

**BY ORDER OF THE COMMANDER,
PACIFIC AIR FORCES**



**PACAF INSTRUCTION 33-150,
VOLUME 15**

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Communications and Information

***DEPLOYABLE COMMUNICATIONS
STANDARDS-COMMUNICATIONS
READINESS CRITERIA***

COMPLIANCE WITH THIS PUBLICATION IS MANDATORY

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This instruction implements policy found in Air Force Policy Directive 33-1, *Command, Control, Communications, and Computer (C4) Systems*. This publication establishes communications readiness requirements and implements policy for PACAF personnel who operate or maintain deployable communications, information, and navigational aids. This publication applies to active duty communications and combat communications units with personnel assigned to mobility positions. This volume does not apply to ANG and USAFR units and members.

1. General.

1.1. This instruction provides a criteria and procedures for PACAF deployable communications units to gauge readiness to complete their contingency/wartime mission. This instruction is divided into four areas.

1.1.1. General

1.1.2. Initial Response

1.1.3. Employment

1.1.4. Mission Support

1.2. Use. This instruction is for use by local Exercise Evaluation Teams (EET) and/or higher headquarters to identify the overall readiness of deployable communications units to execute their contingency/wartime tasking. The goal of this instruction is to provide communications readiness criteria to assist local commanders in identifying strengths and weaknesses in their units. This instruction allows HQ PACAF to identify trends in training and equipment usage to ensure that all PACAF deployable communications units are mission capable. The following breaks down the three areas into their respective subareas.

1.3. Initial Response (Phase I).

- 1.3.1. Command and Control
- 1.3.2. Deployment (Personnel and/or cargo) (as applicable)

1.4. Employment (Phase II).

- 1.4.1. Command and Control
- 1.4.2. Activation
- 1.4.3. Systems

1.5. Mission Support (Phase II or I as required). *NOTE:* Specific aspects of Mission Support also include the following activities:

- 1.5.1. Vehicle Support
- 1.5.2. Power Support
- 1.5.3. Environmental Control Unit (ECU) Support

1.5.4. Simulation Procedures. During exercises not all contingency/wartime actions can or need to be accomplished. This may be due to cost or availability of equipment; the following provides guidelines for approved minimum simulation procedures.

- 1.5.4.1. Tone down requirements, such as painting high gloss coated material need not be accomplished.
- 1.5.4.2. Correct camouflage netting color is not necessary; however, all netting used must be correctly set-up.
- 1.5.4.3. As a minimum reflective surface covering will consist of a strip of tape affixed to all participating vehicle windshields. Each will be marked with the following text: "REFLECTIVE SURFACES" and/or "SIMULATED COVERED OR TONED DOWN". Units must have a plan identifying materials and actions taken to cover or tone down reflective surfaces.
- 1.5.4.4. Tape will be used to simulate M-9 tape. Tape will be marked: "M-9 TAPE" (DATE/TIME PLACED).
- 1.5.4.5. Tape will be used to simulate M-8 paper. Tape will be marked: "M-8 PAPER" (DATE/TIME PLACED).
- 1.5.4.6. Do not mark tape "M-8/M-9." M-8 and M-9 must be placed separately as in reality.
- 1.5.4.7. Shuffle box filler may be any natural material available (i.e., dirt, sand, etc.)
- 1.5.4.8. If training ground crew CWD ensembles are not in good condition, the wearer must know what is wrong with it and be able to answer CWDE questions asked by EET.
- 1.5.4.9. Draining vehicles, AGE, and other fueled items to the correct fuel level for deployment (Personnel may be asked to demonstrate the capability to drain fuel).
- 1.5.4.10. During chemical/conventional warfare exercises at deployed locations, simulated attacks may be initiated with smoke grenades, smoke pots, ground burst simulators or input cards. During these exercises, the following guidelines apply:

1.5.4.11. Unit determination of the presence or absence of simulated chemical agents and the declaration of the "ALL CLEAR" will be coordinated with and approved by the EET.

1.5.4.12. Personnel who do not properly respond to the presence of simulated chemical weapons will be removed from the exercise and considered casualties for a specified period of time as determined by the EET.

2. Initial Response (Phase I)

2.1. Summary. The Initial Response area describes actions necessary for the unit to transition from peacetime to contingency operations or wartime posture, and includes those actions that normally occur prior to the outbreak of hostilities. This section describes the procedures and criteria common throughout PACAF except as annotated. This specific criterion compliments and expands on those applicable common core criteria and procedures. Several mission summaries are listed below for reference. Specific requirements are listed in [Attachment 1](#) Initial Response Checklists [A1.1.](#) and [A1.2.](#)

2.2. Command and Control. This subarea describes the actions and procedures for a deployable communications unit to effectively direct the initial response effort, control personnel, monitor unit status, and resolve problems impacting mobilization. EET should rate the mission capability on the basis of whether mission requirements are accomplished IAW [Attachment 1](#) Initial Response Checklist [A1.1.](#) In cases where items are not completed successfully due to circumstances beyond the unit's control, the EET will determine the reason.

