Area 5: Tactical Satellite (TACSAT) Equipment

**MAINTAIN ECHO SUPPRESSOR MX-9635/TSC
113-589-0024**

Conditions: Given a defective echo suppressor MX-9635/TSC, TMDE and tools listed in TM, DA Pam 738-750, TM 11-5895-843-14, and DA Forms 2404 and/or 2407. NOTE: Equivalent tools and test equipment may be substituted. Supervision and assistance are available for training purposes.

Standards: The standards are met when the equipment is operational.

Performance Measures	Results	
1. Visually inspect the equipment for burned, broken, loose, or missing components or wires.	P	F
2. Localize trouble to a group of modules or circuits.	P	F
3. Isolate the fault using resistance and continuity checks.	P	F
4. Replace/repair the defective module or part.	P	F
5. Perform final operational test to verify normal equipment operation.	P	F
6. Complete DA Form 2404 and/or DA Form 2407.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

DA Pam 738-750
TM 11-5895-843-14

Related

TM 11-5895-1041-34

**MAINTAIN MODEM MD-945/TSC
113-589-0026**

Conditions: Given a defective modem MD-945/TSC, TMDE and tools listed in TM 11-5820-879-34, TM 11-5820-879-24P, DA Pam 738-750, and DA Forms 2404 and/or 2407.

Standards: The standards are met when the modem is operational.

Performance Measures	Results	
1. Verify modem alarm.	P	F
2. Localize fault to the LRU.	P	F
3. Replace the LRU with spare module.	P	F
4. Perform operational test to verify normal equipment operation.	P	F
5. Complete DA Form 2404 and/or DA Form 2407.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

- DA Pam 738-750
- TM 11-5820-879-24P
- TM 11-5820-879-34

Related

**MAINTAIN ELECTRONIC FREQUENCY CONVERTER CV-3198B/TSC OR CV-3201B/TSC
113-589-0028**

Conditions: Given a defective electronic frequency converter CV-3198B/TSC or CV-3201B/TSC, TMDE and tools listed in TM, DA Pam 738-750, TM 11-5895-1402-34, and DA Forms 2404 and/or 2407. NOTE: Equivalent tools and test equipment may be substituted. Supervision and assistance are available for training purposes.

Standards: The standards are met when the converter is operational.

Performance Measures	Results	
1. Verify converter alarm.	P	F
a. Check front panel indicator lamps.	P	F
b. Check front panel meter readings.	P	F
2. Localize fault to the LRU.	P	F
3. Replace the LRU with spare module.	P	F
4. Perform operational test to verify normal equipment operation.	P	F
5. Complete DA Form 2404 and/or DA Form 2407.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

DA Pam 738-750
TM 11-5895-1402-34

Related

TM 11-5895-1041-34

**MAINTAIN LOW NOISE AMPLIFIER (LNA) CONTROL/TRANSLATOR
113-589-0030**

Conditions: Given a defective LNA control/translator, TMDE and tools listed in TM, DA Pam 738-750, TM 11-5895-1041-34, and DA Forms 2404 and/or 2407. NOTE: Equivalent tools and test equipment may be substituted. Supervision and assistance are available for training purposes.

Standards: The standards are met when the equipment is operational.

Performance Measures	Results	
1. Visually inspect the equipment for burned, broken, loose, or missing components or wires.	P	F
2. Localize trouble to a group of modules or circuits.	P	F
3. Isolate the fault using resistance and continuity checks.	P	F
4. Replace/repair the defective module or part.	P	F
5. Perform final operational test to verify normal equipment operation.	P	F
6. Complete DA Form 2404 and/or DA Form 2407.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

DA Pam 738-750
TM 11-5895-1041-34

Related

**MAINTAIN DUAL CAPABILITY SERVO CONTROL UNIT (DCSCU)
113-589-0034**

Conditions: Given a defective DCSCU, TMDE and tools listed in TM, DA Pam 738-750, TM 11-5895-1093-34, and DA Forms 2404 and/or 2407. **NOTE:** Equivalent tools and test equipment may be substituted. Supervision and assistance are available for training purposes.

Standards: The standards are met when the equipment is operational.

Performance Measures	Results	
1. Visually inspect the equipment for burned, broken, loose, or missing components or wires.	P	F
2. Localize trouble to a group of modules or circuits.	P	F
3. Isolate the fault using resistance and continuity checks.	P	F
4. Replace/repair the defective module or part.	P	F
5. Perform final operational test to verify normal equipment operation.	P	F
6. Complete DA Form 2404 and/or DA Form 2407.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

DA Pam 738-750
TM 11-5895-1093-34

Related

**MAINTAIN ORDERWIRE RT-1287/TSC
113-589-0035**

Conditions: Given a defective OW RT-1287/TSC, TMDE and tools listed in TM, DA Pam 738-750, TM 11-5805-722-34, and DA Forms 2404 and/or 2407. NOTE: Equivalent tools and test equipment may be substituted. Supervision and assistance are available for training purposes.

Standards: The standards are met when the equipment is operational.

Performance Measures	Results
1. Visually inspect the equipment for burned, broken, loose, or missing components or wires.	P F
2. Localize trouble to a group of modules or circuits.	P F
3. Isolate the fault using resistance and continuity checks.	P F
4. Replace/repair the defective module or part.	P F
5. Perform final operational test to verify normal equipment operation.	P F
6. Complete DA Form 2404 and/or DA Form 2407.	P F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

DA Pam 738-750
TM 11-5805-722-34

Related

**MAINTAIN FAULT ALARM MONITOR UNIT (FAMU)
113-589-0036**

Conditions: Given a defective FAMU, TMDE and tools listed in TMs, DA Pam 738-750, TM 11-5895-1433-34, TM 11-5895-1434-34, and DA Forms 2404 and/or 2407. NOTE: Equivalent tools and test equipment may be substituted. Supervision and assistance are available for training purposes.

Standards: The standards are met when the equipment is operational.

Performance Measures	Results
1. Visually inspect the equipment for burned, broken, loose, or missing components or wires.	P F
2. Localize trouble to a group of modules or circuits.	P F
3. Isolate the fault using resistance and continuity checks.	P F
4. Replace/repair the defective module or part.	P F
5. Perform final operational test to verify normal equipment operation.	P F
6. Complete DA Form 2404 and/or DA Form 2407.	P F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

DA Pam 738-750
TM 11-5895-1433-34
TM 11-5895-1434-34

Related

**MAINTAIN RADIO FREQUENCY AMPLIFIER AM-6701/TSC AND POWER SUPPLY PP-7086/TSC
113-589-0037**

Conditions: Given a defective RF amplifier AM-6701/TSC and power supply PP-7086/TSC, TMDE and tools listed in TM, DA Pam 738-750, TM 11-5895-1401-34, and DA Forms 2404 and/or 2407. NOTE: Equivalent tools and test equipment may be substituted. Supervision and assistance are available for training purposes.

Standards: The standards are met when the equipment is operational.

Performance Measures	Results
1. Visually inspect the equipment for burned, broken, loose, or missing components or wires.	P F
2. Localize trouble to a group of modules or circuits.	P F
3. Isolate the fault using resistance and continuity checks.	P F
4. Replace/repair the defective module or part.	P F
5. Perform final operational test to verify normal equipment operation.	P F
6. Complete DA Form 2404 and/or DA Form 2407.	P F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

DA Pam 738-750
TM 11-5895-1401-34

Related

TM 11-5895-1041-34
TM 11-5895-1223-34

**RESTORE TACTICAL SATELLITE TERMINAL EQUIPMENT AFTER COMMUNICATIONS FAILURE
113-589-0042**

Conditions: Given defective TACSAT terminal equipment listed in Appendix B of TM 11-5895-1433-12-1 and TM 11-5895-1434-12-1, TM 11-5895-1433-12-1, TM 11-5895-1433-12-2, TM 11-5895-1433-34, TM 11-5895-1434-12-1, TM 11-5895-1434-12-2, TM 11-5895-1434-34, DA Pam 738-750, unit TSO, and DA Forms 2404 and/or 2407.

Standards: The standards are met when communications are restored by using spare equipment.

Performance Measures	Results	
1. Verify alarm at the fault alarm monitor unit (FAMU).	P	F
a. Reset minor alarms (glitches and hits in the network).	P	F
b. Isolate major alarms (loss of lock/equipment failure).	P	F
2. Notify the SNC/GMF network controller (GNC) of equipment failure.	P	F
3. Localize fault to the LRU.	P	F
4. Restore communications with redundant equipment.	P	F
a. Prepare spare equipment for operation IAW unit mission and TSO.	P	F
b. Make patch connection at IF and/or data patch panels.	P	F
5. Verify communications are restored and all alarm conditions are corrected.	P	F
6. Complete DA Form 2404 and/or DA Form 2407.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required	Related
Applicable TSO	
DA Pam 738-750	
TM 11-5895-1433-12-1	
TM 11-5895-1433-12-2	
TM 11-5895-1433-34	
TM 11-5895-1434-12-1	
TM 11-5895-1434-12-2	
TM 11-5895-1434-34	

INSTALL SATELLITE COMMUNICATIONS TERMINAL AN/TSC-85B(V) OR AN/TSC-93B(V)
113-589-1003

Conditions: Given a SATCOM terminal AN/TSC-85B(V) or AN/TSC-93B(V), antenna group AS-3036/TSC, generator set PU-405A or PU-753/M, predetermined site location, predetermined azimuth and elevation, TB 43-0129, TM 9-6115-464-12, TM 5-6115-585-12, TM 11-5895-1433-12-1, TM 11-5895-1433-12-2, TM 11-5895-1433-34, TM 11-5895-1434-12-1, TM 11-5895-1434-12-2, and TM 11-5895-1434-34.

Standards: The standards are met when the AN/TSC-85B(V) or AN/TSC-93B(V) is installed within 1 hour and 45 minutes, and all safety requirements listed in TB 43-0129 are met.

Performance Measures

Results

NOTE: Refer to TMs 11-5895-1434-12-1, 11-5895-1434-12-2, 11-5895-1434-34, and 5-6115-585-12 for the AN/TSC-93B(V); TMs 11-5895-1433-12-1, 11-5895-1433-12-2, 11-5895-1433-34, and 9-6115-464-12 for the AN/TSC-85B(V).

1. Select site.	P	F
a. Ensure topography meets standards in appropriate TM.	P	F
b. Check soil conditions.	P	F
c. Avoid electrical interference.	P	F
2. Locate siting points using pocket transit.	P	F
a. Locate siting point 1.	P	F
b. Locate siting point 2.	P	F
WARNING: DO NOT stand on right or left side base frame members because damage will occur.		
3. Install antenna support structure assembly.	P	F
a. Position ground pads.	P	F
b. Install front and rear leg assemblies.	P	F
c. Install base frame members.	P	F
d. Install side leg assemblies.	P	F
e. Level antenna.	P	F
WARNING: The antenna center section is heavy and fragile. Handle it carefully to avoid injury to personnel or damage to equipment.		
4. Install antenna dish assembly.	P	F
a. Use hoist to place antenna center section on antenna support structure and secure it.	P	F
b. Mount drive disk and left trailing arm.	P	F
CAUTION: When handling actuators, DO NOT turn actuator rod end; or protective boot may be damaged.		
c. Install elevation and cross-elevation actuators to disk drive.	P	F
d. Install reflector quarter sections.	P	F
CAUTION: Be careful when handling and working with the feed tube assembly and feed tube adapter. The feed tube adapter has a thin membrane which is fragile and easily damaged. DO NOT allow anything, including fingers, to come in contact with the membrane.		
e. Install feed tube.	P	F
5. Position vehicle.	P	F
6. Position generator set.	P	F
7. Install antenna cables and waveguide.	P	F
a. Connect cables to antenna.	P	F
b. Install messenger pole and cable for shelter.	P	F

Performance Measures	Results	
c. Connect cables to antenna entry panel.	P	F
d. Connect waveguide to shelter.	P	F
8. Perform final antenna adjustments.	P	F
9. Anchor antenna.	P	F
10. Install radiation hazard fence.	P	F
11. Install generator set.	P	F
12. Position power transfer switch box.	P	F
13. Ground shelter, antenna, and power transfer switch box.	P	F
14. Install all power cable assemblies.	P	F
15. Open air vents.	P	F
16. Install external user signal cables.	P	F
17. Position fire point equipment halfway between generator set and shelter.	P	F

NOTE: Arctic kit or CBR kit installation is covered in TM 11-5895-1433-12-1/2 or TM 11-5895-1434-12-1/2.

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required	Related
TB 43-0129	
TM 11-5895-1433-12-1	
TM 11-5895-1433-12-2	
TM 11-5895-1433-34	
TM 11-5895-1434-12-1	
TM 11-5895-1434-12-2	
TM 11-5895-1434-34	
TM 5-6115-585-12	
TM 9-6115-464-12	

OPERATE SATELLITE COMMUNICATIONS TERMINAL AN/TSC-85B(V) OR AN/TSC-93B(V)
113-589-2008

Conditions: Given a SATCOM terminal AN/TSC-85B(V) or AN/TSC-93B(V), installed antenna group AS-3036/TSC, installed generator set PU-405A or PU-753/M, predetermined site location, predetermined azimuth and elevation, TM 9-6115-464-12, TM 5-6115-585-12, TM 11-5895-1433-12-1, TM 11-5895-1433-12-2, TM 11-5895-1433-34, TM 11-5895-1434-12-1, TM 11-5895-1434-12-2, and TM 11-5895-1434-34.

Standards: The standards are met when the AN/TSC-85B(V) or AN/TSC-93B(V) is fully operational and stopping procedures are completed within 1 hour and 15 minutes.

Performance Measures

Results

NOTES: Refer to TMs 11-5895-1434-12-1, 11-5895-1434-12-2, 11-5895-1434-34, and 5-6115-585-12 for the AN/TSC-93B(V); TMs 11-5895-1433-12-1, 11-5895-1433-12-2, 11-5895-1433-34, and 9-6115-464-12 for the AN/TSC-85B(V). Ensure power and ground cables are properly connected and grounded. HDR: Operating procedures.

1. Operate generator set.	P	F
2. Adjust ANTENNA ELEVATION SAFETY switch.	P	F
3. Power up shelter and all required equipment.	P	F
4. Configure the TSSP.	P	F
5. Cable IF/translator patch panel, AN/TSC-85B(V) only.	P	F
6. Cable modem patch panel, AN/TSC-85B(V) only.	P	F
7. Cable OW patch panel, AN/TSC-85B(V) only.	P	F
8. Cable TSSP transfer, AN/TSC-85B(V) only.	P	F
9. Cable data patch panel, AN/TSC-85B(V) only.	P	F
10. Cable the KG-194.	P	F
11. Acquire satellite.	P	F
NOTE: Tune down-converter/synthesizer to the beacon frequency that corresponds to the type satellite being used--DSCS II 7250 or 7675.1 MHz or DSCS III 7600 or 7604.7 MHz.		
12. Tune transmitter group, up-converter, and HPA.	P	F
13. Tune receiver group and down-converter.	P	F
14. Operate the OW.	P	F
15. Perform translator system loop test.	P	F
NOTE: Set the CV-1548 2W/4W switches IAW circuit routing list.		
16. Operate ring converter CV-1548.	P	F
17. Operate multiplexer TD-1389.	P	F
18. Operate echo suppressor.	P	F
19. Operate group modem MD-1026, AN/TSC-85B(V) only.	P	F
20. Operate the TD-1337(V).	P	F
21. Reduce output power on RF amplifier AM-6701/TSC.	P	F

Performance Measures	Results	
22. Place OPERATE/STANDBY switch of power supply PP-7712(V)2 in the STANDBY position. CAUTION: HPA blower must run approximately 5 minutes after the OPERATE/STANDBY switch of power supply PP-7712(V)2/TSC is placed in the STANDBY position. HDR: Stopping procedures.	P	F
23. Place the following equipment power switches or circuit breakers in the OFF position.	P	F
a. Down-converter CV-3201A/TSC.	P	F
b. Up-converter CV-3198A/TSC.	P	F
c. Antenna control C-10273/TSC.	P	F
d. Modem MD-945/TSC.	P	F
e. Fault alarm monitor BZ-236A/TSC.	P	F
f. OW unit RT-1287/TSC.	P	F
g. IF translator patch panel, AN/TSC-85B(V) only.	P	F
h. Modem patch panel, AN/TSC-93B(V) only.	P	F
i. LNA control/translator.	P	F
j. LRM TD-1389/G(V).	P	F
k. Echo suppressor MX-9635A/TSC.	P	F
l. Multiplexers TD-1337(V).	P	F
m. Ring converter CV-1548.	P	F
n. Secure sets KY-57 and KG-194.	P	F
o. Intercommunication station LS-147F/F1.	P	F
p. Air conditioners.	P	F
q. Group modem MD-1026.	P	F
24. Place power switches and circuit breakers of power supply PP-7712(V)2 in the OFF position.	P	F
25. Place all power distribution panel switches and circuit breakers in the OFF position.	P	F
26. Place the MAIN POWER circuit breaker in the OFF position.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required	Related
TM 11-5895-1433-12-1	11-10-14
TM 11-5895-1433-12-2	201-113-0321-B
TM 11-5895-1433-34	
TM 11-5895-1434-12-1	
TM 11-5895-1434-12-2	
TM 11-5895-1434-34	
TM 5-6115-585-12	
TM 9-6115-464-12	

PERFORM PMCS ON AN/TSC-85B(V) OR AN/TSC-93B(V)
113-589-3025

Conditions: Given a SATCOM terminal AN/TSC-85B(V) or AN/TSC-93B(V); dry, clean, lint-free cloth or brush; cleaning compound; DA Pam 738-750; TM 5-6115-585-12, TM 9-6115-464-12, TM 11-5895-1433-12-1, TM 11-5895-1433-12-2, TM 11-5895-1433-34, TM 11-5895-1434-12-1, TM 11-5895-1434-12-2, TM 11-5895-1434-34, and TM 11-5895-1127-20; and DA Form 2404.

Standards: The standards are met when no defects are found.

Performance Measures	Results	
NOTE: Refer to TMs 11-5895-1434-12-1/2, 11-5895-1434-34, and 5-6115-585-12 for the AN/TSC-93B(V); TMs 11-5895-1127-20, 11-5895-1433-12-1/2, 11-5895-1433-34, and 9-6115-464-12 for the AN/TSC-85B(V).		
1. Perform before operation PMCS.	P	F
2. Perform during operation PMCS.	P	F
3. Perform after operation PMCS.	P	F
4. Perform weekly PMCS.	P	F
5. Perform semiannual PMCS.	P	F
6. Correct deficiencies repairable by the operator/crew.	P	F
7. Complete DA Form 2404. Record all defects which cannot be immediately corrected.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required	Related
DA Pam 738-750	
TM 11-5895-1127-20	
TM 11-5895-1433-12-1	
TM 11-5895-1433-12-2	
TM 11-5895-1433-34	
TM 11-5895-1434-12-1	
TM 11-5895-1434-12-2	
TM 11-5895-1434-34	
TM 5-6115-585-12	
TM 9-6115-464-12	

**PERFORM PMCS ON 15 KW GENERATOR SET PU-405A
113-601-3018**

Conditions: Given a generator set PU-405A, TMDE and tools listed in TM, cleaning materials, engine lubricating oil, DA Pam 738-750, TM 9-6115-464-12, and DA Form 2404.

Standards: The standards are met when there are no faults or when all deficiencies are reported on DA Form 2404.

