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Space, Missile, Command and Control

**GROUND COMMAND AND CONTROL
SYSTEMS STANDARDIZATION/EVALUATION
PROGRAM--MODULAR CONTROL SYSTEM
EVALUATION CRITERIA**

COMPLIANCE WITH THIS PUBLICATION IS MANDATORY

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This instruction implements policy guidance in Air Force Policy Directive (AFPD) 13-1, Theater Air Control System, 11 May 1995. Offices of Collateral Responsibility (OCRs) for this publication are Headquarters (HQ) Pacific Air Forces (PACAF)/DOY, HQ US Air Forces Europe (USAFE)/DOY, HQ Air Education and Training Command (AETC)/DOF, and HQ Air Combat Command (ACC)/DOL (Air National Guard [ANG]). This instruction gives Standardization/Evaluation Examiners (SEE) and crewmembers performance standards and procedures for conducting positional evaluations. The criteria apply to all Active and ANG, Combat Mission Ready (CMR) and Basic Mission Capable (BMC) operations crewmembers performing duties in the Modular Control Equipment (MCE) equipped units. Major Commands (MAJCOMs) are to forward proposed MAJCOM-level supplements to this volume to HQ USAF/XOOY, through HQ ACC/DOY, for approval prior to publication in accordance with (IAW) AFPD 13-1. Copies of MAJCOM-level supplements, after approved and published, will be provided by the issuing MAJCOM to HQ USAF/XOOY, HQ ACC/DOY, and the user MAJCOM and National Guard Bureau offices of primary responsibility. Field units below MAJCOM level will forward copies of their supplements to this publication to their parent MAJCOM office of primary responsibility for post publication review. Refer recommended changes to this instruction and conflicts between this and other publications through channels to HQ USAF/XOOY, 1500 Wilson Blvd, Suite 300, Arlington VA 22209, on Air Force (AF) Form 847, **Recommendation for Change of Publication**. Throughout this instruction, AFSC 13B refers to Air Battle Managers (ABMs) and AFSC 1C5X1D refers to Weapons Directors (WDs). Maintain and dispose of records created as a result of prescribed processes in accordance with AFMAN 37-139, *Records Disposition Schedule*.

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Chapter 1

INTRODUCTION

1.1. General. This positional performance evaluation criterion, in conjunction with AFI 13-1 Stan/Eval, Volume 2, provides both the examiner and examinee with procedures and evaluation criteria for use during the conduct of Initial Qualification Evaluations (IQEs), Recurring Qualification Evaluations (RQEs) and Spot Evaluations. Adherence to these procedures and criteria ensure an accurate and standardized assessment of the proficiency and capabilities of the examinee. Standardization/Evaluation Examiners (SEE) and examinees will be thoroughly familiar with the prescribed rating criteria in this document.

1.2. Recommended Changes. Recommendations for changes are encouraged, and must focus on specific areas and standards of performance. Forward comments through channels (HQ ACC/DOY, HQ PACAF/DOY, HQ USAFE/DOY, or HQ AETC/DOF) to HQ USAF/XOOY using AF Form 847, **Recommendation for Change of Publication**. HQ USAF/XO is the approval authority for interim changes to this AFI.

1.3. Waivers. HQ ACC/DOY (ACC units), HQ PACAF/DOY (PACAF units), and HQ USAFE/DOY (USAFE units) will serve as the MAJCOM OPR with waiver authority for all waiver requests to this instruction. File a copy of approved written waivers with this volume IAW AFI 33-360, Volume 1.

1.3.1. All waiver requests will be submitted via electronic means through channels to the appropriate MAJCOM OPR.

1.4. Evaluation Methods. The primary methods of determining the examinee's level of job knowledge and proficiency are academic testing and observation of job performance. The questioning of examinees during the positional portion of the evaluation should be limited to items not determined by observation, but related to the scenarios being employed for evaluation.

1.5. Evaluation Procedures . Evaluators (SEEs) will conduct evaluations in accordance with (IAW) this AFI.

1.5.1. Written Evaluation (WE). The WE is the Master Question File (MQF) written examination. The WE will be administered IAW AFI 13-1STAN/EVAL Vol. 2, Section 4C. For Initial Qualification Evaluations (IQEs), all written examinations must be completed prior to the positional evaluation.

1.5.2. Positional Evaluation. The SEE will provide the examinee a briefing explaining how the evaluation will be conducted. The SEE will evaluate the examinee's performance for each graded area and note discrepancies when deviations from prescribed performance criteria occur during the evaluation. The judgment of the SEE will be the determining factor in assigning the overall grade for the examinee's performance.

1.5.2.1. The SEE will **not** occupy a primary crew position during the evaluation.

1.5.3. The SEE will **not** stop the evaluation unless continuing the evaluation would result in an unsafe act.

1.5.4. During the live mission portion of the evaluation, the SEE will make every effort to evaluate the examinee's performance in all required areas. When live flying cannot be used to evaluate a

required area or task because of equipment malfunction, weather conditions, operational requirements, etc, use guidance in AFI 13-1STAN/EVAL, Volume 2, to determine if an alternate method (e.g., simulation or verbal evaluation) can be used to complete the evaluation. If an alternate evaluation method is used, the SEE will document the method under the Mission Description paragraph in the Remarks section of the AF Form 4143, Certification of Qualification, IAW AFI 13-1STAN/EVAL, Volume 2.

1.5.5. Simulation Profiles. The SEE will ensure all simulation profiles used in the evaluation will accomplish the following: reflect unit daily training missions and unit tasking, provide realistic assessment of examinee capabilities, and provide assessment of the application of current tactics, techniques, and procedures. Units will build simulation evaluation profile sorties and will include a scenario and other pertinent information that would normally be available in theater Air Tasking Order (ATO), Airspace Control Order (ACO), Operational Tasking Data Link (OPTASKLINK), intelligence data such as air and ground order of battle, political assessment, etc. The SEE will be responsible for selecting simulation equipment operators and managing the simulated scenarios. The SEE will not hold the evaluatee liable for simulator operator errors, non-simulated scenario errors, or aircrew errors committed during the live mission portion of the evaluation.

1.5.6. Post Evaluation. The SEE will compare the examinee's performance with the rating criteria and assign a grade for each area. When the examinee's performance is measured using a range of performance, the SEE will apply the rating criteria within the range limits. The SEE will debrief, with the examinee, the overall rating, specific deviations, grades assigned, and any additional training the examinee may be required to complete. The debriefing will be annotated in the Remarks section of AF Form 4143, Certification of Qualification. All evaluation results will also be debriefed with the examinee's squadron commander/operations officer (or a designated representative).

1.6. Rating Policy. SEEs will use the rating policy contained in AFI 13-1STAN/EVAL, Volume 2, and the evaluation criteria in this instruction for conducting evaluations. A three-level rating system is used for the overall grade. They are: Exceptionally Qualified (EQ), Qualified (Q), and Unqualified (UQ). A three-level rating system is also used for individual areas and is detailed in paragraph 1.7.

1.6.1. Exceptionally Qualified. This overall grade is given when more than satisfactory knowledge and positional skills are demonstrated in all phases of the evaluation. More than satisfactory knowledge and positional skills are demonstrated when the examinee performs required actions effectively and without undue hesitation, shows consistent performance throughout the evaluation, and is able to provide additional, error free information concerning causes, effects, purposes, or characteristics of the items reviewed during the evaluation. The examinee must have achieved a 96% or higher grade on the written examination.

1.6.2. Qualified. Performs duties in a safe and effective manner. All critical areas must be rated "Q". Non-critical areas may be rated "U" or have additional training recommended. Satisfactory knowledge and positional skills of the examinee are demonstrated when all the following are achieved:

1.6.2.1. Performance is safe. Occasionally commits errors and omissions that do not jeopardize mission accomplishment. Performance is essentially correct. Recognizes and corrects errors. Demonstrates satisfactory knowledge of instructions or directives that are essential to the tasked mission. Mission/scenario is conducted and/or area tasks are completed in a satisfactory manner.

1.6.3. Unqualified. Any of the following actions is noted (the SEE will specify):

1.6.3.1. Performance failure of a critical area. Fails a written re-examination for recurring or spot positional evaluations. Demonstrated performance prevents successful mission accomplishment. The mission/scenario or area tasks are performed in an unsafe manner. Violates critical instructions or directives that jeopardize safety. Demonstrates poor judgment to the extent that mission safety or success is compromised.

1.7. Required Evaluation Areas . Required Evaluation Areas (REAs) are defined as all areas (and associated sub-areas) identified in this document.

1.7.1. Evaluation tasks are shown in the appropriate evaluation area, along with the rating scale for each task. Each area/task has a three-level (Q/Q-/U) rating system. The overall area grade will reflect the majority of the ratings assessed for the examinee's achievement of tasked sub-areas.

1.7.1.1. Q. A "Q" is the desired level of performance. This grade is given when the examinee demonstrates a satisfactory knowledge of all required information and performs mission duties within the prescribed tolerances and accomplishes the assigned mission.

1.7.1.2. Q-. A "Q-" indicates the examinee is qualified to perform the assigned area tasks without supervision, but requires additional training unless, in the judgment of the SEE, it will not constructively improve the examinee's performance . Deviations from established standards must not exceed the prescribed "Q-" tolerances or jeopardize flight safety.

1.7.1.3. U. Assign a "U" area grade for any performance outside allowable parameters and for deviations from prescribed procedures/tolerances that adversely affect mission accomplishment or compromise flight safety. An examinee receiving an area grade of "U" requires additional training.

1.8. Critical Rating Areas. Critical rating areas have been established for examinee positional evaluations. Critical areas are defined as areas that contain critical tasks and are identified by "**(CRITICAL)**" following the applicable area title. Critical tasks require the examinee to follow mandatory procedures and directives; failure to successfully accomplish the task directly impacts either overall mission success or personnel/flight safety. Critical tasks can only be graded "Q" or "U". If an examinee's performance is graded "U" for any critical task, the area grade must be marked "U," and the overall grade for the evaluation must be "UQ".

1.9. Records Disposition. Records will be maintained and disposed of IAW AFM 37-139, *Records Disposition Schedule*.

1.10. This publication is affected by the Privacy Act of 1974. The evaluation and experience records required to be maintained are covered by Privacy Act Systems Number F036 AF PC C, Military Personnel Record System. The authority for maintenance of the system is 10 USC 8013.

Chapter 2

BATTLE COMMANDER QUALIFICATION EVALUATION

Section 2A—Instructions

2.1. General.

2.1.1. This chapter contains the criteria specifying the tasks required of a qualified Battle Commander (BC).

2.1.2. Certain areas contain performance tasks that require a degree of knowledge/proficiency that is mandatory for successful mission accomplishment and to ensure safety of flight. Consequently, an “Unqualified” score in any “Critical” area will result in an overall grade of “Unqualified.”

2.1.3. BC personnel will be evaluated during a locally generated exercise or System Training Exercise/Joint System Training Exercise (STE/JSTE) with a full operational crew. The evaluation will be conducted during an exercise or STE/JSTE involving at least one or more external Theater Air Control System (TACS) units. As a minimum, at least one live Tactical Digital Information Link (TADIL) J, A or B link will be used to conduct the evaluation. TACS units will simulate an Air Defense Artillery (ADA) interface. Tasks not evaluated during the exercise or STE/JSTE will be evaluated individually while the examinee is on console/position.

2.2. Evaluation Objective. The examinee must demonstrate the ability to accomplish all BC duties safely and effectively IAW technical orders and applicable operations directives.

Section 2B—Qualification Criteria

2.3. AREA 1-PRE-MISSION REQUIREMENTS.

2.3.1. **Q.** Established and maintained external communications for pre-mission coordination with the Aerospace Operations Center (AOC), subordinate and lateral agencies, ensuring accurate and timely pre-mission briefs, air situation data, planned theater actions, current equipment, and weapons status were provided.

2.3.2. **Q-** Established and maintained external communications for pre-mission coordination with the AOC, subordinate and lateral agencies, ensuring accurate and timely pre-mission briefs, air situation data, planned theater actions, current equipment, and weapons status were provided. Committed minor errors or omissions that did not jeopardize mission accomplishment.

2.3.3. **U.** Established and maintained external communications for pre-mission coordination with the AOC, subordinate and lateral agencies, ensuring accurate and timely pre-mission briefs, air situation data, planned theater actions, current equipment, and weapons status were provided. Committed errors or omissions that could have jeopardized mission accomplishment.

2.4. AREA 2-COMBAT CAPABILITY.

2.4.1. **Q.** Assessed and reported, through proper channels, the unit’s capabilities to accomplish the tasked mission using the Status of Resources and Training (SORTS) report IAW established directives. Determined Command Post (CP) personnel and communications requirements. Identified short-

falls and Limiting Factors (LIMFACs) for out-sourcing. Validated the allocation of available unit resources.

2.4.2. **Q-** Assessed and reported, through proper channels, the unit's capabilities to accomplish the tasked mission using the SORTS report IAW established directives. Determined CP personnel and communications requirements. Identified shortfalls and Limiting Factors (LIMFACs) for out-sourcing. Validated the allocation of available unit resources. Committed minor errors or omissions that did not adversely affect mission accomplishment.

2.4.3. **U.** Failed to correctly assess and report the unit's capabilities to accomplish the tasked mission using the SORTS report IAW established directives. Committed errors or omissions in determining the CP personnel and communications requirements. Identified, with errors, the shortfalls and Limiting Factors (LIMFACs) for out-sourcing. Failed to validate the allocation of available unit resources. Committed errors or omissions that could have adversely affected mission accomplishment.

2.5. AREA 3-BATTLE MANAGEMENT (CRITICAL).

2.5.1. **Q.** Directed the employment of resources to support execution of the Air Campaign Plan (ACP)/Air Tasking Order (ATO) during a live or System Training Exercise (STE) with a complete mission crew and at least one or more lateral and/or subordinate units. Established ground rules for initial allocation of resources (aircraft/Surface-to-Air Missiles [SAMs]/Air Defense Artillery [ADA]) to counter the threat. Determined resources to commit to counter the threat. Exercised Operational Control (OPCON) of weapons systems and airspace. Managed the unit's detection, tracking, and identification of air traffic within the Area of Operations (AOR). Ensured the unit executed its air tasking order (ATO) responsibilities. Assessed Rules Of Engagement (ROE) and Identification (ID) procedure changes based on changing Alert Conditions (LERTCONs). Directed unit actions throughout the critical transition from peacetime to wartime. Directed the declaration of targets as hostile based on hostile act/intent criteria and level of authority. Ensured tactics employed were commensurate with the current threat assessment and ROE. Ensured compliance with ACO procedures. Prepared and released the Air Defense Fighter status report, Operations Reports (OPREP), Situation Report (SITREP), and Emergency Action Messages (EAM) as required to the AOC. As changes occurred, submitted required timely updates to previously submitted reports.

2.5.2. **U.** Failed to direct the employment of resources to support execution of the Air Campaign Plan (ACP)/Air Tasking Order (ATO) during a live or System Training Exercise (STE) with a complete mission crew and at least one or more lateral and/or subordinate units. Failed to establish ground rules for initial allocation of resources (aircraft/Surface-to-Air Missiles [SAMs]/Air Defense Artillery [ADA]) to counter the threat. Did not determine resources to commit to counter the threat. Failed to exercise Operational Control (OPCON) of weapons systems and airspace. Failed to manage the unit's detection, tracking, and identification of air traffic within the Area of Operations (AOR). Failed to ensure the unit executed its ATO responsibilities. Failed to correctly assess Rules of Engagement (ROE) and Identification (ID) procedure changes based on changing LERTCONs. Failed to direct unit actions throughout the critical transition from peacetime to wartime. Failed to direct the declaration of targets as hostile based on hostile act/intent criteria and level of authority. Did not ensure tactics employed were commensurate with the current threat assessment and ROE. Failed to ensure compliance with ACO procedures. Did not correctly prepare and release the Air Defense Fighter status report, Operations Reports (OPREP), Situation Report (SITREP), and Emergency Action Messages (EAM) as required to the AOC. As changes occurred, failed to submit required timely updates to pre-

viously submitted reports. Committed errors or omissions that could have adversely impacted mission accomplishment.

2.6. AREA 4-POSITIONAL CHANGEOVER BRIEF.

2.6.1. **Q.** Prepared and conducted a positional changeover briefing with the on-coming BC IAW unit checklists and applicable directives. Reviewed factors, situations, and conditions having a bearing on operations prior to departing position, briefed the on-coming BC, and ensured items necessary for the effective conduct of tasked mission were understood by the on-coming BC.

2.6.2. **Q-.** Prepared and conducted a positional changeover briefing with the on-coming BC IAW unit checklists and applicable directives. Reviewed factors, situations, and conditions having a bearing on operations prior to departing position, briefed the on-coming BC, and ensured items necessary for the effective conduct of tasked mission were understood by the on-coming BC. Committed errors or omissions that did not adversely affect mission accomplishment.

2.6.3. **U.** Failed to prepare or conduct a positional changeover briefing with the on-coming BC. Failed to follow unit checklists and applicable directives concerning changeover briefings. Failed to review factors, situations, and conditions having a bearing on operations prior to departing position, did not brief the on-coming BC, and failed to ensure items necessary for the effective conduct of tasked mission were understood by the on-coming BC prior to departing position. Committed errors or omissions that could have jeopardized mission accomplishment.

2.7. AREA 5-POST-MISSION REQUIREMENTS.

2.7.1. **Q.** Established and maintained external communications for post-mission coordination with the Aerospace Operations Center (AOC), subordinate and lateral agencies. Post-mission briefings ensured accurate and timely mission results, problems encountered and lessons learned as well as current air situation data, planned theater actions, current equipment, and weapons status reports were shared among all agencies.

2.7.2. **Q-.** Established and maintained external communications for post-mission coordination with the AOC, subordinate and lateral agencies. Post-mission briefings ensured accurate and timely mission results, problems encountered and lessons learned as well as current air situation data, planned theater actions, current equipment, and weapons status reports were shared among all agencies. Committed minor errors or omissions that did not adversely affect mission accomplishment.

2.7.3. **U.** Established and maintained external communications for post-mission coordination with the AOC, subordinate and lateral agencies. Post-mission briefings ensured accurate and timely mission results, problems encountered and lessons learned as well as current air situation data, planned theater actions, current equipment, and weapons status reports were shared among all agencies. Committed errors or omissions that could have adversely affected mission accomplishment.

Chapter 3

MISSION CREW COMMANDER QUALIFICATION EVALUATION

Section 3A—Instructions

3.1. General.

3.1.1. This chapter contains the criteria specifying the tasks required of a qualified Mission Crew Commander (MCC).

3.1.2. Certain areas contain performance tasks that require a degree of knowledge/proficiency that is mandatory for successful mission accomplishment and to ensure safety of flight. Consequently, an “Unqualified” score in any “Critical” area will result in an overall grade of “Unqualified.”

3.1.3. MCC personnel will be evaluated during a locally generated exercise or STE/JSTE with a full operational crew. The evaluation will be conducted during an exercise or STE/JSTE involving at least one or more external TACS units. As a minimum, at least one live Tactical Digital Information Link (TADIL) J, A or B link will be used to conduct the evaluation. In addition, individuals must supervise a minimum of two control teams during a live mission. TACS units will simulate an ADA interface. Tasks not evaluated during the exercise or STE/JSTE will be evaluated individually while the examinee is on console.

3.2. Evaluation Objective. The examinee must demonstrate the ability to accomplish all MCC duties safely and effectively IAW technical orders and applicable operations directives.

Section 3B—Qualification Criteria

3.3. AREA 1-MISSION PLANNING.

3.3.1. **Q** . Directed mission crew planning efforts. Determined mission tasking, ROE, chain of command, and battle plans from mission planning documents. Obtained equipment status and determined impact on operational mission. Supervised weapons and surveillance mission planning efforts. Read and initialed all items in the Operations Information File (OIF) and/or read files.

3.3.2. **Q-** Directed mission crew planning efforts. Determined mission tasking, ROE, chain of command, and battle plans from mission planning documents. Obtained equipment status and determined impact on operational mission. Supervised weapons and surveillance mission planning efforts. Read and initialed all items in the OIF and/or read files. Committed errors or omissions that did not adversely affect mission accomplishment.

3.3.3. **U** . Failed to direct mission crew planning efforts. Failed to determine mission tasking, ROE, chain of command, and/or battle plans from mission tasking documents. Failed to obtain equipment status and/or determine impact of equipment status on operational mission. Failed to supervise weapons and/or surveillance mission planning efforts. Failed to read and/or initial all items in the OIF and/or read files. Committed errors or omissions that could have jeopardized mission accomplishment.