2.3. Deployment (Personnel and/or Cargo).

2.3.1. General. The deployment phase of Initial Response are the actions taken by a deployable communications unit to deploy its combat capability using the process defined in its local deployment guidance. The effectiveness and efficiency of the local guidance in deploying a combat capability, within the parameters defined by higher headquarters guidance, should be exercised during this phase. When units deploy via support airlift, the EET will use suitability for movement and departure timing criteria to evaluate the deployment. Units tasked to deploy by air after arrival at the Aerial Port of Embarkation, who are simulating movement to the APOE, will prepare all cargo for air shipment. When units deploy aboard organic vehicles, convoy procedures will be rated IAW AFJMAN 24-306. When notification is received, the unit should take preparatory actions as outlined in the notification. Units should be prepared to deploy UTCs identified in OPlans, DOC statements, the PACAF MIS, the War and Mobilization Plan Part III, and/or functional manager letters.

2.3.2. All actions necessary for actual deployments will be taken unless specifically exempted.

2.3.3. Mission Capability Based On Deployment Requirements. The primary focus of exercising this area is to determine the ability of the unit and its deployment process to correctly prepare the right people and equipment (based on the UTCs) to deploy at the right time (to include the correct priority).

2.3.4. Suitability for Movement. A unit's deployment process should be designed to ensure all deployment preparation requirements are met and resources are suitable to deploy.

2.3.4.1. Initial Response, Deployment Operations Command and Control. Should include communication between the Crisis Action Team, DCC, Battlestaff, and deployment workcenters, and preparation of documents IAW AFI 10-403, PACAF Sup 1, deployed locations BSP, and the Installation Deployment Plan. **Attachment 1**, Initial Response Checklist **A1.1**, outlines these items.

2.3.4.2. Initial Response, Deployment. Readiness in this area will be judged by considering areas of Personnel suitability, cargo, mobility bags, Mobility Readiness Spares Package preparation, Mobility Equipment, weapons, load safety, suitability for movement, available to load and convoy. **Attachment 1**, Initial Response Checklist **A1.2**, outlines these items.

3. Employment (Phase II)

3.1. Summary. The employment area consists of the procedures and actions a unit must take to support and employ combat forces, provide aerial/ground control of air battle, support CINC's infrastructure requirements through C&I operations and provide continuous communications capability during contingencies or wartime.

3.2. Subareas.

3.2.1. Command and Control.

3.2.2. Activation.

3.2.3. Systems

3.3. Command and Control. This subarea is the ability to monitor and control the actions, personnel, and resources to effectively provide all tasked communications and air traffic services capabilities to the user. Management personnel should be able to provide an adequate arrangement of personnel and facilities to meet mission requirements. This subarea also contains methods used to acquire, process, and disseminate information in planning, directing, and controlling operations. The items are listed in **Attachment 2** Employment, Checklist **A2.1**, Command and Control.

3.4. Activation. This subarea evaluates the deployed unit's ability to establish reliable communications. Activation is the time the tasked circuit/service is first made available to the customer. Activation timing starts at reference hour as established by the EET. Reference hour starts the timing for facility activation and activation of circuits and telephone service. This timing may be adjusted or temporarily suspended due to circumstances beyond the unit's control (for example, all air cargo has not arrived on site, Standard Tactical Entry Point (STEP) not responsive, etc.). Delays in activation due to verified or validated propagation problems may also suspend activation timing. The EET verifies all tasked circuits from terminal equipment. System activations are based on **Attachment 2** Employment, Checklist **A2.4**.

3.4.1. Circuit Activation Criteria.

3.4.1.1. Record Comm Circuits. Activation will be determined by a transmission of 12 lines of text with no greater than one error. For the HF/ISB transmission media, the message must have no greater than eight errors in 10 lines of text or one error in 12 lines of text if a time diversity modem (TDM) is used.

3.4.1.2. Voice Circuits. Two-way conversation and a ringback at both ends determine activation. Designed or tasked capabilities, such as conference, automatic ring-down, network dial-

ing, etc., must be operational for initial activation. Activation of telephone switch trunk group clusters (TGC) will be determined by “forcing” a call down a trunk within the TGC, using the tasked capability (i.e. secure, etc.). Telephone activation is based on meeting 100% of service requirements for each category of service within timelines outlined in [Attachment 2](#), checklist [A2.3](#).

3.4.1.3. Data Circuits. Synchronous circuit activation will be established by a software service connection and file transfer to a distant (off-site) IP addressable device.

3.4.2. System Activation. This item evaluates the deployed unit's ability to assemble, erect equipment; and establish mission capability for each system's facility.

3.4.2.1. Procedures. System activation begins at the reference hour as established by the EET. The reference hour starts the timing for circuits, telephone, and facility activation. System activation will continue until the last system has been declared activated. Activation occurs when the deployed unit commander declares activation complete or when all systems or facilities have completed their individual activations, whichever is sooner. At that time, the EET will verify proper assembly, erection, and mission capability level of the equipment. The system activation times are given in [Attachment 2](#) Employment, Checklist [A2.4](#).