Performance Measures	Results	
1. Perform before operation PMCS.	P	F
2. Perform during operation PMCS.	P	F
3. Perform after operation PMCS.	P	F
4. Perform weekly PMCS.	P	F
5. Correct deficiencies found during PMCS.	P	F
6. Complete DA Form 2404.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required
DA Pam 738-750
TM 9-6115-464-12

Related

**PERFORM PMCS ON 10 KW GENERATOR SET PU-753/M
113-601-3021**

Conditions: Given a generator set PU-753/M, TMDE and tools listed in TM, cleaning materials, engine lubricating oil, DA Pam 738-750, TM 5-6115-585-12, and DA Form 2404.

Standards: The standards are met when there are no faults or when all deficiencies are reported on DA Form 2404.

Performance Measures	Results	
1. Perform before operation PMCS.	P	F
2. Perform during operation PMCS.	P	F
3. Perform after operation PMCS.	P	F
4. Perform weekly PMCS.	P	F
5. Correct deficiencies found during PMCS.	P	F
6. Complete DA Form 2404.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

DA Pam 738-750
TM 5-6115-585-12

Related

MAINTAIN TELEPHONE SIGNAL CONVERTER CV-1548/G
113-605-0015

Conditions: Given a defective telephone signal converter CV-1548/G, TMDE and tools listed in TMs, DA Pam 738-750, TM 11-5805-367-12, TM 11-5805-367-34-5, and DA Forms 2404 and/or 2407. NOTE: Equivalent tools and test equipment may be substituted. Individual troubleshooting procedures will not require the use of all test equipment. Supervision and assistance are available for training purposes.

Standards: The standards are met when the equipment is operational.

Performance Measures	Results
1. Visually inspect the equipment for burned, broken, loose, or missing components or wires.	P F
2. Localize trouble to a group of modules or circuits.	P F
3. Isolate the fault using resistance and continuity checks.	P F
4. Replace/repair the defective module or part.	P F
5. Perform final operational test to verify normal equipment operation.	P F
6. Complete DA Form 2404 and/or DA Form 2407.	P F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

- DA Pam 738-750
- TM 11-5805-367-12
- TM 11-5805-367-34-5

Related

**MAINTAIN MULTIPLEXER, DIGITAL TD-1337/G(V)
113-606-0002**

Conditions: Given a digital multiplexer TD-1337/G(V), tools and TMDE listed in TMs, TM 11-7025-221-20, TM 11-7025-221-34, DA Pam 738-750, DA Form 2404, and DA Form 2407. NOTE: Equivalent tools and test equipment may be substituted for equipment listed.

Standards: The standards are met when the equipment is restored to an operational condition by performing pertinent fault isolation procedures and replacing/repairing the defective module; no fault exists in the equipment; or a problem is identified which requires work at a higher maintenance level. Repaired equipment must operate normally upon the first attempt of the FINAL operation test.

Performance Measures	Results	
NOTE: Supervision and assistance are available for training purposes.		
1. Review DA Form 2407.	P	F
2. Visually inspect the equipment for burned, broken, loose, or missing components or wires.	P	F
3. Localize the trouble to a group of modules or circuits.	P	F
4. Isolate the fault using resistance and continuity checks.	P	F
5. Repair/replace the defective module or part.	P	F
6. Perform final operational test to verify normal equipment operation.	P	F
7. Complete DA Forms 2404 and 2407.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

- DA Pam 738-750
- TM 11-7025-221-20
- TM 11-7025-221-34

Related

MAINTAIN LOW RATE MULTIPLEXER (LRM) TD-1389/G(V)
113-606-0091

Conditions: Given a TD-1389/G(V), tools and TMDE as listed in TMs, TM 11-5895-1215-10, TM 11-5895-1215-20, TM 11-5895-1215-34, DA Pam 738-750, DA Form 2404, and DA Form 2407.

Standards: The standards are met when the failure in the TD-1389 is isolated to the LRU, the LRU is removed and replaced, the repair is verified, and the TD-1389 is returned to an operational or standby condition.

Performance Measures	Results	
1. Isolate failure in LRM TD-1389 to LRU.	P	F
a. Perform operator troubleshooting procedure.	P	F
b. Perform organizational troubleshooting procedures.	P	F
c. Perform direct support troubleshooting procedures.	P	F
2. Remove and replace LRU.	P	F
3. Verify TD-1389 is operational.	P	F
4. Return TD-1389 to operational or standby condition.	P	F
5. Complete DA Forms 2404 and 2407.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

- DA Pam 738-750
- TM 11-5895-1215-10
- TM 11-5895-1215-20
- TM 11-5895-1215-34

Related

**MAINTAIN DIGITAL DATA MODEM MD-1026(P)/G
113-606-0102**

Conditions: Given a defective digital data modem MD-1026(P)/G, TMDE and tools listed in TMs, DA Pam 738-750, TM 11-5805-705-12, TM 11-5805-705-34, and DA Forms 2404 and/or 2407. NOTE: Equivalent tools and test equipment may be substituted. Supervision and assistance are available for training purposes.

Standards: The standards are met when the equipment is operational.

Performance Measures	Results	
1. Visually inspect the equipment for burned, broken, loose, or missing components or wires.	P	F
2. Localize trouble to a group of modules or circuits.	P	F
3. Isolate the fault using resistance and continuity checks.	P	F
4. Replace/repair the defective module or part.	P	F
5. Perform final operational test to verify normal equipment operation.	P	F
6. Complete DA Form 2404 and/or DA Form 2407.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

- DA Pam 738-750
- TM 11-5805-705-12
- TM 11-5805-705-34

Related

**OPERATE LOW RATE MULTIPLEXER (LRM) TD-1389/G(V)
113-606-2049**

Conditions: Given a multiplexer TD-1389G(V) and TM 11-5895-1215-10.

Standards: The standards are met when the LRM TD-1389/G(V) is properly configured, passes the self-test, and is passing communications.

Performance Measures	Results	
1. Apply AC power.	P	F
2. Perform system mode change procedure.	P	F
3. Perform memory display procedure.	P	F
4. Perform memory copy procedure.	P	F
5. Perform restart procedures.	P	F
6. Perform composite loopback procedure.	P	F
7. Perform user card loopback procedure.	P	F
8. Perform remote control enable/disable procedure.	P	F
9. Perform on-line polarity changes of data clock signals procedure.	P	F
10. Perform audible alarm enable/disable procedure.	P	F
11. Perform nonvolatile memory clearing procedure.	P	F
12. Perform configuration procedures.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required	Related
TM 11-5895-1215-10	

**PROGRAM MULTIPLEXER DIGITAL TD-1337/G(V)
113-606-2050**

Conditions: Given a TD-1337/G(V) and TM 11-7025-221-10.

Standards: The standards are met when the designated digital multiplexer was programmed and is properly configured to pass communications.

Performance Measures	Results	
1. Apply AC power.	P	F
2. Perform system mode change procedure.	P	F
3. Answer orderwire call routine.	P	F
4. Change orderwire routine.	P	F
5. Composite rate display routine.	P	F
6. Perform VCXO status display routine.	P	F
7. Display test routine.	P	F
8. Perform 5-minute audible alarm inhibit routine.	P	F
9. Perform alarm recall routine.	P	F
10. Use configuration routines.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

TM 11-7025-221-10

Related

Subject Area 6: Tactical Satellite (TACSAT) Antennas

**ASSEMBLE 20-FOOT ANTENNA AS-3199/TSC
113-596-1092**

Conditions: Perform this task only during mild wind conditions (gusting at less than 20 MPH). Given the requirement to assemble antenna AS-3199/TSC in support of a transportable satellite terminal, TM 11-5985-359-13, work gloves, hand tools as required by TM, and a team of at least four personnel.

Standards: The standards are met when the AS-3199/TSC 20-foot antenna is correctly assembled.
WARNING: To prevent any possible injury to personnel or damage to equipment while performing this task, closely follow all warnings and cautions listed in the TM.

Performance Measures	Results
1. Install pedestal assembly.	P F
2. Install tower assembly.	P F
3. Install reflector support assembly.	P F
4. Install feed assembly and junction box.	P F
5. Install reflector assembly.	P F
6. Install ground system.	P F
7. Erect reflector.	P F
8. Install dehydrator.	P F
9. Install RF components.	P F
10. Interconnect power and signal cable.	P F
11. Tie down antenna structure.	P F
12. Adjust data box potentiometer.	P F
13. Adjust transmit interlock.	P F
14. Adjust servo drive limit.	P F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

TM 11-5985-359-13

Related

TM 11-5895-1162-10

TM 11-5895-846-14

**DISASSEMBLE 20-FOOT ANTENNA AS-3199/TSC
113-596-1093**

Conditions: Perform this task only during mild wind conditions (gusting at less than 20 MPH). Given the requirement to disassemble antenna AS-3199/TSC in support of a transportable satellite terminal, TM 11-5985-359-13, work gloves, hand tools as required by TM, and a team of at least four personnel.

Standards: The standards are met when the AS-3199/TSC 20-foot antenna is correctly disassembled.
WARNING: To prevent any possible injury to personnel or damage to equipment while performing this task, closely follow all warnings and cautions listed in the TM.

Performance Measures	Results	
1. Remove peripheral equipment.	P	F
2. Disassemble reflector.	P	F
3. Remove feed and cross elevation drive assembly.	P	F
4. Disassemble reflector support assembly.	P	F
5. Disassemble tower assembly.	P	F
6. Disassemble pedestal assembly.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

TM 11-5985-359-13

Related

TM 11-5895-1162-10

TM 11-5895-846-14

PERFORM PMCS ON 20-FOOT ANTENNA, AS-3199/TSC
113-596-1094

Conditions: Given the requirement to assemble or disassemble antenna AS-3199/TSC in support of a transportable satellite terminal, TM 11-5985-359-13, DA Pam 738-750, and DA Form 2404..

Standards: The standards are met when the AS-3199/TSC 20-foot antenna PMCS has been completed.

Performance Measures	Results	
1. Perform daily PMCS.	P	F
2. Perform weekly PMCS.	P	F
3. Perform monthly PMCS.	P	F
4. Perform quarterly PMCS.	P	F
5. Perform semiannual PMCS.	P	F
6. Perform annual PMCS.	P	F
7. Record results of PMCS on DA Form 2404. (Refer to DA Pam 738-750.)	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

DA Pam 738-750

TM 11-5985-359-13

Related

TM 11-5895-1162-10

TM 11-5895-846-14

ASSEMBLE QUICK ERECT ANTENNA**113-596-1095**

Conditions: Perform this task only during mild wind conditions (gusting at less than 20 MPH). Given the requirement to assemble a quick react antenna in support of a transportable satellite terminal, TM 11-5985-372-13-1, work gloves, hand tools as required by TM, and a team of at least four personnel.

Standards: The standards are met when the quick react antenna is correctly assembled. **WARNING:** To prevent any possible injury to personnel or damage to equipment while performing this task, closely follow all warnings and cautions listed in the TM.

Performance Measures	Results	
1. Remove storage cover.	P	F
2. Align pallet assembly.	P	F
3. Ground antenna.	P	F
4. Remove ladder.	P	F
5. Remove cross-support bracket.	P	F
6. Remove dielectric support assembly storage box.	P	F
7. Operate leveling jack.	P	F
8. Release feed cone assembly from stow.	P	F
9. Remove panel stowage assembly bolts.	P	F
10. Install lightning rod.	P	F
11. Install reflector panel.	P	F
12. Position feed cone assembly.	P	F
13. Install final reflector panel.	P	F
14. Secure reflector panels (for team of three personnel only).	P	F
15. Position AME plate.	P	F
16. Release stow strut.	P	F
17. Connect power.	P	F
18. Deploy antenna.	P	F
19. Remove waveguide support bracket.	P	F
20. Position adjustable strut assembly.	P	F
21. Install cable and waveguide.	P	F
22. Level elevation data box.	P	F
23. Install RF hazard warning light.	P	F
24. Install earth anchor.	P	F
25. Install radiation hazard fence.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

TM 11-5985-372-13-1

Related

DISASSEMBLE QUICK ERECT ANTENNA
113-596-1096

Conditions: Perform this task only during mild wind conditions (gusting at less than 20 MPH). Given the requirement to disassemble a quick erect antenna in support of a transportable satellite terminal, TM 11-5985-372-13-1, work gloves, hand tools as required by TM, and a team of at least four personnel.

Standards: The standards are met when the quick erect antenna is correctly disassembled. **WARNING:** To prevent any possible injury to personnel or damage to equipment while performing this task, closely follow all warnings and cautions listed in the TM.

Performance Measures	Results	
1. Prepare for disassembly.	P	F
2. Remove radiation hazard fence.	P	F
3. Remove cable and waveguide.	P	F
4. Store cable and waveguide.	P	F
5. Install waveguide support bracket.	P	F
6. Stow adjustable strut assemblies.	P	F
7. Stow adjustable struts (for disassembly with three personnel only).	P	F
8. Stow antenna.	P	F
9. Store power cable.	P	F
10. Install stow strut.	P	F
11. Stow AME plate.	P	F
12. Disassemble feed cone.	P	F
13. Store reflector panel.	P	F
14. Lower lightning rod.	P	F
15. Remove leveling jack.	P	F
16. Remove earth anchor tiedowns.	P	F
17. Store ladder.	P	F
18. Store work platform.	P	F
19. Store cover installation.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

TM 11-5985-372-13-1

Related

PERFORM PMCS ON QUICK ERECT ANTENNA
113-596-1097

Conditions: Perform this task only during mild wind conditions (gusting at less than 20 MPH). Given the requirement to PMCS a quick react antenna in support of a transportable satellite terminal, TM 11-5985-372-13-1, work gloves, hand tools as required by TM, DA Pam 738-750, and DA Form 2404.

Standards: The standards are met when the PMCS of the quick react antenna is completed. **WARNING:** To prevent any possible injury to personnel or damage to equipment while performing this task, closely follow all warnings and cautions listed in the TM.

Performance Measures	Results	
1. Perform before operation PMCS.	P	F
2. Perform during operation PMCS.	P	F
3. Perform monthly PMCS.	P	F
4. Record results of PMCS on DA Form 2404. (Refer to DA Pam 738-750.)	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

DA Pam 738-750

TM 11-5985-372-13-1

Related

Subject Area 7: SATCOM Signal Administration

**PREPARE SATCOM TERMINAL REPORT FOR THE DSCS OPERATIONS CENTER (DSCSOC)
113-590-6000**

Conditions: Given a SATCOM terminal in normal operation and DISAC 800-70-1.

Standards: The standards are met when the report is properly transmitted to and received by the DSCSOC.

Performance Measures	Results	
NOTE: Send an 8-hour ET report.		
1. Determine beacon C/KT.	P	F
2. Identify A codes for each carrier.	P	F
3. Determine C/KT for each carrier.	P	F
4. Determine Eb/No for each carrier.	P	F
5. Determine alpha flunk/pseudo for each carrier.	P	F
6. Identify errors or channel errors for each carrier.	P	F
7. Determine the power of each transmitter.	P	F
8. Provide total power output.	P	F
9. Give current weather conditions.	P	F
10. Provide the type of tracking in use (tracking status).	P	F
11. Provide the number of HAZCONs still open.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required
DISAC 800-70-1

Related

PREPARE HAZARDOUS CONDITIONS (HAZCON) REPORT
113-590-6001

Conditions: Given a defective SATCOM terminal and DISAC 800-70-1.

Standards: The standards are met when the properly formatted report is transmitted to and received by the DSCSOC.

Performance Measures	Results	
NOTE: HDR: Reporting HAZCON opening.		
1. Contact the DSCSOC via TCC.	P	F
2. Provide date-time group (DTG) of opening.	P	F
3. Identify the equipment the HAZCON is for.	P	F
4. Provide estimated time of restoral/repair in DTG format.	P	F
5. Identify parts required or ordered, if applicable.	P	F
6. Identify if outside assistance is required.	P	F
7. Provide any other pertinent information such as maintenance status.	P	F
NOTE: HDR: Reporting HAZCON closing.		
8. Contact the DSCSOC via TCC and refer to specific open HAZCON.	P	F
9. Provide DTG of opening.	P	F
10. Provide DTG of closing.	P	F
11. Identify corrective action taken.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required
 DISAC 800-70-1

Related

**PREPARE SATCOM EQUIPMENT REPORT (SER)
113-623-2016**

Conditions: Given DISAC 270-A85-1, DD Form 173/1, and specific information on type of report.

Standards: The standards are met when a report is properly prepared for transmittal.

Performance Measures	Results	
1. Determine if incident is reportable.	P	F
2. Determine report type.	P	F
3. Determine report precedence (priority, immediate, routine).	P	F
4. Address DD Form 173/1.	P	F
5. Complete SER serial number and appropriate items 1 through 12.	P	F
6. Submit completed SER to supervisor for review.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required
DISAC 270-A85-1

Related

Subject Area 8: Transportable SATCOM Terminals AN/GSC-49(V) and AN/TSC-86(V)

MAINTAIN POWER DISTRIBUTION, AN/TSC-86(V)

113-590-0135

Conditions: Given a defective power distribution panel, tools and TMDE listed in Table 7-2 of TM, DA Pam 738-750, TM 11-5895-846-14, and DA Forms 2404 and/or 2407.

Standards: The standards are met when the power distribution panel is in an operational or standby condition. **DANGER: VOLTAGES DANGEROUS TO LIFE ARE IN THE POWER DISTRIBUTION PANEL.** Exercise extreme care if voltage checks are performed. If continuity checks are performed, disconnect the main power input cables from the shelter power entry panel MAIN POWER 1 and 2 connectors.

Performance Measures	Results	
1. Check power distribution panel controls and indicators for proper indications.	P	F
2. Isolate power distribution panel failure to the LRU.	P	F
3. Remove and replace the failed LRU.	P	F
4. Test and verify the power distribution panel is operational.	P	F
5. Return the power distribution panel to an operational condition.	P	F
6. Complete DA Form 2404 and/or DA Form 2407.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

DA Pam 738-750
 TM 11-5895-846-14

Related

**MAINTAIN UP-CONVERTER CV-3199/TSC, AN/TSC-86(V)
113-590-0137**

Conditions: Given a defective up-converter CV-3199/TSC, tool kit TK-105/G or equivalent, multimeter AN/USM-233 or equivalent, DA Pam 738-750, TM 11-5895-846-14, and DA Forms 2404 and/or 2407.

Standards: The standards are met when the up-converter is in an operational or standby condition.
DANGER: DANGEROUS VOLTAGES EXIST IN THIS EQUIPMENT. Do not attempt any removal or replacement unless the equipment is in a nonoperating condition and all power circuit breakers on the power distribution panel are in the OFF position.

Performance Measures	Results	
1. Isolate up-converter failure to the LRU.	P	F
2. Remove and replace the failed LRU.	P	F
3. Test and verify the up-converter is operational.	P	F
4. Return the up-converter to an operational or standby condition.	P	F
5. Complete DA Form 2404 and/or DA Form 2407.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

DA Pam 738-750
 TM 11-5895-846-14

Related

**MAINTAIN AMPLIFIER/MIXER ASSEMBLY AM-6704/TSC, AN/TSC-86(V)
113-590-0138**

Conditions: Given a defective amplifier/mixer assembly AM-6704/TSC, DA Pam 738-750, TM 11-5895-846-14, tool kit TK-105/G or equivalent, and DA Forms 2404 and/or 2407.

Standards: The standards are met when the amplifier/mixer is in an operational or standby condition. **DANGER: DANGEROUS VOLTAGES EXIST IN THIS EQUIPMENT.** Do not attempt any removal or replacement unless the equipment is in a nonoperating condition and all power circuit breakers on the power distribution panel are in the OFF position.