3.4. AREA 2-REFERENCE SYSTEMS.

3.4.1. **Q.** Determined coordinates on maps using different coordinate reference systems. Located a position by azimuth and range (AZRAN) from a given point on a map. Determined Latitude/Longitude (LAT/LONG) coordinates for a position on a map. Converted a LAT/LONG point into a Geographical Reference (GEOREF) coordinate.

3.4.2. **Q-.** Determined coordinates on maps using different coordinate reference systems. Located a position by AZRAN from a given point on a map. Determined LAT/LONG coordinates for a position on a map. Converted a LAT/LONG point into a GEOREF coordinate. Committed errors or omissions that did not adversely affect mission accomplishment.

3.4.3. **U.** Failed to determine coordinates on maps using different coordinate reference systems. Failed to locate a position by AZRAN from a given point on a map. Failed to determine the LAT/LONG coordinates for a position on a map. Failed to convert a LAT/LONG coordinate into a GEOREF coordinate. Committed errors or omissions that could have jeopardized mission accomplishment.

3.5. AREA 3-CREW BRIEFING.

3.5.1. **Q.** Conducted the crew briefing. Briefed overall mission crew objectives. Organized briefing in a logical sequence IAW applicable directives. Ensured mission crew was briefed on all required aspects of the mission.

3.5.2. **Q-.** Conducted the crew briefing. Briefed overall mission crew objectives. Organized briefing in a logical sequence IAW applicable directives. Ensured mission crew was briefed on all required aspects of the mission. Committed errors or omissions that did not adversely affect mission accomplishment.

3.5.3. **U.** Failed to conduct the crew briefing. Failed to brief overall mission crew objectives. Failed to organize the briefing into a logical sequence as required by applicable directives. Failed to ensure mission crew was briefed on all required aspects of the mission. Committed errors or omissions that could have jeopardized mission accomplishment.

3.6. AREA 4-SAFETY HAZARDS (CRITICAL).

3.6.1. **Q.** Located safety hazards and demonstrated proper use of safety equipment. Located electrical, fire and radiation safety hazards in the Operations Module (OM). Located and demonstrated the proper use of safety equipment and fire extinguishers. Located and explained the use of the OM MASTER OFF switch.

3.6.2. **U.** Failed to locate safety hazards and/or demonstrate proper use of safety equipment. Failed to locate electrical, fire and radiation safety hazards in the OM. Failed to locate and/or demonstrate proper use of safety equipment and/or fire extinguishers. Failed to locate and/or explain the use of the OM MASTER OFF switch. Committed errors or omissions that could have jeopardized safety and/or mission accomplishment.

3.7. AREA 5-COMMUNICATIONS SET UP.

3.7.1. **Q.** Set up communications for operations. Configured OM radios for communications. Ensured radios were powered. Ensured radio frequencies were assigned to meet mission requirements. Ensured cryptographic radio equipment was loaded and configured for mission. Configured the Voice Communications Access Unit (VCAU) for operations as required. Located and explained

VCAU controls and indicators. Set up and operated VCAU IAW checklists. Accessed VCAU communications as needed.

3.7.2. **Q-** Set up communications for operations. Configured OM radios for communications. Ensured radios were powered. Ensured radio frequencies were assigned to meet mission requirements. Ensured cryptographic radio equipment was loaded and configured for mission. Configured the VCAU for operations as required. Located and explained VCAU controls and indicators. Set up and operated VCAU IAW checklists. Accessed VCAU communications as needed. Committed errors or omissions that did not adversely affect mission accomplishment.

3.7.3. **U.** Failed to set up communications for operations. Failed to configure radios for communications. Failed to ensure radios were powered. Failed to ensure radio frequencies were assigned to meet mission requirements. Failed to ensure cryptographic radio equipment was loaded and configured for mission. Failed to configure the VCAU for operations as required. Failed to set up and operate VCAU IAW checklists. Failed to access VCAU communications as needed. Committed errors or omissions that could have jeopardized mission accomplishment.

3.8. AREA 6-OCU SET UP.

3.8.1. **Q.** Set up and operated the Operator Console Unit (OCU) IAW unit checklists. Located and explained OCU controls and indicators. Used switch actions to customize the OCU for optimal situational awareness.

3.8.2. **Q-** Set up and operated the OCU IAW unit checklists. Located and explained OCU controls and indicators. Used switch actions to customize the OCU for optimal situational awareness. Committed errors or omissions that did not adversely affect mission accomplishment.

3.8.3. **U.** Failed to set up and/or operate the OCU. Failed to follow OCU checklist. Failed to locate and/or explain OCU controls and indicators. Failed to use switch actions to customize OCU for optimal situational awareness. Committed errors or omissions that could have jeopardized mission accomplishment.

3.9. AREA 7-DATA BASE INPUTS.

3.9.1. **Q.** Directed data base loads and approved changes to data base information.

3.9.2. **Q-** Directed data base loads and approved changes to data base information. Committed errors or omissions that did not adversely affect mission accomplishment.

3.9.3. **U.** Failed to direct data base load. Failed to approve changes to data base information. Committed errors or omissions that could have jeopardized mission accomplishment.

3.10. AREA 8-EQUIPMENT CHECKOUT.

3.10.1. **Q.** Ensured operational checks were completed on all equipment before mission. Ensured equipment outages were reported to the Operations Coordinator (OC).

3.10.2. **Q-** Ensured operational checks were completed on all equipment before mission. Ensured equipment outages were reported to the OC. Committed errors or omissions that did not adversely affect mission accomplishment.

3.10.3. U. Failed to ensure operational checks were completed on all equipment before mission. Failed to ensure equipment outages were reported to the OC. Committed errors or omissions that could have jeopardized mission accomplishment.

3.11. AREA 9-MISSION CREW SUPERVISION (CRITICAL).

3.11.1. Q. Ensured that mission crew had sensors and communications necessary to accomplish mission objectives. Supervised weapons, surveillance, and data system functions to ensure accomplishment of mission objectives. Provided/updated threat information to the crew. Directed subordinate unit configuration changes as authorized. Supervised mission crew Electronic Protection (EP) efforts to counter Electronic Attack (EA).

3.11.2. U. Failed to ensure mission crew had sensors and/or communications necessary to accomplish mission objectives. Failed to supervise weapons, surveillance, and/or data system functions to ensure accomplishment of mission objectives. Failed to provide and/or update threat information to the crew. Failed to direct subordinate unit configuration changes as authorized. Failed to supervise mission crew EP efforts to counter EA. Committed errors or omissions that could have jeopardized mission accomplishment.

3.12. AREA 10-BATTLE MANAGEMENT (CRITICAL).

3.12.1. Q. Executed the assigned mission in a timely, efficient manner during a live or System Training Exercise (STE) with a complete mission crew. Disseminated air defense warnings to at least one or more lateral and/or subordinate units. Provided guidance to the mission crew on employment of resources, ROE/ID/ACO procedures, and marshaling. Monitored detection, tracking and ID of air traffic within the AOR. Assessed ROE and ID procedures based on changing alert conditions when transitioning from peace to war. Supervised the direction of targets as hostile based on hostile intent/hostile act criteria and level of authority. Ensured engagement tactics were commensurate with threat assessment and ROE. Ensured compliance with ACO procedures. Directed employment of resources to support execution of the ACP/ATO. Supervised allocation of resources to counter the threat and/or accomplish mission objectives. Ensured mission crew compliance with special instructions (SPINS) and other guidance.

3.12.2. U. Failed to execute the assigned mission in a timely or efficient manner during a live or System Training Exercise. Failed to disseminate air defense warnings to at least one lateral and/or subordinate unit. Failed to provide guidance to the mission crew on employment of resources, ROE/ID/ACO procedures and/or marshaling. Failed to monitor detection, tracking, and ID of air traffic within the AOR. Failed to properly assess ROE and/or ID procedures based on changing alert conditions when transitioning from peace to war. Failed to supervise the declaration of targets as hostile IAW hostile intent/hostile act criteria and level of authority. Failed to ensure engagement tactics were commensurate with threat assessment and ROE. Failed to ensure compliance with ACO procedures. Failed to direct employment of resources to support execution of the ACP/ATO. Failed to supervise allocation of resources to counter the threat and/or accomplish mission objectives. Failed to ensure mission crew compliance with SPINS and other guidance. Committed errors or omissions that could have jeopardized mission accomplishment.

3.13. AREA 11-AIR PICTURE MAINTENANCE.

3.13.1. **Q.** Ensured Control and Reporting Center (CRC) and subordinate units (if assigned) maintained accurate air situation data. Read and interpreted track symbols and modifiers. Read and interpreted information on a Hooked Data Read Out (HDRO). Hooked tracks on the OCU as required. Ensured air picture track symbology was within 2 nautical miles (NM) of radar data.

3.13.2. **Q-.** Ensured CRC and subordinate units (if assigned) maintained accurate air situation data. Read and interpreted track symbols and modifiers. Read and interpreted information on a HDRO. Hooked tracks on the OCU as required. Ensured air picture track symbology was within 2 NM of radar data. Committed errors or omissions that did not adversely affect mission accomplishment.

3.13.3. **U.** Failed to ensure CRC and/or subordinate units (if assigned) maintained accurate air situation data. Failed to read and/or interpret track symbols and modifiers. Failed to read and/or interpret information on a HDRO. Failed to hook tracks on the OCU as required. Failed to ensure air picture track symbology remained within 2 NM of radar data. Committed errors or omissions that could have jeopardized mission accomplishment.

3.14. AREA 12-INTERNAL/EXTERNAL COORDINATION (CRITICAL).

3.14.1. **Q.** Ensured coordination and information flow within operations. Coordinated equipment maintenance schedules with operations activities. Coordinated with other agencies engaged in air operations.

3.14.2. **U.** Failed to ensure coordination and information flow within operations. Failed to coordinate with other agencies engaged in air operations. Committed errors or omissions that could have jeopardized mission accomplishment.

3.15. AREA 13-EMERGENCY PROCEDURES (CRITICAL).

3.15.1. **Q.** Directed mission crew actions during an Anti-Radiation Missile (ARM) attack. Recognized ARM attack profile or warning. Coordinated ARM attack warning with CP. Monitored ARM decoy employment and EP actions used to counter ARM attack. Complied with ARM emergency checklist. Ensured timely mission crew assistance to aircraft experiencing emergency situations. Recognized existence of an aircraft emergency. Ensured compliance with aircraft emergency checklists. Monitored mission crew aircraft emergency responses.

3.15.2. **U.** Failed to direct mission crew actions during an ARM attack. Failed to recognize ARM attack profile or warning. Failed to coordinate ARM attack warning with CP. Failed to monitor ARM decoy and/or EP actions used to counter ARM attack. Failed to comply with ARM emergency checklist. Failed to ensure timely mission crew assistance to aircraft experiencing emergency situations. Failed to recognize the existence of an aircraft emergency. Failed to ensure compliance with aircraft emergency checklists. Failed to monitor mission crew aircraft emergency responses.

3.16. AREA 14-SAFETY OF FLIGHT (CRITICAL).

3.16.1. **Q.** Was aware of all safety factors required for safe aircraft operations and mission accomplishment. Monitored air operations for safety.

3.16.2. **U.** Was not aware of all safety factors required for safe air operations and/or mission accomplishment. Failed to monitor air operations for safety. Committed errors or omissions that could have jeopardized flight safety and/or mission accomplishment.

3.17. AREA 15-COMSEC/AUTHENTICATION (CRITICAL).

3.17.1. **Q.** Recognized and countered various types of communications jamming. Authenticated voice transmissions within time limits specified on authenticators.

3.17.2. **U.** Failed to recognize and/or counter various types of communications jamming. Failed to authenticate voice transmissions within time limits specified on authenticators. Committed errors or omissions that could have jeopardized mission accomplishment.

3.18. AREA 16-SECURITY OF CLASSIFIED MATERIALS (CRITICAL).

3.18.1. **Q.** Used and controlled classified materials IAW established security procedures.

3.18.2. **U.** Failed to use and/or control classified materials. Failed to follow established security procedures. Committed errors or omissions that could have jeopardized mission accomplishment.

3.19. AREA 17-WEATHER.

3.19.1. **Q.** Read and interpreted weather information displayed on the Auxiliary Display Unit (ADU).

3.19.2. **Q-.** Read and interpreted weather information displayed on the ADU. Committed errors or omissions that did not adversely affect mission accomplishment.

3.19.3. **U.** Failed to read and/or interpret weather information displayed on the ADU. Committed errors or omissions that could have jeopardized mission accomplishment.

3.20. AREA 18-POSITIONAL CHANGEOVER BRIEF.

3.20.1. **Q.** Briefed the relieving MCC on current operational situation before departing position. Conducted positional changeover briefing IAW checklist.

3.20.2. **Q-.** Briefed the relieving MCC on current operational situation before departing position. Conducted positional changeover briefing IAW checklist. Committed errors or omissions that did not adversely affect mission accomplishment.

3.20.3. **U.** Failed to brief the relieving MCC on current operational situation before departing position. Failed to conduct positional changeover briefing. Failed to follow positional changeover briefing checklist. Committed errors or omissions that could have jeopardized mission accomplishment.

3.21. AREA 19-CREW DEBRIEFING.

3.21.1. **Q.** Conducted the crew debriefing. Reconstructed operational mission events. Determined mission crew accomplishments relative to briefed mission objectives. Summarized lessons learned.

3.21.2. **Q-.** Conducted the crew debriefing. Reconstructed operational mission events. Determined mission crew accomplishments relative to briefed mission objectives. Summarized lessons learned. Committed errors or omissions that did not adversely affect mission accomplishment.

3.21.3. **U.** Failed to conduct the crew debriefing. Failed to reconstruct operational mission events. Failed to determine mission crew accomplishments relative to briefed mission objectives. Failed to summarize lessons learned. Committed errors or omissions that could have jeopardized mission accomplishment.

3.22. AREA 20-DOCUMENTATION.

3.22.1. **Q** . Submitted AF Form 4145, Daily Activity Log, at the end of the shift. Ensured documentation of lessons learned.

3.22.2. **Q-**. Submitted AF Form 4145, Daily Activity Log, at the end of the shift. Ensured documentation of lessons learned. Committed errors or omissions that did not adversely affect mission accomplishment.

3.22.3. **U**. Failed to submit AF Form 4145. Failed to ensure documentation of lessons learned. Committed errors or omissions that could have jeopardized mission accomplishment.

Chapter 4

SENIOR DIRECTOR QUALIFICATION EVALUATION

Section 4A—Instructions

4.1. General.

4.1.1. This chapter contains the criteria specifying the tasks required of a qualified Senior Director (SD).

4.1.2. Certain areas contain performance tasks that require a degree of knowledge/proficiency that is mandatory for successful mission accomplishment and to ensure safety of flight. Consequently, an “Unqualified” score in any “Critical” area will result in an overall grade of “Unqualified.”

4.1.3. SD personnel will be evaluated during a locally generated exercise or STE/JSTE with a full operational crew. The evaluation will be conducted during an exercise or STE/JSTE involving at least one or more external TACS units. As a minimum, at least one live Tactical Digital Information Link (TADIL) J, A or B link will be used to conduct the evaluation. In addition, individuals must supervise a minimum of two control teams during a live mission. TACS units will simulate an ADA interface. Tasks not evaluated during the exercise or STE/JSTE will be evaluated individually while the examinee is on console. SD personnel will maintain a current weapons qualifications and be evaluated IAW the tasks below:

4.1.3.1. SD examinees will be evaluated on air-to-air (Air Combat Training/Dissimilar Air Combat Training [ACT/DACT]), air refueling, and air-to-surface missions. SEEs will make the determination as to whether briefed/conducted control activities meet/fulfill live control requirements. The live mission does not have to conform to a specific profile if the unit is unable to schedule aircraft to conduct such a mission. At least one air-to-air mission must be evaluated in the live environment. Whenever possible, at least one air refueling mission should be evaluated in the live environment. If unable to accomplish the air refueling mission evaluation with a live sortie, the evaluation can be accomplished in a simulated mission environment. If simulation is used, the SEE will document in the Mission Description paragraph in the Remarks section of the AF Form 4143 that the evaluation was conducted via simulation IAW AFI 13-1 Stan/Eval, Volume 2. Other missions, not evaluated in the live environment, may be evaluated using simulation (if necessary, all events may be accomplished using the same set of assets.)

4.1.3.2. Air-to-air Air Combat Training (ACT) missions will be conducted where weapons examinees provide tactical or broadcast control, as briefed by the aircrew. The control will be provided to at least two separate fighters/elements simultaneously committed against targets cleared for evasive maneuvering. The SEE will ensure the weapons examinee participates in all phases of the mission.

NOTE: It is not a requirement for this mission to result in a maneuvering dogfight.

4.1.3.3. Air refueling evaluations require control to be provided to at least two separate receivers/elements simultaneously (talking to and providing vectors to both receivers/elements at the same time) rendezvousing on one or more tankers. The weapons examinee must demonstrate both point parallel and receiver turn-on rendezvous tactics using close control procedures.

4.1.3.4. SEEs will evaluate the preplanning and conduct of four simultaneous events/flights (Close Air Support [CAS]) in a tactical air-to-surface mission. Units without a simulation capability will use an available live mission to simulate conduct of a CAS mission against a designated ground target with a simulated forward air control aircraft. In all cases, full target briefings and threat information will be provided.

4.2. Evaluation Objective. The examinee must demonstrate the ability to accomplish all SD duties to include weapons, safely and effectively IAW technical orders, Air Traffic Control (ATC) regulations and applicable operations directives.

Section 4B—Qualification Criteria

4.3. AREA 1-MISSION PLANNING.

4.3.1. **Q.** Led weapons team mission planning efforts. Checked all factors applicable to the mission (e.g., letter of agreement (LOAs), SPINS, ROE, ATO, lessons learned, WD training requirements, CRC employment capabilities and aeronautical charts). Assigned mission planning tasks to WDs.

4.3.2. **Q-.** Led weapons team mission planning efforts. Checked all factors applicable to the mission (e.g., letter of agreement (LOAs), SPINS, ROE, ATO, lessons learned, WD training requirements, CRC employment capabilities and aeronautical charts). Assigned mission planning tasks to WDs. Committed errors or omissions that did not adversely affect mission accomplishment.

4.3.3. **U.** Failed to lead weapons team mission planning efforts. Failed to check all factors applicable to the mission. Failed to assign mission planning tasks to WDs. Committed errors or omissions that could have jeopardized mission accomplishment.

4.4. AREA 2-REFERENCE SYSTEMS.

4.4.1. **Q.** Determined coordinates on maps using different coordinate reference systems. Located a position by AZRAN from a given point on a map. Determined the LAT/LONG coordinates of a point on a map. Converted a LAT/LONG coordinate into a GEOREF coordinate.

4.4.2. **Q-.** Determined coordinates on maps using different coordinate reference systems. Located a position by AZRAN from a given point on a map. Determined the LAT/LONG coordinates of a point on a map. Converted a LAT/LONG coordinate into a GEOREF coordinate. Committed minor errors or omissions that did not adversely affect mission accomplishment.

4.4.3. **U.** Failed to determine coordinates on maps using different coordinate reference systems. Failed to location a position by AZRAN from a given point on a map. Failed to determine the LAT/LONG coordinates of a point on a map. Failed to convert a LAT/LONG coordinate into a GEOREF coordinate. Committed errors or omissions that could have jeopardized mission accomplishment.

4.5. AREA 3-BRIEFINGS.

4.5.1. **Q.** Conducted the weapons portion of the crew briefing. Conducted briefing in an organized and logical sequence IAW applicable directives. Provided all required information. Ensured the weapons team was briefed on all aspects of the weapons mission. Participated in and extracted pertinent information from a briefing with the aircrew IAW AFI 11-214, Attachment 3, Section A3A.

4.5.2. **Q-** Conducted the weapons portion of the crew briefing. Conducted briefing in an organized and logical sequence IAW applicable directives. Provided all required information. Ensured the weapons team was briefed on all aspects of the weapons mission. Participated in and extracted pertinent information from a briefing with the aircrew IAW AFI 11-214, Attachment 3, Section A3A. Committed errors or omissions that did not adversely affect mission accomplishment.

4.5.3. **U.** Failed to conduct the weapons portion of the crew briefing. Failed to provide required information. Failed to ensure the weapons team was briefed on all aspects of the weapons mission. Failed to participate in and/or extract pertinent information from a briefing with the aircrew as required by AFI 11-214 Attachment 3, Section A3A. Committed errors or omissions that could have jeopardized mission accomplishment

4.6. AREA 4-DOCUMENTATION.

4.6.1. **Q.** Completed AF Form 4146, **Aircraft Missions**, IAW AFI 13-1 MCS, Volume 3. Read and initialed for all items in the OIF and read files.