3.4.2.2. Assemble and Erect Equipment. Units using stand-alone facilities or non-DOC-tasked facilities to augment systems (i.e. MRT-2 or Horn antenna assemblies for the TROPO/LOS systems) may have their activation time adjusted by the EET at the deployed location. The EET will adjust time requirements based on type of antenna system used/tasked. See [Attachment 2](#) Employment, Checklist [A2.4](#), for specific equipment, standard timing and assemble/erect equipment criteria.

3.4.2.3. Establish Minimum Mission Capability. Minimum mission capability is attained based on the following:

NOTE:

Unit-preventable delays will be counted as part of activation time.

3.4.2.3.1. UHF/VHF (Air/Ground) Radio. A 25-word secure voice test message will be passed to a control tower, RAPCON, aircraft or any other authorized agency.

3.4.2.3.2. UHF SATCOM. Contact is made with another station on the net or net entered for DAMA.

3.4.2.3.3. System Control Facility. All subsystem checks have been accomplished IAW applicable directives and equipment/facility T.O.s, and the facility is ready to begin work to activate the first channel or link.

3.4.2.3.4. Troposcatter, SHF Satellite, and HF/ISB Radios. All subsystem checks have been accomplished IAW equipment/facility T.O.s, and the facility is ready to begin work to activate the first traffic channel. For GMF satellite terminals, contact must be made with GMF control through the order wire circuit. TRC-170 crews must be able to demonstrate troposcatter mode of operation. SATCOM terminals capable of a hub configuration will be used in that configuration when possible.

3.4.2.3.5. Voice/Message Switching and Processing Systems. All subsystem checks have been accomplished IAW equipment/facility T.O.s, and the facility is ready to begin work to activate the first circuit.

3.4.2.3.6. DWAN, Deployable Wide Area Network. Equipment set-up, grounded and power applied. DWAN must provide at least one router for SIPRNET and one router for NIPRNET using one operational network encryption system (if tunneling, and/or using RIPRNET) and required encryption devices.

3.4.2.3.7. DLAN, Deployable Local Area Network. Equipment set-up, grounded and power applied. LAN must provide connections for required number of users to a local server. Additional LANs will be activated for required classification levels.

3.5. Systems. System facilities support the unit mission during contingency/wartime scenarios. Each deployed facility is discussed below.

3.5.1. Satellite Communications Facility. Use [Attachment 2](#) Employment, para [A2.5](#).

3.5.2. Wideband Communication Facility. Use [Attachment 2](#) Employment, para [A2.6](#).

3.5.3. Network Control Center (NCC). Use [Attachment 2](#) Employment, para [A2.7](#).

3.5.4. Telephone Switchboard. The items in [Attachment 2](#) Employment, para [A2.8](#). should be accomplished.

3.5.5. Message Center. The items in [Attachment 2](#) Employment, para [A2.9](#). should be accomplished.

3.5.6. Systems Control Facility (SCF). Testing of circuits/systems already activated will be accomplished without interfering with on going circuit activation. If tests cannot be performed, the supported forces commander must be notified of possible system/circuit degradation. The item in [Attachment 2](#) Employment, para [A2.10](#). should be accomplished.

3.5.7. Communications and Information (C&I) Maintenance Requirements. The item in [Attachment 2](#), Employment, para [A2.11](#). should be accomplished.

4. Mission Support.

4.1. Summary. This chapter establishes the subareas criteria required to determine a unit's ability to provide sustained support to its activities during wartime/contingency operations.

4.2. Subareas.

4.2.1. Vehicle Support.

4.2.2. Power Support.

4.2.3. Environmental Control Unit (ECU) Support.

4.3. Mission Support Area Readiness Assessment. Readiness in the Mission Support area will be judged by considering items in the subareas listed in para [4.2](#). above. [Attachment 2](#), Employment (Phase II) Checklist para [A2.12](#). outlines these items.

5. Assessment Checklists. The checklists provided in the attachments are used to assess the readiness of deployable communications units to meet their Designed Operational Capabilities Statement (DOC). The checklists also provide unit commanders tools with which to measure their unit's readiness. Results of these assessments provide the HQ PACAF/SC the data to track trends in unit capabilities.

5.1. Assessment of Communications Readiness Criteria (CRC). A deployable communications unit is rated as mission capable or not mission capable based on the unit's Exercise Evaluation Team's application of the attached checklists. A unit's EET should apply each checklist to their forces while they are exercising. The EET will mark a Yes, No or N/A in the box to indicate if the action was accomplished or not. Then the EET will count the number of total Yes/No's and the number of Yes's.

5.2. The unit's overall CRC rating will then be determined by dividing the number of Yes's by the number of Yes/No's times 100%. For example, if a total number of 33 items were rated, and 22 of these items were rated yes the CRC Rating would be computed as follows:

$$\frac{22 \text{ Yes}}{33 \text{ Yes / No Rated}} = .67 \times 100\%$$

$$= 67\% \text{ CRC Rating}$$

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Attachment 1**INITIAL RESPONSE (PHASE 1) CHECKLIST****A1.1. Command and Control.**

A1.1.1. Has the Commander reviewed and accomplished letters identifying appointed personnel? (PACAFI 33-150, Volume 13, Attach 3)

A1.1.2. Has the Commander or Chief of the Unit Deployment Control Center reviewed and accomplished letters for required support? (see samples in PACAFI 33-150 Volume 13, Attach 10)

A1.1.3. Has the unit reviewed the intelligence notices and deployment orders?