Performance Measures	Results	
1. Isolate amplifier/mixer failure to the LRU.	P	F
2. Remove and replace the failed LRU.	P	F
3. Test and verify the amplifier/mixer is operational.	P	F
4. Return the amplifier/mixer to an operational condition.	P	F
5. Prepare maintenance forms to order replacement parts or request higher level maintenance.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

DA Pam 738-750
TM 11-5895-846-14

Related

**MAINTAIN DOWN-CONVERTER CV-3200/TSC, AN/TSC-86(V)
113-590-0140**

Conditions: Given a defective down-converter CV-3200/TSC, tool kit TK-105/G or equivalent, DA Pam 738-750, TM 11-5895-846-14, and DA Forms 2404 and/or 2407.

Standards: The standards are met when the down-converter is in an operational or standby condition. **DANGER: DANGEROUS VOLTAGES EXIST IN THIS EQUIPMENT.** Do not attempt any removal or replacement unless the equipment is in a nonoperating condition and all power circuit breakers on the power distribution panel are in the OFF position. **NOTE:** Test procedures are based on the use of BITE; no additional support equipment or test equipment is required.

Performance Measures	Results	
1. Isolate down-converter failure to the LRU.	P	F
2. Remove and replace the failed LRU.	P	F
3. Test and verify the down-converter is operational.	P	F
4. Return the down-converter to an operational or standby condition.	P	F
5. Complete DA Form 2404 and/or DA Form 2407.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

DA Pam 738-750
TM 11-5895-846-14

Related

MAINTAIN ALARM MONITOR PANEL BZ-236/TSC, AN/TSC-86(V)
113-590-0141

Conditions: Given a defective alarm monitor panel BZ-236/TSC, tool kit TK-105/G or equivalent, DA Pam 738-750, TM 11-5895-846-14, and DA Forms 2404 and/or 2407. NOTE: Fault isolation procedures are based on observation of front panel indications. No additional support or test equipment is required.

Standards: The standards are met when the alarm monitor is in an operational or standby condition.

Performance Measures	Results
1. Isolate alarm monitor failure to the LRU.	P F
2. Remove and replace the failed LRU.	P F
3. Test and verify the alarm monitor is operational.	P F
4. Return the alarm monitor to an operational condition.	P F
5. Prepare maintenance forms to order replacement parts or request higher level maintenance.	P F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

DA Pam 738-750
 TM 11-5895-846-14

Related

**INSTALL TRANSPORTABLE SATCOM TERMINAL AN/GSC-49(V) OR AN/TSC-86(V)
113-590-1005**

Conditions: Given the requirement to install a transportable satellite terminal at a designated field location and the coordinates of the satellite to be used and TM 11-5895-1162-10 for AN/GSC-49(V) or TM 11-5895-846-14 for AN/TSC-86(V), hand tools and materials as required by TM, and a team of at least four personnel. NOTE: Winds must be less than 20 MPH during the antenna assembly phase of the task.

Standards: The standards are met when the transportable satellite terminal can establish site-to-site communications with another terminal. No damage to equipment or injury to personnel shall result from the performance of this task. WARNING: To prevent any possible injury to personnel or damage to equipment while performing this task, closely follow all warnings and cautions listed in the appropriate TM.

Performance Measures	Results	
1. Locate sighting points.	P	F
2. Perform shelter, power transfer switch, and generator placement.	P	F
3. Perform generator setup.	P	F
4. Assemble antenna.	P	F
5. Install ground and power cables.	P	F
6. Install external user cables.	P	F
7. Install sun shade (if appropriate).	P	F
8. Install radiation hazard fence.	P	F
9. Anchor antenna and shelter.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

TM 11-5895-1162-10

TM 11-5895-846-14

Related

**MAINTAIN SATELLITE COMMUNICATIONS (SATCOM) TERMINAL AN/TSC-86(V)
113-590-2045**

Conditions: Given a defective AN/TSC-86(V), DA Pam 738-750, TM 11-5895-846-14, and DA Forms 2404 and/or 2407.

Standards: The standards are met when the equipment is operational.

Performance Measures	Results	
1. Isolate the AN/TSC-86(V) system failure to a faulty unit.	P	F
2. Restore communications by performing the following in sequence:	P	F
a. If failed equipment has redundancy, transfer to standby equipment.	P	F
b. If equipment is not totally redundant, the highest priority circuits receive precedence for restored service.	P	F
3. Coordinate with the satellite controller if any changes in transmit power are required.	P	F
4. Test and verify that communications or other site requirements are restored and fully operational.	P	F
5. Complete DA Form 2404 and/or DA Form 2407.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

DA Pam 738-750
TM 11-5895-846-14

Related

**ESTABLISH SITE-TO-SITE COMMUNICATIONS WITH AN AN/TSC-86(V) TERMINAL
113-590-2047**

Conditions: Given the requirement to establish communications with another terminal using an AN/TSC-86(V) terminal and TM 11-5895-846-14.

Standards: The standards are met when site-to-site communications are successfully established..

Performance Measures	Results	
1. Access the satellite (with controller's permission) with a single carrier.	P	F
2. Establish OW communications.	P	F
3. Verify operating data, modes, rates, and inputs are all correct and functional.	P	F
4. Repeat performance measures 1 through 3 for each carrier.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required
TM 11-5895-846-14

Related

**PERFORM OPERATOR/CREW PMCS ON AN/TSC-86(V)
113-590-3128**

Conditions: Given an AN/TSC-86(V), 30 kw skid-mounted generator set; tool kit TK-105/G or equivalent; dry, clean, lint-free cloth; cleaning compound; lamp fuses; Krylon #1323 cleaner; DA Pam 738-750; TM 11-5895-846-14 and TM 5-6115-465-12; and DA Form 2404.

Standards: The standards are met when no alarms or defects are recorded on DA Form 2404.

Performance Measures	Results	
1. Perform before operation PMCS.	P	F
2. Perform during operation PMCS.	P	F
3. Perform weekly PMCS.	P	F
4. Perform special PMCS on filters, as needed.	P	F
5. Perform monthly PMCS.	P	F
6. Perform PMCS on antenna AS-3036/TSC.	P	F
7. Perform PMCS on power pallet.	P	F
8. Record PMCS results on DA Form 2404.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

- DA Pam 738-750
- TM 11-5895-846-14
- TM 5-6115-465-12

Related

**MAINTAIN ANALOG/DIGITAL CONVERTER CV-3034A/G, AN/TSC-86(V)
113-605-0022**

Conditions: Given a defective analog/digital (A/D) converter CV-3034A/G, tools and TMDE listed in the TM, DA Pam 738-750, TM 11-5895-797-14, and DA Forms 2404 and/or 2407.

Standards: The standards are met when the A/D converter is in an operational or standby condition.

Performance Measures	Results	
1. Isolate A/D converter failure to the LRU.	P	F
2. Remove and replace the failed LRU.	P	F
3. Test and verify the A/D converter is operational.	P	F
4. Return the A/D converter to an operational or standby condition.	P	F
5. Complete DA Form 2404 and/or DA Form 2407.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

DA Pam 738-750
TM 11-5895-797-14

Related

TM 11-5895-846-14

Subject Area 9: Transportable SATCOM Terminal AN/GSC-49(V)

MAINTAIN FAULT ALARM MONITOR UNIT (FAMU), AN/GSC-49(V)
113-590-0112

Conditions: Given a SATCOM terminal AN/GSC-49(V), tools listed in TMs, TM 11-5895-1162-24-1, TM 11-5895-1162-24-2, TM 11-5895-1162-10, DA Pam 738-750, and DA Forms 2404 and/or 2407.

Standards: The standards are met when the FAMU is restored to an operational or standby condition.

Performance Measures	Results	
1. Isolate the FAMU failure to the LRU.	P	F
2. Remove and replace the failed LRU.	P	F
3. Test and verify the FAMU is fully operational.	P	F
4. Return the FAMU to an operational or standby condition.	P	F
5. Complete DA Form 2404 and/or DA Form 2407.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

DA Pam 738-750
TM 11-5895-1162-10
TM 11-5895-1162-24-1
TM 11-5895-1162-24-2

Related

**MAINTAIN RADIO FREQUENCY AMPLIFIER OR HIGH POWER AMPLIFIER (HPA), AN/GSC-49(V)
113-590-0113**

Conditions: Given a SATCOM terminal AN/GSC-49(V), tools listed in TMs, TM 11-5895-1162-24-1, TM 11-5895-1162-24-2, TM 11-5895-1162-10, DA Pam 738-750, and DA Forms 2404 and/or 2407.

Standards: The standards are met when the HPA is restored to an operational or standby condition.

Performance Measures	Results	
1. Isolate the HPA failure to the LRU.	P	F
2. Remove and replace the failed LRU.	P	F
3. Test and verify the RF power monitor/power density tracker is fully operational.	P	F
4. Return the RF power monitor/power density tracker to an operational or standby condition.	P	F
5. Complete DA Form 2404 and/or DA Form 2407.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

- DA Pam 738-750
- TM 11-5895-1162-10
- TM 11-5895-1162-24-1
- TM 11-5895-1162-24-2

Related

MAINTAIN HIGH VOLTAGE POWER SUPPLY (HVPS), AN/GSC-49(V)
113-590-0114

Conditions: Given a SATCOM terminal AN/GSC-49(V), tools listed in TMs, TM 11-5895-1162-24-1, TM 11-5895-1162-24-2, TM 11-5895-1162-10, DA Pam 738-750, and DA Forms 2404 and/or 2407.

Standards: The standards are met when the HVPS is restored to an operational or standby condition.

Performance Measures	Results	
1. Isolate the HVPS failure to the LRU.	P	F
2. Remove and replace the failed LRU.	P	F
3. Test and verify the HVPS is fully operational.	P	F
4. Return the HVPS to an operational or standby condition.	P	F
5. Complete DA Form 2404 and/or DA Form 2407.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

TM 11-5895-1162-10
TM 11-5895-1162-24-1
TM 11-5895-1162-24-2

Related

DA Pam 738-750

MAINTAIN UP-CONVERTER, AN/GSC-49(V)
113-590-0115

Conditions: Given a SATCOM terminal AN/GSC-49(V) with a defective up-converter, tools and TMDE listed in TMs, TM 11-5895-1162-24-1, TM 11-5895-1162-24-2, TM 11-5895-1162-10, DA Pam 738-750, and DA Forms 2404 and/or 2407.

Standards: The standards are met when the up-converter is restored to an operational or standby condition.

Performance Measures	Results	
1. Isolate the up-converter failure to the LRU.	P	F
2. Remove and replace the failed LRU.	P	F
3. Test and verify the up-converter is fully operational.	P	F
4. Return the up-converter to an operational or standby condition.	P	F
5. Complete DA Form 2404 and/or DA Form 2407.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required	Related
DA Pam 738-750	
TM 11-5895-1162-10	
TM 11-5895-1162-24-1	
TM 11-5895-1162-24-2	

**MAINTAIN RADIO FREQUENCY POWER MONITOR/POWER DENSITY TRACKER, AN/GSC-49(V)
113-590-0116**

Conditions: Given a SATCOM terminal AN/GSC-49(V) with a defective power monitor/power density tracker, tools and TMDE listed in TMs, TM 11-5895-1162-24-1, TM 11-5895-1162-24-2, TM 11-5895-1162-10, DA Pam 738-750, and DA Forms 2404 and/or 2407.

Standards: The standards are met when the RF power monitor/power density tracker is restored to an operational or standby condition.

Performance Measures	Results	
1. Isolate the RF power monitor/power density tracker failure to the LRU.	P	F
2. Remove and replace the failed LRU.	P	F
3. Test and verify the RF power monitor/power density tracker is fully operational.	P	F
4. Return the RF power monitor/power density tracker to an operational or standby condition.	P	F
5. Complete DA Form 2404 and/or DA Form 2407.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required	Related
DA Pam 738-750	
TM 11-5895-1162-10	
TM 11-5895-1162-24-1	
TM 11-5895-1162-24-2	

**MAINTAIN LNA CONTROL/TRANSLATOR, AN/GSC-49(V)
113-590-0118**

Conditions: Given a SATCOM terminal AN/GSC-49(V) with a defective LNA control/translator, tools and TMDE listed in TMs, TM 11-5895-1162-24-1, TM 11-5895-1162-24-2, TM 11-5895-1162-10, DA Pam 738-750, and DA Forms 2404 and/or 2407.

Standards: The standards are met when the LNA is restored to an operational or standby condition.

Performance Measures	Results	
1. Isolate the LNA control/translator failure to the LRU.	P	F
2. Remove and replace the failed LRU.	P	F
3. Test and verify the LNA control translator is fully operational.	P	F
4. Return LNA control translator to an operational or standby condition.	P	F
5. Complete DA Form 2404 and/or DA Form 2407.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

- DA Pam 738-750
- TM 11-5895-1162-10
- TM 11-5895-1162-24-1
- TM 11-5895-1162-24-2

Related

MAINTAIN DOWN-CONVERTER, AN/GSC-49(V)
113-590-0119

Conditions: Given a SATCOM terminal AN/GSC-49(V) with a defective down-converter, tools and TMDE listed in TMs, TM 11-5895-1162-24-1, TM 11-5895-1162-24-2, TM 11-5895-1162-10, DA Pam 738-750, and DA Forms 2404 and/or 2407.

Standards: The standards are met when the down-converter is restored to an operational or standby condition.

Performance Measures	Results
1. Isolate the failure in the down-converter to the LRU.	P F
2. Remove and replace the failed LRU.	P F
3. Test and verify the down-converter is fully operational.	P F
4. Return the down-converter to an operational or standby condition.	P F
5. Complete DA Form 2404 and/or DA Form 2407.	P F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required	Related
DA Pam 738-750	
TM 11-5895-1162-10	
TM 11-5895-1162-24-1	
TM 11-5895-1162-24-2	

MAINTAIN WAVEGUIDE AND COMBINER ASSEMBLY, AN/GSC-49(V)
113-590-0120

Conditions: Given a SATCOM terminal AN/GSC-49(V) with a defective waveguide and combiner assembly, tools and TMDE listed in TMs, TM 11-5895-1162-24-1, TM 11-5895-1162-24-2, TM 11-5895-1162-10, DA Pam 738-750, and DA Forms 2404 and/or 2407.

Standards: The standards are met when the waveguide and combiner assembly is restored to an operational or standby condition.

Performance Measures	Results	
1. Isolate the waveguide and combiner assembly failure to the LRU.	P	F
2. Remove and replace the failed LRU.	P	F
3. Test and verify the waveguide and combiner assembly is fully operational.	P	F
4. Return the waveguide and combiner assembly to an operational or standby condition.	P	F
5. Complete DA Form 2404 and/or DA Form 2407.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required	Related
DA Pam 738-750	
TM 11-5895-1162-10	
TM 11-5895-1162-24-1	
TM 11-5895-1162-24-2	

MAINTAIN POWER DISTRIBUTION, AN/GSC-49(V)

113-590-0123

Conditions: Given a SATCOM terminal AN/GSC-49(V) with a defective power distribution, tools and TMDE listed in TMs, TM 11-5895-1162-24-1, TM 11-5895-1162-24-2, TM 11-5895-1162-10, DA Pam 738-750, and DA Forms 2404 and/or 2407.

Standards: The standards are met when the power distribution is restored to an operational or standby condition.

Performance Measures	Results	
1. Isolate the power distribution failure to the LRU.	P	F
2. Remove and replace the failed LRU.	P	F
3. Test and verify the power distribution is fully operational.	P	F
4. Return the power distribution to an operational or standby condition.	P	F
5. Complete DA Form 2404 and/or DA Form 2407.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

- DA Pam 738-750
- TM 11-5895-1162-10
- TM 11-5895-1162-24-1
- TM 11-5895-1162-24-2

Related

**MAINTAIN FREQUENCY STANDARD SUBGROUP, AN/GSC-49(V)
113-590-0124**

Conditions: Given a SATCOM terminal AN/GSC-49(V) with a defective frequency standard subgroup, tools and TMDE listed in TMs, TM 11-5895-1162-24-1, TM 11-5895-1162-24-2, TM 11-5895-1162-10, DA Pam 738-750, and DA Forms 2404 and/or 2407.

Standards: The standards are met when the frequency standard subgroup is restored to an operational or standby condition.

Performance Measures	Results
1. Isolate the frequency standard subgroup failure to the LRU.	P F
2. Remove and replace the failed LRU.	P F
3. Test and verify the frequency standard subgroup is fully operational.	P F
4. Return the frequency standard subgroup to an operational or standby condition.	P F
5. Complete DA Form 2404 and/or DA Form 2407.	P F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required	Related
DA Pam 738-750	
TM 11-5895-1162-10	
TM 11-5895-1162-24-1	
TM 11-5895-1162-24-2	

MAINTAIN SATCOM TERMINAL AN/GSC-49(V)
113-590-0163

Conditions: Given a SATCOM terminal AN/GSC-49(V), tool kit TK-105/G, AN/PSM-45 multimeter, torque wrench, beryllium (BeCu) tools for klystron, tools listed in TMs, TM 11-5895-1162-10, TM 11-5895-1162-24-1, TM 11-5895-1162-24-2, DISAC 800-E70-11, DA Pam 738-750, and DA Forms 2404 and/or 2407.

Standards: The standards are met when the AN/GSC-49(V) is tested and verified as fully operational.

Performance Measures	Results	
1. Identify failed unit using BITE and the FAMU.	P	F
2. Restore and verify all communications are correct.	P	F
3. Troubleshoot FAMU using BITE and/or TMDE.	P	F
CAUTION: BeCu tools are required to remove and replace klystron. DANGER: HIGH VOLTAGES.		
4. Troubleshoot RF HPA using BITE and/or TMDE.	P	F
5. Troubleshoot HVPS using BITE and/or TMDE.	P	F
6. Troubleshoot up-converter using BITE and/or TMDE.	P	F
7. Troubleshoot RF power monitor/power density tracker using BITE and/or TMDE.	P	F
8. Troubleshoot LNA control/translator using BITE and/or TMDE.	P	F
9. Troubleshoot down-converter using BITE and/or TMDE.	P	F
10. Troubleshoot waveguide and combiner assembly using BITE and/or TMDE.	P	F
11. Troubleshoot DCSCU using BITE and/or TMDE.	P	F
DANGER: RF RADIATION HAZARD.		
12. Troubleshoot antenna-mounted electronics (AME) using BITE and/or TMDE.	P	F
13. Troubleshoot line conditioner using BITE and/or TMDE.	P	F
DANGER: HIGH VOLTAGES.		
14. Troubleshoot power distribution using BITE and/or TMDE.	P	F
15. Troubleshoot frequency standard subgroup using BITE and/or TMDE.	P	F
16. Complete DA Form 2404 and/or DA Form 2407.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

DA Pam 738-750

DISAC 800-E70-11

TM 11-5895-1162-10

TM 11-5895-1162-24-1

TM 11-5895-1162-24-2

Related

OPERATE SATCOM TERMINAL AN/GSC-49(V)
113-590-2137

Conditions: Given a SATCOM terminal AN/GSC-49(V), DA Pam 738-750, DISAC 800-E70-11, TM 5-6115-545-12, TM 11-5895-1162-10, site SOP, applicable TSOs, DA Form 2404, and DD Form 1970.

Standards: The standards are met when the AN/GSC-49(V) operator can power up, perform day-to-day operations, and shut down the shelter under normal and unusual conditions. **DANGER: HAZARD POTENTIAL.** Possibility of electrical shock, moving machinery, fuel burns, or explosions exist when performing this task.