4.6.2. **Q-** Completed AF Form 4146 IAW AFI 13-1 MCS, Volume 3. Read and initialed all items in the OIF and read files. Committed errors or omissions that did not affect mission accomplishment.

4.6.3. **U.** Failed to complete AF Form 4146 as required by AFI 13-1 MCS, Volume 3. Failed to read and/or initial all items in the OIF and/or read files. Committed errors or omissions that could have jeopardized mission accomplishment.

4.7. AREA 5-SAFETY HAZARDS. (CRITICAL).

4.7.1. **Q.** Located safety hazards and demonstrated proper use of safety equipment. Located electrical, fire, and radiation safety hazards in the OM. Located and demonstrated the proper use of safety equipment and fire extinguishers. Located and explained the use of the OM MASTER OFF switch.

4.7.2. **U.** Failed to locate safety hazards and demonstrated proper use of safety equipment. Failed to locate electrical, fire, and radiation safety hazards in the OM. Failed to locate and/or demonstrate proper use of safety board equipment and fire extinguishers. Failed to locate and explain the use of the OM Master OFF switch. Committed errors or omissions that could have resulted in an unsafe act and/or jeopardized mission accomplishment.

4.8. AREA 6-COMMUNICATIONS.

4.8.1. **Q.** Configured OM communications equipment for operations. Ensured radios were powered. Assigned radio frequencies to meet mission requirements. Ensured cryptographic radio equipment was loaded and configured as required for the mission. Configured the VCAU for operations as required. Located and explained VCAU controls and indicators. Set up and operated the VCAU IAW unit checklists. Accessed VCAU communications as needed.

4.8.2. **Q-** Configured OM communications equipment for operations. Ensured radios were powered. Assigned radio frequencies to meet mission requirements. Ensured cryptographic radio equipment was loaded and configured as required for the mission. Configured the VCAU for operations as required. Located and explained VCAU controls and indicators. Set up and operated the VCAU IAW unit checklists. Accessed VCAU communications as needed. Committed errors or omissions that did not adversely affect mission accomplishment.

4.8.3. **U.** Failed to configure OM communications for operations. Failed to ensure radios were powered. Failed to assign frequencies to meet mission requirements. Failed to ensure cryptographic radio equipment was loaded and configured as required for the mission. Failed to configure the VCAU for operations as required. Failed to locate or explain VCAU controls and indicators. Failed to follow unit checklist when setting up VCAU. Failed to access VCAU communications as needed. Committed errors or omissions that could have jeopardized mission accomplishment.

4.9. AREA 7-OCU SET UP.

4.9.1. **Q.** Set up and operated the OCU IAW unit checklists. Located and explained OCU controls and indicators. Used switch actions to customize the OCU presentation for optimal situational awareness.

4.9.2. **Q-.** Set up and operated the OCU IAW unit checklists. Located and explained OCU controls and indicators. Used switch actions to customize the OCU presentation for optimal situational awareness. Committed errors or omissions that did not adversely affect mission accomplishment.

4.9.3. **U.** Failed to follow checklist when setting up the OCU. Failed to locate and/or explain OCU controls and indicators. Failed to use switch actions to customize the OCU presentation for optimal situational awareness. Committed errors or omissions that could have jeopardized mission accomplishment.

4.10. AREA 8-DATA BASE INPUTS.

4.10.1. **Q.** Provided weapons-related data base adaptations to the Data Systems Technician (DST). Coordinated changes to weapons-related data base information as required.

4.10.2. **Q-.** Provided weapons-related data base adaptations to the DST. Coordinated changes to weapons-related data base information as required. Committed errors or omissions that did not jeopardize mission accomplishment.

4.10.3. **U.** Failed to provide weapons-related data base adaptations to the DST. Failed to coordinate changes to weapons-related data base information as required. Committed errors or omissions that could have jeopardized mission accomplishment.

4.11. AREA 9-AIR-TO-AIR MISSIONS (CRITICAL).

4.11.1. **Q.** Directed air-to-air missions as required. Conducted 2vX Offensive Counter-Air (OCA) air-to-air missions (Air Combat Tactics/Dissimilar Air Combat Tactics [ACT/DACT]). Provided control for combat air patrol (CAP), sweep or force protection that effectively defended assets and/or accomplished the mission. Provided threat warnings to all factor groups. Committed aircraft to a tactical objective IAW mission objectives. Provided amplifying information on specific groups, including formations and maneuvers. Provided quality control (QC) of group targeting and follow-on targeting. Provided vectoring assistance as required for rejoins and egress. Provided bearing and range information accurate to within 5 degrees and 2 NM. Maintained Situational Awareness (SA) on mission aircraft and the tactical situation.

4.11.2. **U.** Failed to direct air-to-air missions as required. Failed to provide control for CAP, sweep, or force protection that effectively defended assets and/or accomplished the mission. Failed to provide threat warning to all factor groups. Failed to commit aircraft to a tactical objective as required by mission directives. Failed to provide amplifying information on specific groups, including formations or maneuvers. Failed to provide QC of group targeting and follow-on targeting. Did not provide vector-

ing assistance as required for rejoins and egress. Failed to provide bearing and range information accurate to within 5 degrees and 2 NM. Failed to maintain Situational Awareness (S/A) on mission aircraft and/or the tactical situation. Committed errors or omissions that could have jeopardized mission accomplishment.

4.12. AREA 10-AIR-TO-SURFACE MISSIONS (CRITICAL).

4.12.1. **Q.** Directed air-to-surface missions consistent with the continuum of control. Informed mission commander of aircraft strike package status. Assisted in marshalling forces as required. Assisted with safe passage and minimum risk procedures. Assisted with recovery of mission aircraft. Provided threat warning and updates to all factor groups. As required/requested, provided vectoring assistance to within 3 NM of specified initial point (IP), route, target point or forward air controller (FAC) as required. Maintained situational awareness.

4.12.2. **U.** Failed to direct air-to-surface missions as required consistent with the continuum of control. Failed to inform mission commander of strike package status. Failed to assist in marshaling forces as required. Failed to assist with safe passage or minimum risk procedures. Failed to assist with the recovery of mission aircraft. Failed to provide threat warning and update to all factor groups. Failed to position aircraft within 3 NM of a specified IP, route, target point or FAC as required/requested. Failed to maintain situational awareness. Committed errors or omissions that could have jeopardized mission accomplishment.

4.13. AREA 11-AERIAL REFUELING MISSIONS (CRITICAL).

4.13.1. **Q.** Directed air refueling missions consistent with the continuum of control. Checked in tankers and receivers IAW checklists. Ensured altimeter settings were passed to all players. Ensured receivers were weapons safe before rendezvous. Managed aerial refueling assets. Prioritized refueling activity and placed receivers in a position to accomplish mission objectives. Conducted close control rendezvous operations. Established geometry within one minute of pairing. Conducted point parallel and receiver turn on rendezvous. During point parallel rendezvous, positioned tanker within a 60 degrees cone (+/- 30 degrees of the receiver) and 1-3 NM ahead of the receiver, measured at roll out. During receiver turn-on rendezvous, positioned receivers within 30 degrees of either side of the center line/tanker tail and 1-3 NM behind the tanker, measured at roll out. Obtained and disseminated post-refueling offload information as required. Maintained situational awareness.

4.13.2. **U.** Failed to direct air refueling missions consistent with the continuum of control. Failed to check tankers and receivers in as required by checklists. Failed to pass altimeter settings to participants or ensure receivers were weapons safe before rendezvous. Failed to manage aerial refueling assets. Failed to prioritize refueling activity. Failed to place receivers in a position to accomplish mission objectives. Failed to conduct point parallel and/or receiver turn on rendezvous. Failed to position the tanker within 60 degrees cone (+/- 30 degrees of the receiver) and 1-3 NM ahead of the receiver, measured at roll out, during a point parallel rendezvous. Failed to position receiver within 30 degrees of either side of the centerline/tanker tail and 1-3 NM behind the tanker, measured at roll out, during a receiver turn on rendezvous. Failed to maintain situational awareness. Committed errors or omissions that could have jeopardized mission accomplishment.

4.14. AREA 12-ASSUMPTION OF CONTROL (CRITICAL).

4.14.1. **Q.** Located mission aircraft using reported position, identification friend or foe/selective identification feature (IFF/SIF), pilot maneuvering and/or external sources in a timely manner. Voiced “radar contact” or “negative radar contact” as appropriate. Provided aircrew with a working frequency and/or net and time of day (TOD) (if applicable). Provided aircrew a brief situation update. Conducted IFF/SIF checks and advised aircrew of status. Conducted radar handoffs IAW procedures.

4.14.2. **U.** Failed to locate aircraft using reported position, IFF/SIF, pilot maneuvering and/or external sources in a timely manner. Failed to voice “radar contact” or “negative radar contact” as appropriate. Failed to provide aircrew with a working frequency and/or net and TOD (if applicable). Did not provide aircrew a brief situation update. Failed to conduct IFF/SIF checks and advise aircrew of status. Failed to comply with procedures for conducting radar handoffs. Committed errors or omissions that could have jeopardized mission accomplishment.

4.15. AREA 13-AIRSPACE MANAGEMENT (CRITICAL).

4.15.1. **Q.** Complied with airspace management requirements and restrictions IAW procedures. Initiated airspace requests. Verified airspace restrictions and limitations IAW applicable directives. Ensured all efforts were made to keep controlled aircraft inside the lateral and vertical confines of the airspace in a timely manner.

4.15.2. **U.** Failed to comply with airspace management requirements and restrictions IAW procedures. Failed to initiate airspace requests. Did not verify airspace restrictions and limitations IAW applicable directives. Failed to ensure all efforts were made to keep controlled aircraft inside the lateral and vertical confines of the airspace in a timely manner. Committed errors or omissions that could have jeopardized mission accomplishment.

4.16. AREA 14-Radio/Telephone (R/T) PROCEDURES.

4.16.1. **Q.** Communicated with aircrews using proper R/T and brevity code procedures IAW AFTTP 3-1, applicable joint and combined communications procedures, and established standards.

4.16.2. **Q-.** Communicated with aircrews using proper R/T and brevity code word procedures IAW AFTTP 3-1, applicable joint and combined communications procedures, and established standards. Committed errors or omissions that did not adversely affect mission accomplishment.

4.16.3. **U.** Failed to communicate with aircrews using proper R/T and or brevity code procedures. Failed to comply with AFTTP 3-1, applicable joint and combined communications procedures, and established standards. Committed errors or omissions that could have jeopardized mission accomplishment.

4.17. AREA 15-CONTINUUM OF CONTROL (CRITICAL).

4.17.1. **Q.** Used the continuum of control to accomplish missions consistent with briefed objectives, AFI 11-214, AFTTP 3-1, aircraft capabilities, ROE, threat, enemy order of battle, and/or battlestaff direction.

4.17.2. **U.** Failed to use the continuum of control to accomplish missions consistent with briefed objectives IAW AFI 11-214, AFTTP 3-1, aircraft capabilities, ROE, threat, enemy order of battle, and/or battlestaff direction. Committed errors or omissions that could have jeopardized mission accomplishment.

4.18. AREA 16-WEAPONS SWITCH ACTIONS.

- 4.18.1. **Q.** Used switch actions to perform airspace and weapons control-related system functions.
- 4.18.2. **Q-.** Used switch actions to perform airspace and weapons control-related system functions. Committed errors or omissions that did not adversely affect mission accomplishment.
- 4.18.3. **U.** Failed to use switch actions to perform airspace or weapons control-related system functions. Committed errors or omissions that could have jeopardized mission accomplishment.

4.19. AREA 17-SAFETY OF FLIGHT (CRITICAL).

- 4.19.1. **Q.** Ensured safety of flight for mission aircraft without error. Ensured appropriate weapons safety checks were accomplished as required. Ensured safe vertical and horizontal separation of mission aircraft. Ensured 10 mile calls were provided as required. Was aware of safety factors and complied with all rules for the safe control of aircraft. Monitored WDs and coordinated to prevent unsafe acts by controlled aircraft.
- 4.19.2. **U.** Failed to ensure safety of flight for mission aircraft. Failed to ensure appropriate weapons safety checks were accomplished as required. Failed to ensure safe vertical and horizontal separation of mission aircraft. Failed to ensure 10 mile calls were provided as required. Was not aware of safety factors. Did not comply with rules for the safe control of aircraft. Failed to monitor WDs and coordinate to prevent unsafe acts by controlled aircraft. Committed errors or omissions that jeopardized flight safety and/or mission accomplishment.

4.20. AREA 18-AIR PICTURE MAINTENANCE.

- 4.20.1. **Q.** Displayed and maintained an air picture. Read and interpreted track symbols and modifiers. Read and interpreted information on a Hooked Data Read Out (HDRO). Hooked tracks on the OCU as required. Initiated a system air track. Changed a system track into a weapons track. Maintained weapons symbology within 2 NM of radar data.
- 4.20.2. **Q-.** Displayed and maintained an air picture. Read and interpreted track symbols and modifiers. Read and interpreted information on a HDRO. Hooked tracks on the OCU as required. Initiated a system air track. Changed a system track into a weapons track. Maintained weapons symbology within 2 NM of radar data. Committed errors or omissions that did not adversely affect mission accomplishment.
- 4.20.3. **U.** Failed to display and maintain an air picture. Failed to read and interpret track symbols and modifiers. Failed to read and interpret information on a HDRO. Failed to Hook tracks on the OCU as required. Failed to initiate a system air track. Failed to change a system track into a weapons track. Failed to maintain weapons symbology within 2 NM of radar data. Committed errors or omissions that could have jeopardized mission accomplishment.

4.21. AREA 19-WEAPONS CONTROL SUPERVISION (CRITICAL).

- 4.21.1. **Q.** Supervised WDs conducting weapons control missions. Supervised employment of weapons resources. Ensured that the weapons team had appropriate radios, sensors, airspace, etc, to control. Ensured weapons team controlled assigned missions to the level requested and/or followed the continuum of control. Ensured WDs passed threat/situation information to controlled aircraft in a timely

manner. Ensured all WDs were aware of existing and forecasted weather conditions. Supervised employment of weapons resources. Coordinated CAP and hand-over/recovery points.

4.21.2. **U.** Failed to supervise WDs conducting weapons control missions. Failed to supervise the employment of weapons resources. Failed to ensure weapons team had appropriate radios, sensors, airspace, etc. to control. Failed to ensure weapons teams controlled assigned missions to the level requested. Failed to ensure that WDs followed the continuum of control. Failed to ensure WDs passed threat/situation information to controlled aircraft in a timely manner. Failed to supervise the employment of weapons resources. Failed to coordinate CAP and/or hand-over/recovery points.

4.22. AREA 20-BATTLE MANAGEMENT (CRITICAL).

4.22.1. **Q.** Committed air defense weapons systems to counter the threat IAW theater ROE during a live or STE/JSTE manned with a complete mission crew and at least one or more lateral and/or subordinate units. Scrambled interceptors and coordinated airborne orders as required. Directed the weapons team during transition to degraded operations levels during changing alert conditions. Provided and updated threat information to the mission crew. Recommended threat mode changes to the MCC as necessary.

4.22.2. **U.** Failed to commit air defense weapons systems to counter the threat IAW theater ROE during a live or STE/JSTE manned with a complete mission crew and at least one or more lateral and/or subordinate units. Failed to comply with theater ROE. Failed to scramble interceptors and/or coordinate airborne orders as required. Failed to direct the weapons team during transition to degraded operations levels during changing alert conditions. Failed to provide and/or update threat information to the mission crew. Failed to recommend threat mode changes to the MCC as necessary.

4.23. AREA 21-INTERNAL/EXTERNAL COORDINATION.

4.23.1. **Q.** Coordinated with the MCC for system and sensor changes. Coordinated SAM/ADA weapons status with the AOC.

4.23.2. **Q-** Coordinated with the MCC for system and sensor changes. Coordinated SAM/ADA weapons status with the AOC. Committed errors or omissions that did not adversely affect mission accomplishment.

4.23.3. **U.** Failed to coordinate with the MCC for system and/or sensor changes. Failed to coordinate SAM/ADA status with the AOC. Committed errors or omissions that could have jeopardized mission accomplishment.

4.24. AREA 22-COMMUNICATIONS SECURITY (COMSEC)/AUTHENTICATION (CRITICAL).

4.24.1. **Q.** Recognized and countered the various types of communications jamming. Authenticated voice transmissions within time limits specified on authenticators.

4.24.2. **U.** Failed to recognize and/or counter various types of communications jamming. Failed to authenticate voice transmissions within time limits specified on authenticators. Committed errors or omissions that could have jeopardized mission accomplishment.

4.25. AREA 23-AIRCRAFT EMERGENCIES. (CRITICAL)

4.25.1. **Q.** Assisted aircraft experiencing an emergency in a timely manner. Recognized the existence of an aircraft emergency. Coordinated responses IAW an emergency checklist. Entered the appropriate emergency point on the scope. Monitored WD aircraft emergency responses.

4.25.2. **U.** Failed to assist aircraft experiencing an emergency in a timely manner. Failed to follow the aircraft emergency checklist. Failed to enter an appropriate emergency point on the scope. Failed to monitor WD aircraft emergency responses. Committed errors or omissions that could have lead to the loss of the aircraft, aircrew or jeopardized mission accomplishment.

4.26. AREA 24-SECURITY OF CLASSIFIED MATERIALS (CRITICAL).

4.26.1. **Q.** U sed and controlled classified materials IAW established security procedures.

4.26.2. **U.** Failed to use and/or control classified materials IAW established security procedures.

4.27. AREA 25-WEATHER INPUTS.

4.27.1. **Q.** Accessed, interpreted, and entered weather information into the data base. Extracted weather information from a weather report. Read and interpreted weather information displayed on the ADU.

4.27.2. **Q-.** Accessed, interpreted, and entered weather information into the data base. Extracted weather information from a weather report. Read and interpreted weather information displayed on the ADU. Committed errors or omissions that did not adversely affect mission accomplishment.

4.27.3. **U.** Failed to access, interpret, and/or enter weather information into the data base. Failed to extract weather from a weather report. Failed to read and/or interpret weather information displayed on the ADU. Committed errors or omissions that could have jeopardized mission accomplishment.

4.28. AREA 26-POSITIONAL CHANGEOVER BRIEF.

4.28.1. **Q.** Briefed the relieving SD on the current operational situation.

4.28.2. **Q-.** Briefed the relieving SD on the current operational situation. Committed errors or omissions that did not adversely affect mission accomplishment.

4.28.3. **U.** Failed to brief the relieving SD on the current operational situation. Committed errors or omissions that could have jeopardized mission accomplishment.

4.29. AREA 27-AIRCREW DEBRIEF.

4.29.1. **Q.** Prepared for and participated in a debriefing with the aircrew IAW AFI 11-214, Attachment 3, Section A3B.

4.29.2. **Q-.** Prepared for and participated in a debriefing with the aircrew IAW AFI 11-214, Attachment 3, Section A3B. Committed errors or omissions that did not adversely affect mission accomplishment.

4.29.3. **U.** Failed to prepare for and/or participate in a debriefing with the aircrew IAW AFI 11-214, Attachment 3, Section A3B. Committed errors or omissions that could have negatively impacted mission accomplishment.

4.30. AREA 28-CREW DEBRIEF.

4.30.1. **Q.** Conducted the weapons portion of the crew debriefing. Reconstructed mission events and determined weapons mission accomplishment relative to briefed mission objectives. Summarized and briefed weapons lessons learned.

4.30.2. **Q-** Conducted the weapons portion of the crew debriefing. Reconstructed mission events and determined weapons mission accomplishment relative to briefed mission objectives. Summarized and briefed weapons lessons learned. Committed errors or omissions that did not adversely effect mission accomplishment.

4.30.3. **U.** Failed to conduct the weapons portion of the crew debriefing. Failed to reconstruct mission events. Failed to determine weapons mission accomplishment relative to briefed mission objectives. Failed to summarize and/or brief weapons lessons learned. Committed errors or omissions that could have negatively impacted mission accomplishment.

Chapter 5

AIR SURVEILLANCE OFFICER QUALIFICATION EVALUATION

Section 5A—Instructions

5.1. General.

5.1.1. This chapter contains the criteria specifying the tasks required of a qualified Air Surveillance Officer (ASO).

5.1.2. Certain areas contain performance tasks that require a degree of knowledge/proficiency that is mandatory for successful mission accomplishment and to ensure safety of flight. Consequently, an “Unqualified” score in any “Critical” area will result in an overall grade of “Unqualified.”