A1.1.4. Has the unit brought themselves to a deployable readiness posture as a result of the receipt of the warning, alert, and execution orders?

A1.1.5. Has the Telephone Directory (PACAFI 33-150, Volume 4) and Customer Information Package (PACAFI 33-150, Volume 8) been reviewed and updated as necessary?

A1.1.6. Has the Unit Deployment Control center developed a complete list of tasked personnel: Name, rank, AFSC, SSN, and forward information copies to the commander and all unit branches? [This list will be used for orders preparation and deployed Entry Authorization List (EAL), IAW PACAFI 33-150, Volume 13.]

A1.1.7. If the unit does not have the tasked equipment available to deploy when they receive the tasking order, did they submit shortfall/LIMFAC report? (AFI 10-403, para 3.3.2.1.)

A1.1.8. Has the Command element reviewed the Ability To Survive and Operate plans and implemented the security plans for applicable THREATCONS IAW AFPD 31-1, AFI 31-101V1? Has a security augmentation team been appointed if necessary?

A1.1.9. Are workcenters using applicable pre-deployment checklists IAW PACAFI 33-150, Vol 5,7, and 13?

A1.2. Deployment.

A1.2.1. Has the unit reviewed and met all personnel requirements, and does the unit have tasked personnel processed, ensuring they meet the personnel deployment requirements, assembled and ready at the assembly point to board the aircraft? (AFI 10-417 Chapter 8)

A1.2.2. Has vehicle operations checked to ensure transportation is available to get the personnel to the processing area and assembly areas in sufficient time to meet the processing time and assembly complete? (AFI 10-417 Chapter 8)

A1.2.3. Has the unit prepared, identified and made available the equipment to fill the logistics detail requirements of the UTC?

A1.2.4. Is all general, hazardous, sensitive, and classified cargo properly identified, packed, marked, and documented IAW MILSTAMP and international requirements?

A1.2.5. Have all increment identification markings been made as specified in higher headquarters and local guidance?

- A1.2.6. Have all letters for required support been reviewed and accomplished? (see samples in PACAFI 33-150, Volume 13, Attach 10)
- A1.2.7. Have the mobility bags been configured and marshaled to respond to the deployment tasking? (PACAF Instruction 23-204)
- A1.2.8. Are mobility bags serviceable and are quantities sufficient to support deployed personnel? If assets are not available, can supply demonstrate appropriate procedures to fill short falls? (PACAF Instruction 23-204)
- A1.2.9. Are accurate mobility bag authorizations and accountability at home station maintained at all times using the Mobility Automated Inventory and Tracking System (MAITS)? (PACAF Instruction 23-204)
- A1.2.10. Are mobility bags shipped for all personnel tasked to deploy, regardless of method of assembly, issue, storage, or shipment? (PACAF Instruction 23-204)
- A1.2.11. If deploying personnel are required to have "C-1 mini bags" (hand-carried) CWD Equipment, do they? (PACAF Instruction 23-204)
- A1.2.12. Has a MRSP administrative package been prepared, and has it deployed? {Minimum requirements: management reports (i.e., R10 [AF Forms 2009-1, Manual Supply accounting Record], R43 [Airborne MRSP Listing], R50 [Mission Support Kit Listing], R52 [Non-Airborne MRSP Listing], R66 [Automated Post-Post File]) and a 486 or higher computer.} (Refs AFMAN 23-110, Vol 2, Pt 2, Chapter 26, AFI 21-116, Ch 7.)
- A1.2.13. Is the MRSP configured to respond to the deployment tasking, and placed in a deployed status no earlier than 5 days CONUS, 10 days overseas? (Refs AFMAN 23-110, Vol 2, Pt 2, Chapter 26, AFI 21-116, Ch 7.)
- A1.2.14. Is MRSP details transferred to the Air Force Contingency Supply Support Squadron (AFC-SSS), if tasked to CENTCOM? (Refs AFMAN 23-110, Vol 2, Pt 2, Chapter 26, AFI 21-116, Ch 7.)
- A1.2.15. Are adequate supplies, equipment, software, and hardware requirements included in the supply administration support package (UTC JFBHD), if tasked? (Refs AFMAN 23-110, Vol 2, Pt 2, Chapter 26, AFI 21-116, Ch 7.)
- A1.2.16. Are equipment reviews and subsequent deployment/transfer actions completed prior to aircraft departure times published in the schedule of events? (Ref AFMAN 23-110, Chap 22, para 64)
- A1.2.17. Do mobility equipment in-use details have valid use code and UTCs assigned? (Ref AFMAN 23-110, Chap 22, para 64)
- A1.2.18. Are trained custodians appointed and briefed prior to deployment? (Ref AFMAN 23-110, Chap 22, para 64)
- A1.2.19. Have the owning organizations identified assets to be deployed? (Ref AFMAN 23-110, Chap 22, para 64)
- A1.2.20. Have the assets identified by owning organizations been placed in a deployed status and accounted for on a deployed Custodian Authorization/Custody Receipt Listing (CA/CRL) signed by the deploying custodians? (Ref AFMAN 23-110, Chap 22, para 64)
- A1.2.21. Has borrowed equipment been properly deployed? (Ref AFMAN 23-110, Chap 22, para 64)