Performance Measures	Results	
1. Operate generator under unusual conditions. DANGER: RF RADIATION HAZARD.	P	F
2. Adjust antenna elevation safety switches.	P	F
3. Operate power transfer switch.	P	F
4. Power up shelter.	P	F
5. Operate IF/RF patch panel.	P	F
6. Operate frequency standard patch panel.	P	F
7. Operate baseband patch panel.	P	F
8. Acquire satellite beacon tracking.	P	F
9. Acquire satellite power density tracking.	P	F
10. Operate transmitter.	P	F
11. Operate in combined power.	P	F
12. Operate down-converter.	P	F
13. Complete DA Form 2404 and DD Form 1970.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

Applicable TSO
DA Pam 738-750
DISAC 800-E70-11
TM 11-5895-1162-10
TM 5-6115-545-12
Unit SOP

Related

TM 11-5895-808-13-1

PERFORM PMCS ON SATCOM TERMINAL AN/GSC-49(V)
113-590-3153

Conditions: Given an AN/GSC-49(V) SATCOM terminal, hand tools and TMDE as required, TM 9-4120-360-14, TM 11-5815-602-10, TM 11-5895-808-13-2, TM 11-5895-1162-10, TM 11-5895-1162-24-1, TM 11-5895-1179-13, DA Pam 738-750, and DA Form 2404.

Standards: The standards are met when no alarms or deficiencies are recorded on DA Form 2404.

Performance Measures

Results

NOTE: Time constraints and site requirements may prohibit the ability of the soldier to satisfactorily complete this task at one time. Over a period of time the soldier must demonstrate the ability to perform all TM and site prescribed PMCS. WARNING: Observe all safety warnings and cautions.

1. Perform operator level PMCS. (Refer to TM 11-5895-1162-10.)	P	F
a. Up-converter CV-3710/GSC.	P	F
b. RF power monitor/power density tracker ID-2290/GSC.	P	F
c. Down-converter CV-3709/GSC.	P	F
d. Antenna AS-3036/TSC (when applicable).	P	F
e. Antenna AS-3199/TSC (when applicable).	P	F
f. Environmental control unit (ECU) F18T-2.	P	F
g. Mobilizer A/M 32U-17.	P	F
h. Generator set PU-650B/G.	P	F
2. Perform organizational level PMCS. (Refer to TM 11-5895-1162-24-1.)	P	F
a. FAMU.	P	F
b. RF amplifier.	P	F
c. Up- and down-converters.	P	F
d. Antenna control.	P	F
e. Antenna AS-3199/TSC, 20-foot.	P	F
f. Antenna AS-3036/TSC, 8-foot. (Refer to TM 11-5895-1162-10.)	P	F
g. Encoder/decoder. (Refer to TM 11-5895-1179-13.)	P	F
h. Transceiver AN/USC-28. (Refer to TM 11-5895-808-13-2.)	P	F
i. UTE.	P	F
j. Encryptor.	P	F
k. Generator set PU-650B/G.	P	F
l. ECU. (Refer to TM 9-4120-360-14.)	P	F
m. Shelter.	P	F
3. Record PMCS results on appropriate forms/records. (Refer to DA Pam 738-750.)	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

DA Pam 738-750
TM 11-5815-602-10
TM 11-5895-1162-10
TM 11-5895-1162-24-1
TM 11-5895-1179-13
TM 11-5895-808-13-2
TM 9-4120-360-14

Related

Subject Area 10: Satellite Systems/Network Coordinator

DEFINE SATELLITE NETWORK SCENARIO ON DOSS, AN/FYQ-110
113-581-2267

Conditions: Given a DOSS AN/FYQ-110, computer terminal, GSD-TR-5644 DOSS User Manual, and TM 11-5895-1390-13.

Standards: The standards are met when the options of the scenario definition are manipulated to define a scenario.

Performance Measures	Results	
1. Select scenario definition at the top level menu.	P	F
2. Select multiple scenarios.	P	F
a. Use the options to modify/name the scenarios.	P	F
b. Level up to scenario definition.	P	F
3. Select satellite configuration.	P	F
a. Use options to set antenna connectivity, beam weights, gain states, backoff, and power reference.	P	F
b. Level up to scenario definition.	P	F
4. Select alarm thresholds.	P	F
a. Use options to set or modify thresholds.	P	F
b. Level up to scenario definition.	P	F
5. Select terminals.	P	F
a. Use options to enter, list, modify, retrieve, display, or delete terminal data.	P	F
b. Level up to scenario definition.	P	F
6. Select frequency division multiple access (FDMA) links.	P	F
a. Use options to enter, list, modify, retrieve, display, or delete FDMA links.	P	F
b. Level up to scenario definition.	P	F
7. Select option one: ECCM scenario definition.	P	F
a. Use options to set or modify configuration parameters.	P	F
b. Level up to scenario definition.	P	F
8. Select frequency hop (FH) links.	P	F
a. Use option to enter, list, modify, delete, or display FH link parameters.	P	F
b. Level up to scenario definition.	P	F
9. Select option four: subnets.	P	F
a. Use options to enter, list, modify, delete, or display subnet parameters.	P	F
b. Level up to scenario definition.	P	F
10. Select option five: jammers. Use options to enter, list, modify, delete, retrieve, or display jammer parameters.	P	F
11. Level up to top level menu after completing required actions in defining the scenario.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

STP 11-31S14-SM-TG

References

Required

GSD-TR-5644

TM 11-5895-1390-13

Related

**PERFORM GEOMETRIC CALCULATIONS ON DOSS, AN/FYQ-110
113-581-2270**

Conditions: Given a DOSS AN/FYQ-110, computer terminal, GSD-TR-5644 DOSS User Manual, Satellite Reference Data Handbook (Volume 2), and TM 11-5895-1390-13.

Standards: The standards are met when the analysis process is completed.

Performance Measures	Results	
1. Select analysis support at the top level menu.	P	F
2. Select lists/modify satellite subpoint position of the analysis support subsystem menu. Position the satellite as needed.	P	F
3. Select and perform satellite analysis processing of the analysis support subsystem to generate required data.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

GSD-TR-5644
Sat Ref Data Handbook
TM 11-5895-1390-13

Related

COMMUNICATE WITH SCCE USING DOSS, AN/FYQ-110
113-581-2275

Conditions: Given a DOSS AN/FYQ-110, computer terminal, GSD-TR-5644 DOSS User Manual, and TM 11-5895-1390-13.

Standards: The standards are met when tasking, configuration, and verification data is transferred.

Performance Measures	Results	
1. Select satellite tasking and configuration on DNPS top level menu.	P	F
2. Select option to send appropriate data to the SCCE and set the time of transmission.	P	F
3. Select option of tasking and configuration top level menu to send data.	P	F
4. Select option of tasking and configuration top level menu to read data from SCCE.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

GSD-TR-5644

TM 11-5895-1390-13

Related

**PERFORM ANALYSIS OF REPORT AND PLOTS FROM DOSS, AN/FYQ-110
113-581-2282**

Conditions: Given a DOSS AN/FYQ-110, computer terminal, GSD-TR-5644 DOSS User Manual, and TM 11-5895-1390-13.

Standards: The standards are met when the desired report or plot is generated and analyzed.

Performance Measures	Results	
1. Select report generation at the DNPS top level menu.	P	F
2. Generate a report by entering the appropriate numerical key entries for the specific report.	P	F
3. Generate an antenna plot by entering the appropriate flags and options for the specific plot as required.	P	F
4. Generate a frequency plot by entering channel or frequency range within a channel.	P	F
5. Generate a summary report by entering the appropriate numerical key entries and flags for the specific report.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required	Related
GSD-TR-5644	
TM 11-5895-1390-13	

PERFORM ANALYSIS OF REPORTS USING DASA, AN/FSQ-142
113-581-2286

Conditions: Given a DASA system, computer terminal, GSD-TR-5645 DASA System User Manual, and TM 11-5895-1391-13.

Standards: The standards are met when the reports/plots are analyzed to ensure carrier specifications are met or corrected to meet requirements.

Performance Measures	Results	
1. Retrieve required reports/plots in the DASA.	P	F
2. Analyze data from the reports.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

GSD-TR-5645

TM 11-5895-1391-13

Related

**CHARACTERIZE SATELLITE LINK USING DOSS, AN/FYQ-110 AND DASA, AN/FSQ-142
113-583-2603**

Conditions: Given an AN/FYQ-110, AN/FSQ-142, TM 11-5895-1390-13, and TM 11-5895-1391-13.

Standards: The standards are met when the soldier can operate, control, monitor, and perform resource planning of a satellite network using the DOSS/DASA system.

Performance Measures	Results	
1. Perform initial equipment checks and controls prior to system turn-on.	P	F
2. Perform DOSS/DASA power turn-on and initialization procedures.	P	F
3. Perform DOSS/DASA log-on procedures.	P	F
4. Perform DOSS/DASA operations using static database scenario to compute FDMA network downlink C/KT, EIRP, bandwidth, and power.	P	F
5. Save active database.	P	F
6. Perform DOSS/DASA log-off procedures.	P	F
7. Perform shutdown procedures for DOSS/DASA.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

- TM 11-5895-1390-13
- TM 11-5895-1391-13

Related

**MAINTAIN DSCS ECCM CONTROL SUBSYSTEM-CENTRAL COMPONENT (DECS-CC) AN/FSC-115
113-590-0166**

Conditions: Given a defective AN/FSC-115, DA Pam 738-750, tools and TMDE listed in TM, TM 11-5895-1399-13, and DA Forms 2404 and/or 2407.

Standards: The standards are met when the system is returned to an operational condition.

Performance Measures	Results	
1. Troubleshoot computer to the LRU. Remove and replace the LRU. Verify repair and return to an operational condition.	P	F
2. Troubleshoot DECS-CC to the LRU. Remove and replace the LRU. Verify repair and return to an operational condition.	P	F
3. Troubleshoot printer to the LRU. Remove and replace the LRU. Verify repair and return to an operational condition.	P	F
4. Complete DA Forms 2404 and/or DA Form 2407.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

DA Pam 738-750

TM 11-5895-1399-13

Related

TM 11-5895-808-13-1

TM 11-5895-808-13-2

**MAINTAIN RADIO FREQUENCY INTERFACE SUBSYSTEM (RFIS) AN/FSQ-150
113-590-0167**

Conditions: Given a defective AN/FSQ-150, DA Pam 738-750, tools and TMDE listed in TM, TM 11-5895-1338-13, and DA Forms 2404 and/or 2407.

Standards: The standards are met when the system is returned to an operational condition.

Performance Measures	Results	
1. Troubleshoot switching network to the LRU. Remove and replace the LRU. Verify repair and return to an operational condition.	P	F
2. Troubleshoot cesium standard to the LRU. Remove and replace the LRU. Verify repair and return to an operational condition.	P	F
3. Troubleshoot disciplined time frequency (DTF) chassis to the LRU. Remove and replace the LRU. Verify repair and return to an operational condition.	P	F
4. Troubleshoot DTF standard module to the LRU. Remove and replace the LRU. Verify repair and return to an operational condition.	P	F
5. Troubleshoot electronic switch modules to the LRU. Remove and replace the LRU. Verify repair and return to an operational condition.	P	F
6. Troubleshoot DTF bypass module to the LRU. Remove and replace the LRU. Verify repair and return to an operational condition.	P	F
7. Troubleshoot PPS distribution amplifiers to the LRU. Remove and replace the LRU. Verify repair and return to an operational condition.	P	F
8. Troubleshoot 5 MHz and 1 MHz distribution amplifiers to the LRU. Remove and replace the LRU. Verify repair and return to an operational condition.	P	F
9. Troubleshoot RF equipment assembly (RFEA) to the LRU. Remove and replace the LRU. Verify repair and return to an operational condition.	P	F
10. Troubleshoot RFIS to the LRU. Remove and replace the LRU. Verify repair and return to an operational condition.	P	F
11. Complete DA Form 2404 and/or DA Form 2407.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required	Related
DA Pam 738-750	
TM 11-5895-1338-13	

MAINTAIN PATCH AND TEST FACILITY (PTF) AN/FSC-160(V)
113-590-0168

Conditions: Given a defective AN/FSC-160(V), DA Pam 738-750, tools and TMDE listed in TM, TM 11-5895-1368-13, and DA Forms 2404 and/or 2407.

Standards: The standards are met when the system is returned to an operational condition.

Performance Measures	Results	
1. Identify faulty unit and reconfigure the PTF to restore communications to an operational condition.	P	F
2. Troubleshoot failed unit to the LRU. Remove and replace the LRU. Verify repair and return to an operational condition.	P	F
3. Complete DA Forms 2404 and/or DA Form 2407.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

DA Pam 738-750
TM 11-5895-1368-13

Related

**MAINTAIN FREQUENCY CONVERSION SUBSYSTEM (FCS) AN/FSQ-158(V)
113-590-0169**

Conditions: Given a defective AN/FSQ-158(V), tools and TMDE listed in TM, TM 11-5895-1328-23P, DA Pam 738-750, and DA Forms 2404 and/or 2407.

Standards: The standards are met when the system is returned to an operational condition.

Performance Measures	Results	
1. Troubleshoot uplink frequency conversion subsystem to the LRU. Remove and replace the LRU. Verify repair and return to an operational condition.	P	F
2. Troubleshoot downlink frequency conversion subsystem to the LRU. Remove and replace the LRU. Verify repair and return to an operational condition.	P	F
3. Complete DA Form 2404 and/or DA Form 2407.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

DA Pam 738-750
TM 11-5895-1328-23P

Related

MAINTAIN SATELLITE MONITORING SYSTEM, DFCS-NCT, AN/FSC-96
113-590-0170

Conditions: Given an AN/FSC-96 with a defect, electronic tool kit TK-101/G, digital multimeter AN/USM-486/U, oscilloscope AN/USM-488, power meter AN/USM-491, tools and TMDE listed in TM, DA Pam 738-750, TM 11-5895-1357-13-2, and DA Forms 2404 and/or 2407.

Standards: The standards are met when the equipment is operational.

Performance Measures	Results	
1. Perform fault isolation using the troubleshooting flow charts and tables.	P	F
2. Test the A900 digital computer.	P	F
3. Remove or repair the A900 digital computer.	P	F
4. Test the control data link modem.	P	F
5. Remove and install the control data link modem.	P	F
6. Test the HP-IB.	P	F
7. Remove and replace the HP-IB.	P	F
8. Test the line printer group.	P	F
9. Repair or remove the line printer group.	P	F
10. Test the ink jet printer.	P	F
11. Remove or repair the ink jet printer.	P	F
12. Test the disk drive.	P	F
13. Remove and replace the disk drive.	P	F
14. Test the control console.	P	F
15. Remove or repair the control console.	P	F
16. Test the electrical equipment cabinet assembly.	P	F
17. Repair the electrical equipment cabinet assembly.	P	F
18. Test the AC regulator assembly.	P	F
19. Repair or replace the AC regulator assembly.	P	F
20. Complete DA Form 2404 and/or DA Form 2407.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

DA Pam 738-750

TM 11-5895-1357-13-1

TM 11-5895-1357-13-2

Related

PERFORM COMMUNICATIONS PAYLOAD CONTROL
113-590-0171

Conditions: Given an environmentally controlled DSCS III SCCE AN/FSC-91(V) or an NBC environment, TM 11-5895-1214-10-1, and DISAC 800-70-1.

Standards: The standards are met when the soldier can initialize the system, acquire command and control operations, perform analysis, execute commanding, and perform media archival and report generation.

Performance Measures	Results	
1. Initialize system.	P	F
a. STEP 1: Apply power.	P	F
b. STEP 2: Boot system, configure database, and assign CMD CRT.	P	F
c. STEP 3: Configure GRD equipment.	P	F
d. STEP 4: Verify system status (loop tests).	P	F
e. STEP 5: Configure RFIS.	P	F
f. STEP 6: TLM select/start OPS.	P	F
2. Acquire command and control operations.	P	F
a. STEP 1: Verify GRD configuration.	P	F
b. STEP 2: Establish commanding.	P	F
3. Analysis.	P	F
a. STEP 1: Generate ephemeris data and calculate frequency offset.	P	F
b. STEP 2: Assess satellite health.	P	F
c. STEP 3: Assess communication configuration.	P	F
d. STEP 4: Correlate data.	P	F
4. Execute commanding.	P	F
a. STEP 1: Daily operations.	P	F
b. STEP 2: Frequency standard adjustment.	P	F
c. STEP 3: Reconfigure normal communications payload.	P	F
d. STEP 4: Perform single-channel transponder commanding.	P	F
e. STEP 5: Implement handover procedures.	P	F
5. Media archival and report generation.	P	F
a. STEP 1: Mount and label tapes.	P	F
b. STEP 2: Configure strip chart recorder.	P	F
c. STEP 3: Select reports for report generation.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References**Required**

DISAC 800-70-1

TM 11-5895-1214-10-1

Related

**OPERATE RECEIVER-TRANSMITTER GROUP ORDERWIRE OZ-52/G
113-590-2112**

Conditions: Given an OZ-52/G and TM 11-5895-1188-12.

Standards: The standards are met when two-way communications with tactical terminals are possible.

Performance Measures	Results	
1. Configure the OW modem for manual mode.	P	F
2. Initiate a transmit NT ring.	P	F
3. Initiate a transmit CT ring.	P	F
4. Configure the OW modem for dial mode.	P	F
5. Configure the OW modem for scan mode.	P	F
6. Configure the OW modem for lock mode.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

TM 11-5895-1188-12

Related

**MONITOR DOWNLINK USING DASA, AN/FSQ-142
113-590-2139**

Conditions: Given an AN/FSQ-142 and TM 11-5895-1391-13.

Standards: The standards are met when the soldier can operate and perform real-time monitoring and analysis of the FDMA downlink spectrum of the DSCS II or DSCS III satellites.

Performance Measures	Results	
1. Perform system power-up and initialization procedures.	P	F
2. Perform log-on procedures.	P	F
3. Perform initial adjustments and control settings of the DASA system.	P	F
4. Perform RF calibrations and adjustments.	P	F
5. Perform real-time measurements of the FDMA downlink in the monitor, carrier, and single scan modes of operation.	P	F
6. Perform log-off procedures.	P	F
7. Perform shutdown procedures.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

TM 11-5895-1391-13

Related

OPERATE DECS-CC, AN/FSC-115
113-590-2142

Conditions: Given a DECS-CC AN/FSC-115 and TM 11-5895-1399-13.

Standards: The standards are met when the equipment is operational.

Performance Measures	Results	
1. Perform preliminary adjustments.	P	F
2. Perform DECS-CC startup.	P	F
3. Operate DECS-CC.	P	F
a. Utilize main menu options.	P	F
b. Utilize USC-28 control menu options.	P	F
c. Utilize polling control menu options.	P	F
d. Utilize LRM control menu options.	P	F
e. Utilize CCC message menu options.	P	F
f. Utilize edit NCB menu options.	P	F
g. Utilize schedule hand over options.	P	F
h. Utilize range data options.	P	F
i. Utilize administrative menu options.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

TM 11-5895-1399-13

Related

**OPERATE RADIO FREQUENCY INTERFACE SUBSYSTEM (RFIS) AN/FSQ-150
113-590-2143**

Conditions: Given an RFIS AN/FSQ-150 and TM 11-5895-1338-13.

Standards: The standards are met when the AN/FSQ-150 is operational.

Performance Measures	Results	
1. Perform RFIS power-on procedures.	P	F
2. Perform initial checks.	P	F
3. Perform operating procedures.	P	F
4. Perform stopping procedure.	P	F
5. Perform emergency shutdown.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

TM 11-5895-1338-13

Related

**OPERATE PATCH AND TEST FACILITY (PTF), AN/FSC-160(V)
113-590-2144**

Conditions: Given a PTF, AN/FSC-160(V), (O)TM 11-5810-309-10, and TM 11-5895-1368-13.

Standards: The standards are met when the AN/FSC-160(V) equipment is operational.