5.1.3. ASO personnel will be evaluated during a locally generated exercise or STE/JSTE with a full operational crew. The evaluation should be conducted during an exercise or STE/JSTE involving at least one or more external TACS units. As a minimum, at least one live Tactical Digital Information Link (TADIL) J, A or B link will be used to conduct the evaluation. Tasks not evaluated during the exercise or STE/JSTE will be evaluated individually while the examinee is on console.

5.2. Evaluation Objective. The examinee must demonstrate the ability to accomplish all ASO duties safely and effectively IAW technical orders and applicable operations directives.

Section 5B— Qualification Criteria

5.3. AREA 1-MISSION PLANNING.

5.3.1. **Q.** Directed mission crew planning efforts. Determined mission tasking, ID criteria, AOR, data link requirements, communications requirements, and surveillance plans from mission planning documents. Obtained equipment status from Job Control. Determined surveillance manning requirements to meet mission tasking. Read and initialed all items in the OIF and/or read files.

5.3.2. **Q-** Directed mission crew planning efforts. Determined mission tasking, ID criteria, AOR, data link requirements, communications requirements, and surveillance plans from mission planning documents. Obtained equipment status from Job Control. Determined surveillance manning requirements to meet mission tasking. Read and initialed all items in the OIF and/or read files. Committed errors or omissions that did not adversely affect mission accomplishment.

5.3.3. **U.** Failed to direct mission planning efforts. Failed to determine mission tasking, ID criteria, AOR, data link requirements, communications requirements, and/or surveillance plans from mission planning documents. Did not obtain equipment status from Job Control. Failed to determine surveillance manning requirements to meet mission tasking. Failed to read and/or initial all items in the OIF and/or read files. Committed errors and omissions that could have jeopardized mission accomplishment.

5.4. AREA 2-REFERENCE SYSTEMS.

5.4.1. **Q.** Determined coordinates using different coordinate reference systems. Located a position by AZRAN from a given point on a map. Determined LAT/LONG coordinates for a position on a map. Converted a LAT/LONG coordinate into a GEOREF coordinate.

5.4.2. **Q-.** Determined coordinates using different coordinate reference systems. Located a position by AZRAN from a given point on a map. LAT/LONG coordinates for a position on a map. Converted a LAT/LONG coordinate into a GEOREF coordinate. Committed errors or omissions that did not adversely affect mission accomplishment.

5.4.3. **U.** Failed to determine coordinates using different coordinate reference systems. Failed to locate a position by AZRAN from a given point on a map. Failed to determine LAT/LONG coordinates for a position on a map. Failed to convert a LAT/LONG coordinate into a GEOREF coordinate. Committed errors or omissions that could have jeopardized mission accomplishment.

5.5. AREA 3-CREW BRIEFING.

5.5.1. **Q.** Conducted the surveillance portion of the crew briefing. Organized the briefing into a logical sequence IAW applicable directives. Briefed surveillance mission objectives. Provided required information on current and/or anticipated surveillance operations, equipment, and communications status. Ensured surveillance team was briefed on all aspects of the surveillance mission.

5.5.2. **Q-.** Conducted the surveillance portion of the crew briefing. Organized the briefing into a logical sequence IAW applicable directives. Briefed surveillance mission objectives. Provided required information on current and/or anticipated surveillance operations, equipment, and communications status. Ensured surveillance team was briefed on all aspects of the surveillance mission. Committed errors or omissions that did not adversely affect mission accomplishment.

5.5.3. **U.** Failed to conduct the surveillance portion of the crew briefing. Failed to organize the briefing into a logical sequence. Failed to brief surveillance mission objectives. Failed to provide information on current and/or anticipated surveillance operations, equipment, and/or communications status. Failed to ensure surveillance team was briefed on all aspects of the surveillance mission. Committed errors or omissions that could have jeopardized mission accomplishment.

5.6. AREA 4-SAFETY HAZARDS (CRITICAL).

5.6.1. **Q.** Located safety hazards and demonstrated proper use of safety equipment. Located electrical, fire, and radiation safety hazards in the OM. Located and demonstrated the proper use of safety equipment and fire extinguishers. Located and explained the use of the OM MASTER OFF switch.

5.6.2. **U.** Failed to locate safety hazards and/or demonstrate proper use of safety equipment. Failed to locate electrical, fire, and radiation safety hazards in the OM. Failed to locate and/or demonstrate proper use of safety board equipment and/or fire extinguishers. Failed to locate and/or explain the use of the OM MASTER OFF switch. Committed errors or omissions that could have resulted in an unsafe act and/or jeopardized mission accomplishment.

5.7. AREA 5-COMMUNICATIONS.

5.7.1. **Q.** Configured OM radios for communications. Ensured radios were powered. Ensured radio frequencies were assigned to meet mission requirements. Ensured cryptographic radio equipment was loaded and configured for mission. Configured VCAU for operations as needed. Located and explained VCAU controls and indicators. Accessed VCAU communications as needed.

5.7.2. **Q-** Configured OM radios for communications. Ensured radios were powered. Ensured radio frequencies were assigned to meet mission requirements. Ensured cryptographic radio equipment was loaded and configured for mission. Configured VCAU for operations as needed. Located and explained VCAU controls and indicators. Accessed VCAU communications as needed. Committed errors or omissions that did not adversely affect mission accomplishment.

5.7.3. **U.** Failed to configure OM radios for communications. Failed to ensure radios were powered. Failed to ensure radio frequencies were assigned to meet mission requirements. Failed to ensure cryptographic radio equipment was loaded and/or configured for mission. Failed to configure VCAU communications as needed. Failed to locate and/or explain VCAU controls and indicators. Failed to access VCAU communications as needed. Committed errors or omissions that could have jeopardized mission accomplishment.

5.8. AREA 6-OCU SET UP.

5.8.1. **Q.** Set up and operated the OCU IAW checklists. Located and explained OCU controls and indicators. Used switch actions to customize the OCU presentation for optimal situational awareness.

5.8.2. **Q -.** Set up and operated the OCU IAW checklists. Located and explained OCU controls and indicators. Used switch actions to customize the OCU presentation for optimal situational awareness. Committed errors or omissions that did not adversely affect mission accomplishment.

5.8.3. **U.** Failed to set up and/or operate the OCU. Failed to comply with checklists. Failed to locate and explain OCU controls and indicators. Failed to use switch actions to customize the OCU presentation for optimal situational awareness. Committed errors or omissions that could have jeopardized mission accomplishment.

5.9. AREA 7-AIR PICTURE MAINTENANCE (CRITICAL).

5.9.1. **Q.** Ensured timely and accurate collection, display, and dissemination of air surveillance data to higher, lateral, and subordinate units as appropriate. Interpreted track symbols and modifiers. Read and interpreted track information in the HDRO. Used switch actions associated with initiating and maintaining tracks. Used switch actions to hook tracks on the OCU as needed. Used switch actions to maintain an accurate air surveillance picture.

5.9.2. **U.** Failed to ensure timely and/or accurate collection, display, and/or dissemination of air surveillance data to higher, lateral, and/or subordinate units as appropriate. Failed to read and/or interpret track symbols and modifiers. Failed to read and correctly interpreted track information in the HDRO. Did not use switch actions associated with initiating and maintaining tracks. Did not use switch actions to hook tracks on the OCU as needed. Failed to use switch actions to maintain an accurate air surveillance picture. Committed errors or omissions that could have jeopardized mission accomplishment.

5.10. AREA 8-SENSOR OPERATIONS (CRITICAL).

5.10.1. **Q.** Ensured sensors were configured and optimized to accomplish mission. Recognized and analyzed degraded sensor performance. Ensured corrective measures were taken to improve degraded sensor performance. Monitored corrective actions taken to improve degraded sensors.

5.10.2. **U.** Failed to ensure sensors were configured and/or optimized to accomplish mission. Failed to recognize and/or analyze degraded sensor performance. Failed to ensure corrective measures were

taken to improve degraded sensor performance. Failed to monitor corrective actions taken to improve degraded sensors. Committed errors or omissions that could have jeopardized mission accomplishment.

5.11. AREA 9-DATA LINK OPERATIONS (CRITICAL).

5.11.1. **Q.** Ensured data links were established as directed. Managed and directed data links IAW OPTASKLINK. Managed and directed a TADIL-A link. Managed and directed a TADIL-B link. Managed and directed a TADIL-J link. Coordinated with MCC on data link changes. Analyzed data link problems and monitored troubleshooting efforts. Monitored data link coordination net and/or track supervision net.

5.11.2. **U.** Failed to ensure data links were established as directed. Failed to manage and/or direct data links IAW OPTASKLINK guidance. Failed to manage and/or direct a TADIL-A link. Failed to manage and/or direct a TADIL-B link. Failed to manage and/or direct a TADIL-J link. Failed to coordinate with MCC on data link changes. Failed to analyze data link problems and/or monitor troubleshooting efforts. Failed to monitor data link coordination net and/or track supervision net. Committed errors or omissions that could have jeopardized mission accomplishment.

5.12. AREA 10-SENSOR/SITE REGISTRATION.

5.12.1. **Q.** Ensured proper sensor/site registration procedures were implemented as required. Directed coordination to resolve registration problems with interfacing units.

5.12.2. **Q-.** Ensured proper sensor/site registration procedures were implemented as required. Directed coordination to resolve registration problems with interfacing units. Committed errors or omissions that did not adversely affect mission accomplishment.

5.12.3. **U.** Failed to ensure proper sensor/site registration procedures were implemented as required. Failed to direct coordination to resolve registration problems with interfacing units. Committed errors or omissions that could have jeopardized mission accomplishment.

5.13. AREA 11-SURVEILLANCE SUPERVISION (CRITICAL).

5.13.1. **Q.** Supervised tracking and identification of all air traffic within the AOR. Ensured identification procedures were properly executed in a timely manner. Ensured all tracks were properly identified. Disseminated flight plan information to adjacent/subordinate units. Approved all cancel track actions. Ensured coordination of ID activities with adjacent air traffic control facilities. Directed surveillance configuration at subordinate units. Ensured surveillance track filters were built as required.

5.13.2. **U.** Failed to supervise tracking and/or identification of all air traffic within the AOR. Failed to ensure identification procedures were properly executed in a timely manner. Failed to ensure that all tracks were properly identified. Failed to disseminate flight plan information to adjacent/subordinate units. Failed to approve all cancel track actions. Failed to ensure coordination of ID activities with adjacent air traffic control units. Failed to ensure surveillance track filters were built as required. Committed errors or omissions that could have jeopardized mission accomplishment.

5.14. AREA 12-BATTLE MANAGEMENT (CRITICAL).

5.14.1. **Q.** Ensured surveillance team implemented SPINS procedures as directed during a live exercise or STE/JSTE with a complete mission crew and at least one or more lateral and/or subordinate

units. Ensured surveillance team implemented ROE procedures as directed. Ensured ACO procedures were implemented as directed.

5.14.2. **U.** Failed to ensure surveillance team implemented SPINS procedures as directed during a live exercise or STE/JSTE with a complete mission crew and at least one or more lateral and/or subordinate units. Failed to ensure surveillance team implemented ROE procedures as directed. Failed to ensure ACO procedures were implemented as directed. Committed errors or omissions that could have jeopardized mission accomplishment.

5.15. AREA 13-ELECTRONIC PROTECTION (EP) OPERATIONS (CRITICAL).

5.15.1. **Q.** Directed emission control (EMCON) and EP activities. Ensured the MCC and AOC were notified of Electromagnetic Interference (EMI) and/or EA experienced.

5.15.2. **U.** Failed to direct EMCON and/or EP activities. Failed to ensure the MCC and AOC were notified of EMI and/or EA experience. Committed errors or omissions that could have jeopardized mission accomplishment.

5.16. AREA 14-INTERNAL/EXTERNAL COORDINATION.

5.16.1. **Q.** Coordinated surveillance activities with weapons operations activities. Coordinated with intelligence assets and disseminated information to the mission crew to enhance situational awareness.

5.16.2. **Q-.** Coordinated surveillance activities with weapons operations activities. Coordinated with intelligence assets and disseminated information to the mission crew to enhance situational awareness. Committed errors or omissions that did not adversely affect mission accomplishment.

5.16.3. **U.** Failed to coordinate surveillance activities with weapons operations activities. Failed to coordinate with intelligence assets. Failed to disseminate information to the mission crew to enhance situational awareness. Committed errors or omissions that could have jeopardized mission accomplishment.

5.17. AREA 15-SYSTEM OPERATIONS (CRITICAL).

5.17.1. **Q.** Coordinated on computer problems and workarounds as required. Explained the purpose of Performance Monitor (PM) and Test functions. Ensured Resets and/or initiate program loads (IPLs) were performed as directed. Did not respond to alarms and alerts in a timely manner. Responded to alarms and alerts in a timely manner.

5.17.2. **U.** Did not coordinated on computer problems and workarounds as required. Failed to explain the purpose of PM and Test functions. Failed to ensure Resets and/or IPLs were performed as directed. Committed errors or omissions that could have jeopardized mission accomplishment.

5.18. AREA 16-EMERGENCIES (CRITICAL).

5.18.1. **Q.** Supervised surveillance responses to an ARM attack. Recognized or received ARM attack profile warning and notified MCC. Monitored employment of the ARM decoy. Complied with ARM attack checklist. Ensured timely surveillance assistance to aircraft experiencing emergency situations. Recognized the existence of an emergency. Ensured surveillance team complied with emergency

checklists. Coordinated emergency response reactions with SD and/or MCC as appropriate. Ensured appropriate emergency point was entered for a downed aircraft.

5.18.2. **U.** Failed to supervise surveillance responses to an ARM attack. Failed to recognize ARM attack profile and/or receive ARM profile warning. Failed to monitor employment of the ARM decoy. Failed to comply with ARM attack checklist. Failed to ensure timely surveillance assistance to aircraft experiencing emergency situations. Did not recognize the existence of an emergency. Failed to ensure surveillance team complied with aircraft emergency checklists. Failed to coordinate emergency responses with SD and/or MCC as appropriate. Failed to ensure an appropriate point was entered for downed aircraft. Committed errors or omissions that could have jeopardized mission accomplishment.

5.19. AREA 17-COMSEC/AUTHENTICATION (CRITICAL).

5.19.1. **Q.** Recognized and countered various types of communications jamming. Authenticated voice transmissions within time limits specified on authenticators.

5.19.2. **U.** Failed to recognize and/or counter various types of communications jamming. Failed to authenticate voice transmissions within time limits specified on authenticators. Committed errors or omissions that could have jeopardized mission accomplishment.

5.20. AREA 18-SECURITY OF CLASSIFIED MATERIALS (CRITICAL).

5.20.1. **Q.** Used and controlled classified materials IAW established security procedures.

5.20.2. **U.** Failed to use and/or control classified materials IAW established security procedures. Committed errors or omissions that could have jeopardized mission accomplishment.

5.21. AREA 19-WEATHER.

5.21.1. **Q.** Maintained current meteorological information as required. Accessed, interpreted, and entered weather information into the data base. Extracted information from a weather report. Read and interpreted weather information on the ADU.

5.21.2. **Q-.** Maintained current meteorological information as required. Accessed, interpreted, and entered weather information into the data base. Extracted information from a weather report. Read and interpreted weather information on the ADU. Committed errors or omissions that did not adversely affect mission accomplishment.

5.21.3. **U.** Failed to maintain current meteorological information as required. Failed to access, interpret, and/or enter weather information into the data base. Failed to extract weather information from a weather report. Failed to read and/or interpret weather information displayed on the ADU. Committed errors or omissions that could have jeopardized mission accomplishment.

5.22. AREA 20-POSITIONAL CHANGEOVER BRIEF.

5.22.1. **Q.** Briefed the relieving ASO on the current operational situation before departing position. Conducted positional changeover briefing IAW checklist.

5.22.2. **Q-.** Briefed the relieving ASO on the current operational situation before departing position. Conducted positional changeover briefing IAW checklist. Committed errors or omissions that did not adversely affect mission accomplishment.

5.22.3. **U.** Failed to brief the relieving ASO on the current operational situation before departing position. Failed to follow checklist when conducted positional changeover briefing. Committed errors or omissions that could have jeopardized mission accomplishment.

5.23. AREA 21-CREW DEBRIEFING.

5.23.1. **Q.** Conducted the surveillance portion of the crew debriefing. Reconstructed mission events. Determined surveillance accomplishments relative to briefed mission objectives. Summarized and briefed surveillance lessons learned.

5.23.2. **Q-** Conducted the surveillance portion of the crew debriefing. Reconstructed mission events. Determined surveillance accomplishments relative to briefed mission objectives. Summarized and briefed surveillance lessons learned. Committed errors or omissions that did not adversely affect mission accomplishment.

5.23.3. **U.** Failed to conduct the surveillance portion of the crew debriefing. Failed to reconstruct mission events. Failed to determine surveillance accomplishments relative to briefed mission objectives. Failed to summarize and/or brief surveillance lessons learned. Committed errors or omissions that could have jeopardized mission accomplishment.

Chapter 6

WEAPONS DIRECTOR QUALIFICATION EVALUATION

Section 6A—Instructions

6.1. General.

6.1.1. This chapter contains the criteria specifying the tasks required of a qualified Weapons Director Qualification Evaluation.

6.1.2. Certain areas contain performance tasks that require a degree of knowledge/proficiency that is mandatory for successful mission accomplishment and to ensure safety of flight. Consequently, an “Unqualified” score in any “Critical” area will result in an overall grade of “Unqualified.”

6.1.2.1. WD personnel will be evaluated during a locally generated exercise or STE/JSTE with a full operational crew. The evaluation will be conducted during an exercise or STE/JSTE involving at least one or more external TACS units. As a minimum, at least one live Tactical Digital Information Link (TADIL) J, A or B link will be used to conduct the evaluation. TACS units will simulate an ADA interface. Tasks not evaluated during the exercise or STE/JSTE will be evaluated individually while the examinee is on console. WD personnel will maintain a current weapons qualifications and be evaluated IAW the tasks below:

6.1.2.2. WD examinees will be evaluated on air-to-air (Air Combat Training/Dissimilar Air Combat Training [ACT/DACT]), air refueling, and air-to-surface missions. SEEs will make the determination as to whether briefed/conducted control activities meet/fulfill live control requirements. The live mission does not have to conform to a specific profile if the unit is unable to schedule aircraft to conduct such a mission. At least one air-to-air mission must be evaluated in the live environment. Whenever possible, at least one air refueling mission should be evaluated in the live environment. If unable to accomplish the air refueling mission evaluation with a live sortie, the evaluation can be accomplished in a simulated mission environment. If simulation is used, the SEE will document in the Mission Description paragraph in the Remarks section of the AF Form 4143 that the evaluation was conducted via simulation IAW AFI 13-1 STAN/EVAL, Volume 2. Other missions, not evaluated in the live environment, may be evaluated using simulation (if necessary, all events may be accomplished using the same set of assets.)

6.1.2.3. Air-to-air Air Combat Training (ACT) missions will be conducted where weapons examinees provide tactical or broadcast control, as briefed by the aircrew. The control will be provided to at least two separate fighters/elements simultaneously committed against targets cleared for evasive maneuvering. The SEE will ensure the weapons examinee participates in all phases of the mission.

NOTE: It is not a requirement for this mission to result in a maneuvering dogfight.

6.1.2.4. Air refueling evaluations require control to be provided to at least two separate receivers/elements simultaneously (talking to and providing vectors to both receivers/elements at the same time) rendezvousing on one or more tankers. The weapons examinee must demonstrate both point parallel and receiver turn-on rendezvous tactics using close control procedures.

6.1.2.5. SEEs will evaluate the preplanning and conduct of four simultaneous events/flights (Close Air Support [CAS]) in a tactical air-to-surface mission. Units without a simulation capabil-

ity will use an available live mission to simulate conduct of a CAS mission against a designated ground target with a simulated forward air control aircraft. In all cases, full target briefings and threat information will be provided.

6.2. Evaluation Objective. The examinee must demonstrate the ability to operate safely and effectively IAW technical orders, air traffic control (ATC) regulations, and other applicable directives.

Section 6B—Qualification Criteria

6.3. AREA 1-MISSION PLANNING DOCUMENT EXTRACTION.

6.3.1. **Q.** Extracted information from mission planning documents required to plan and execute the tasked mission IAW AFTTP 3-1 and applicable operations directives. Extracted ROE information and assisted in mission planning as directed by the SD. Read and initialed all items in the OIF and/or read files.