A1.2.22. Has the unit completed its UTC and increment prioritization? (Refs AFI 10-403, para 2.6.3.1 or AFPAM 10-417, para 6.2.2.1)

A1.2.23. Has the unit arranged and followed-up on using support transportation, if applicable? (DoD 4500.9-R, Vol III, Ch 301)

A1.2.24. Has the unit taken action to load on-time and properly handle classified and sensitive cargo, including weapons and ammunition?

A1.2.25. Has the unit prepared the required deployment documentation? AFI 10-403, para 4.4 for the general requirement. DoD 4500.9-R, Three Vols. For hazardous: AFJMAN 24-204 (or 49 CFR for surface moves). For sensitive/classified, DoD 5200.1-R and AFI 31-401. For shipment via UMMIPS/MILSTAMP (MTMC), DoD 4500.32-R

A1.2.26. Are Convoy procedures in accordance with AFJMAN 24-306 Chap 24?

Attachment 2**EMPLOYMENT (PHASE II) CHECKLIST****A2.1. Command and Control.**

A2.1.1. Performance of an effective site survey (or acquisition of necessary data) for an adequate system design and site layout.

A2.1.2. Development of site layout diagram depicting equipment and antenna orientation, cantonment areas, cable layout, power systems, and grounding. Installation of site grounding system IAW PACAFI 33-103. [Grounding also addressed in AFOSH 91-150, AFM 32-1075, TO 31-1-75 and 24, 31-10-31Z-10-15 and AFIs 32-1063 and 32-5009.]

A2.1.3. Coordinate/direct site setup IAW site layout diagram.

A2.1.4. Establish Communications Focal Point (CFP) command and control facility. (AFFOR Component level is SYSCON, below AFFOR are CFP)

A2.1.5. Establish an internal command, control, and communications system for the communications element.

A2.1.6. Coordinate system and circuit activation.

A2.1.7. Effective control and use of available assets (personnel, equipment, and supplies).

A2.1.8. Demonstrate knowledge of capabilities and limiting factors.

A2.1.9. Proper and timely action taken to resolve problem areas. Commander and staff's awareness of problems.

A2.1.10. Rapid and effective response to new or changed customer requirements or higher headquarters' directives.

A2.1.11. Properly prioritize taskings and restoral actions. Direct the implementation of restoral plans.

A2.1.12. Distribute Communications Information Package IAW PACAFI 33-150, Volume 8.

A2.1.13. Identify host base support requirements needed by the communications element and coordinate them with host base and supporting agencies.

A2.1.14. Accuracy and usability of methods used to track status of systems, circuits, equipment, and personnel.

A2.1.15. Maintain a master station log to record information on significant events occurring within the area of assigned responsibilities.

A2.1.16. Effectiveness of engineering staff to include: Assessment of tasked equipment capabilities to support systems/circuits; Circuit layout records, cable cut sheets, and total system layout diagrams preparation; Preparation/review of radio system calculations to include; terrestrial wideband path calculations and profiles, HF antenna selection and orientation, and satellite azimuth/elevation angles; Management of Tactical Performance Assessment Program (TPAP).

A2.1.17. Ability to disseminate accurate information throughout the communications element promptly.

A2.1.18. Accuracy and timeliness of upchannel reports generated in response to existing directives or as required by the EET.

A2.1.19. Establish an effective deployed job control function IAW current communications-electronics maintenance management directives.

A2.1.20. Ability to operate from an alternate facility.

A2.2. Supply.

A2.2.1. Evaluate the unit's capability to provide material required to support unit activities and to effectively process priority supply requirements in a wartime environment.

A2.2.2. MRSP management. MRSP assets must be serviceable (i.e., shelf life, functional checked/calibrated, TCTO complied with), on hand (or shortages fully documented and on firm requisition), secure, strictly accounted for, and issued with complete documentation. Personnel must be knowledgeable in duties consistent with MRSP management.

A2.2.3. MICAP management. Must be able to process partial/not mission capable supply (P/NMCS) requirements, coordinate with maintenance personnel to ensure all possible sources of supply are exhausted prior to submitting MICAP requisition, and demonstrate ability to process lateral support requests.

A2.2.4. Due in from maintenance (DIFM) management. Repairable assets must be tracked through the repair cycle.

A2.3. Petroleum, Oils, and Lubricants (POL) Management.

A2.3.1. Adequate provisions must be defined for obtaining resupply from within deployed areas. Personnel must demonstrate ability to visually check fuel for contaminants.