Performance Measures	Results
1. Perform system power-up procedures.	P F
2. Perform initial patching and configuration setup as required.	P F
3. Initialize and load keying material.	P F
4. Perform system shutdown procedures.	P F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required	Related
(O)TM 11-5810-309-10	
TM 11-5895-1368-13	

OPERATE FREQUENCY CONVERSION SYSTEM (FCS), AN/FSQ-158(V)
113-590-2145

Conditions: Given an FCS AN/FSQ-158(V) and TM 11-5895-1328-23P.

Standards: The standards are met when the AN/FSQ-158(V) equipment is operational.

Performance Measures	Results	
1. Perform system power-up procedures.	P	F
2. Perform initial patching and configuration of the 5 MHz distribution amplifiers as required.	P	F
3. Perform initial patching and switching of down-converters and up-converters.	P	F
4. Tune and adjust correct uplink and downlink frequencies.	P	F
5. Set correct RF transmit power levels.	P	F
6. Perform system shutdown procedures.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

TM 11-5895-1328-23P

Related

**OPERATE SATELLITE MONITORING SYSTEM DFCS-NCT, AN/FSC-96
113-590-2146**

Conditions: Given an AN/FSC-96 DFCS-NCT, system disk, and TM 11-5895-1357-13-2.

Standards: The standards are met when the DFCS-NCT is operational.

Performance Measures	Results	
1. Perform NCT initialization.	P	F
2. Enter CLD configuration and enable data communications.	P	F
3. Enter and modify link configurations.	P	F
4. Perform link characterizations.	P	F
5. Perform link normalization.	P	F
6. Perform NCT switch-over.	P	F
7. Perform carrier power control.	P	F
8. Perform assignment of console-in-control.	P	F
9. Set NCT operating mode.	P	F
10. Perform database functions.	P	F
11. Perform archiving and retrieve historical files.	P	F
12. Perform shutdown processes.	P	F
13. Perform performance monitoring.	P	F
14. Perform status monitoring.	P	F
15. Interpret alarms and notification.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required	Related
TM 11-5895-1357-13-2	

OPERATE SMART MULTICIRCUIT TERMINAL (SMCT) II, AN/FGQ-13
113-590-2149

Conditions: Given an environmentally controlled DSCS facility or a nuclear, biological, chemical (NBC) environment, TM 11-5895-1410-13, and SMCT II AN/FGQ-13 training guide and reference guide.

Standards: The standards are met when the soldier can perform daily operations on the SMCT, operate the SMCT in the setup and network configuration mode, and operate the SMCT in the utilities mode.

Performance Measures	Results	
1. Perform daily operations on the SMCT.	P	F
a. STEP 1: Pull up, print, and acknowledge a current message.	P	F
b. STEP 2: Retrieve and send a message from archives.	P	F
c. STEP 3: Retrieve a message from an archive disk.	P	F
d. STEP 4: Send a test message to a given RT.	P	F
e. STEP 5: Perform an on-line diagnostic.	P	F
2. Operate the SMCT in the setup and network mode.	P	F
a. STEP 1: Explain and edit the RT configuration table.	P	F
b. STEP 2: Explain and edit the internodal port assignment table.	P	F
c. STEP 3: Explain and edit the group call sign table.	P	F
d. STEP 4: Edit the network configuration table.	P	F
e. STEP 5: Validate the network configuration tables.	P	F
3. Operate the SMCT in the utilities mode.	P	F
a. STEP 1: Print a list of files on a disk drive.	P	F
b. STEP 2: Copy a file from the hard drive to a floppy drive.	P	F
c. STEP 3: Backup, delete, and restore a file to the hard drive.	P	F
d. STEP 4: Format a floppy disk.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required	Related
Stanford Telecom 1	
Stanford Telecom 2	
TM 11-5895-1410-13	

**PERFORM PMCS ON DECS-CC, AN/FSC-115
113-590-3160**

Conditions: Given a DECS-CC AN/FSC-115, flattip screwdriver, flashlight, dry cloth, DA Pam 738-750, TM 11-5895-1399-13, and DA Form 2404.

Standards: The standards are met when no alarms or defects are recorded on DA Form 2404.

Performance Measures	Results
1. Perform quarterly PMCS on front fingerstock gasket.	P F
2. Perform quarterly PMCS on rear fingerstock gasket.	P F
3. Perform quarterly PMCS on BA23 assembly fans.	P F
4. Perform quarterly PMCS on printer.	P F
5. Perform annual PMCS on terminal display lithium battery.	P F
6. Record PMCS results on appropriate forms/records.	P F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

<p>Required DA Pam 738-750 TM 11-5895-1399-13</p>	<p>Related</p>
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Skill Level 3

Subject Area 11: SATCOM First Line Site Supervision

**PERFORM SITE SELECTION FOR TRANSPORTABLE SATELLITE TERMINAL AN/GSC-49(V) OR AN/TSC-86(V)
113-590-1004**

Conditions: Given the requirement to select a site location to install a transportable satellite terminal and given antenna azimuth and elevation settings for site location, site area location, topographic maps of area, pocket transit, TM 11-5895-846-14, and TM 11-5895-1162-10.

Standards: The standards are met when a suitable location to install a transportable satellite terminal is identified and the area is visually inspected.

Performance Measures	Results	
1. Locate general satellite headings.	P	F
a. Turn declination screw until 0 degree mark on azimuth scale is under scale index.	P	F
b. Find grid or true azimuth information provided.	P	F
c. Turn declination screw until true azimuth scale is under scale index. This may not be necessary if information is already corrected for magnetic north.	P	F
d. Swing rear sight up to a 90-degree angle from transit base and mirrored cover/front sight up to a 45-degree angle from transit base.	P	F
e. Hold pocket transit in both hands, brace arms against body, and look through rear sight.	P	F
f. Adjust angle of mirrored cover/front sight so scale reflection can be seen clearly in mirror.	P	F
g. Level pocket transit by centering bubble in circular level.	P	F
h. Rotate body until black wire coil end of needle points to assigned angle. This is satellite heading.	P	F
2. Locate general satellite elevation.	P	F
a. Look up satellite elevation angle.	P	F
b. Turn handle on back of transit case to set vernier to satellite elevation angle.	P	F
c. Set 0 on vernier to satellite elevation angle on outer scale between N and W.	P	F
d. Turn transit on its side with elevation level up.	P	F
e. Hold transit so you can see elevation level in mirror and raise transit until bubble is centered in elevation level.	P	F
f. Look through rear sight and hole in mirror to get satellite elevation.	P	F
3. Visually check general site area for final site location.	P	F
a. Topography.	P	F
b. Soil conditions.	P	F
c. Electrical interference.	P	F
d. Other factors.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

TM 11-5895-1162-10

TM 11-5895-846-14

Related

INSPECT MAINTENANCE FORMS FOR PROPER COMPLETION
113-623-7003

Conditions: Given DA Pam 738-750, DA Forms 2402, 2404, 2405, 2407, and 2407-1.

Standards: The standards are met when maintenance forms are inspected, discrepancies are noted, and corrective action is taken.

Performance Measures	Results	
1. Inspect DA Form 2402 to ensure compliance with DA Pam 738-750.	P	F
a. DA Form 2402 is properly completed.	P	F
b. Receipts are valid and properly maintained.	P	F
2. Inspect DA Form 2404 to ensure compliance with DA Pam 738-750.	P	F
a. DA Form 2404 is properly completed.	P	F
b. Faults are valid and listed.	P	F
c. Distribution and disposition of DA Form 2404 is completed.	P	F
3. Inspect DA Form 2407 and DA Form 2407-1 to ensure compliance with DA Pam 738-750.	P	F
a. DA Forms 2407 and 2407-1 are properly completed.	P	F
b. Receipt copy is valid and properly maintained.	P	F
4. Inspect DA Form 2405 to ensure compliance with DA Pam 738-750.	P	F
a. All entries are made IAW DA Pam 738-750.	P	F
b. All DA Forms 2407 are logged in on DA Form 2405.	P	F
5. Note deficiencies/weak areas and inform subordinates of needed corrections.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required
 DA Pam 738-750

Related
 AR0603
 AR0609

**SUPERVISE THE MAINTENANCE AND REPAIR OF SIGNAL EQUIPMENT IN YOUR SECTION/SHOP
113-623-7141**

Conditions: You are responsible for having personnel in your section/shop repair defective signal equipment. The repairer will be given an item of equipment for repair, test equipment as required by appropriate TM(s), appropriate equipment TM(s), DA Pam 25-30, and DA Pam 738-750.

Standards: You must complete all performance measures and ensure your repairer performed maintenance and repair of the equipment.

Performance Measures	Results	
1. Select item of equipment to be repaired.	P	F
2. Ensure pertinent test equipment, tools, and reference materials are available IAW applicable equipment TM(s).	P	F
3. Assign the task. Select the most qualified and available repairer to perform task.	P	F
4. Brief repairer on task standards.	P	F
5. Monitor work in progress. Do NOT oversupervise.	P	F
6. Provide technical assistance if needed.	P	F
7. Inspect completed work.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

Appropriate TMs
DA PAM 25-30
DA Pam 738-750

Related

**MAINTAIN A PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS) PROGRAM
113-623-7155**

Conditions: Given communications systems TMs listed in DA Pam 25-30, TMDE listed in appropriate TMs, DA Pam 710-2-1, and DA Pam 738-750.

Standards: The standards are met when PMCS is scheduled and performed, all maintenance forms are properly completed, and all required corrective actions or reports are initiated.

Performance Measures	Results	
1. Determine requirements.	P	F
a. Equipment requiring preventive maintenance (PM).	P	F
b. Frequency of PM performance.	P	F
c. Tools, TMDE, and materials to perform PM.	P	F
d. Levels of PM to be performed.	P	F
e. Personnel available to perform PM.	P	F
2. Schedule PM.	P	F
a. Coordinate with training officer/NCO.	P	F
b. Coordinate with higher headquarters.	P	F
c. Coordinate with applicable section for technical assistance when needed.	P	F
d. Prepare DD Form 314.	P	F
3. Specify duties/responsibilities.	P	F
4. Establish procedures for the following.	P	F
a. Repair parts.	P	F
b. Supply.	P	F
c. Tools/TMDE.	P	F
d. PM.	P	F
5. Observe/assist/train personnel in performing PM.	P	F
a. Ensure correct procedures are followed.	P	F
b. Ensure correct level of PM is performed.	P	F
c. Assist personnel during PMCS.	P	F
d. Train personnel in conduct of PM.	P	F
6. Evaluate PM performed.	P	F
a. Check maintenance forms. (Refer to DA Pam 738-750.)	P	F
(1) DA Form 2404.	P	F
(2) DA Form 2407.	P	F
(3) DA Form 2407-1.	P	F
b. Check PLL usage. (Refer to DA Pam 710-2-1.)	P	F
c. Check equipment logbook.	P	F
d. Check readiness report.	P	F
7. Initiate/evaluate corrective actions/PM update.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References**Required**

Appropriate TMs
DA PAM 25-30
DA Pam 710-2-1
DA Pam 738-750

Related

AR 750-1

Subject Area 12: SATCOM Site Administration/Operation

ESTABLISH A PUBLICATIONS LIBRARY**093-540-3006**

Conditions: Given AR 25-11, AR 25-400-2, DISA Notice 210-0-1, DA Pam 25-30, DA Pam 25-33, DA Pam 25-40, local and higher headquarters' publications indexes and publications procedures, DA Form 12-R, DA Form 17, DA Form 17-1, DA Form 4569, and DD Form 173 (appropriate series).

Standards: The standards are met when a publications library is established in the maintenance area and required publications are on hand or on order.

Evaluation Preparation: A supervisor in a support maintenance unit or activity is required to establish a publications library to support the maintenance activity. If equipment listings of the unit and supported units are not available, the applicable TOE/MTOE should be used. Setup: Have unit equipment listing and supported units' equipment listings available. Have available file copies of publications requests (DA Forms 4569, 17-series, and 12-series) previously submitted by your unit. Brief soldier: Tell the soldier the ability to establish a publications library will be evaluated according to the performance measures.

Performance Measures	Results	
1. Determine publications required by the shop or section.	P	F
2. Ensure technical publications on hand or on order are current.	P	F
3. Ensure doctrinal, training, and organizational publications on hand or on order are current.	P	F
4. Ensure administrative publications on hand or on order are current.	P	F
5. Ensure local and higher headquarters' publications are current.	P	F
6. Prepare DA Form 4569.	P	F
7. Prepare the required transmittal form.	P	F
8. Prepare DA Forms 17 and 17-1 to request local and higher headquarters' publications.	P	F
9. Arrange publications in proper order and in a suitable location.	P	F
10. Label binders used for storing library publications.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References**Required**

AR 25-11
 AR 25-400-2
 DA PAM 25-30
 DA Pam 25-33
 DA Pam 25-40
 DISAC Notice 210-0-1

Related

MAINTAIN A PUBLICATIONS LIBRARY
093-540-3007

Conditions: Given AR 25-11, AR 25-400-2, DISA Notice 210-0-1, DA Pam 25-30, DA Pam 25-33, DA Pam 25-40, local and higher headquarters' publications indexes and publications procedures, DA Form 12-R, DA Form 17, DA Form 17-1, DA Form 4569, DD Form 173 (appropriate series), and DD Form 1392.

Standards: The standards are met when a publications library is updated, posted, and required publications are on hand or on order.

Evaluation Preparation: A supervisor in a support maintenance unit or activity is required to establish and maintain a publications library to support the maintenance activity. If equipment listings of the unit and supported units are not available, then applicable TOE/MTOE should be used. Setup: Have unit equipment listing and supported units' equipment listings available. Have available file copies of publications requests (DA Forms 4569, 17-series, and 12-series) previously submitted by your unit. Brief soldier: Tell the soldier that his/her ability to establish and maintain a publications library will be evaluated according to the performance measures.

Performance Measures	Results	
1. Ensure published changes are posted to appropriate publications.	P	F
2. Remove obsolete/rescinded/superseded publications from library.	P	F
3. Arrange publications in proper order and in a suitable location.	P	F
4. Label binders used for storing library publications.	P	F
5. Notify personnel to return loaned publications to the library in a timely manner.	P	F
6. Update US Army Publications Center, local, and higher headquarters' publications accounts as required.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required	Related
AR 25-11	
AR 25-400-2	
DA PAM 25-30	
DA Pam 25-33	
DA Pam 25-40	
DISAC Notice 210-0-1	

INSPECT THE INSTALLATION OF AN/TSC-85B(V) OR AN/TSC-93B(V)
113-589-7118

Conditions: Given a SATCOM terminal AN/TSC-85B(V) or AN/TSC-93B(V), antenna group AS-3036/TSC, generator set, predetermined site location, predetermined azimuth and elevation pocket transit, TB 43-0129, TM 9-6115-464-12, TM 5-6115-585-12, TM 11-5895-1127-10, and TM 11-5895-1128-10.

Standards: The standards are met when the transportable satellite terminal is correctly installed and is ready to establish site-to-site communications with another terminal with no damage to equipment or injury to personnel.

Performance Measures**Results**

WARNING: During installation of this equipment, all safety requirements listed in TB 43-0129 must be met.

1. Check site selection.	P	F
a. Ensure topography meets standards in appropriate TM.	P	F
b. Check soil conditions.	P	F
c. Ensure electrical interference is avoided.	P	F
2. Use pocket transit to verify sighting points.	P	F
a. Verify sighting point 1.	P	F
b. Verify sighting point 2.	P	F
3. Check the installation of antenna support structure assembly.	P	F
a. Check ground pads position.	P	F
b. Check installation of front and rear leg assemblies.	P	F
c. Check installation of base frame members.	P	F
WARNING: DO NOT stand on right or left side of base frame members because damage will occur.		
d. Check installation of side leg assemblies.	P	F
e. Check level of the antenna.	P	F
4. Check installation of antenna dish assembly.	P	F
WARNING: The antenna center section is heavy and fragile. Handle it carefully to avoid injury to personnel or damage to equipment.		
a. Check the use of the hoist to place antenna center section on antenna support structure. Ensure it is secured.	P	F
b. Check mounting of drive disk and left trailing arm.	P	F
c. Check installation of reflector quarter sections.	P	F
CAUTION: Be careful when handling and working with the feed tube assembly and feed tube adapter. The feed tube adapter has a thin membrane which is fragile and easily damaged. DO NOT allow anything, including fingers, to come in contact with the membrane.		
d. Check installation of feed tube.	P	F
5. Check placement of vehicle.	P	F
6. Check placement of generator set.	P	F
7. Check installation of antenna cables and waveguide.	P	F
a. Check connection of cables to antenna.	P	F
b. Check installation of messenger pole and cable to shelter.	P	F
c. Check connection of cables to the antenna entry panel.	P	F
d. Check connection of waveguide to shelter.	P	F
8. Check antenna anchors.	P	F

Performance Measures	Results	
9. Check installation of radiation hazard fence.	P	F
10. Check installation of generator set.	P	F
11. Check placement of power transfer switch box.	P	F
12. Check grounding of shelter, antenna, and power transfer box.	P	F
13. Check installation of all power cable assemblies.	P	F
14. Ensure air vents are open.	P	F
15. Check installation of external user signal cables.	P	F
16. Check placement of fire point.	P	F
NOTE: Place the fire point halfway between generator and shelter.		

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

TB 43-0129

TM 11-5895-1127-10

TM 11-5895-1128-10

TM 5-6115-585-12

TM 9-6115-464-12

Related

PREPARE PRODUCT QUALITY DEFICIENCY REPORT (PQDR)
113-590-6002

Conditions: Given the requirement to prepare a PQDR, AR 725-50, AR 702-7, AR 702-7-1, DA Pam 738-751, DA Pam 738-750, DD Forms 1575, and 2332 and SF Form 368.

Standards: The standards are met when the PQDR is sent to MSC within five days after finding a defect or problem.

Performance Measures	Results	
1. Determine if there is a legitimate need to report a problem or defect on an SF 368.	P	F
2. Determine if the product quality deficiency falls into category I or category II and process accordingly.	P	F
3. Tag the exhibit with DD Forms 2332 and 1575.	P	F
4. Classify the exhibit in a suspended supply condition code. (Refer to AR 725-50.)	P	F
5. Send the PQDR to the correct address.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required
AR 725-50
DA Pam 738-750

Related

**IMPLEMENT TELECOMMUNICATIONS SERVICE ORDERS (TSOs) IN A SATCOM FACILITY
113-616-1019**

Conditions: Given a sample TSO (Appendix A of this manual), SATCOM terminal, and DISAC 310-70-1.

Standards: The standards are met when you successfully configure a link/trunk using a TSO and the equipment is operational.

Performance Measures	Results	
1. Verify valid TSO.	P	F
2. Determine type of circuit from the TSO.	P	F
3. Extract necessary information from the TSO.	P	F
4. Configure communications equipment according to the TSO.	P	F
5. Perform necessary patching as required by the TSO.	P	F
6. Perform performance test on circuit/trunk.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required
Appendix A (31S)
DISAC 310-70-1

Related

INSPECT A PRESCRIBED LOAD LIST (PLL)

113-623-7154

Conditions: Given PLL records and parts, Army master data file (AMDF) or CD-ROM Army-LOG, DA Pam 710-2-1, and TM 38-L32-11.

Standards: The standards are met when the PLL is inspected and a deficiency report is initiated.