6.3.2. **Q-.** Extracted information from mission planning documents required to plan and execute the tasked mission. Extracted ROE information and assisted in mission planning as directed by the SD. Read and initialed all items in the OIF and/or read files. Committed errors or omissions that did not adversely affect mission accomplishment.

6.3.3. **U.** Failed to extract mission planning information required to execute the tasked mission. Failed to extract ROE information. Did not comply with SD's direction while mission planning. Failed to read and/or initial all items in the OIF and/or read files. Committed errors or omissions that could have jeopardized mission accomplishment.

6.4. AREA 2-MAPS AND REFERENCE SYSTEMS.

6.4.1. **Q.** Determined coordinates on maps using different coordinate reference systems. Located a position by AZRAN from a given point on a map. Determined the LAT/LONG coordinates of a point on a map. Converted a LAT/LONG coordinate into a GEOREF coordinate.

6.4.2. **Q-.** Determined coordinates on maps using different coordinate reference systems. Located a position by AZRAN from a given point on a map. Determined the Latitude/Longitude coordinates of a point on a map. Converted a LAT/LONG coordinate into a GEOREF coordinate. Committed minor errors or omissions that did not adversely affect mission accomplishment.

6.4.3. **U.** Failed to determine coordinates on maps using different coordinate reference systems. Failed to location a position by AZRAN from a given point on a map. Failed to determine the LAT/LONG coordinates of a point on a map. Failed to convert a LAT/LONG coordinate into a GEOREF coordinate. Committed errors or omissions that could have jeopardized mission accomplishment.

6.5. AREA 3-EXTRACTING WEAPONS DATA BASE INFORMATION.

6.5.1. **Q .** Extracted weapons-related data base input information as directed.

6.5.2. **Q-.** Extracted weapons-related data base information as directed. Committed errors or omissions that did not adversely affect mission accomplishment.

6.5.3. **U.** Failed to extract weapons-related data base information as directed. Committed errors or omissions that could have jeopardized mission accomplishment.

6.6. AREA 4-AIRCREW BRIEF/DEBRIEF.

6.6.1. **Q.** Participated in and extracted pertinent information from a briefing with the aircrew IAW AFI 11-214, Attachment 3, Section A3A.

6.6.2. **Q-** Participated in and extracted pertinent information from a briefing with the aircrew IAW AFI 11-214, Attachment 3, Section A3A. Committed errors or omissions that did not adversely affect mission accomplishment.

6.6.3. **U.** Failed to participate in a briefing with the aircrew. Failed to extract pertinent information from the aircrew briefing IAW AFI 11-214, Attachment 3, Section A3A. Committed errors or omissions that could have jeopardized mission accomplishment.

6.7. AREA 5-FORMS DOCUMENTATION.

6.7.1. **Q.** Completed AF Form 4146 IAW AFI 13-1 MCS, Volume 3.

6.7.2. **Q-** Completed AF Form 4146 IAW AFI 13-1 MCS, Volume 3. Committed errors or omissions that did not affect mission accomplishment.

6.7.3. **U.** Failed to complete AF Form 4146 as required by AFI 13-1 MCS, Volume 3. Committed errors or omissions that could have jeopardized mission accomplishment.

6.8. AREA 6-SAFETY HAZARDS AND EQUIPMENT (CRITICAL).

6.8.1. **Q.** Located safety hazards and demonstrated proper use of safety equipment. Located electrical, fire, and radiation safety hazards in the operations module (OM). Located and demonstrated proper use of safety board equipment and fire extinguishers. Located and explained the use of the OM Master OFF switch.

6.8.2. **U.** Failed to locate safety hazards and demonstrate proper use of safety equipment. Failed to locate electrical, fire, and radiation safety hazards in the OM. Failed to locate and/or demonstrate proper use of safety board equipment and fire extinguishers. Failed to locate and explain the use of the OM Master OFF switch. Committed errors or omissions that could have resulted in an unsafe act and/or jeopardized mission accomplishment.

6.9. AREA 7-CONFIGURING OM COMMUNICATIONS.

6.9.1. **Q.** Configured OM communications equipment for operations. Ensured that radios were powered and correct frequencies were set in radios. Ensured cryptographic radio equipment was loaded and configured as needed. Configured the Radio Patch Panel (RPP) for operations.

6.9.2. **Q-** Configured OM communications equipment for operations. Ensured that radios were powered and correct frequencies were set in radios. Ensured cryptographic radio equipment was loaded and configured as needed. Configured the Radio Patch Panel (RPP) for operations. Committed errors or omissions that did not adversely affect mission accomplishment.

6.9.3. **U.** Failed to configure OM communications equipment for operations. Failed to ensure that radios were powered and/or correct frequencies were set in radios. Failed to ensure that cryptographic radio equipment was loaded and configured as needed. Failed to configure the Radio Patch Panel (RPP) for operations. Committed errors and omissions that could have jeopardized mission accomplishment.

6.10. AREA 8-OCU SETUP AND OPERATION.

6.10.1. **Q** . Setup and operated the OCU IAW unit checklists. Located and explained OCU controls and indicators. Used switch actions to customize the OCU presentation for operations.

6.10.2. **Q-**. Setup and operated the OCU IAW unit checklists. Located and explained OCU controls and indicators. Used switch actions to customize the OCU presentation for operations. Committed errors or omissions that did not adversely affect mission accomplishment.

6.10.3. **U**. Failed to setup and operate the OCU. Failed to use a checklist for OCU set up. Failed to locate and explain OCU controls and indicators. Failed to locate and use switch actions to customize the OCU presentation for operations. Committed errors or omissions that could have jeopardized mission accomplishment.

6.11. AREA 9-VCAU SETUP AND OPERATIONS.

6.11.1. **Q** . Setup and operated the VCAU IAW unit checklists. Located and explained VCAU controls and indicators. Configured the VCAU for operations as required. Accessed VCAU communications as needed.

6.11.2. **Q-**. Setup and operated the VCAU. Located and explained VCAU controls and indicators. Configured the VCAU for operations as required. Accessed VCAU communications as needed. Committed errors or omissions that did not adversely affect mission accomplishment.

6.11.3. **U**. Failed to setup and/or operate the VCAU. Failed to comply with unit checklists. Could not locate and explain VCAU controls or indicators. Failed to configure the VCAU for operations as required. Failed to access VCAU communications as needed. Committed errors or omissions that jeopardized mission accomplishment.

6.12. AREA 10-AIR-TO-AIR MISSIONS (CRITICAL).

6.12.1. **Q**. Directed air-to-air missions as required. Conducted 2vX Offensive Counter-Air (OCA) air-to-air missions (Air Combat Tactics/Dissimilar Air Combat Tactics [ACT/DACT]). Provided control of CAP, sweep or force protection that effectively defended assets and/or accomplished the mission. Provided threat warnings to all factor groups. Committed aircraft to a tactical objective IAW mission objectives. Provided amplifying information on specific groups, including formations and maneuvers. Provided QC of group targeting and follow-on targeting. Provided vectoring assistance as required for rejoins and egress. Provided bearing and range information accurate to within 5 degrees and 2 NM. Maintained Situational Awareness (SA) on mission aircraft and the tactical situation.

6.12.2. **U**. Failed to direct air-to-air missions as required. Failed to provide control of CAP, sweep, or force protection that effectively defended assets and/or accomplished the mission. Failed to provide threat warning to all factor groups. Failed to commit aircraft to a tactical objective as required by mission directives. Failed to provide amplifying information on specific groups, including formations or maneuvers. Failed to provide QC of group targeting and follow-on targeting. Failed to provide vectoring assistance as required for rejoins and egress. Failed to provide bearing and range information accurate to within 5 degrees and 2 NM. Failed to maintain Situational Awareness (S/A) on mission aircraft and/or the tactical situation. Committed errors or omissions that could have jeopardized mission accomplishment.

6.13. AREA 11-AIR-TO-SURFACE MISSIONS (CRITICAL).

6.13.1. **Q.** Directed air-to-surface missions consistent with the continuum of control. Informed mission commander of aircraft strike package status. Assisted in marshalling forces as required. Assisted with safe passage and minimum risk procedures. Assisted with recovery of mission aircraft. Provided threat warning and updates to all factor groups. As required/requested, provided vectoring assistance to within 3 NM of specified IP, route, target point or FAC as required. Maintained situational awareness.

6.13.2. **U.** Failed to direct air-to-surface missions as required consistent with the continuum of control. Failed to inform mission commander of strike package status. Failed to assist in marshaling forces as required. Failed to assist with safe passage or minimum risk procedures. Failed to assist with the recovery of mission aircraft. Failed to provide threat warning and update to all factor groups. Failed to position aircraft within 3 NM of a specified IP, route, target point and/or FAC as required. Failed to maintain situational awareness. Committed errors or omissions that could have jeopardized mission accomplishment.

6.14. AREA 12-AERIAL REFUELING MISSIONS (CRITICAL).

6.14.1. **Q.** Directed air refueling missions consistent with the continuum of control. Checked in tankers and receivers IAW checklists. Ensured altimeter settings were passed to all players. Ensured receivers were weapons safe before rendezvous. Managed aerial refueling assets. Prioritized refueling activity and placed receivers in a position to accomplish mission objectives. Conducted close control rendezvous operations. Established geometry within one minute of pairing. Conducted point parallel and receiver turn on rendezvous. During point parallel rendezvous, positioned tanker within 60 degrees cone (+/- 30 degrees of the receiver) and 1-3 NM ahead of the receiver, measured at roll out. During receiver turn-on rendezvous, positioned receivers within 30 degrees of either side of the center line/tanker tail and 1-3 NM behind the tanker, measured at roll out. Obtained and disseminated post-refueling offload information as required. Maintained situational awareness.

6.14.2. **U.** Failed to direct air refueling missions consistent with the continuum of control. Failed to check tankers and receivers in as required by checklists. Failed to pass altimeter settings to participants or ensure receivers were weapons safe before rendezvous. Failed to manage aerial refueling assets. Failed to prioritize refueling activity and/or to place receivers in a position to accomplish mission objectives. Failed to conduct point parallel and/or receiver turn on rendezvous. Failed to position the tanker within 60 degrees cone (+/- 30 degrees of the receiver) and 1-3 NM ahead of the receiver, measured at roll out, during a point parallel rendezvous. Failed to position receiver within 30 degrees of either side of the center line/tanker tail and 1-3 NM behind the tanker, measured at roll out, during a receiver turn on rendezvous. Failed to maintain situational awareness. Committed errors or omissions that could have jeopardized mission accomplishment.

6.15. AREA 13-ASSUMPTION OF CONTROL (CRITICAL).

6.15.1. **Q.** Located mission aircraft using pilot-reported position, radar and/or IFF/SIF returns, pilot maneuvering, or external sources in a timely manner. Assumed control by voicing "radar contact" in a timely manner or "negative radar contact" as appropriate. Provided aircrew with a working frequency and/or net and time of day (TOD) (if applicable). Provided a brief situation update ("Picture"). Conducted IFF/SIF checks and advised aircrew of status. Conducted radar handoffs IAW proper procedures.

6.15.2. U. Failed to locate aircraft in a timely manner. Failed to voice “radar contact” or “negative radar contact” as appropriate. Failed to comply with procedures for conducting radar handoffs. Committed errors or omissions that could have jeopardized mission accomplishment.

6.16. AREA 14-AIRSPACE MANAGEMENT (CRITICAL).

6.16.1. Q. Complied with proper airspace management requirements and restrictions IAW proper procedures. Initiated airspace requests and verified airspace restrictions and limitations IAW applicable directives. Ensured all efforts were taken to keep aircraft inside the lateral and vertical confines of the airspace in a timely manner.

6.16.2. U. Failed to comply with airspace management requirements and restrictions IAW proper procedures. Failed to initiate or verify airspace restrictions and limitations IAW applicable directives. Failed to ensure all efforts were taken to keep aircraft within the lateral and vertical confines of the airspace in a timely manner. Committed errors or omissions that could have jeopardized mission accomplishment.

6.17. AREA 15-R/T PROCEDURES.

6.17.1. Q. Communicated with aircrews using proper R/T and brevity code procedures IAW AFTTP 3-1, applicable joint and combined communications procedures, and established standards.

6.17.2. Q-. Communicated with aircrews using proper R/T and brevity code procedures IAW AFTTP 3-1, applicable Joint and Combined communications procedures, and established standards. Committed errors or omissions that did not adversely affect communication or mission accomplishment.

6.17.3. U. Failed to communicate with aircrews using proper R/T procedures and brevity code procedures IAW AFTTP 3-1, applicable Joint and Combined communications procedures, and established standards. Committed errors or omissions that adversely affected communication and could have jeopardized mission accomplishment.

6.18. AREA 16-CONTINUUM OF CONTROL (CRITICAL).

6.18.1. Q. Used the continuum of control to accomplish the mission consistent with briefed objectives IAW AFI 11-214, AFTTP 3-1, aircraft capabilities, ROE, threat, enemy order of battle, and/or battle staff direction.

6.18.2. U. Failed to use the continuum of control to accomplish the mission consistent with briefed objectives, AFI 11-214, AFTTP 3-1, aircraft capabilities, ROE, threat, enemy order of battle, and/or battle staff direction. Committed errors or omissions that could have jeopardized mission accomplishment.

6.19. AREA 17-SWITCH ACTIONS.

6.19.1. Q. Used switch actions to perform airspace management and weapons control-related system functions.

6.19.2. Q-. Used switch actions to perform airspace management and weapons control-related system functions with errors or omissions that did not adversely affect mission accomplishment.

6.19.3. U. Failed to use switch actions to perform airspace management and/or weapons control-related system functions. Committed errors or omissions that could have jeopardized mission accomplishment.

6.20. AREA 18-SAFETY OF FLIGHT (CRITICAL).

6.20.1. Q. Ensured safety of flight for mission aircraft without error. Ensured appropriate weapons safety checks were accomplished as needed. Ensured safe vertical and horizontal separation of mission aircraft. Provided 10 mile calls as needed. Was aware of all safety factors and complied with all rules for the safe control of aircraft. Ensured adequate coordination to prevent unsafe acts by controlled aircraft.

6.20.2. U. Failed to ensure safety of flight for mission aircraft. Failed to ensure weapons safety checks. Failed to ensure safe altitude separation of mission aircraft. Failed to provide 10 mile calls as required. Was not aware of all safety factors and/or did not comply with all safety rules required for the safe control of aircraft. Failed to ensure adequate coordination to prevent an unsafe act by controlled aircraft. Committed errors or omissions that could have resulted in an unsafe act.

6.21. AREA 19-SYSTEM OPERATION.

6.21.1. Q. Read and interpreted track symbols and modifiers. Read and interpreted information on the HDRO. Hooked tracks on the OCU as required. Initiated a system air track. Changed a system air track into a weapons air track. Maintained weapons symbology within 2 NM of radar data.

6.21.2. Q-. Read and interpreted track symbols and modifiers. Read and interpreted information on the HDRO. Hooked tracks on the OCU as required. Initiated a system air track. Changed a system air track into a weapons air track. Maintained weapons symbology within 2 NM of radar data. Committed errors or omissions that did not adversely affect mission accomplishment.

6.21.3. U. Failed to read and/or interpret track symbols or modifiers. Failed to read or interpret information displayed on the HDRO. Failed to hook tracks on the OCU as required. Failed to initiate a system air track. Failed to change a system air track into a weapons air track. Failed to maintain weapons symbology within 2 NM of radar data. Committed errors or omissions that could have jeopardized mission accomplishment.

6.22. AREA 20-COMMUNICATION JAMMING.

6.22.1. Q. Recognized and countered various types of communications jamming. Authenticated voice transmission within time limits specified on authenticators.

6.22.2. Q-. Recognized and countered various types of communications jamming. Authenticated voice transmission within time limits specified on authenticators. Committed errors or omissions that did not adversely affect mission accomplishment.

6.22.3. U. Failed to recognize various types of communications jamming. Failed to take steps to counter communications jamming. Failed to authenticate voice transmissions within time limits specified on authenticators. Committed errors or omissions that could have jeopardized mission accomplishment.

6.23. AREA 21-COMSEC/AUTHENTICATION (CRITICAL).

6.23.1. **Q.** Used and controlled COMSEC IAW established procedures. Authenticated voice transmissions within time limits specified on authenticators.

6.23.2. **U.** Failed to use and/or control COMSEC classified materials when required . Failed to authenticate voice transmissions within time limits specified on authenticators. Committed errors or omissions that could have jeopardized mission accomplishment.

6.24. AREA 22-AIRCRAFT EMERGENCIES (CRITICAL).

6.24.1. **Q.** Assisted aircraft experiencing an emergency in a timely manner. Recognized the existence of an aircraft emergency. Coordinated responses IAW an emergency checklist. Entered the appropriate emergency point on the scope. Notified SD of the aircraft emergency.

6.24.2. **U.** Failed to assist aircraft experiencing an emergency. Failed to respond in a timely manner. Failed to recognize an aircraft emergency. Failed to follow the aircraft emergency checklist. Failed to enter an appropriate emergency point on the scope. Failed to notify SD of aircraft emergency. Committed errors or omissions that could have lead to the loss of the aircraft, aircrew or jeopardized mission accomplishment.

6.25. AREA 23-SECURITY OF CLASSIFIED MATERIALS (CRITICAL).

6.25.1. **Q.** Used and controlled classified materials IAW established security procedures.

6.25.2. **U.** Failed to use and/or control classified materials IAW established security procedures.

6.26. AREA 24-POSITIONAL CHANGEOVER BRIEF.

6.26.1. **Q.** Briefed the relieving WD on the current operational situation before departing position. Conducted positional changeover briefing IAW checklist.

6.26.2. **Q-.** Briefed the relieving WD on the current operational situation before departing position. Conducted positional changeover briefing IAW checklist. Committed errors or omissions that did not adversely affect mission accomplishment.

6.26.3. **U.** Failed to brief the relieving WD on the current operational situation before departing position. Did not conduct positional changeover briefing IAW checklist. Committed errors or omissions that could have jeopardized mission accomplishment.

6.27. AREA 25-AIRCREW DEBRIEF.

6.27.1. **Q.** Prepared for and participated in a debriefing with the aircrew IAW AFI 11-214, Attachment 3, Section A3B.

6.27.2. **Q-.** Prepared for and participated in a debriefing with the aircrew IAW AFI 11-214, Attachment 3, SectionA3B. Committed errors or omissions that did not adversely affect mission accomplishment.

6.27.3. **U.** Failed to prepare for and/or participate in a debriefing with the aircrew.

6.28. AREA 26-CREW DEBRIEFING.

6.28.1. **Q.** Participated in a crew debriefing.

6.28.2. **Q-** Participated in a crew debriefing. Committed errors or omissions that did not adversely affect mission accomplishment.

6.28.3. **U.** Failed to participate in a crew debriefing. Committed errors or omissions that could have jeopardized mission accomplishment.

Chapter 7

BATTLE STAFF COORDINATOR QUALIFICATION EVALUATION

Section 7A—Instructions

7.1. General.

7.1.1. This chapter contains the criteria specifying the tasks required of a qualified Battle Staff Coordinator (BSC) positional evaluation.

7.1.2. Certain areas contain performance tasks that require a degree of knowledge/proficiency that is mandatory for successful mission accomplishment and to ensure safety of flight. Consequently, an “Unqualified” score in any “Critical” area will result in an overall grade of “Unqualified.”

7.1.3. BSC personnel will be evaluated during a locally generated exercise or STE/JSTE with a full operational crew. When possible, the evaluation should be conducted during an exercise or STE/JSTE involving at least one or more external TACS units. Tasks not evaluated during the exercise or STE/JSTE will be evaluated individually while the examinee is at the BSC duty position.

7.2. Evaluation Objective. The examinee must demonstrate the ability to accomplish all BSC duties safely and effectively IAW technical orders, applicable operations directives and MAJCOM Standardization Evaluation checklists.

Section 7B—Qualification Criteria

7.3. AREA 1-MISSION PLANNING DOCUMENT EXTRACTION.

7.3.1. **Q.** Extracted from mission planning documents, as directed by the BC, information required to plan and to execute the tasked mission IAW AFTTP 3-1 and applicable operations directives.

7.3.2. **Q-.** Extracted from mission planning documents, as directed by the BC, information required to plan and to execute the tasked mission. Committed errors or omissions that did not adversely affect mission accomplishment.

7.3.3. **U.** Failed to extract from mission planning documents, as directed by the BC, information required to plan and to execute the tasked mission. Committed errors or omissions that could have jeopardized mission accomplishment.