A2.4. Activation.

A2.4.1. Were all circuits activated within 24 hours for PICPs and within 48 hours for the ACOMS/CBCS?

A2.4.2. Were all phones activated within 24 hours for PICPs and no later than 48 hours for the ACOMS/CBCS?

A2.4.3. For the TSC-107 v2 system: (Were the following capabilities established within 8 hrs) Two full duplex secure data circuits and secure voice. Operational HF/SSB, HF/ISB, and UHF/AM. Transmit at least 80% of output power over 90% of tuning range. Switchboard operational with 70% of lines and authorized phones available. Following equipment operational: 2 message terminals (including printers), 2 KG-84, 1 KY-57, 1 KY-99 or 1 KY-65, and 2 TDM.

A2.4.4. For the SB-3614 SB-3865: (Were the following capabilities established within 4 hrs) 2 operational switchboards with 42 lines available. 70% of authorized phones available.

A2.4.5. TTC-39A/TSQ-201: (Were the following capabilities established within 8 hrs) 420/105 lines available, 70% of authorized phones and RMC's available. Both processors (1CPU for TSQ-201), CSP, and DSVT operational.

A2.4.6. Message Center: (Were the following capabilities established within 8 hrs) All mission equipment must be operational. 1 KY-68 hotline phone, or equivalent, must be installed and operational.

A2.4.7. TSQ-111: (Were the following capabilities established within 8 hrs) Facilities, Control, Processor, Patch and Test, and Timing CNCE subsystems and the Automatic Digital Test (ADT) fully operational. All other equipment and components (including but not limited to COMSEC devices, loop modems, group modems, CVSD strings, 407L connectors, and dual coaxial connectors) operational in quantities required for the mission. No equipment outages not previously identified as LIMFAC.

A2.4.8. DLAN: (Time: TBD) Required security level LANs (e.g. Secret and Unclass) with local servers. Provide connections for all required users.

A2.4.9. DWAN: (Were the following capabilities established within 4 hrs) Required security levels of networks (e.g. Secret and Unclass), required routers, NESes (if tunneling), modems, and required encryption devices

A2.4.10. TRC-176 (Were the following capabilities established within 4 hrs) One operational radio with at least 8W transmit power on assigned frequency (116 - 149.975 MHz and 225 - 399.975 MHz). Secure voice capability available.

A2.4.11. TRC-170 (Were the following capabilities established within 8 hrs) Initial turn-on and normal operating procedures completed. Trunk encryption devices and digital voice orderwire operational. Lightning protection assembly installed. Quad diversity operational capability for TRC-170(V)2 and dual diversity operational capability for TRC-170(V)3. No equipment outages not previously identified as LIMFAC.

A2.4.12. TSC-100A/TSC-94A (Were the following capabilities established within 8 hrs) Equipment installed, satellite access and performance checks completed. No equipment outages not previously identified as LIMFAC.

A2.4.13. TSC-152 LMST (Were the following capabilities established within 4 hrs) Equipment installed, satellite access and performance checks completed. No equipment outages not previously identified as LIMFAC.

A2.4.14. TSC-129 (Were the following capabilities established within 1 hr) Secure voice, data file, and tactical facsimile capability and satellite access accomplished.

A2.4.15. PSC-5 (Were the following capabilities established within 1 hr) Satellite access accomplished and net entered.

A2.4.16. LMRs (Were the following capabilities established within 1hr) Set up base-station and repeaters, distribute radios to required amount of users.

A2.5. Satellite Communications.

A2.5.1. Ability to establish link with sufficient time allowed for activation of all circuits traversing terminal.

A2.5.2. Coordinate new circuit requirements with affected facilities. Reprogram TSSP in conjunction with changed mission requirements. Assist systems control/engineering in assigning new circuit requirements.

A2.5.3. Maintain master station logs on all significant events affecting the facility.

A2.6. Wideband Communications.

A2.6.1. Ability to establish link with sufficient time allowed for activation of all circuits traversing terminal.

A2.6.2. Coordinate new circuit requirements with affected facilities. Reprogram DGM in conjunction with changed mission requirements. Assist system control/engineering in assigning new circuit requirements.

A2.6.3. Install and program Remote Multiplexer Combiner (RMC).

A2.6.4. Maintain master station logs on all significant events affecting the facility.

A2.7. Network Control Center (NCC) TBD.

A2.7.1. Maintain master station logs on all significant events affecting the facility.

A2.8. Telephone Switchboard.

A2.8.1. Demonstrate a professional attitude with strong customer service orientation. Process calls accurately and quickly. Know the operational status of the switchboard.

A2.8.2. Demonstrate knowledge of and comply with procedures for testing emergency numbers, circuits, and switchboard equipment. Demonstrate a clear understanding of the communications network the switchboard functions in, i.e., intersite and intrasite connectivity, trunking capability, and telephone services available. Establish conference calls upon request. Conduct telephone operations IAW PACAFI 33-150, Vol 4 and local operating instructions.