Performance Measures	Results	
1. Coordinate visit to inspect PLL.	P	F
2. Obtain required checklist/publications:	P	F
a. DA Pam 710-2-1 for manual PLL.	P	F
b. DA Pam 710-2-1 and TM 38-L32-11 for automated PLL.	P	F
3. Inspect PLL by using the checklist in DA Pam 710-2-1.	P	F
4. Document noted discrepancies.	P	F
5. Provide guidance to PLL operators to correct noted deficiencies.	P	F
6. Schedule a follow-up visit.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

AMDF
DA Pam 710-2-1
TM 38-L32-11

Related

AR0606
DA Pam 710-2-2
QM2010
QM3069

ESTABLISH FILES

121-004-1227

Conditions: Given AR 25-400-2, AR 310-50, AR 25-55, AR 380-5, an approved list of file numbers, local directives, and standard office supplies and equipment.

Standards: The standards are met when files are established on an annual basis IAW AR 25-400-2.

Performance Steps

1. Supervisors may evaluate task performance by two methods. They can have the soldier perform the task on the job or take the performance test. The supervisor may evaluate the soldier by either or both of these methods.
 - a. To evaluate a soldier's performance on the job, the soldier should perform the task using the materials which appear in the CONDITIONS statement. When the soldier completes the task, the supervisor uses the EVALUATION GUIDANCE statement to score the soldier PASS (P) or FAIL (F) on each performance measure.
 - b. If the soldier does not perform the task on the job, the supervisor may conduct an evaluation by having the soldier take the performance test.

Performance Measures	Results	
1. Ensure the list of file numbers for the files being established is current and approved by the local records management official (RMO).	P	F
2. Submit any unidentified files currently in the files area to the RMO for subsequent numbering.	P	F
3. Properly prepare all "event" disposition file folder labels.	P	F
a. File number.	P	F
b. File title.	P	F
c. Privacy Act system notice number (if applicable).	P	F
d. Disposition instructions, such as:	P	F
(1) Destroy when superseded or obsolete.	P	F
(2) Destroy when no longer needed for current operations.	P	F
4. Properly prepare all "time" disposition file folder labels.	P	F
a. File number.	P	F
b. File title.	P	F
c. Privacy Act system notice number (if applicable).	P	F
d. Year of accumulation (can be calendar year (CY) or fiscal year (FY)).	P	F
e. Disposition instructions, such as--	P	F
(1) Cut off.	P	F
(2) Transfer to records holding area (RHA) or overseas RHA.	P	F
(3) Retire to Federal or National Records Center.	P	F
(4) Destroy.	P	F
(5) Permanent.	P	F
5. Properly prepare all "time-event" disposition file folder labels.	P	F
NOTE: HDR: ACTIVE file label.		
a. File number.	P	F
b. File title.	P	F
c. Privacy Act system notice number (if applicable).	P	F
d. ACTIVE.	P	F
e. Disposition instructions such as:	P	F
(1) Place in an inactive file when last entry is made on form.	P	F

Performance Measures	Results	
(2) Place in an inactive file after transfer or separation of individual.	P	F
NOTE: HDR: INACTIVE file label.		
f. File number.	P	F
g. File title.	P	F
h. Privacy Act system notice number (if applicable).	P	F
i. Year of accumulation (CY or FY).	P	F
j. INACTIVE.	P	F
k. Disposition instructions.	P	F
6. Properly prepare any desired "dummy" file folder labels with full label entries when there are several folders under one file number.	P	F
a. Label "dummy" file folder IAW performance measure 3, 4, or 5 as appropriate.	P	F
b. Tape shut the "dummy" file folder.	P	F
c. Label subsequent folders with only file number, contents identification, and year of accumulation (when appropriate).	P	F
7. Properly position all file folder labels on left side of folders or as otherwise prescribed by local directives.	P	F
8. Properly prepare any desired file guide card labels.	P	F
a. To divide files.	P	F
b. To identify subdivisions.	P	F
c. To use as a "dummy" instead of using a folder (labeled IAW performance measure 3, 4, or 5 as appropriate).	P	F
9. Arrange the file guide cards in a correct numerical sequence.	P	F
10. Arrange the file folders in current numerical sequence.	P	F
11. Arrange folders in annual blocks.	P	F
a. Cut off folders at the end of the year (CY or FY).	P	F
b. Set up new folders for the new year.	P	F
c. Continue folders with no year of accumulation ("event" files) from the previous annual block to the new annual block.	P	F
d. File current and previous annual blocks in separately marked drawers or, if interfiled in the same drawer, separate the annual blocks with year-dated file guide cards.	P	F
12. Provide for expanded files when a file folder reaches capacity.	P	F
a. Prepare additional folders.	P	F
b. Divide the material between the folders in an alphabetic, date, or numeric arrangement.	P	F
c. Make a notation on each file label to indicate the dividing point.	P	F
13. Properly label binders.	P	F
a. With full label entries for a single binder or the first binder in a series under the same file number.	P	F
(1) File number.	P	F
(2) File title.	P	F
(3) Contents identification.	P	F
(4) Disposition instructions.	P	F
b. With subsequent binder labels containing only file number and contents identification.	P	F
14. Properly label file containers and/or drawers.	P	F
NOTE: Utilize a lockable file receptacle for FOUO material IAW AR 25-55 if there is no after-hours internal building security and the room and building are not locked. Utilize a security container for classified material IAW AR 380-5.		

Performance Measures

Results

a. With beginning and ending file numbers and year of accumulation.	P	F
b. With full label entries when a drawer contains one (and only one) file number record series and contains all of that series (label IAW performance measure 3, 4, or 5 as appropriate and performance measures 12b and 12c).	P	F
c. With full label entries when a drawer contains only part of one record series (label IAW performance measure 3, 4, or 5 as appropriate and performance measures 12b and 12c).	P	F
15. File the list of file numbers IAW file number 1a, AR 25-400-2.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

- Required**
 AR 25-400-2
 AR 25-55
 AR 310-50
 AR 380-5

Related

Subject Area 13: SATCOM Site Security

PERFORM KEY CONTROL PROCEDURES

191-379-0031

Conditions: Given key container(s) and access to key control unit SOP, AR 190-13, AR 190-51, and FM 19-30.

Standards: The standards are met when key control procedures are performed and records are kept without error.

Performance Measures	Results	
1. Review unit SOP for compliance with local and Department of the Army publications.	P	F
2. Compare key and lock inventory against the list of buildings/entrances/cabinets/safes for which keys are controlled.	P	F
3. Compare number and identification of keys shown on unit records with physical key and lock inventory.	P	F
4. Check to ensure "US GOVERNMENT DO NOT REPRODUCE" is imprinted on all master and higher level control keys.	P	F
5. Verify that people with access to keys are listed on the key access roster.	P	F
6. Verify that a record of inventories and inspections is being maintained.	P	F
7. Inspect unit key control container to ensure is fireproof, can be locked, and is secured to a permanent structure.	P	F
8. Verify that the orders appointing a key control officer and an alternate key control officer are current.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required
 AR 190-13
 AR 190-51
 FM 19-30
 Unit SOP

Related

Skill Level 4

Subject Area 12: SATCOM Site Administration/Operation

PREPARE EMERGENCY PLAN**113-573-0006**

Conditions: Given a requirement to prepare an emergency plan, AR 380-40, AR 380-5, and TB 380-41.

Standards: The standards are met when an emergency plan is prepared. Due to the nature of this task, a time limit is not established.

Performance Steps

1. Coordination and planning are vital to effective emergency procedures. Emergency plans involving COMSEC material are coordinated with or incorporated into command emergency plans. This ensures evacuation, storage, and/or destruction are effectively and securely performed in the event of an actual emergency.
2. Emergency measures are taken in the event of an emergency and include evacuation, secure storage, and destruction. The commander decides which measures are taken and indicates those measures not considered feasible.
 - a. Evacuation and/or secure storage are considered before destruction. However, simultaneous implementation of any two or all three measures may be necessary. For example, if it appears a civil uprising will be of short duration and the cryptofacility will be abandoned for only a short period of time, destroy superseded key, evacuate future and current key, and store all equipment.
 - b. Evacuation is the removal of COMSEC material to a safe location. During evacuation, make every effort to prevent loss or unauthorized access from the time of evacuation to the subsequent return of the material to its original location or relocation to a new secure area.
 - c. Several factors which influence the decision to store or evacuate COMSEC material are the time available, the future requirements for the COMSEC material, and the bulk and weight of the material.
 - d. Secure storage during a emergency.
 - (1) Secure storage during an emergency is achieved by using authorized vaults, safes, or a secure room. If a secure room is used, all classified boards must be removed from nonsecured COMSEC equipment and stored in approved security containers along with classified components and other classified COMSEC material.
 - (2) If possible, a guard should remain in or near the storage area. The presence of a guard does not satisfy the emergency storage requirement, it is desirable as a secondary barrier.
 - (3) Secure storage is not an effective emergency measure while under the threat of enemy attack.
3. Destruction priorities for emergency destruction of COMSEC material are:
 - a. Priority 1: Used superseded classified key marked CRYPTO is the most sensitive COMSEC material. It must be given the highest priority to prevent compromise. All superseded and current classified key marked CRYPTO except authenticators, CONFIDENTIAL tactical operations codes, unused OTP and OTT, and unused point-to-point (two copy) key.
 - b. Priority 2: Superseded, current, and future card reader insert boards (CRIBs).
 - c. Priority 3: TOP SECRET multiholder key which will be effective within the next 30 days.
 - d. Priority 4: Superseded tactical operations codes.
 - e. Priority 5: SECRET and CONFIDENTIAL multiholder key which will be effective within the next 30 days.
 - f. Priority 6: Sensitive pages of cryptoequipment maintenance manuals or the complete manual.
 - g. Priority 7: Classified COMSEC equipment elements or subassemblies, such as printed circuit boards and module boards, in the order listed in the appropriate maintenance manuals.

Performance Steps

- h. Priority 8: The remaining COMSEC equipment maintenance manuals and classified operating instructions.
 - i. Priority 9: All remaining classified COMSEC material and unclassified key marked CRYPTO. If time permits, destroy superseded authenticators and unused two-copy key.
4. Destruction methods and materials.
 - a. Shredders: Any type shredder may be used when other methods of destruction are not available and the key is mixed with an equal amount of other similar material. Shredders are also a supplementary method to speed destruction, when necessary. Shredded key larger than 1.2mm (0.05 inches) wide and 13mm (0.5 inches) long or as an alternative, 0.73mm (0.03 inches) wide and 22.2mm (0.87 inches) long are scattered or dispersed over a wide area.
 - b. Document destroyer kits: Use document destroyer kit M4 or other prepared kits for document destruction.
 - c. Incendiary file destroyer: Use incendiary file destroyer ABC-M4. Two incendiary file destroyers are required for a four-drawer file cabinet.
 - d. Fuels: Use kerosene, gasoline, and sodium nitrate to expedite burning. Use extreme care for personal safety.
5. Destruction of COMSEC equipment is the last resort to prevent it from falling into unauthorized hands. Destruction is any method which renders the equipment unusable and unrepairable. Destruction is accomplished to a degree that logic reconstruction is not possible. Do this by removing and destroying the classified assemblies within the equipment, including classified printed circuit boards and multilayer boards.
 - a. Thermite incendiaries provide effective and total destruction (not authorized for use within the continental United States except for training purposes).
 - b. Incinerators are used to destroy printed circuit boards. If necessary, break up the boards after they are removed from the incinerator.
 - c. Printed circuit boards may be destroyed by hacking with an ax and scattering the pieces.
 - d. CRIBs are destroyed by first peeling off the metal backing plate, then cutting the CRIB into pieces using heavy scissors or tin snips. Use an acetylene torch, if available, to completely destroy the circuitry on the remaining pieces.
6. Emergency task cards are used for carrying out emergency plans. They identify each specific task that will be done. Record each task and the approximate completion time on a separate 5 X 8 card. Ensure the task cards are in the priority order in paragraph 3.
 - a. In a emergency, personnel will report to a predesignated location. A COMSEC officer or other designated individual issues the task cards, one at a time, to individuals. Each individual will carry out the designated task as written on the card and return to the person in charge to report the task is completed. The individual is then given the next task. This continues until all tasks are completed.
 - b. Under this system, many tasks are completed at the same time, maximum personnel are employed, and the emergency action progress is known at all times.
7. Reporting measures.
 - a. Whenever emergency plans are executed, message reports are sent to CDR USACSLA, FT HUACHUCA AZ //SELCL-PP// and CDR INSCOM, AHS VA //IAOPS-CI-P//. In addition, an information copy is sent to the activity providing COMSEC support and to the unit's next higher headquarters.
 - b. A report of an emergency incident which did not result in an insecurity will include, as a minimum, a list of the material destroyed or relocated and the method and degree of destruction, and will indicate the circumstances which caused the execution of emergency plans.

Performance Measures

1. Develop emergency evacuation measures.
2. Develop secure storage measures.
3. Develop precautionary action measures.
4. Develop emergency destruction measures.
5. Develop reporting measures.

Results

P	F
P	F
P	F
P	F
P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required
 AR 380-40
 AR 380-5
 TB 380-41

Related

ESTABLISH NETWORK PLANS FOR GMF
113-589-6001

Conditions: Given the requirement to plan a communications network, DISA Circular 800-70-1, ASC-1, TM 11-5895-1448-10, LRM Configuration Worksheet, Terminal Configuration Worksheet, and current Key List from local COMSEC custodian.

Standards: The standards are met when the Terminal Deployment Orders are issued, communications was successfully passed, and the After Actions Report is submitted.

Performance Measures	Results	
1. Identify and determine terminal assets and configurations required for mission support.	P	F
a. Determine data rate requirement for the exercise (TM 11-5895-1448-10, paragraph 6-2).	P	F
b. Determine method of communication to be utilized (TM 11-5895-1448-10, paragraph 6-4).	P	F
c. Prepare the LRM Configuration Worksheet (TM 11-5895-1448-10, paragraph 6-10).	P	F
d. Prepare the Terminal Configuration Worksheet (TM 11-5895-1448-10, paragraph 6-9).	P	F
e. Prepare the Terminal Deployment Authorization (TM 11-5895-1448-10, paragraph 6-12).	P	F
2. Submit communications requirements to DISA MILSATCOM Systems Office (MSO) for approval and assignment of a User Requirements Data Base Number (URDB).	P	F
3. Coordinate DSCS GMF gateway assignment with the appropriate DISA element prior to formally submitting the SAR.	P	F
4. Prepare the SAR IAW ASC-1.	P	F
5. Generate and submit the SARs to the appropriate RSSC.	P	F
6. Coordinate between the RSSC and the mission/area commander to modify mission plans when DSCS satellite resources are not available for the desired mission support.	P	F
7. Develop modified SARs as necessary to respond to user request for changes in satellite communications services during a mission.	P	F
8. Coordinate with local frequency manager to obtain frequency clearance for each GMF terminal location.	P	F
9. Prepare and issue to each GMF terminal and DSCS gateway (if applicable) terminal deployment orders consistent with the SAA and the circuit level communications requirements.	P	F
10. Assist in contingency planning exercises as necessary.	P	F
11. Provide the RSSC after-action reports for each mission.	P	F

Evaluation Guidance: Score the soldier a GO if all performance steps are passed. Score the soldier a NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

DISAC 800-70-1

TM 11-5895-1448-10

Related

**MAINTAIN SITE CONFIGURATION PLANS
113-613-4001**

Conditions: Perform this task in a fixed station communications facility. Given AR 70-1, AR 70-37, site configuration plans requiring reviewing/updating, work area, ruler, and colored pencil markers (red, blue, and yellow).

Standards: The standards are met when changes are annotated on three out of four plans and the plans are properly distributed.

Performance Steps

1. Reviews configuration plans/blueprints P F
ensuring drawings are as follows:
 - a. Complete.
 - b. Accurate.
 - c. Correct.
2. Matches existing actual site/equipment layout P F
with the configuration plans/drawings.
3. Annotates changes in colored ink: P F
 - a. Additions, in red ink.
 - b. Deletions, in yellow ink.
 - c. Notes, in blue ink.
4. Makes distribution of annotated drawings: P F
 - a. Forwards one copy to the configuration management office for update drawing.
 - b. Retains and files one copy for local reference and use.

Performance Measures

Results

1. Review configuration plans/blueprints ensuring drawings are as follows:	P	F
a. Complete.	P	F
b. Accurate.	P	F
c. Correct.	P	F
2. Match existing actual site/equipment layout with the configuration plans/drawings.	P	F
3. Annotate changes in colored ink.	P	F
a. Additions in red ink.	P	F
b. Deletions in yellow ink.	P	F
c. Notes in blue ink.	P	F
4. Make distribution of annotated drawings.	P	F
a. Forward one copy to the configuration management office for update drawing.	P	F

Performance Measures

- b. Retain and file one copy for local reference and use.

Results

P F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

- AR 70-1
- AR 70-37

Related

ESTABLISH A FIRE PREVENTION PROGRAM
113-623-5001

Conditions: A fire prevention program is needed for your activity. Given AR 420-90 and the installation fire prevention plan.

Standards: The standards are met when the performance measures are completed without error.

Performance Measures	Results	
1. Determine fire plan requirements.	P	F
2. Establish a fire prevention SOP for the activity.	P	F
3. Direct shift supervisors to follow fire prevention and evacuation plans for their shifts.	P	F
4. Inspect each shift to ensure the fire prevention plan is being followed.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required
AR 420-90

Related
AV0584
OD1403
QM2386
SS0651

ESTABLISH A SAFETY PROGRAM
113-623-5002

Conditions: A safety program is needed for your activity.

Standards: The standards are met when the performance measures are completed without error.

Performance Measures	Results	
1. Determine the safety requirements for usual and unusual operations.	P	F
2. Develop a safety training program.	P	F
3. Establish safety rules for usual and unusual operations.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References
Required

- Related**
 AR 385-10
 AR 385-40
 FM 9-43-1

REVIEW FILES

121-004-3528

Conditions: Given the requirement to review files and access to AR 25-400-2, AR 310-50, AR 25-55, AR 380-5, approved list of files numbers, and standard office supplies and equipment.

Standards: The standards are met when files are established and properly maintained IAW AR 25-400-2.

Performance Steps

1. You can evaluate this task by using the evaluation guide and/or administering the performance test.
 - a. Evaluation Guide. This method of evaluation is appropriate if the NCO supervises SL 1/2 soldiers who establish files. Use the EVALUATION GUIDANCE statement to grade performance after the NCO has reviewed the files prepared by SL 1/2 soldiers.
 - b. Performance test. Obtain a blank sheet of paper and AR 25-400-2 for each NCO to be evaluated. Tell the NCOs to write their answers to the questions on the sheet of paper provided.