7.4. AREA 2-MAPS AND REFERENCE SYSTEMS.

7.4.1. **Q.** Determined coordinates on maps using different coordinate reference systems. Located a position by AZRAN from a given point on a map. Determined the LAT/LONG coordinates of a point on a map. Converted a LAT/LONG coordinate into a GEOREF coordinate.

7.4.2. **Q-.** Determined coordinates on maps using different coordinate reference systems. Located a position by AZRAN from a given point on a map. Determined the LAT/LONG coordinates of a point on a map. Converted a LAT/LONG coordinate into a GEOREF coordinate. Committed errors or omissions that did not adversely affect mission accomplishment.

7.4.3. U. Failed to determine coordinates on maps using different coordinate reference systems. Failed to location a position by AZRAN from a given point on a map. Failed to determine the LAT/LONG coordinates of a point on a map. Failed to convert a LAT/LONG coordinate into a GEOREF coordinate. Committed errors or omissions that could have jeopardized mission accomplishment.

7.5. AREA 3-EMPLOYMENT PLAN DEVELOPMENT.

7.5.1. Q. Compiled information, as directed by the BC, to develop the unit's employment plan.

7.5.2. Q-. Compiled information, as directed by the BC, to develop the unit's employment plan. Committed errors or omissions that did not adversely affect mission accomplishment.

7.5.3. U. Failed to compile information, as directed by the BC, to develop the unit's employment plan. Committed errors or omissions that could have jeopardized mission accomplishment.

7.6. AREA 4-COMBAT CAPABILITY.

7.6.1. Q. When directed by the BC, assessed and reported, through proper channels, the unit's capabilities to accomplish the tasked mission using the Status of Resources and Training (SORTS) report IAW established directives. Determined Command Post (CP) personnel and communications requirements. Identified shortfalls and Limiting Factors (LIMFACs) for outsourcing. Validated the allocation of available unit resources.

7.6.2. Q-. When directed by the BC, assessed and reported, through proper channels, the unit's capabilities to accomplish the tasked mission using the Status of Resources and Training (SORTS) report IAW established directives. Determined Command Post (CP) personnel and communications requirements. Identified shortfalls and Limiting Factors (LIMFACs) for outsourcing. Validated the allocation of available unit resources. Committed errors or omissions that did not adversely affect mission accomplishment.

7.6.3. U. When directed by the BC, failed to correctly assess and report the unit's capabilities to accomplish the tasked mission using the Status of Resources and Training (SORTS) report IAW established directives. Committed errors or omissions in determining the Command Post (CP) personnel and communications requirements. Identified, with errors, the shortfalls and Limiting Factors (LIMFACs) for outsourcing. Failed to validate the allocation of available unit resources. Committed errors or omissions that could have adversely affected mission accomplishment.

7.7. AREA 5-BATTLE STAFF BRIEFING.

7.7.1. Q. Identified the information required for the Battle Commander's (BC) briefing to the unit's Battle Staff.

7.7.2. Q-. Identified the information required for the Battle Commander's (BC) briefing to the unit's Battle Staff. Committed errors or omissions that did not adversely affect mission accomplishment.

7.7.3. U. Identified the information required for the Battle Commander's (BC) briefing to the unit's Battle Staff with errors or omissions that could have adversely affected mission accomplishment.

7.8. AREA 6-BRIEFING EXTERNAL AGENCIES.

7.8.1. Q. When directed by the BC, assembled and prepared information for briefings with external agencies.

7.8.2. **Q-** When directed by the BC, assembled and prepared information for briefings with external agencies. Committed errors or omissions that did not adversely affect mission accomplishment

7.8.3. **U.** When directed by the BC, failed to assemble and prepare information for briefings with external agencies. Committed errors or omissions that could have adversely affected mission accomplishment.

7.9. AREA 7-SAFETY HAZARDS AND EQUIPMENT (CRITICAL).

7.9.1. **Q.** Located safety hazards in the Command Post (CP) and demonstrated proper use of safety equipment. Located electrical and fire safety hazards in the CP. Located and demonstrated proper use of safety board equipment and fire extinguishers.

7.9.2. **U-** Failed to locate safety hazards in the CP and demonstrated proper use of safety equipment. Failed to locate electrical and fire safety hazards in the CP. Failed to locate and/or demonstrate proper use of safety board equipment and fire extinguishers. Committed errors or omissions that could have resulted in an unsafe act and/or jeopardized mission accomplishment.

7.10. AREA 8-AUTOMATED DATA PROCESSING EQUIPMENT (ADPE) SYSTEM AND COMMUNICATIONS EQUIPMENT.

7.10.1. **Q.** Operated and supervised the overall operations of the ADPE system and communications equipment in the Command Post (CP), including the Theater Battle Management Core System (TBMCS), Automated Air Tasking Order (AATO) workstation, and the Simulator Workstation. Additionally, operated the URC-119 Pacer Bounce radio, the UGC-144 Communications Terminal, the SB-3865 Small Switchboard, the TA-312 Field Phone, the TA-935TT Digital Non-Secure Voice Terminal, the KY-58, the KY-68, the KYV-5, and the KY-75.

7.10.2. **Q-** Operated and supervised the overall operations of the ADPE system and communications equipment in the Command Post (CP), including the TBMCS, AATO workstation, and the Simulator Workstation. Additionally, operated the URC-119 Pacer Bounce radio, the UGC-144 Communications Terminal, the SB-3865 Small Switchboard, the TA-312 Field Phone, the TA-935TT Digital Non-Secure Voice Terminal, the KY-58, the KY-68, the KYV-5, and the KY-75. Committed errors or omissions that did not jeopardize mission accomplishment.

7.10.3. **U.** Failed to operate and/or supervise the overall operations of the ADPE system and communications equipment in the CP, including the TBMCS, AATO workstation, and the Simulator Workstation. Failed to operate the URC-119 Pacer Bounce radio, the UGC-144 Communications Terminal, the SB-3865 Small Switchboard, the TA-312 Field Phone, the TA-935TT Digital Non-Secure Voice Terminal, the KY-58, the KY-68, the KYV-5, and the KY-75. Committed errors or omissions that could have resulted in mission failure.

7.11. AREA 9-REPORTS.

7.11.1. **Q.** Provided the operations data required for the Commander's Situation Report (SITREP) and other reports, as directed by the BC.

7.11.2. **Q-** Provided the operations data required for the Commander's Situation Report (SITREP) and other reports, as directed by the BC. Committed errors or omissions that did not jeopardize mission accomplishment.

7.11.3. **U.** Failed to provide the operations data required for the Commander's Situation Report (SITREP) and/or other reports, as directed by the BC.

7.12. AREA 10-OPERATIONS (CRITICAL).

7.12.1. **Q.** Ensured the BC was kept up-to-date on the current operations situation during a live exercise or STE/JSTE with a complete mission crew, and at least one or more lateral and/or subordinate units, by providing briefings, as required, to the BC. Coordinated with the operations coordinator (OC) to insure the most current operations information was available in the CP. Ensured the operations section was aware of site configuration and pertinent information (Alert Condition status, Mission Oriented Protective Posture (MOPP) levels, etc). Coordinated with CRC support staff and provided informational updates on the status of support items and their impact on the tasked mission IAW AFI 13-1 MCS Vol. 3.

7.12.2. **U.** Failed to keep the BC up-to-date on the current operations situation during a live exercise or STE/JSTE with a complete mission crew and at least one or more lateral and/or subordinate units. Did not coordinate with the OC in the OM to insure the most current operations information was available in the CP. Failed to insure the operations section was aware of site configuration and pertinent information (Alert Condition status, Mission Oriented Protective Posture (MOPP) levels, etc). Failed to coordinate with CRC support staff and provide informational updates on the status of support items and their impact on the tasked mission IAW AFI13-1MCS Volume 3.

7.13. AREA 11-CREWMEMBER MANAGEMENT/SUPERVISION.

7.13.1. **Q.** Performed overall management/supervision of enlisted crewmembers. Resolved personnel issues as required.

7.13.2. **Q-.** Performed overall management/supervision of enlisted crewmembers. Resolved personnel issues as required. Committed errors or omission that did not result in mission failure.

7.13.3. **U.** Failed to perform overall management/supervision of enlisted crewmembers. Failed to resolve personnel issues as required. Committed errors or omissions that could have resulted in mission failure.

7.14. AREA 12-SECURITY OF CLASSIFIED MATERIALS (CRITICAL).

7.14.1. **Q.** Ensured communications security (COMSEC)/classified inventories were completed for all classified documents/materials in the CP. Issued COMSEC materials IAW applicable directives.

7.14.2. **U.** Failed to insure communications security (COMSEC)/classified inventories were completed for all classified documents/materials in the CP. Did not issue COMSEC materials IAW applicable directives. Committed errors or omissions that could have resulted in mission failure.

7.15. AREA 13-POSITIONAL CHANGEOVER BRIEF.

7.15.1. **Q.** Prepared and conducted a positional changeover briefing with the on-coming BSC IAW unit checklists and applicable directives. Reviewed factors, situations, and conditions having a bearing on the tasked mission before departing the position, briefed the on-coming BSC, and ensured items necessary for the effective conduct of tasked missions were understood by the on-coming BSC.

7.15.2. **Q-** Prepared and conducted a positional changeover briefing with the on-coming BSC IAW unit checklists and applicable directives. Reviewed factors, situations, and conditions having a bearing on the tasked mission before departing the position, briefed the on-coming BSC, and ensured items necessary for the effective conduct of tasked missions were understood by the on-coming BSC. Committed errors or omissions that did not adversely affect mission accomplishment.

7.15.3. **U.** Failed to prepare or conduct a positional changeover briefing with the on-coming BSC. Failed to follow unit checklists and applicable directives concerning changeover briefings. Failed to insure that items necessary for the effective conduct of tasked missions were understood by the on-coming BSC before departing the position. Committed errors or omissions that could have jeopardized mission accomplishment.

7.16. AREA 14-DEBRIEFING EXTERNAL AGENCIES.

7.16.1. **Q.** Assembled and prepared information, as directed by the BC, for debriefing with external agencies.

7.16.2. **Q-** Assembled and prepared information, as directed by the BC, for debriefing with external agencies. Committed errors or omissions that did not adversely affect mission accomplishment

7.16.3. **U.** Failed to assemble and/or prepare information, as directed by the BC, for debriefing with external agencies. Committed errors or omissions that could have adversely affected mission accomplishment.

Chapter 8

OPERATIONS COORDINATOR QUALIFICATION EVALUATION

Section 8A—Instructions

8.1. General.

8.1.1. This chapter contains the criteria specifying the tasks required of a qualified Operations Coordinator (OC).

8.1.2. Certain areas contain performance tasks that require a degree of knowledge/proficiency that is mandatory for successful mission accomplishment and to ensure safety of flight. Consequently, an “Unqualified” score in any “Critical” area will result in an overall grade of “Unqualified.”

8.1.3. OC personnel will be evaluated during a locally generated exercise or STE/JSTE with a full operational crew. When possible, the evaluation should be conducted during an exercise or STE/JSTE involving at least one or more external TACS units. Tasks not evaluated during the exercise or STE/JSTE will be evaluated individually while the examinee is at the OC duty position.

8.2. Evaluation Objective. The examinee must demonstrate the ability to accomplish all OC duties safely and effectively IAW technical orders, applicable operations directives and MAJCOM Standardization Evaluation Checklists.

Section 8B—Qualification Criteria

8.3. AREA 1-MISSION PLANNING DOCUMENT EXTRACTION.

8.3.1. **Q.** Extracted from mission planning documents, as directed by the MCC, information required to plan and to execute the tasked mission IAW AFTTP 3-1 and applicable operations directives.

8.3.2. **Q-.** Extracted from mission planning documents, as directed by the MCC, information required to plan and to execute the tasked mission. Committed errors or omissions that did not adversely affect mission accomplishment.

8.3.3. **U.** Failed to extract from mission planning documents, as directed by the MCC, information required to plan and to execute the tasked mission. Committed errors or omissions that could have jeopardized mission accomplishment.

8.4. AREA 2-MAPS AND REFERENCE SYSTEMS.

8.4.1. **Q.** Determined coordinates on maps using different coordinate reference systems. Located a position by AZRAN from a given point on a map. Determined the LAT/LONG coordinates of a point on a map. Converted a LAT/LONG coordinate into a GEOREF coordinate.

8.4.2. **Q-.** Determined coordinates on maps using different coordinate reference systems. Located a position by AZRAN from a given point on a map. Determined the LAT/LONG coordinates of a point on a map. Converted a LAT/LONG coordinate into a GEOREF coordinate. Committed errors or omissions that did not adversely affect mission accomplishment.

8.4.3. U. Failed to determine coordinates on maps using different coordinate reference systems. Failed to locate a position by AZRAN from a given point on a map. Failed to determine the LAT/LONG coordinates of a point on a map. Failed to convert a LAT/LONG coordinate into a GEOREF coordinate. Committed errors or omissions that could have jeopardized mission accomplishment.

8.5. AREA 3-EMPLOYMENT PLAN DEVELOPMENT.

8.5.1. Q. Compiled information, as directed by the MCC, to develop the unit's employment plan.

8.5.2. Q-. Compiled information, as directed by the MCC, to develop the unit's employment plan. Committed errors or omissions that did not adversely affect mission accomplishment.

8.5.3. U. Failed to compile information, as directed by the MCC, to develop the unit's employment plan. Committed errors or omissions that could have jeopardized mission accomplishment.

8.6. AREA 4-BATTLE STAFF BRIEFING.

8.6.1. Q. Identified the information required for the BC briefing to the unit's Battle Staff.

8.6.2. Q-. Identified the information required for the BC briefing to the unit's Battle Staff. Committed errors or omissions that did not adversely affect mission accomplishment.

8.6.3. U. Identified the information required for the BC briefing to the unit's Battle Staff with errors or omissions that could have adversely affected mission accomplishment.

8.7. AREA 5-CREW BRIEFINGS.

8.7.1. Q. Assisted in the preparation of information required for a crew briefing.

8.7.2. Q-. Assisted in the preparation of information required for a crew briefing. Committed errors or omissions that did not jeopardize mission accomplishment.

8.7.3. U. Assisted in the preparation of information required for a crew briefing. Committed errors or omissions that could have jeopardized mission accomplishment.

8.8. AREA 6-BRIEFING EXTERNAL AGENCIES.

8.8.1. Q. Assembled and prepared information, as directed by the MCC, for briefings with external agencies.

8.8.2. Q-. Assembled and prepared information, as directed by the MCC, for briefings with external agencies. Committed errors or omissions that did not adversely affect mission accomplishment.

8.8.3. U. Failed to assemble and/or prepare information, as directed by the MCC, for briefings with external agencies. Committed errors or omissions that could have adversely affected mission accomplishment.

8.9. AREA 7-SAFETY HAZARDS AND EQUIPMENT (CRITICAL).

8.9.1. Q. Located safety hazards in the assigned work area and demonstrated proper use of safety equipment. Located electrical, fire and radiation safety hazards in the assigned work area. Located and demonstrated proper use of safety board equipment and fire extinguishers.

8.9.2. **U.** Failed to locate safety hazards in the assigned work area and failed to demonstrate proper use of safety equipment. Failed to locate electrical, fire and radiation safety hazards in the assigned work area. Failed to locate and/or demonstrate proper use of safety board equipment and fire extinguishers. Committed errors or omissions that could have resulted in an unsafe act and/or jeopardized mission accomplishment.

8.10. AREA 8-MISSION ESSENTIAL EQUIPMENT AND SUPPLIES.

8.10.1. **Q.** Ensured all necessary equipment and supplies were available for operations activities IAW AFI13-1MCSV3. Maintained appropriate displays and records for briefings IAW AFI13-1MCSV3.

8.10.2. **Q-** Ensured all necessary equipment and supplies were available for operations activities IAW AFI13-1MCSV3. Maintained appropriate displays and records for briefings IAW AFI13-1MCSV3. Committed errors or omissions that did not adversely impact mission accomplishment.

8.10.3. **U.** Failed to insure all necessary equipment and supplies were available for operations activities IAW AFI13-1MCSV3. Failed to maintain the appropriate displays and records for briefings IAW AFI13-1MCSV3. Committed errors or omissions that could have caused mission failure.

8.11. AREA 9-REPORTS.

8.11.1. **Q.** Prepared and released operational reports IAW AFI13-1MCSV3, Chapters 5 and 6.

8.11.2. **Q-** Prepared and released operational reports IAW AFI13-1MCSV3, Chapters 5 and 6. Committed errors or omissions that did not jeopardize mission accomplishment.

8.11.3. **U.** Failed to prepare and/or release operational reports IAW AFI13-1MCSV3, Chapters 5 and 6. Committed errors or omissions that could have resulted in mission failure.

8.12. AREA 10-OPERATIONS (CRITICAL).

8.12.1. **Q.** Ensured current operational information was available to the MCC in the OM during a live exercise or STE/JSTE with a complete mission crew and at least one or more lateral and/or subordinate units. Directed the flow of information into and out of the Mission Planning Center (MPC). Responded to the needs of the MCC for information. Maintained the operations logbook IAW AFI13-1MCSV3. Served as the single point of contact for reporting all MCS equipment problems/outages to Job Control. Entered job control numbers (JCNs) in the operations logbook. Coordinated with Job Control and tracked estimated time to return operational (ETRO) status and advised the MCC and Air Surveillance Technician (AST) on the operational impact of outages.

8.12.2. **U.** Failed to insure current operational information was available to the MCC in the OM during a live exercise or STE/JSTE with a complete mission crew and at least one or more lateral and/or subordinate units. Failed to direct the flow of information into and out of the MPC. Did not respond to the needs of the MCC for information. Failed to maintain the operations logbook IAW AFI13-1MCSV3. Committed errors or omissions that could have resulted in mission failure when reporting MCS equipment problems/outages to Job Control. Did not enter JCNs in the operations logbook. Failed to coordinate with Job Control and track ETRO status and/or advise the MCC and AST on the operational impact of outages. Committed errors or omissions that could have caused mission failure.

8.13. AREA 11-WEATHER.

8.13.1. **Q.** Ensured current weather and winds aloft were reported to the data systems technician (DST) for entry into the MCE database IAW AFI13-1MCSV3.

8.13.2. **Q-** Ensured current weather and winds aloft were reported to the DST for entry into the MCE database IAW AFI13-1MCSV3. Committed errors or omissions that did not adversely impact mission accomplishment.

8.13.3. **U.** Failed to insure current weather and winds aloft were reported to the DST for entry into the MCE database IAW AFI13-1MCSV3. Committed errors or omissions that could have adversely impacted mission accomplishment.

8.14. AREA 12-SECURITY OF CLASSIFIED MATERIALS (CRITICAL).

8.14.1. **Q.** Ensured communications security (COMSEC)/classified inventories were completed. Issued COMSEC materials IAW applicable directives.

8.14.2. **U.** Failed to insure communications security (COMSEC)/classified inventories were completed. Did not issue COMSEC materials IAW applicable directives. Committed errors or omissions that could have resulted in mission failure.

8.15. AREA 13-POSITIONAL CHANGEOVER BRIEF.

8.15.1. **Q.** Prepared and conducted a positional changeover briefing with the on-coming OC IAW unit checklists and applicable directives. Reviewed factors, situations, and conditions having a bearing on operations before leaving the duty position, briefed the on-coming OC, and ensured items necessary for the effective conduct of tasked mission were understood by the on-coming OC.

8.15.2. **Q-** Prepared and conducted a positional changeover briefing with the on-coming OC IAW unit checklists and applicable directives. Reviewed factors, situations, and conditions having a bearing on operations before leaving the duty position, briefed the on-coming OC, and ensured items necessary for the effective conduct of tasked mission were understood by the on-coming OC. Committed errors or omissions that did not adversely affect mission accomplishment.

8.15.3. **U.** Failed to prepare or conduct a positional changeover briefing with the on-coming OC. Failed to follow unit checklists and applicable directives concerning changeover briefings. Failed to reviewed factors, situations, and conditions having a bearing on operations before leaving the duty position. Failed to ensure that items necessary for the effective conduct of tasked missions were understood by the on-coming OC before leaving the duty position. Committed errors or omissions that could have jeopardized mission accomplishment.

8.16. AREA 14-CREW CHANGEOVER BRIEF.

8.16.1. **Q.** Prepared a crew changeover brief as directed by the MCC IAW AFI13-1MCSV3.

8.16.2. **Q-** Prepared a crew changeover brief as directed by the MCC IAW AFI13-1MCSV3. Committed errors or omissions that did not adversely impact mission accomplishment.

8.16.3. **U.** Failed to prepare a crew changeover brief as directed by the MCC IAW AFI13-1MCSV3. Committed errors or omissions that could have resulted in mission failure.