A2.8.3. Build, update and load the telephone database. Maintain database backups. Demonstrate proper responses to alarms. Demonstrate knowledge of all facility functions.

A2.8.4. Distribute a telephone directory to all customers within Reference Hour + 24 hours. Distribute directory changes promptly.

A2.8.5. Adhere to MINIMIZE procedures IAW ACP 121 US Supplement-1.

A2.8.6. Maintain master station logs on all significant events affecting the facility.

A2.9. Message Center.

A2.9.1. Demonstrate a professional attitude with strong customer service orientation. Demonstrate proper handling procedures including review of message/message form/disk releaser's document for completeness and accuracy, use of message logs/forms, placement of appropriate annotations/markings/stamps on messages, use of routing guides, use of appropriate directives, use of channel sheets, message formatting/typing/proofreading, complete service message and follow-up actions. Request, maintain, and properly use authorization letters to promptly notify and distribute message traffic.

A2.9.2. Properly disseminate messages.

A2.9.3. Properly prepare outgoing messages IAW the rules of precedence and without undue delay. Handling times will be determined from time of file to time of transmission. (FOR MANUAL SYSTEMS)

A2.9.4. Demonstrate proficiency in equipment operation including self-test procedures, storage/edit/transmission and receipt of messages, crypto resynchronization, replacement of paper/ribbons. Demonstrate use of patch panels to establish alternate paths during circuit outages due to local equipment failure.

A2.9.5. Understand (and be prepared to demonstrate) local and other alternate routing procedures including prioritized list of alternate facilities for processing message traffic, courier, transportation and use of alternate facility.

A2.9.6. Adhere to MINIMIZE procedures IAW ACP 121 US SUPPLEMENT-1.

A2.9.7. Properly dispose of and destroy classified waste.

A2.9.8. Maintain master station logs on all significant events affecting the facility.

A2.9.9. Transmit classification of messages within the following time limits; Emergency Command messages: NLT 5 min, Flash messages: NLT 10 min, Immediate messages: NLT 30 minutes, Priority message: NLT 180 minutes, Routine: NLT 360 minutes.

A2.10. SCF.

A2.10.1. Controllers will aggressively pursue troubleshooting, activation, restoral, and overall management of communications circuits and systems.

A2.10.2. Personnel will demonstrate a clear ability to conduct acceptance testing for systems and subsystems IAW PACAFI 33-150, Vol 14, and applicable MAJCOM directives and equipment T.O.'s. As shown here: (a) Subsystems acceptance. All communications lines between technical control and all other facilities will be checked for proper levels, distortion, and continuity and the results of these checks will be recorded; (b) HF/ISB System acceptance: The HF Voice Frequency (VF) Channel S+N/N ratio will be measured and recorded for each channel using a -10 dBm0, 1004 Hz test tone; (c) Digital Wideband (AN/TRC-170) and Satellite System Link acceptance. Modem receive signal level and BIT error rate (BER) for satellite link, and RSL and BER for digital wideband links will be obtained and recorded (from the near end terminal). Minimum acceptable BER will be 10⁻⁵.

A2.10.3. Handle COMSEC material IAW current directives and local operating instructions. Demonstrate a clear understanding of COMSEC/cryptographic procedures, including proper implementation of emergency action plans and setting of keys. Load cryptographic equipment with the appropriate key, and perform required equipment checks. Zeroize unattended cryptographic equipment IAW current directives and local operating instructions.

A2.10.4. Controllers will have and interpret systems engineering and configuration data (bubble charts, receiver curves, predicted path performance data, etc.). Controllers will be proficient in test equipment operation and EC/SIR procedures.

A2.10.5. Personnel must demonstrate a good knowledge of connected facilities and their equipment's operating capabilities and limitations.

A2.10.6. Personnel must demonstrate clear contingency planning for reconstitution of communications.

A2.10.7. Refer to Checklist [A2.11.](#), Communications-Electronics (C-E) maintenance requirements. Add applicable points and items.

A2.10.8. If HF/ISB systems are operated from the SCF, performance and propagation data will be available and used. Frequency usage will be IAW authorized emissions and procedures. Call signs will be available and used, and authentication procedures demonstrated.

A2.10.9. A master station log will be established and maintained. All circuit/system outages and restoral actions will be accurately documented. The deployed communications focal point (CFP) will be informed of all system/circuit activations and/or problem areas.

A2.10.10. All pertinent directives for technical control must be available and current. All required forms, charts, diagrams, and reference material must be available and accurate.

A2.10.11. Personnel will demonstrate a clear ability to activate the system control facility through acceptance testing shown here: (a) All test equipment in the technical control facility will be checked for proper operation and the results recorded; (b) Installed communications equipment and spares (teletypes, keyer/converters, ringers, etc.) required to support known taskings will be checked for proper alignment and adjustment, and the test data recorded; (c) Defective equipment will be logged out and reported to Job Control for maintenance actions.

A2.11. C&I Maintenance.

A2.11.1. Overall equipment/system condition, including package completeness IAW T.O.s, LOG-DET, and other applicable directives.