Performance Measures

Results

NOTE: HDR: Did you:

- | | | |
|---|---|---|
| 1. Ensure that the list of file numbers for the files being established is current, contains those elements prescribed in AR 25-400-2, and is approved by the local records management officer (RMO)? | P | F |
| 2. Ensure that unidentified files currently in the files area were submitted to the RMO for subsequent numbering? | P | F |
| 3. Ensure that all "event" disposition file folder labels were properly prepared with file number, title, Privacy Act system notice number (if applicable), and disposition instructions? (Files destroyed upon or immediately after the occurrence of a specific action or event.) | P | F |
| 4. Ensure that all "time" disposition folder labels were properly prepared with the file number, title, Privacy Act system notice number (if applicable), year of accumulation (CY or FY), and disposition instructions (such as cutoff, transfer, retire, destroy)? (Files destroyed after a specific period of time or permanently retained.) | P | F |
| 5. Ensure that all "time-event" disposition file folder labels were properly prepared with file number, title, ACTIVE or INACTIVE designation, year of accumulation (INACTIVE file only - CY or FY), Privacy Act system notice number (if applicable), disposition instructions on the ACTIVE label telling when to place in inactive file, and disposition instructions on the INACTIVE label such as those listed in performance measure 4? (Files destroyed a certain time period after the occurrence of a specific action or event.) (Prepared an ACTIVE file to contain the material until a specific action or event occurs; prepared an INACTIVE file to contain the material for a certain time period until destruction.) | P | F |
| 6. Ensure that any desired "dummy" file folders - (no 5) labels were properly prepared with full label entries when there are several folders under one file number? | P | F |
| a. Label "dummy" file folder IAW performance measure 3, 4, or 5 as appropriate. | P | F |
| b. Tape shut the "dummy" file folder. | P | F |
| c. Label subsequent folders with only file numbers contain identification of each folder and year of accumulation (when appropriate.) | P | F |
| 7. Ensure that all file labels were properly positioned on the left side of the folders or as otherwise directed by MACOM or local supplementation? | P | F |

Performance Measures	Results	
8. Ensure that any desired file guide card labels were properly prepared to divide files, identify subdivisions, or use as a "dummy" instead of using a folder (labeled IAW performance measure 3, 4, or 5 as appropriate)?	P	F
9. Ensure that the file guide cards were arranged in correct numerical sequence?	P	F
10. Ensure that the file folders were arranged in a correct numerical sequence?	P	F
11. Ensure that the folders were arranged in annual blocks?	P	F
a. Cut off folders at the end of the year (CY or FY).	P	F
b. Set up new folders for the new year.	P	F
c. Continue folders with no year of accumulation ("event" file) from the previous annual block to the new annual block.	P	F
d. File current and previous annual block in separately marked drawers or, if filed in same drawer, by separating the annual blocks with year-dated file guide cards.	P	F
12. Ensure that expanded files were provided when a file folder reaches capacity?	P	F
a. Prepare additional folders.	P	F
b. Divide the material between the folders in an alphabetical, dated, or numerical arrangement.	P	F
c. Make a notation on each file label to indicate the dividing point.	P	F
13. Ensure that binders were properly labeled?	P	F
a. With full label entries for a single folder or the first binder in a series under the same file number.	P	F
(1) File number.	P	F
(2) File title.	P	F
(3) Contents identification.	P	F
(4) Disposition instructions IAW performance measure 3, 4, or 5 as appropriate.	P	F
b. With subsequent binder labels containing only file numbers and contents identification.	P	F
14. Ensure proper labeling of file containers and/or file drawers?	P	F
a. With beginning and ending file numbers and year of accumulation.	P	F
b. With full label entries when a drawer contains one (and only one) file number record series and contains all of that series (label IAW performance measure 3, 4, or 5 as appropriate).	P	F
c. With full label entries when a drawer contains only part of one record series (label IAW performance measure 3, 4, or 5 as appropriate and performance measures 12b and 12c).	P	F
15. Ensure the list of file numbers was filed IAW file number 1a, AR 25-400-2?	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

AR 25-400-2
AR 25-55
AR 310-50
AR 380-5

Related

AG0104
AG0218
AG0404
QM6155
Subcourse AG 0404
Subcourse AG 0409

Subject Area 13: SATCOM Site Security

INSPECT KEY CONTROL

113-379-7001

Conditions: Given key container(s) and access to key control unit SOP, AR 190-13, AR 190-51, and FM 19-30.

Standards: The standards are met when key control procedures are inspected and all deficiencies noted.

Performance Measures	Results	
1. Inspect unit SOP for compliance with local and Department of the Army publications.	P	F
2. Compare key and lock inventory against the list of buildings/entrances/cabinets/safes for which keys are controlled.	P	F
3. Perform a showdown of personally signed keys.	P	F
4. Compare number and identification of keys shown on unit records with physical key and lock inventory.	P	F
5. Check all master keys and above to ensure they are imprinted with "US GOVERNMENT DO NOT REPRODUCE."	P	F
6. Inspect key control access roster to ensure that all personnel with access to keys are listed.	P	F
7. Inspect files of inventories and previous inspections.	P	F
8. Inspect container to ensure it meets the current regulatory guidelines and that it is affixed properly to a permanent structure.	P	F
9. Verify that there are additional duty orders on the primary and alternate key control custodians.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required
 AR 190-13
 AR 190-51
 FM 19-30
 Unit SOP

Related

**EVALUATE THE RESULTS OF FACILITY PHYSICAL SECURITY INSPECTION
113-573-1002**

Conditions: Given a facility, AR 190-13, and FM 19-30.

Standards: The standards are met when discrepancies are reported to the controlling authority.

Performance Measures

Results

NOTE: Refer to AR 190-13 and FM 19-30 for performance measures 1 through 3.

- | | | |
|---|---|---|
| 1. Prepare checklist for type facility. | P | F |
| 2. Perform physical security inspection. | P | F |
| 3. Report discrepancies to controlling authority. | P | F |

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required
AR 190-13
FM 19-30

Related
AR 380-15
FM 11-43
MP1000

**EVALUATE COMMUNICATIONS SECURITY (COMSEC) FOR INSECURITIES
113-573-2032**

Conditions: Given AR 380-5 and TB 380-41.

Standards: The standards are met when the facility COMSEC is evaluated and discrepancies are noted.

Performance Measures	Results
1. Determine if a COMSEC insecurity exists.	P F
2. Identify type of COMSEC insecurity.	P F
3. Report the COMSEC insecurity as IAW AR 380-5.	P F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required
AR 380-5
TB 380-41

Related

PERFORM SITE RECONNAISSANCE

113-611-1013

Conditions: In all conditions and situations, given unit SOP, OPORD/OPLAN, appropriate map(s) with areas marked to indicate equipment location, FM 24-1, and Fm 71-1.

Standards: The standards are met when the signal site is selected, stakes are marked to indicate equipment location, and the site layout and strip maps are prepared.

Performance Steps

1. Specific requirements for the signal site are contained in the mission OPORD/OPLAN. Ensure you take note of personnel, equipment, and logistics requirements when preparing for site selection.
2. Use the appropriate map to narrow the number of potential sites and routes to a list of the best possible candidate site and route(s).
3. Evaluation of potential sites must include at a minimum:
 - a. Accessibility. Can the site be reached regardless of the weather or time of year? What must travel the roads/paths? What is the condition of those roads/paths?
 - b. Terrain. Is the site relatively flat and well-drained?
 - c. Camouflage/concealment. Does the potential site provide overhead camouflage and concealment?
 - d. Technical suitability. Is the site location within the range, capabilities, and limitations of the equipment to be deployed?
4. Once the best site is selected, the site will be marked for location of tents, vehicles, generators, fuel points, and fire points. The easiest way to do this is to drive stakes at desired locations and mark them with tags to indicate what will be placed where.
5. Based on your current location, the new site and the route(s) to take, prepare strip maps providing adequate navigational information to permit drivers to find their way if they become separated from the main body.

Evaluation Preparation: Setup: The unit OPORD/OPLAN, appropriate maps, and transportation will be provided. Brief soldier: You will select a site, drive and mark stakes to indicate equipment locations at the site, and prepare strip maps.

Performance Measures	Results	
1. Determine specific site requirements.	P	F
a. Logistics.	P	F
b. Equipment.	P	F
c. Personnel.	P	F
2. Conduct preliminary site selection using maps.	P	F
3. Determine site suitability.	P	F
a. Accessibility.	P	F
b. Relative flatness.	P	F
c. Natural cover/concealment.	P	F
d. Within equipment range.	P	F
e. Dependability.	P	F
4. Stake equipment locations, time permitting (optional).	P	F
5. Prepare strip maps to indicate route of travel to site.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

FM 24-1
FM 71-1
OPORD
Unit SOP

Related

MAINTAIN A SITUATION MAP
113-611-5012

Conditions: As a communications systems supervisor, you are required to maintain a situation map. Given unit operation order/operation plan (OPORD/OPLAN), unit SOP, a map of the area of operation, situation reports from S2, FM 24-16, and FM 101-5.

Standards: The standards are met when the situation map is posted with current information and meets the requirement of your unit OPORD/OPLAN. NOTE: This task is performed on a continuous basis.

Evaluation Preparation: Setup: OPORD, map of area of operation, and situation reports will be available. Brief soldier: You will maintain a map and post current information.

Performance Measures	Results	
1. Review the mission/SOP.	P	F
2. Review the data to be posted on situation map.	P	F
a. Tactical situation.	P	F
b. Location of the headquarters for major elements of the command.	P	F
c. Deployment of signal facilities.	P	F
d. Lists and locations of reserve equipment.	P	F
3. Review the situation map for correct tactical data.	P	F
4. Update the situation map.	P	F
a. Remove obsolete data.	P	F
b. Post new data.	P	F
c. Update security classifications, as required.	P	F
d. Record time period covered or time posted.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required	Related
FM 101-5	IT0588
FM 24-16	
OPLAN	
OPORD	
Unit SOP	

DIRECT THE ESTABLISHMENT OF A SIGNAL SITE DEFENSE

113-611-5016

Conditions: Given a specified area to defend, a Signal platoon, the unit's table of organization and equipment (TOE), and a requirement to defend that area.

Standards: The standards are met when site defense is planned and established, and a site defense overlay is prepared.

Performance Steps

1. A well prepared site defense gives advance warning of attackers, reduces the number of possible approach routes, and assists in denying or delaying penetration by the enemy.
2. Listening and observation posts should be established and manned as personnel and mission requirements permit. These posts should be established outside the security zone in protected locations which provide an unobstructed view of possible avenues of enemy approach.
3. Protective physical barriers must be established to provide security for the security zone. The size of the area is determined by the complexity of the site and the degree of compartmentalization required. Positive barriers should be established to:
 - a. Control vehicular and pedestrian traffic flow.
 - b. Check identification of personnel entering or departing.
 - c. Define a buffer zone for more highly classified areas.
4. Fighting positions are established for both individual and crew-served weapons. Locate these positions to take maximum advantage of natural cover and concealment and to provide good, clear fields of fire so a credible defense of the site is accomplished.
 - a. Keep individual fighting positions as small as possible, but large enough for individual soldiers in full combat gear. Construction overhead protection if time and the tactical situation permit.
 - b. Crew-served weapons fighting positions are larger owing to the requirements for two or more soldiers to man the weapons. When constructing these positions, provide firing positions for both the crew-served weapons and the individual weapons of the soldiers.
5. Use concertina wire when it is available, especially around areas where classified information or material is located. The unit SOP provides additional guidance on the use of this barrier material.
6. Coordinate command and control of site defense from a centralized location which is identified to all soldiers.
7. In the event it becomes necessary to withdraw from a location, materials ranging from classified papers to equipment may have to be destroyed in place. The unit SOP will contain instructions for the implementation of site destruction plans. The procedures to follow for the destruction of classified material are contained in the performance steps of task 113-573-0001.

Evaluation Preparation: Setup: You are provided with an operational tactical signal site, equipment, and personnel. Brief soldier: You will direct the establishment of a site defense.

Performance Measures

NOTE: HDR: Locations for site elements must be determined with consideration for operational requirements, tactical cover, and dispersion.

	Results	
1. Make a tentative plan.	P	F
2. Position security outposts around the site to provide early warning of an enemy approach.	P	F

Performance Measures	Results	
3. Establish entrance/exit points and lanes for traffic flow within the site.	P	F
4. Coordinate with engineer elements for assistance in establishing field fortifications for communication assemblages, as required.	P	F
5. Direct the location and construction of individual and crew-served fighting positions.	P	F
6. Direct the installation of artificial obstacles, as required.	P	F
7. Identify and locate focal points for command and control of the site defense.	P	F
8. Plan for orderly withdrawal.	P	F
a. Specific instructions for destruction of material which cannot be evacuated.	P	F
b. Positive controls for implementation of the destruction plan.	P	F

Evaluation Guidance: Score the soldier GO if all steps are passed. Score the soldier NO-GO if any step is failed. If the soldier fails any step, show what was done wrong and how to do it correctly. Have the soldier practice until he can correctly perform the task.

References

Required

STP 21-1-SMCT
STP 21-24-SMCT

Related

FM 21-75
FM 24-21

**APPENDIX A
SAMPLE TSO**

ROUTINE

R 140717Z JUL 98

FM DISA EUR TSR-TSO-CRP TRAFFIC VAIHINGEN GE//EU8//

TO 886CS RAMSTEIN AB SEMBACH ANNEX GE//SCST/SCSD//
CDR OPMAS-E DCS STA LANDSTUHL GE//AFSE-F-ITT-LDL//
DCS STA LANDSTUHL GE//AFSE-XB-HSC//
86CS RAMSTEIN AB GE//SCMTU/SCMTI//
CDROPMAS-E DCS STA DONNERSBERG GE//AFSE-F-ITT-DON//

INFO USAFE CSS CMO RAMSTEIN AB GE//SCBM//
4ASOS MANNHEIM GE//LGSS//
DISA EUR VAIHINGEN GE//EU31CONT//
DISA TCO RFS-TSR TRAFFIC VAIHINGEN GE//EU8//

THIS IS A 3 SECTIONED MSG COLLATED BY MDS
UNCLAS
TSO E81929/W0U4-01
REF:

A. DISA-EUR TCO MSG DTG 291103Z JUN 98 (START TSR BF17JUN988097)

1. PURPOSE

A. THIS TSO IS ISSUED IAW REFERENCE "A" TO START A TEMPORARY 1.2KB
IN- DIRECT AUTODIN CIRCUIT BETWEEN POINTS DEPICTED.

2. GENERAL CIRCUIT/TRUNK INFORMATION

- A. JEXDW0U4 B. NA C. TEMPORARY
- D. 200800Z JUL 98 THRU 242359Z JUL 98
- E. (1) SEMBACH BCO GE/4 CONTACT: SUPERVISOR, DSN: 496-7176, CML:
06302-47-7176
- (2) UNDTMNDL TAC ZV/0 CONTACT: HOME BASE SUPVR, DSN:
385-2115/2195, CML: 06217-302115/2195
- F. C1 4C G. FULL DUPLEX
- H. CCO SEMBACH/GE/TCF/DSN: 496-6620 CML 06302-67-6620
- I. 1.2KB J. SECURED K. TEMP-EXEC
- L. NO SIGNALING
- M. NA N. BF17JUN988097 O. NA P. A Q. A
- R. NA S. DF T. NA
- U. (1) N/A
- (2) N/A
- (3) N/A
- V. NA
- W. NA X. NA Y. D Z. NA AA. NA AB. NA AC. NA
- AD. NA AE. NA AF. NA AG. NA AH. NA
- AI. NA AJ. NA AK. NA
- AL. NA AM. NA AN. NA
- AO. NA AP. NA AQ. NA AR. NA AS. NA AT. NA
- AU. NA AV. NA AW. NA AX. NA

3. FACILITY AND EQUIPMENT INFORMATION

A. SEMBACH GE4BCO

BLDG/DIRECTIONS/ADDRESS: 203
RM/FL: COMM CENTER
CONTACT: SUPERVISOR, DSN: 496-7176, CML: 06302-47-7176
MAIL ADDRESS: 886CS/SCSD, UNIT 10300, APO AE 09136

- (1) (A) MESSAGE DISTRIBUTION TERMINAL
- (B) TERM: 4W
- (C) CABLE CROSS-CONNECT
- (D) RED DC PATCH / CONNECTOR
- (E) KG-84A
- (F) BLACK DC PATCH / CONNECTOR
- (G) CABLE CROSS-CONNECT
- (H) INTERFACE: FREDRICKS 1280A MODEM, FSK, 44 CABLE, 22 GA, 200 FT, 0.0 DB LOSS
- (I) CABLE CROSS-CONNECT
- (2) (A) 44 C NO SIG Z

B. SEMBACH GE4TCF

BLDG/DIRECTIONS/ADDRESS: 114
RM/FL: 1
CONTACT: SUPERVISOR, DSN: 496-6620, CML: 06371-67-6620
MAIL ADDRESS: 886CS/SCST, UNIT 10300, APO AE 09136

- (1) (A) CABLE CROSS-CONNECT
- (B) MAIN DISTRIBUTION FRAME, 44 CABLE, 22 GA, 30 FT, 0.0 DB LOSS
- (C) TERM: 4W
- (D) INTERFACE: AN/FCC-98 TDM MULTIPLEXER
- (E) CABLE CROSS-CONNECT
- (2) (A) 44JND6 0A0T NO SIG Z

C. SEMBACH GE4DP1

BLDG/DIRECTIONS/ADDRESS: 114
RM/FL: R-1
CONTACT: SUPERVISOR COMM 06302-67-6816 DSN 496-6816
MAIL ADDRESS: 886CS
SCST
UNIT 10300
APO AE 09136

- (1) (A) TDM MULTIPLEX
- (B) DIGITAL T1 PATCH
- (C) DIGITAL PATCH AND ACCESS SYSTEM (DPAS)
DPASMML CMD: CONN-CRS-TO: SEMBACH01:031-001, 044-001::
TC(0011,0011),TRB::;
DPAS DATA:
CKT TYP OPER:FDX DPAS FRAME ID:SEMBACH01
DPAS NPC FM PORT/CHNL:031-001
DPAS NPC TO PORT/CHNL:044-001
DPAS TRUNK CONDITIONING: NO SIG, FULL DUPLEX
DPAS CONTROL TERMINAL (DCT) DATA
CKT ID:W0U4 TSP: CONDITIONING CODE: C1 4C
STATUS: TEMP-EXEC CKT TYPE:C
TRUNK CHN RANGE END STA NEXT STA LINK MUX PORT DACS PORT
44JND6 001 NA SEH SBC CABLE NA 031
44JK97 001 NA SBC BNN M0851 A4 044
- (D) DIGITAL T1 PATCH
- (E) TDM MULTIPLEX
- (2) (A) 44JK97 0A0T NO SIG Z

D. BANN GE4DP1

BLDG/DIRECTIONS/ADDRESS: 9

RM/FL: R-2

CONTACT: SUPERVISOR COMM 06371-86- 8645 DSN 480-6881
781-8689

MAIL ADDRESS: OL-A, 86TH COMM SQ

/SCMT/

APO AE

091261385

(1) (A) TDM MULTIPLEX

(B) DIGITAL T1 PATCH

(C) DIGITAL PATCH AND ACCESS SYSTEM (DPAS)

DPASMML CMD: CONN-CRS-TO: BANN01:060-001, 022-001::

TC(0011,0011),TRB::;

DPAS DATA:

CKT TYP OPER:FDX DPAS FRAME ID:BANN01

DPAS NPC FM PORT/CHNL:060-001

DPAS NPC TO PORT/CHNL:022-001

DPAS TRUNK CONDITIONING: NO SIG, FULL DUPLEX

DPAS CONTROL TERMINAL (DCT) DATA

CKT ID:W0U4 TSP: CONDITIONING CODE: C1 4C

STATUS: TEMP-EXEC CKT TYPE:C

TRUNK CHN RANGE END STA NEXT STA LINK MUX PORT DACS PORT

44JK97 001 NA SBC BNN M0851 A4 060

44CK31 001 NA BNN LSL M0712 A6 022

(D) DIGITAL T1 PATCH

(E) TDM MULTIPLEX

(2) (A) 44CK31 0A0T NO SIG Z

E. LANDSTHL GE4DP1

BLDG/DIRECTIONS/ADDRESS: 3377

RM/FL: R-2

CONTACT: SUPERVISOR COMM 06371-86-829-5/7382 DSN 486-8295/7382

MAIL ADDRESS: COMMANDER OPMAS-E

SITE CHIEF

DCS SITE LANDSTUHL

CMR 402APO AE 09180

(1) (A) TDM MULTIPLEX

(B) DIGITAL T1 PATCH

(C) DIGITAL PATCH AND ACCESS SYSTEM (DPAS)

DPASMML CMD: CONN-CRS-TO: LANDSTHL01:022-001, 115-011::

TC(0011,0011),TRB::;

DPAS DATA:

CKT TYP OPER:FDX DPAS FRAME ID:LANDSTHL01

DPAS NPC FM PORT/CHNL:022-001

DPAS NPC TO PORT/CHNL:115-011

DPAS TRUNK CONDITIONING: NO SIG, FULL DUPLEX

DPAS CONTROL TERMINAL (DCT) DATA

CKT ID:W0U4 TSP: CONDITIONING CODE: C1 4C

STATUS: TEMP-EXEC CKT TYPE:C

TRUNK CHN RANGE END STA NEXT STA LINK MUX PORT DACS PORT

44CK31 001 NA BNN LSL M0712 A6 022

44UNC8 011 NA LSL LDL CABLE NA 115

(D) DIGITAL T1 PATCH

(E) TDM MULTIPLEX

(2) (A) 44UNC8 0K0T NO SIG Z

F. LANDSTHL GE4TCG

BLDG/DIRECTIONS/ADDRESS: 3377
RM/FL: 2
CONTACT: SUPERVISOR, DSN: 486-8295, CML: 06371-86-8295
MAIL ADDRESS: ITT/DCS STA LANDSTUHL, APO AE 09180

- (1) (A) AN/FCC-98 TDM MULTIPLEXER
- (B) TERM: 4W
- (C) CABLE CROSS CONNECT, 44 CABLE,

(2) (A) 44 C NO SIG Z

G. LANDSTHL GE4NM1

BLDG/DIRECTIONS/ADDRESS: 3377
RM/FL: 2
CONTACT: SUPERVISOR, DSN: 486-8295, CML: 06371-86-8295
MAIL ADDRESS: ITT/DCS STA LANDSTUHL, APO AE 09180

- (1) (A) CABLE CROSS-CONNECT
- (B) ADN-48 130A
- (C) 2WFXS SLOT 13A
- (D) REAR CARD INTERFACE: I/F
- (E) INTERFACE: PRC FRONT CARD
- (F) FRONT CARD INTERFACE: PRC
- (G) INDX T-BUSS CROSS-CONNECT

(2) (A) 44 Z NO SIG Z

(E) N130C113P24

H. LANDSTHL GE4NM2

BLDG/DIRECTIONS/ADDRESS: 3383
RM/FL: 1
CONTACT: SUPERVISOR, DSN: 486-8604, CML: 06371-86-8604
MAIL ADDRESS: CDR181SIGCO, CMR 402, APO AE 09180

- (1) (A) INDX T-BUSS CROSS-CONNECT
- (B) FRONT CARD INTERFACE: PRC
- (C) INTERFACE: PRC FRONT CARD
- (D) REAR CARD INTERFACE: I/F
- (E) 2WFXS SLOT 15A
- (F) ADN-48 12B
- (G) CABLE CROSS-CONNECT

(2) (A) 44 C NO SIG Z

(E) N12C35P28

I. LANDSTHL GE41IO

BLDG/DIRECTIONS/ADDRESS: 3383
RM/FL: 1
CONTACT: SUPERVISOR, DSN: 486-8604, CML: 06371-86-8604
MAIL ADDRESS: CDR181SIGCO, CMR 402, APO AE 09180

- (1) (A) INTERFACE: CABLE CROSS CONNECT
- (B) TERM: 4W
- (C) TD-1389 LOW RATE MULTIPLEXER (LRM)

(2) (A) 44 R NO SIG Z

J. UNDTMNDL ZV0TS1

BLDG/DIRECTIONS/ADDRESS: DEPLOYED SATCOM VAN
RM/FL: 1
CONTACT: HOME BASE SUPVR, DSN: 385-2115/2195, CML:
06217-302115/2195

MAIL ADDRESS: HOME BASE: 4ASOS/LGS, UNIT 29903 BOX 135, APO AE
09086

- (1) (A) TD-1389 LOW RATE MULTIPLEXER (LRM)
- (B) TERM: 4W
- (C) INTERFACE: CABLE CROSS CONNECT

(2) (A) 44 R NO SIG Z

K. UNDTMNDL ZV0TAC

BLDG/DIRECTIONS/ADDRESS: COMMUNICATIONS VAN

RM/FL: 1

CONTACT: HOME BASE SUPVR, DSN: 385-2115/2195, CML:
06217-302115/2195MAIL ADDRESS: HOME BASE: 4ASOS/LGS, UNIT 29903 BOX 135, APO AE
09086

- (1) (A) CABLE CROSS-CONNECT
- (B) BLACK DC PATCH / CONNECTOR
- (C) CABLE CROSS-CONNECT
- (D) KG-84A
- (E) RED DC PATCH / CONNECTOR
- (F) CABLE CROSS-CONNECT
- (G) INTERFACE: FREDRICKS 1280A MODEM, FSK, 44 CABLE, 22 GA, 200
FT, 0.0 DB LOSS
- (H) CABLE CROSS-CONNECT
- (I) TERM: 4W
- (J) UGC-144 TERMINAL

4. NUMBER CONTROL

- A. N/A
- B. N/A
- C. N/A

5. OTHER SPECIFIC DIRECTIONS

A. COMMERCIAL/GFE DATE: 200800Z JUL 98

B. NETWORK SVC: IN-DIRECT AUTODIN

C. TSR CONTACT: MR. HENRY CARTER DISA EUR/EU8, DSN: 430-6111, CML:
0711-680-6111, EMAIL: CARTERH@EUR.DISA.MIL

D. WARNER EXEMPTION: NA

E. IN-EFFECT REPORTS FOR EITHER ACTIVATION OR DEACTIVATION OF TEMPORARY SERVICE ARE NOT REQUIRED WHENEVER THE CIRCUIT IS ACTIVATED OR DEACTIVATED AS DIRECTED IN THE TSO. IF TEMPORARY CIRCUIT ACTIVATION/ DEACTIVATION IS DELAYED, OR IF THE CIRCUIT IS ACTIVATED WITH EXCEPTION(S), THEN A DELAYED SERVICE AND/OR AN EXCEPTION REPORT MUST BE SUBMITTED. THIS REPORT MUST THEN BE FOLLOWED BY THE APPROPRIATE COMPLETION REPORT SUBMITTED TO ALL ADDRESSEES OF THE TSO.

F. T&A IS REQUIRED, UNLESS OTHERWISE INDICATED. CIRCUIT WILL BE TESTED IAW ESTABLISHED TEST SCHEDULES IN DISAC 310-70-1. TEST RESULTS WILL BE MAINTAINED IN THE CIRCUIT HISTORY FOLDER AT SERVING TECH CONTROLS. TEST RESULTS WILL NOT BE SUBMITTED TO HIGHER ACTIVITIES UNLESS SPECIFICALLY REQUESTED.

G. THIS TSO IS IN SUPPORT OF EXERCISE/PROJECT: CAS SCRAMBLE 98

H. COST THRESHOLD/DISN ESTIMATED COST: NO FUNDS INVOLVED.

I. TSR REMARKS: 1) THIS CIRCUIT SUPPORTS THE 4ASOS IN THEIR UNIT
LEVEL EXERCISE CAS SCRAMBLE 98.

2) IF SERVICE CANNOT BE PROVIDED AS REQUESTED USER WILL ACCEPT SERVICE AS SOON AS POSSIBLE THEREAFTER. HOWEVER, DO NOT PROVIDE SERVICE AFTER 24 JUL 98.

J. RFS NO: USAFE15JUN983214 / 4ASOS01MAY980009

K. ANY ADDRESSEE HAVING ACTION ON THIS TSO. WILL NOTIFY THE DISA ACTIVITY, CCO/CMO, AND TSR POINT OF CONTACT. IMMEDIATELY OF PROBLEMS WHICH MAY AFFECT THE SPECIFIED ACTION. ALL STATIONS WILL REVIEW THE CONFIGURATION, EQUIPMENT, CONTACT NUMBERS AND ADDRESSES CONTAINED IN THIS TSO ON ANY ERRORS SO THAT SUBSEQUENT

TSO'S MAY BE UPDATED.

L. DATA BASE ACTION WILL BE TAKEN BY **DISA-EUROPE**

M. TSO CONTACT: MR. CLAYTON PETERS EU8, ML, DSN: 430-6112;CML:
0711-680-6112; EMAIL: PETERSC@EUR.DISA.MIL

6. SWITCHED RECORD NETWORK INFO (AUTODIN)

A. NA B. NA C. NA

D. NA E. NA

F. NA G. NATO-SECRET

H. NA I. NA

J. A K. NA L. NA M. NA

N. ALT NARRATIVE RI: , ,

 ALT DATA RI: , ,

 ALT MAG TAPE RI: , ,

 ALT Q/R HOST RI: , ,

O. NA

P. NA

Q. NA

R. NA S. NA T. NO U. NA V. NA

W. NA X. NA

Y. NA

Z. N AA. NO

BT

NNNN

APPENDIX B**DA FORM 5164-R
(HANDS-ON EVALUATION)****B-1. Introduction.**

The DA Form 5164-R (Hands-On Evaluation) allows the trainer to keep a record of the performance measures a soldier passes or fails on each task. Instructions for using this form follow.

B-2. Prior to evaluating the soldier.

- a. Obtain a blank copy of DA Form 5164-R, which you may locally reproduce on 8 1/2- by 11-inch paper.
- b. Enter the task title and 10-digit number for the task from the evaluation guide of the soldier's manual task summary.
- c. In column a, enter the number of each performance measure from the evaluation guide.
- d. In column b, enter the performance measure corresponding to the performance measure number in column a. (You may abbreviate this information if necessary.)
- e. Enter the feedback statement from the evaluation guide just below the last performance measure.
- f. Locally reproduce the partially completed form if you are evaluating more than one soldier on the task or the same soldier on more than one task.

B-3. During the evaluation.

- a. Enter the date just before evaluating the soldier's task performance.
- b. Enter the evaluator's name and the soldier's name and unit.
- c. For each performance measure, column b, enter a check in column c (*PASS*) or column d (*FAIL*), as appropriate.
- d. Compare the number of performance measures the soldier passes (and if applicable, which ones) against the task standard shown in the Feedback statement. If the standard is met or exceeded, check the *GO* block under *STATUS*; otherwise check the *NO-GO* block.

Figure B-1 is a sample of a completed DA Form 5164-R.

HANDS-ON EVALUATION For use of this form see AR 350-37. The proponent agency is DCSOPS.		DATE 20 FEB 1998	
TASK TITLE CAMOUFLAGE YOUR DEFENSIVE POSITION		TASK NUMBER 051-202-1363	
ITEM a	PERFORMANCE STEP b	SCORE (Check One)	
		PASS c	FAIL d
1	APPROACH POSITION FROM REAR.	<input checked="" type="checkbox"/> P	<input type="checkbox"/> F
2	POSITION CANNOT BE DETECTED FROM 35 METERS IN FRONT OF POSITION.	<input checked="" type="checkbox"/> P	<input type="checkbox"/> F
3	DOES NOT DISTURB TREES, BUSHES AND GRASS AROUND POSITION.	<input checked="" type="checkbox"/> P	<input type="checkbox"/> F
4	COVERS PARAPET WITH VEGETATION.	<input checked="" type="checkbox"/> P	<input type="checkbox"/> F
5	HIDES EXCESSIVE SOIL AT REAR OF POSITION.	<input type="checkbox"/> P	<input checked="" type="checkbox"/> F
6	BREAKS-UP OUTLINE WITH VEGETATION.	<input checked="" type="checkbox"/> P	<input type="checkbox"/> F
SAMPLE			
EVALUATOR'S NAME SFC WHITMAN		UNIT A CO 2/6TH	
SOLDIER'S NAME SP4 ANDERSON		STATUS <input type="checkbox"/> GO <input checked="" type="checkbox"/> NO GO	

DA FORM 5164-R, SEP 85 (EDITION OF 82 TO BE USED)

Figure B-1. Sample of a Completed DA Form 5164-R

GLOSSARY**Section I**
Abbreviations

(O)	FOR OFFICIAL USE ONLY
(V)	version
A/D	analog to digital
AC	alternating current/Active Component/assistant commandant
ACCP	Army Correspondence Course Program
AFC	automatic frequency control; Army functional course
AFI	automatic fault isolation
AIT	Advanced Individual Training
ALTNCT	alternate network control terminal
AMDF	Army Master Data File
AME	antenna-mounted electronics
AN	annually (frequency code)
ANCOC	Advanced Noncommissioned Officer Course
approx	approximately
AR	Army Regulation/Army Reserve
ARTEP	Army Training and Evaluation Program
ASAT	Automated Systems Approach to Training
ASI	additional skill identifier
AV	audiovisual
BA	biannually (frequency code)
BER	bit error rate
BIT	built-in test
BITE	built-in test equipment
BNCOC	Basic Noncommissioned Officer Course
BW	biweekly (frequency code)

C	centigrade
CBR	chemical, biological, and radiological
CCC	critical control circuit
CDR	commander
CD-ROM	compact disk-read only memory
chan	channel
CK	color killer
C/KT	carrier-to-receiver noise density
CMA	control monitor and alarm
CMD	color monitor device
COD	code of the day
COMM	communications
COMM R/T	communications receiver-transmitter
COMSEC	communications security
CONFID	confidential
cont	continued
CP	command post
CRIB	card reader insert board
Crypto	cryptographic
CSU	control synchronization unit
CY	calendar year
DA	Department of the Army; distribution amplifier
DA Form	Department of the Army form
DA Pam	Department of the Army pamphlet
DASA	DSCS auto spectrum analyzer
DCSCU	dual capacity servo control unit
DCSS	Digital Communications Satellite Subsystem
DD	Department of Defense

DD Form	Department of Defense form
DECS	DSCS ECCM control subsystem
DECS-CC	DSCS ECCM control subsystem-central component
DECS-RC	DSCS ECCM control subsystem-remote component
demux	demultiplexer
DFCS-NCT	DSCS-FDMA control subsystem-network control terminal
DFCS-NT	DSCS-FDMA control subsystem-network terminal
DISAC	Defense Information Systems Agency Circular
DLA	data level adjustment
DNPS	DSCS network planning software
DoD	Department of Defense
DOSS	DSCS operational support system
DS	direct support
DSCS	Defense Satellite Communications System
DSCSOC	DSCS operations center
DTF	disciplined time frequency
DTG	date-time group; digital transmission group
ECCM	electronic counter-countermeasures
ECU	environmental control unit
EIRP	effective isotropic radiated power
ET	earth terminal
F	Fahrenheit; fail
FAMU	fault alarm monitor unit
FCS	frequency conversion system
FDMA	frequency division multiple access
FH	frequency hop or hopping
FMC	fully mission capable
FSSP	fault and system status panel

FY	fiscal year
GMF	ground mobile force
GNC	GMF network controller
GRD	ground
HAZCON	hazardous condition
HPA	high power amplifier
HP-IB	Hewlett Packard - interface bus
HQ	headquarters
HVPS	high voltage power supply
Hz	hertz
I/O	input/output
IAW	in accordance with
IDNX	Integrated Digital Network Exchange
IF	intermediate frequency
LNA	low noise amplifier
LOW	link orderwire
LRM	low rate multiplexer
LRU	lowest repairable unit
MACOM	major Army command
METL	mission essential task list
MHz	megahertz
MO	monthly (frequency code)
MOS	military occupational specialty
MPH	miles per hour
MSC	Medical Service Corps
MSO	MILSATCOM Systems Office
MTP	mission training plan; MOS training plan
MUX	multiplex

NA	not applicable
NBC	nuclear, biological, chemical
NCB	network configuration book
NCO	noncommissioned officer
NCT	net control terminal
NRZ	nonreturn to zero (signal format)
NT	network terminal
OPLAN	operations plan
OPORD	operation order
OTP	one-time pad
OTT	one-time tape
OW	orderwire
P	pass
PC	programmable controller; personal computer
PLL	prescribed load list
PMCS	preventive maintenance checks and services
PQDR	product quality deficiency report
PTF	patch and test facility
QT	quarterly (frequency code)
R/T	receiver-transmitter
rcv	receive
RF	Reserve Forces; radio frequency
RFEA	RF equipment assembly
RFIS	radio frequency interface subsystem
RHA	records holding area
RMO	records management official
RSSC	Regional Signal Support Center
SA	semiannually (frequency code)

SAA	satellite access authorization
SAR	satellite access request
SATCOM	satellite communications
SCCE	satellite configuration control element
SER	SATCOM equipment report
SF	standard form
SL	skill level
SM	soldier's manual
SMCT	Soldier's Manual of Common Tasks
SNC	satellite network controller
SOP	standing operating procedure
STEP	standardized tactical entry point
STP	soldier training publication
TACSAT	tactical satellite
TB	technical bulletin
TCC	terrestrial critical control unit
TDI	time-date initializer
TEC	Training Extension Course
TED	trunk encryption device
TG	trainer's guide
TM	technical manual
TMDE	test, measurement, and diagnostic equipment
TSO	telecommunications service order
TSSP	tactical satellite signal processor
TTY	teletypewriter
US	United States
UNIT	brevity code for "trained in the unit"
UTE	unit test equipment

VA	Virginia
VF	voice frequency
WK	weekly

Section II

Terms

common task

A critical task for which all soldiers at a given skill level are accountable, regardless of their MOS.

field manual (FM)

A DA publication that contains doctrine that prescribes how the Army and its organizations function on the battlefield in terms of missions, organizations, personnel, and equipment. The level of detail should facilitate an understanding of "what" and "how" for commanders and staffs to execute their missions and tasks. The FM may also be used to publish selected alliance doctrinal publications that are not readily integrated into other doctrinal literature.

mission training plan (MTP)

A MTP provides comprehensive training and evaluation outlines and exercises concepts and related training management aids to assist field commanders in the planning and execution of effective unit training. It provides units a clear description of "what" and "how" to train to achieve wartime mission proficiency.

performance measures (PM)

Those behavior or product characteristics which the trainer observes/checks to determine if the soldier has performed the task correctly.

task summary (TS)

A statement of the task in an action-verb format plus all essential performance measures. A standard format fully describes the task for the soldier in the field. It will accommodate any product or process task whether it is in fixed sequence, alternate sequence, or combination. The task summary is used both to train the soldier to perform the task and to evaluate the soldier's ability to perform the task (within testing constraints).

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DA Form 2406	Materiel Condition Status Report. April 1993
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DA Form 4569	Requisition Code Sheet. July 1996

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FM 71-1	Tank and Mechanized Infantry Company Team. 26 January 1998

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AMDF	USA AMC Catalog Data Activity (CDA) Army Master Data File Code Reference Guides (CDA pamphlets)
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DISAC Notice 210-0-1	Index, DISA Circulars and Notices. Issued each January
GSD-TR-5644	DOSS User Manual
GSD-TR-5645	DASA User Manual
IDNX MANUAL	IDNX Contractor Manual
OPLAN	Applicable Operation Plan for the unit
OPORD	Applicable Operation Order for the unit
Sat Ref Data Handbook	Satellite Reference Data Handbook (Volume 2)
Satellite station (EURSAT)	Satellite Station (EURSAT)
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Related publications are sources of additional information. They are not required in order to understand this publication.

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AG0104	Administrative Forms Management Program
AG0218	Using Military Publications and Establishing File
AG0404	Modern Army Record Keeping System (MARKS)
AR0603	Maintenance Service Records
AR0606	Repair Parts Supply
AR0609	The Unit Maintenance Program
AV0584	Safety Programs
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MP1000	Physical Security Planning
OD1403	Shop Safely
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QM2386	Establish a Fire Preventive and Safety Program
QM3069	Evaluate Prescribed Load List (PLL) Procedures
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SS0651	Shop Practices and Safety
Subcourse AG 0404	The Army Functional Files System
Subcourse AG 0409	Freedom of Information and Privacy Acts

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