8.17. AREA 15-DEBRIEFING WITH EXTERNAL AGENCIES.

8.17.1. **Q.** Assembled and prepared information, as directed by the MCC, for debriefing with external agencies.

8.17.2. **Q-** Assembled and prepared information, as directed by the MCC, for debriefing with external agencies. Committed errors or omissions that did not adversely affect mission accomplishment

8.17.3. **U.** Failed to assemble and/or prepare information, as directed by the MCC, for debriefing with external agencies. Committed errors or omissions that could have adversely affected mission accomplishment.

Chapter 9

AIR SURVEILLANCE TECHNICIAN QUALIFICATION EVALUATION

Section 9A—Instructions

9.1. General.

9.1.1. This chapter contains the criteria specifying the tasks required of a qualified Air Surveillance Technician (AST).

9.1.2. Certain areas contain performance tasks that require a degree of knowledge/proficiency that is mandatory for successful mission accomplishment and to ensure safety of flight. Consequently, an “Unqualified” score in any “Critical” area will result in an overall grade of “Unqualified.”

9.1.3. AST personnel will be evaluated during a locally generated STE/JSTE with a full surveillance crew. The evaluation should be conducted during an exercise or STE/JSTE involving at least one or more other TACS units. As a minimum, at least one live Tactical Digital Information Link (TADIL) J, A or B link will be used to conduct the evaluation. When possible, the evaluation will be conducted in an electronic and communication jamming environment. Tasks not evaluated during the exercise or STE/JSTE will be evaluated individually while the examinee is on console.

9.2. Evaluation Objective. The examinee must demonstrate the ability to accomplish all AST duties safely and effectively IAW technical orders and applicable operations directives.

Section 9B—Qualification Criteria

9.3. AREA 1-MISSION PLANNING.

9.3.1. **Q.** Supervised surveillance team mission planning efforts. Determined mission tasking, ID criteria, AOR, data link requirements, communications requirements, and surveillance plans from mission planning documents. Verified equipment status with Job Control. Planned surveillance manning to meet mission tasking. Read and initialed all items in the OIF and read files.

9.3.2. **Q-** Supervised surveillance team mission planning efforts. Determined mission tasking, ID criteria, AOR, data link requirements, communications requirements, and surveillance plans from mission planning documents. Verified equipment status with Job Control. Planned surveillance manning to meet mission tasking. Read and initialed all items in the OIF and read files. Committed errors or omissions that did not adversely affect mission accomplishment.

9.3.3. **U.** Failed to supervise surveillance team mission planning efforts. Failed to determine mission tasking, ID criteria, AOR, data link requirements, communications requirements, and surveillance plans from mission planning documents. Failed to verify equipment status with Job Control. Failed to plan surveillance manning to meet mission tasking. Failed to read and initial all items in the OIF and read files. Committed errors or omissions that could have jeopardized mission accomplishment.

9.4. AREA 2-REFERENCE SYSTEMS.

9.4.1. **Q.** Determined coordinates using different coordinate reference systems. Located a position by AZRAN from a given point on a map. Determined LAT/LONG coordinates for a position on a map. Converted a LAT/LONG coordinate into a GEOREF coordinate.

9.4.2. **Q-.** Determined coordinates using different coordinate reference systems. Located a position by AZRAN from a given point on a map. Determined LAT/LONG coordinates for a position on a map. Converted a LAT/LONG coordinate into a GEOREF coordinate. Committed errors or omissions that did not adversely affect mission accomplishment.

9.4.3. **U.** Failed to determine coordinates using different coordinate reference systems. Failed to locate a position by AZRAN from a given point on a map. Failed to determine LAT/LONG coordinates for a position on a map. Failed to convert a LAT/LONG coordinate into a GEOREF coordinate. Committed errors or omissions that could have jeopardized mission accomplishment.

9.5. AREA 3-CREW BRIEFING.

9.5.1. **Q.** Assisted in the conduct of the surveillance portion of the crew briefing as required. Ensured all surveillance/ID personnel were aware of mission objectives.

9.5.2. **Q-.** Assisted in the conduct of the surveillance portion of the crew briefing as required. Ensured all surveillance/ID personnel were aware of mission objectives. Committed errors or omissions that did not adversely affect mission accomplishment.

9.5.3. **U.** Failed to assist in the conduct of the surveillance portion of the crew briefing as required. Failed to ensure all surveillance/ID personnel were aware of mission objectives. Committed errors or omissions that could have jeopardized mission accomplishment.

9.6. AREA 4-SAFETY HAZARDS (CRITICAL).

9.6.1. **Q.** Located safety hazards and demonstrated proper use of safety equipment. Located electrical, fire, and radiation safety hazards in the OM. Located and demonstrated the proper use of safety equipment and fire extinguishers. Located and explained the use of the OM MASTER OFF switch.

9.6.2. **U.** Failed to locate safety hazards and/or demonstrate proper use of safety equipment. Failed to locate electrical, fire, and radiation safety hazards in the OM. Failed to locate and demonstrate proper use of safety board equipment and/or fire extinguishers. Failed to locate and explain the use of the OM MASTER OFF switch. Committed errors or omissions that could have resulted in an unsafe act and jeopardized mission accomplishment.

9.7. AREA 5-R/RU SET UP AND OPERATION.

9.7.1. **Q.** Located Recorder/Reproducer Unit (R/RU) controls and indicators. Located and played back audio recordings. Prepared R/RU and loaded voice recording tapes. Ensured R/RU was operational at the start of the shift.

9.7.2. **Q-.** Located R/RU controls and indicators. Located and played back audio recordings. Prepared R/RU and loaded voice recording tapes. Ensured R/RU was operational at the start of the shift. Committed errors or omissions that did not adversely affect mission accomplishment.

9.7.3. **U.** Failed to locate R/RU controls and indicators. Failed to locate and playback audio recordings. Failed to prepare the R/RU. Failed to load voice recording tapes. Failed to ensure the R/RU was

operational at the start of the shift. Committed errors or omissions that could have jeopardized mission accomplishment.

9.8. AREA 6-PRU SET UP AND OPERATION.

9.8.1. **Q.** Located Printer Unit (PRU) controls and indicators. Ensured PRU was set up and operated IAW unit instructions.

9.8.2. **Q-.** Located PRU controls and indicators. Ensured PRU was set up and operated IAW unit instructions. Committed errors or omissions that did not adversely affect mission accomplishment.

9.8.3. **U.** Failed to locate PRU controls and/or indicators. Failed to ensure PRU was set up and/or operated IAW unit instructions. Committed errors or omissions that could have jeopardized mission accomplishment.

9.9. AREA 7-COMMUNICATIONS.

9.9.1. **Q.** Configured OM radios for communications. Ensured radios were powered. Ensured radio frequencies were assigned to meet mission requirements. Ensured cryptographic radio equipment was loaded and configured for mission. Configured VCAU for operations as needed. Located and explained VCAU controls and indicators. Accessed VCAU communications as needed.

9.9.2. **Q-.** Configured OM radios for communications. Ensured radios were powered. Ensured radio frequencies were assigned to meet mission requirements. Ensured cryptographic radio equipment was loaded and configured for mission. Configured VCAU for operations as needed. Located and explained VCAU controls and indicators. Accessed VCAU communications as needed. Committed errors or omissions that did not adversely affect mission accomplishment.

9.9.3. **U.** Failed to configure OM radios for communications. Failed to ensure radios were powered. Failed to ensure radio frequencies were assigned to meet mission requirements. Failed to ensure cryptographic radio equipment was loaded and configured for mission. Failed to configure VCAU communications as needed. Failed to locate and explain VCAU controls and indicators. Failed to access VCAU communications as needed. Committed errors or omissions that could have jeopardized mission accomplishment.

9.10. AREA 8-OCU SET UP.

9.10.1. **Q.** Set up and operated the OCU IAW checklists. Located and explained OCU controls and indicators. Used switch actions to customize the OCU presentation for optimal situational awareness.

9.10.2. **Q-.** Set up and operated the OCU IAW checklists. Located and explained OCU controls and indicators. Used switch actions to customize the OCU presentation for optimal situational awareness. Committed errors or omissions that did not adversely affect mission accomplishment.

9.10.3. **U.** Failed to set up and operate the OCU. Failed to comply with checklist. Failed to locate and explain OCU controls and indicators. Failed to use switch actions to customize the OCU presentation for optimal situational awareness. Committed errors or omissions that could have jeopardized mission accomplishment.

9.11. AREA 9-DATA BASE INITIALIZATION.

9.11.1. **Q.** Supervised data base initialization.

9.11.2. **Q-** Supervised data base initialization. Committed errors or omissions that did not adversely affect mission accomplishment.

9.11.3. **U.** Failed to supervise data base initialization. Committed errors or omissions that could have jeopardized mission accomplishment.

9.12. AREA 10-AIR PICTURE MAINTENANCE (CRITICAL).

9.12.1. **Q.** Established, maintained and forwarded a recognizable air picture to the AOC and other C² assets in theater as directed. Interpreted track symbols and modifiers. Read and interpreted information in the HDRO. Used switch actions associated with initiating and maintaining tracks. Used switch actions to hook tracks on the OCU as needed. Used switch actions to maintain an accurate air surveillance picture. Ensured information about anomalous propagation was called to the attention of the ASO.

9.12.2. **U.** Failed to establish, maintain, and forward a recognizable air picture to the AOC and other C² assets in theater as directed. Failed to interpret track symbols and modifiers. Failed to use switch actions to maintain an accurate air surveillance picture. Failed to ensure information about anomalous propagation was called to the attention of the ASO. Committed errors or omissions that could have jeopardized mission accomplishment.

9.13. AREA 11-SENSOR OPERATIONS (CRITICAL).

9.13.1. **Q.** Ensured sensors were configured and optimized to accomplish mission. Recognized and analyzed degraded system performance.

9.13.2. **U.** Failed to ensure sensors were configured and optimized to accomplish mission. Failed to recognize and analyze degraded system performance. Committed errors or omissions that could have jeopardized mission accomplishment.

9.14. AREA 12-INTERNAL/EXTERNAL COORDINATION (CRITICAL).

9.14.1. **Q.** Coordinated ID activities with adjacent air traffic control facilities. Disseminated flight plan information to adjacent and subordinate units. Initiated forward tell operations during Level 3 and/or Level 4 environments IAW Joint Tactical Air Operations (JTAO) Handbook.

9.14.2. **U.** Failed to coordinate ID activities with adjacent air traffic control facilities. Failed to disseminate flight plan information to adjacent and subordinate units. Failed to initiate forward tell operations during Level 3 and/or Level 4 environments. Failed to comply with the JTAO Handbook when conducting forward tell operations. Committed errors or omissions that could have jeopardized mission accomplishment.

9.15. AREA 13-DATA LINK OPERATIONS (CRITICAL).

9.15.1. **Q.** Ensured the DCN was used for data link operations. Recommended changes in data link configuration to the ASO as appropriate. Managed data links IAW OPTASKLINK. Managed and directed TADIL-A, TADIL-B, and a TADIL-J data links. Coordinated with the ASO on data link changes. Analyzed and conducted troubleshooting of data link problems. Monitored DCN and/or track supervision net.

9.15.2. U. Failed to ensure the DCN was used for data link operations. Failed to recommend appropriate changes in data link configuration to the ASO. Failed to comply with OPTASKLINK when managing data links. Failed to manage and/or direct TADIL-A, TADIL-B, and/or TADIL-J data links. Failed to coordinate with ASO on data link changes. Failed to analyze and conduct troubleshooting of data link problems. Failed to monitor DCN and track supervision net. Committed errors or omissions that could have jeopardized mission accomplishment.

9.16. AREA 14-SURVEILLANCE SUPERVISION (CRITICAL).

9.16.1. Q. Supervised link management, detection, tracking, and ID of all air traffic within the AOR during a live or System Training Exercise (STE) with a full mission crew and at least one or more lateral and/or subordinate units. Ensured ID procedures were properly executed in a timely manner by Surveillance Technicians (STs). Ensured all tracks were properly identified. Directed surveillance functions. Ensured surveillance team built track filters as required. Ensured R/RU and PRU were operated IAW unit directives. Provided MCS alternative configurations to the ASO as necessary. Ensured surveillance team compliance with SPINS, ROE and/or ACO procedures. Directed data base operations. Coordinated all Removable Interchangeable Media Module (RIMM) read and write activities. Coordinated all system reset and/or IPLs as directed by the ASO.

9.16.2. U. Failed to supervise link management, detection, tracking, and/or ID of all air traffic within the AOR during a live or System Training Exercise (STE) with a full mission crew and at least one or more lateral and/or subordinate units. Failed to ensure ID procedures were properly executed in a timely manner by STs. Failed to ensure all tracks were properly identified. Failed to direct surveillance functions. Failed to ensure R/RU and PRU were operated IAW unit directives. Failed to provide MCS alternative configurations to the ASO as necessary. Failed to ensure surveillance team built track filters as required. Failed to ensure surveillance team complied with SPINS, ROE, and/or ACO procedures. Failed to direct data base operations. Failed to coordinate all RIMM read and/or write activities. Failed to coordinate all system reset and/or IPLs as directed by the ASO. Committed errors or omissions that could have jeopardized mission accomplishment.

9.17. AREA 15-ELECTRONIC PROTECTION (EP) OPERATIONS (CRITICAL).

9.17.1. Q. Notified the ASO immediately whenever EA or EMI was observed and/or reported. Ensured applicable jamming strobes were displayed when EA occurred. Directed the electronic protection technician (EPT) to coordinate with other EPTs to determine if EA occurred at other locations. Entered and updated jammer points (fixes) at suspected EA emitter locations. Entered appropriate jammer tracks in place of jammer points (fixes) when correlation was determined. Directed the EPT to conduct EP functions as necessary to counter EA and negate or reduce presentation degradation.

9.17.2. U. Failed to immediately notify the ASO when EA and/or EMI was observed or reported. Failed to ensure applicable jamming strobes were displayed when EA occurred. Failed to direct the EPT to coordinate with other EPTs to determine if EA was occurring at other locations. Failed to enter and update jammer points (fixes) at suspected EA emitter locations. Failed to enter appropriate jammer tracks in place of jammer points (fixes) when correlation was determined. Failed to direct the EPT to conduct EP functions as necessary to counter EA and negate or reduce presentation degradation. Committed errors or omissions that could have jeopardized mission accomplishment.

9.18. AREA 16-SYSTEM OPERATIONS.

9.18.1. **Q.** Monitored preventive maintenance (PM) & Test functions for system degradation. Coordinated equipment discrepancies with Job Control through the OC.

9.18.2. **Q-** Monitored PM & Test functions for system degradation. Coordinated equipment discrepancies with Job Control through the OC. Committed errors or omissions that did not adversely affect mission accomplishment.

9.18.3. **U.** Failed to monitor PM & Test functions for system degradation. Failed to coordinate equipment discrepancies with Job Control through the OC. Committed errors or omissions that could have jeopardized mission accomplishment.

9.19. AREA 17-EMERGENCIES (CRITICAL).

9.19.1. **Q.** Supervised surveillance responses to an ARM attack. Recognized and/or received ARM attack profile warning and notified the ASO. Supervised ARM decoy employment actions to counter ARM attack. Ensured compliance with ARM attack checklist. Recognized the existence of an emergency situation. Ensured surveillance team compliance with aircraft emergency checklists. Coordinated emergency response actions with ASO and SD as appropriate. Entered the appropriate emergency point on scope.

9.19.2. **U.** Failed to supervise surveillance responses to an ARM attack. Failed to recognize and/or receive ARM attack profile warning. Failed to notify ASO of ARM attack profile or warning. Failed to supervise ARM decoy employment actions to counter an ARM attack. Failed to ensure compliance with the ARM attack checklist. Failed to recognize the existence of an emergency situation. Failed to ensure surveillance team complied with aircraft emergency checklists. Failed to coordinate emergency response actions with ASO and SD as appropriate. Failed to enter the appropriate emergency point on the scope. Committed errors or omissions that could have jeopardized mission accomplishment.

9.20. AREA 18-COMSEC/AUTHENTICATION (CRITICAL).

9.20.1. **Q.** Recognized and countered various types of communications jamming. Authenticated voice transmissions within time limits specified on authenticators.

9.20.2. **U.** Failed to recognize and/or counter various types of communications jamming. Failed to authenticate voice transmissions within time limits specified on authenticators. Committed errors or omissions that could have jeopardized mission accomplishment.

9.21. AREA 19-SECURITY OF CLASSIFIED MATERIALS (CRITICAL).

9.21.1. **Q.** Used and controlled classified materials IAW established security procedures.

9.21.2. **U.** Failed to use and/or control classified materials IAW established security procedures. Committed errors or omissions that could have jeopardized mission accomplishment.

9.22. AREA 20-WEATHER.

9.22.1. **Q.** Maintained current meteorological information as required. Accessed, interpreted, and entered weather information into the data base. Extracted weather information from a weather report. Read and interpreted weather information on the auxiliary display unit (ADU).

9.22.2. **Q-** Maintained current meteorological information as required. Accessed, interpreted, and entered weather information into the data base. Extracted information from a weather report. Read and interpreted weather information on the ADU. Committed errors or omissions that did not adversely affect mission accomplishment.

9.22.3. **U.** Failed to maintain current meteorological information as required. Failed to access, interpret, and/or enter weather information into the data base. Failed to extract weather information from a weather report. Failed to read and/or interpret weather information displayed on the ADU. Committed errors or omissions that could have jeopardized mission accomplishment.

9.23. AREA 21-DATA REDUCTION.

9.23.1. **Q.** Performed mission data reduction as directed by the ASO.

9.23.2. **Q-** Performed mission data reduction as directed by the ASO. Committed errors or omissions that did not adversely affect mission accomplishment.

9.23.3. **U.** Failed to perform mission data reduction when directed by the ASO. Committed errors or omissions that could have jeopardized mission accomplishment.

9.24. AREA 22-DOCUMENTATION.

9.24.1. **Q.** Ensured the surveillance logbook was maintained IAW AFI 13-1MCS, Volume 3. Ensured recording tapes were documented IAF AFI 13-1MCS, Volume 3. Annotated tape start numbers, start times, dates, Zulu times, and name in the operations logbook. Ensured recording tapes were marked, handled, and stored IAW AFI 31-402 and DoD directive 5200.1R. Ensured the EPT submitted required EMI and EA reports as required.

9.24.2. **Q-** Ensured the surveillance logbook was maintained IAW AFI 13-1MCS, Volume 3. Ensured recording tapes were documented IAW AFI 13-1MCS, Volume 3. Annotated tape start numbers, start times, dates, Zulu times, and name in the operations logbook. Ensured recording tapes were marked, handled, and stored IAW AFI 31-402 and DoD directive 5200.1R. Ensured the EPT submitted EMI and EA reports as required. Committed errors or omissions that did not adversely affect mission accomplishment.

9.24.3. **U.** Failed to ensure the surveillance logbook was maintained. Failed to comply with AFI 13-1MCS, Volume 3 when maintaining surveillance logbook. Failed to ensure recording tapes were documented. Failed to comply with AFI 13-1 MCS, Volume 3 when documenting recording tapes. Failed to annotate tape start numbers, start times, dates, Zulu times, and/or name in the operations logbook. Failed to ensure recording tapes were marked, handled, and/or stored as required by AFI 31-402 and DoD Directive 5200.1R. Failed to ensure the EPT submitted EMI and/or EA reports as required. Committed errors or omissions that could have jeopardized mission accomplishment.

9.25. AREA 23-POSITIONAL CHANGEOVER BRIEF.

9.25.1. **Q.** Briefed the relieving AST on the current operational situation before departing position. Conducted positional changeover briefing IAW checklist.

9.25.2. **Q-** Briefed the relieving AST on the current operational situation before departing position. Conducted positional changeover briefing IAW checklist. Committed errors or omissions that did not adversely affect mission accomplishment.

9.25.3. **U.** Failed to brief the relieving AST on the current operational situation before departing position. Failed to follow checklist when conducting positional changeover briefing. Committed errors or omissions that could have jeopardized mission accomplishment.

9.26. AREA 24-CREW DEBRIEFING.

9.26.1. **Q.** Assisted in reconstructing mission events. Assisted in determining surveillance lessons learned. Assisted in conducting the surveillance portion of the crew debriefing as necessary.

9.26.2. **Q-.** Assisted in reconstructing mission events. Assisted in determining surveillance lessons learned. Assisted in conducting the surveillance portion of the crew debriefing as necessary. Committed errors or omissions that did not adversely affect mission accomplishment.