A2.11.2. Restoral actions including: alternate routing of circuits, reconstitution plans, equipment repairs or other actions taken to exploit the full range of backup or redundant features available to minimize service disruption.

A2.11.3. Demonstrate a clear understanding of COMSEC/cryptographic procedures including handling and use of COMSEC material, equipment operations and implementation of emergency action plans (where applicable).

A2.11.4. Compliance with safety directives.

A2.11.5. Coordination with maintenance support and other agencies.

A2.11.6. Availability, use, and control of reference publications to include T.O.s.

A2.11.7. Demonstrate proper supply discipline, accountability, and requisition of parts.

A2.11.8. Availability, accountability, and condition of tools.

A2.11.9. Maintenance technicians are prepared to implement a PMI schedule for continuous operation.

A2.11.10. Maintenance actions are properly documented and reported.

A2.11.11. Element is prepared to continue and document training in the field.

A2.11.12. Test equipment availability, accountability, condition, calibration, and proficiency of use.

A2.11.13. Availability, understanding, and use of equipment historical records.

A2.11.14. Verify grounding IAW applicable directives. (PACAFI 33-103)

A2.12. Mission Support Area.

A2.12.1. Is vehicle parking and downloading at the site controlled?

A2.12.2. Are procedures established to ensure vehicles and keys are adequately controlled? (AFMAN 24-301)

A2.12.3. Vehicle Maintenance.

A2.12.3.1. Minimum essential repairs must be performed for vehicles on the priority maintenance list during all stages of employment. (Refs AFI 24-201, AFI 24-302)

A2.12.3.2. Has unit reviewed and accomplished letters for required support? (See samples in PACAF I 33-150, Volume 13, Attach 10)

A2.12.3.3. Has the unit deployed with all technical orders and required records (historical records, scheduled maintenance list, etc.)? Ref AFI 24-302, Para 2.7.7.

A2.12.3.4. Does the unit have sufficient tools and equipment to perform required maintenance? (Ref AFI 24-302, Para 1.11)

A2.12.3.5. Are the vehicle maintenance technicians knowledgeable of procedures for procuring parts?

A2.12.3.6. Have procedures been established for reporting vehicles out of commission and to track their status? (Ref AFI 24-302, Para 2.16)

A2.12.3.7. Do technicians respond to disabled vehicles in a timely manner?

A2.12.4. Power Production Support.

A2.12.4.1. The unit should take actions to provide serviceable assets, to provide continuous reliable electrical power to facilities while deployed, and to provide the maintenance response to generator malfunctions. (Ref AFI 32-1062)

A2.12.4.2. Do technicians demonstrate knowledge in generator operations in order to provide power to facilities, and also to activate backup generators when required? (AFI 32-1062, Para 3)

A2.12.4.3. Has the unit developed a site layout diagram depicting equipment and antenna orientation, cantonment areas, cable layout, power systems, and grounding? Installation of site grounding system IAW PACAFI 33-103.

A2.12.4.4. Did the unit bring the required technical orders and records to the deployed site (historical records, scheduled maintenance list, work orders, etc.)? (Ref AFI 32-1062, Para 4.1, Para 5)

A2.12.4.5. Did the workcenter bring sufficient tools and test equipment deployed to perform maintenance in the field? (Ref AFI 32-1062)

A2.12.4.6. Can the Power production maintenance technicians properly obtain parts from the MRSP?

A2.12.4.7. Are the power production maintenance technicians tracking status of generators and reporting generators out of commission?

A2.12.4.8. Are the power production maintenance technicians ensuring refueling is being accomplished to maintain continuous generator operation?

A2.12.4.9. Is the workcenter scheduling and performing Preventive Maintenance Inspections (PMIs) or requesting and receiving the required waivers?

A2.12.4.10. Is generator support continuously provided (i.e. technicians adhere to safety procedures and provide effective repairs) at the deployed location?

A2.12.5. Environmental Control Unit (ECU) Support.

A2.12.5.1. Does the unit take actions to provide serviceable assets, to provide continuous reliable ECU to facilities while deployed, and to provide a maintenance response to ECU malfunctions.

A2.12.5.2. Are ECU technicians demonstrating the proper operations of ECUs, providing air conditioning or heat to facilities, and reverting to backup ECUs when required?

A2.12.5.3. Are required technical orders and records available at the deployed site (historical records, scheduled maintenance list, work orders, etc.)?

A2.12.5.4. Are sufficient tools and test equipment deployed to perform maintenance in the field?

A2.12.5.5. Are Maintenance technicians knowledgeable of procedures for drawing parts from the Mobile Readiness Spares Package (MRSP)?

A2.12.5.6. Are procedures established for tracking maintenance actions and status of ECUs and reporting ECUs out of commission?

A2.12.5.7. Are Preventive maintenance inspections (PMIs) scheduled and performed or required waivers received?

A2.12.5.8. Do ECU maintenance personnel report discrepancies in a timely manner?

A2.12.5.9. Are procedures established to ensure ECU support is provided?

A2.12.5.10. Are safe and effective repairs continuously provided at the deployed location?