9.26.3. **U.** Failed to assist in reconstructing mission events. Failed to assist in determining surveillance lessons learned. Failed to assist in conducting the surveillance portion of the crew debriefing as necessary. Failed to assist in reconstructing mission events. Failed to assist in determining surveillance lessons learned. Committed errors or omissions that could have jeopardized mission accomplishment.

Chapter 10

ELECTRONIC PROTECTION TECHNICIAN QUALIFICATION EVALUATION

Section 10A—Instructions

10.1. General.

10.1.1. This chapter contains the criteria specifying the tasks required of a qualified Electronic Protection Technician (EPT).

10.1.2. Certain areas contain performance tasks that require a degree of knowledge/proficiency that is mandatory for successful mission accomplishment and to ensure safety of flight. Consequently, an “Unqualified” score in any “Critical” area will result in an overall grade of “Unqualified.”

10.1.3. EPT personnel will be evaluated during daily operations or during a locally generated exercise/STE/JSTE. The evaluation will include participation of at least one external agency. When possible, the evaluation will be conducted in a radar jamming environment. Tasks not evaluated during the exercise/STE/JSTE will be evaluated individually while the examinee is on console.

10.2. Evaluation Objective. The examinee must demonstrate the ability to accomplish EPT duties safely and effectively IAW technical orders and applicable operations directives.

Section 10B—Qualification Criteria

10.3. AREA 1-MISSION PLANNING.

10.3.1. **Q.** Extracted information from mission planning documents needed to execute the tasked mission IAW AFTTP 3-1 and applicable operations directives as directed by the ASO/AST. Read and initialed all items in the OIF and/or read files.

10.3.2. **Q-** Extracted information from mission planning documents needed to execute the tasked mission IAW AFTTP 3-1 and applicable operations directives as directed by the ASO/AST. Read and initialed all items in the OIF and/or read files. Committed errors or omissions that did not adversely affect mission accomplishment.

10.3.3. **U.** Failed to extract information from mission planning documents needed to execute the tasked mission IAW AFTTP 3-1 and applicable operations directives as directed by the ASO/AST. Failed to read and/or initial all items in the OIF and/or read files. Committed errors or omissions that could have jeopardized mission accomplishment.

10.4. AREA 2-MAPS AND REFERENCE SYSTEMS.

10.4.1. **Q.** Determined coordinates on maps using different coordinate reference systems. Located a position by AZRAN from a given point on a map. Determined the LAT/LONG coordinates of a point on a map. Converted a LAT/LONG coordinate into a GEOREF coordinate.

10.4.2. **Q-** Determined coordinates on maps using different coordinate reference systems. Located a position by AZRAN from a given point on a map. Determined the LAT/LONG coordinates of a point on a map. Converted a LAT/LONG coordinate into a GEOREF coordinate. Committed errors or omissions that did not adversely affect mission accomplishment.

10.4.3. U. Failed to determine coordinates on maps using different coordinate reference systems. Failed to location a position by AZRAN from a given point on a map. Failed to determine the LAT/LONG coordinates of a point on a map. Failed to convert a LAT/LONG coordinate into a GEOREF coordinate. Committed errors or omissions that could have jeopardized mission accomplishment.

10.5. AREA 3-SAFETY HAZARDS AND EQUIPMENT (CRITICAL).

10.5.1. Q. Located safety hazards and demonstrated proper use of safety equipment. Located electrical, fire and radiation safety hazards in the AN/TPS-75 radar van. Located and demonstrated proper use of safety board equipment and fire extinguishers. Located and explained the use of the AN/TPS-75 radar van Main Power Interrupt switch.

10.5.2. U. Failed to locate safety hazards and demonstrate proper use of safety equipment. Failed to locate electrical, fire and safety hazards in the AN/TPS-75 radar van. Failed to locate and/or demonstrate proper use of safety board equipment and fire extinguishers. Failed to locate and explain the use of the AN/TPS-75 radar van Main Power Safety Interrupt switch. Committed errors or omissions that could have resulted in an unsafe act and/or jeopardized mission accomplishment.

10.6. AREA 4-COMMUNICATIONS.

10.6.1. Q. Set up and operated AN/TPS-75 radios. Ensured AN/TPS-75 radar van radios were powered. Ensured mission frequencies were set in radios. Ensured cryptographic radios were configured as required. Setup and operated the VCAU IAW unit checklists. Located and explained VCAU controls and indicators. Configured the VCAU for operations as required. Accessed VCAU communications as needed.

10.6.2. Q-. Set up and operated AN/TPS-75 radios. Ensured AN/TPS-75 radar van radios were powered IAW unit checklists. Ensured mission frequencies were set in radios. Ensured cryptographic radios were configured as required. Setup and operated the VCAU IAW unit checklists. Located and explained VCAU controls and indicators. Configured the VCAU for operations as required. Accessed VCAU communications as needed. Committed errors or omissions that did not adversely affect mission accomplishment.

10.6.3. U. Failed to set up and/or operate AN/TPS-75 radios. Failed to ensure AN/TPS-75 radar van radios were powered. Failed to ensure missions frequencies were set in radios. Failed to ensure cryptographic radios were configured as required. Failed to setup and operate the VCAU IAW unit checklists. Failed to comply with unit checklists. Could not locate and explain VCAU controls or indicators. Failed to configure the VCAU for operations as required. Failed to access VCAU communications as needed. Committed errors or omissions that could have jeopardized mission accomplishment.

10.7. AREA 5-SDC SETUP AND OPERATION.

10.7.1. Q. Setup and operated the Situation Display Console (SDC) IAW unit checklists. Located and explained SDC controls and indicators. Customized SDC presentation for optimum situational awareness. Interpreted the message and data block on the SDC.

10.7.2. Q-. Setup and operated the SDC IAW unit checklists. Located and explained SDC controls and indicators. Customized SDC presentation for optimum situational awareness. Interpreted the message and data block on the SDC. Committed errors or omissions that did not adversely affect mission accomplishment.

10.7.3. U. Failed to setup and operate the SDC IAW unit checklists. Failed to comply with unit criteria. Could not locate and explain SDC controls or indicators. Failed to customize the SDC for optimum situational awareness. Failed to interpret the message and data block on the SDC. Committed errors or omissions that could have jeopardized mission accomplishment.

10.8. AREA 6-IFF/SIF SET UP AND OPERATION.

10.8.1. Q. Setup and operated the AN/UPA-59A and AN/UPX-27 for operations. Interrogated, read, and interpreted Mode 1, 2, 3A, and C readouts. Loaded Mode 4 IAW unit checklist.

10.8.2. Q-. Setup and operated the AN/UPA-59A and AN/UPX-27 for operations. Interrogated, read, and interpreted Mode 1, 2, 3A, and C readouts. Loaded Mode 4 IAW unit checklist. Committed errors or omissions that did not jeopardize mission accomplishment.

10.8.3. U. Failed to setup and operate the AN/UPA-59A and/or AN/UPX-27 for operations. Failed to interrogate, read, and interpret Mode 1, 2, 3A, and C readouts. Failed to load Mode 4 IAW unit checklist. Committed errors or omissions that could have jeopardized mission accomplishment.

10.9. AREA 7-ELECTRONIC PROTECTION OPERATIONS (CRITICAL).

10.9.1. Q. Promptly informed the ASO/AST when EA was experienced. Used AN/TPS-75 system displays, EP functions, and switch actions to maintain a current air picture and to control radar emissions. Recommended EMCON measures and levels to the AST as appropriate. Selected appropriate video(s) to neutralize the effects of anomalous propagation, thunderstorms, and unusual weather conditions IAW AFI13-1MCSV3. Selected appropriate video(s) to detect jammers and associated jammer track(s). When necessary, coordinated with other C2 units and agencies to identify and locate jammers or other sources of interference.

10.9.2. U. Failed to promptly inform the ASO/AST when EA was experienced. Failed to use AN/TPS-75 system displays, EP functions, and switch actions to maintain a current air picture and/or control radar emissions. Failed to recommend EMCON measures and levels to the AST when appropriate. Failed to select the appropriate video(s) to neutralize the effects of anomalous propagation, thunderstorms, and/or unusual weather conditions IAW AFI13-1MCSV3. Failed to select appropriate video(s) to detect jammers and associated jammer track(s). Did not coordinate with other C2 units and agencies to identify and locate jammers or other sources of interference. Committed errors or omissions that could have jeopardized mission accomplishment.

10.10. AREA 8-SYSTEM OPERATIONS (CRITICAL).

10.10.1. Q. Controlled, configured, and monitored the operational status of the AN/TPS-75 radar using the Radar Control Panel (RCP) IAW unit checklists. Coordinated with the ASO/AST to accomplish a correlation check with the theater designated senior radar element IAW AFI13-1MCSV3. Evaluated remote radar data for correlation. Ensured data was received on all tracks within the area of interest of the AOR. Conducted Periodic Radar Evaluation Program (PREP) assessment IAW directives. Coordinated with radar maintenance personnel to ensure optimum levels of radar performance.

10.10.2. U. Failed to control, configure, and monitor the operational status of the AN/TPS-75 radar using the Radar Control Panel (RCP) IAW unit checklists. Failed to coordinate with the ASO/AST to accomplish a correlation check with the theater designated senior radar element IAW AFI13-1MCSV3. Failed to evaluate remote radar data for correlation. Failed to ensure data was

received on all tracks within the area of interest of the AOR. Failed to conduct Periodic Radar Evaluation Program (PREP) assessment as required by directives. Failed to coordinate with radar maintenance personnel to ensure optimum levels of radar performance. Committed errors or omissions that could have resulted in mission failure.

10.11. AREA 9-REPORTS AND LOGS.

10.11.1. **Q.** Submitted EA and EMI reports IAW directives when jamming and/or interference were encountered. Ensured the single word PREP assessment was recorded in the OC log book.

10.11.2. **Q-** Submitted EA and EMI reports IAW directives when jamming and/or interference were encountered. Ensured the single word PREP assessment was recorded in the OC log book. Committed errors or omissions that did not adversely affect mission accomplishment.

10.11.3. **U.** Failed to submit EA and/or EMI reports. Failed to comply with directives for submitting EA/EMI reports when jamming and/or interference were encountered. Failed to ensure the single word PREP assessment was recorded in the OC logbook. Committed errors or omissions that could have jeopardized mission accomplishment.

10.12. AREA 10-EMERGENCIES (CRITICAL).

10.12.1. **Q.** Conducted ARM defense procedures as required. Employed the Anti-Radiation Missile (ARM) decoy IAW checklists. Used EP and EMCON tactics to counter ARM attack. Provided timely assistance for aircraft experiencing emergency situations IAW aircraft emergency checklist. Recognized emergency symbols and IFF displays on scope. Entered the appropriate emergency point on scope.

10.12.2. **U.** Failed to conduct ARM defense procedures as required. Failed to comply with checklists when employing ARM decoy. Failed to use EP and EMCON tactics to counter ARM attack. Failed to provide timely assistance to aircraft experiencing emergency situations. Failed to comply with emergency checklist when responding to aircraft emergencies. Failed to recognize emergency symbols and IFF displays on scope. Failed to enter emergency point on scope during aircraft emergency. Committed errors or omissions that could have endangered the unit and/or jeopardized mission accomplishment.

10.13. AREA 11-COMSEC/AUTHENTICATION (CRITICAL).

10.13.1. **Q.** Recognized and countered various types of communications jamming IAW unit checklists. Authenticated voice transmissions within time limits specified on authenticators.

10.13.2. **U.** Failed to recognize and/or counter various types of communications jamming. Failed to authenticate voice transmissions within time limits specified on authenticators. Committed errors or omissions that could have jeopardized mission accomplishment.

10.14. AREA 12-SECURITY OF CLASSIFIED MATERIALS (CRITICAL).

10.14.1. **Q.** Used, controlled, and inventoried classified materials IAW established security procedures.

10.14.2. **U.** Failed to use, control and inventory classified materials as required by established security procedures. Committed errors or omissions that could have jeopardized mission accomplishment.

10.15. AREA 13-WEATHER INPUTS.

10.15.1. **Q.** Interpreted and entered weather information into the radar system using the Radar Control Panel (RCP) (Plasma Display) IAW unit checklists. Read and interpreted weather information contained in the EARTH CURVATURE DAILY VALUES menu and entered it into the radar system. Extracted weather information (air pressure, air temperature, and relative humidity) from a weather report.

10.15.2. **Q-.** Interpreted and entered weather information into the radar system using the Radar Control Panel (RCP) (Plasma Display) IAW unit checklists. Read and interpreted weather information contained in the EARTH CURVATURE DAILY VALUES menu and entered it into the radar system. Extracted weather information (air pressure, air temperature, and relative humidity) from a weather report. Committed errors or omissions that did not adversely affect mission accomplishment.

10.15.3. **U.** Failed to correctly interpret and enter weather information into the radar system using the Radar Control Panel (RCP) (Plasma Display) IAW unit checklists. Did not read and correctly interpret weather information contained in the EARTH CURVATURE DAILY VALUES menu and/or enter it into the radar system. Failed to extract weather information (air pressure, air temperature, and relative humidity) from a weather report. Committed errors or omissions that could have resulted in mission failure.

10.16. AREA 14-POSITIONAL CHANGEOVER BRIEF.

10.16.1. **Q.** Briefed the relieving EPT on the current operational situation before departing position. Conducted positional changeover briefing IAW checklist.

10.16.2. **Q-.** Briefed the relieving EPT on the current operational situation before departing position. Conducted positional changeover briefing IAW checklist. Committed errors or omissions that did not adversely affect mission accomplishment.

10.16.3. **U.** Failed to brief the relieving EPT on the current operational situation before departing position. Failed to follow checklist when conducting positional changeover briefing. Committed errors or omissions that could have jeopardized mission accomplishment.

10.17. AREA 15-CREW DEBRIEF.

10.17.1. **Q.** Provided information to the AST for crew debriefing as requested and/or as appropriate.

10.17.2. **Q-.** Provided information to the AST for crew debriefing as requested and/or as appropriate. Committed errors or omissions that did not adversely affect mission accomplishment.

10.17.3. **U.** Failed to provide information to the AST for crew debriefing as requested and/or as appropriate. Committed errors or omissions that could have jeopardized mission accomplishment.

Chapter 11

DATA SYSTEM TECHNICIAN QUALIFICATION EVALUATION

Section 11A—Instructions

11.1. General.

11.1.1. This chapter contains the criteria specifying the tasks required of a qualified Data System Technician (DST).

11.1.2. Certain areas contain performance tasks that require a degree of knowledge/proficiency that is mandatory for successful mission accomplishment and to ensure safety of flight. Consequently, an “Unqualified” score in any “Critical” area will result in an overall grade of “Unqualified.”

11.1.3. DST personnel will be evaluated during daily operations or a locally generated exercise/STE/JSTE. The evaluation requires the participation of at least one external agency. When possible, the evaluation will be conducted in a communications jamming environment. Tasks not evaluated during the exercise/STE/JSTE will be evaluated individually while the examinee is on console.

11.2. Evaluation Objective. The examinee must demonstrate the ability to accomplish all DST duties safely and effectively IAW technical orders and applicable operations directives

Section 11B—Qualification Criteria

11.3. AREA 1-MISSION PLANNING.

11.3.1. **Q.** Extracted information from mission planning documents as directed by the AST. Planned initial build of the MCE data base. Received data base adaptations from the SD and/or ASO as appropriate. Read and initialed all items in the OIF and/or read files.

11.3.2. **Q-** Extracted information from mission planning documents as directed by the AST. Planned initial build of the MCE data base. Received data base adaptations from the SD and/or ASO as appropriate. Read and initialed all items in the OIF and/or read files. Committed errors or omissions that did not adversely affect mission accomplishment.

11.3.3. **U.** Failed to extract information from mission planning documents as directed by the AST. Failed to plan the initial build of the MCE data base. Failed to receive or incorporate data base adaptations from the SD and/or ASO as appropriate. Failed to read and/or initial all items in the OIF and/or read files. Committed errors or omissions that could have jeopardized mission accomplishment.

11.4. AREA 2-REFERENCE SYSTEMS.

11.4.1. **Q.** Determined coordinates using different coordinate reference systems. Located a position by AZRAN on a map. Determined the LAT/LONG coordinates of a point on a map. Converted a LAT/LONG coordinate into a GEOREF coordinate.

11.4.2. **Q-** Determined coordinates using different coordinate reference systems. Located a position by AZRAN on a map. Determined the LAT/LONG coordinates of a point on a map. Converted a LAT/LONG coordinate into a GEOREF coordinate. Committed errors or omissions that did not adversely affect mission accomplishment.

11.4.3. U. Failed to determine coordinates using different coordinate reference systems. Failed to locate a position by AZRAN on a map. Failed to determine the LAT/LONG coordinates of a point on a map. Failed to convert a LAT/LONG coordinate into a GEOREF coordinate. Committed errors or omissions that could have jeopardized mission accomplishment.

11.5. AREA 3-CREW BRIEFING.

11.5.1. Q. Participated in the crew briefing.

11.5.2. Q-. Participated in the crew briefing. Committed errors or omissions that did not adversely affect mission accomplishment.

11.5.3. U. Failed to participate in the crew briefing. Committed errors or omissions that could have jeopardized mission accomplishment.

11.6. AREA 4-SAFETY HAZARDS (CRITICAL).

11.6.1. Q. Located safety hazards and demonstrated proper use of safety equipment. Located safety hazards in the OM. Located and demonstrated the use of safety equipment. Located and explained the use of the OM Master OFF switch.

11.6.2. U. Failed to locate safety hazards and demonstrate the proper use of safety equipment. Failed to locate safety hazards in the OM. Failed to locate and demonstrate proper use of safety equipment. Failed to locate and explain the use of the OM Master OFF switch. Committed errors or omissions that could have jeopardized personnel safety or equipment.

11.7. AREA 5-VCAU SET UP AND OPERATION.

11.7.1. Q. Set up and operated the VCAU. Located and explained VCAU controls and indicators. Configured the VCAU for operations as required. Accessed VCAU communications.

11.7.2. Q-. Set up and operated the VCAU. Located and explained VCAU controls and indicators. Configured the VCAU for operations as required. Accessed VCAU communications. Committed errors or omissions that did not adversely affect mission accomplishment.

11.7.3. U. Failed to set up and/or operate the VCAU. Failed to locate and/or explain VCAU controls and/or indicators. Failed to configure the VCAU for operations as needed. Failed to access VCAU communications. Committed errors or omissions that could have jeopardized mission accomplishment.

11.8. AREA 6-R/RU SET UP AND OPERATION.

11.8.1. Q. Located and explained R/RU controls and indicators. Ensured the R/RU was set up and operated IAW AFI 13-1 MCS Volume 3, Chapter 6.

11.8.2. Q-. Located and explained R/RU controls and indicators. Ensured the R/RU was set up and operated IAW AFI 13-1 MCS Volume 3, Chapter 6. Committed errors or omissions that did not adversely affect mission accomplishment.

11.8.3. U. Failed to locate and explain R/RU controls and indicators. Failed to ensure compliance with AFI 13-1 MCS Volume 3, Chapter 6 for set up and operation of the R/RU. Committed errors or omissions that could have jeopardized mission accomplishment.

11.9. AREA 7-PRU SET UP AND OPERATION.

11.9.1. **Q.** Locate and explained PRU controls and indicators. Ensured PRU was set up and operated IAW AFI 13-1 MCS Volume 3, Chapter 6.

11.9.2. **Q-.** Locate and explained PRU controls and indicators. Ensured PRU was set up and operated IAW AFI 13-1 MCS Volume 3, Chapter 6. Committed errors or omissions that did not adversely affect mission accomplishment.

11.9.3. **U.** Failed to locate and explain PRU controls and/or indicators. Failed to ensure compliance with AFI 13-1 MCS Volume 3, Chapter 6 for the set up and operation of the PRU. Committed errors or omissions that could have jeopardized mission accomplishment.

11.10. AREA 8-OCU SET UP AND OPERATION.

11.10.1. **Q.** Setup and operated the OCU IAW unit checklists. Located controls and indicators on the OCU control panel. Used switch actions to customize the OCU presentation.

11.10.2. **Q-.** Setup and operated the OCU IAW unit checklists. Located controls and indicators on the OCU control panel. Used switch actions to customize the OCU presentation. Committed errors or omissions that did not adversely affect mission accomplishment.

11.10.3. **U.** Failed to setup and operate the OCU. Failed to comply with unit checklists. Failed to locate controls and indicators on the OCU control panel. Failed to use switch actions to customize the OCU presentation. Committed errors or omissions that could have jeopardized mission accomplishment.

11.11. AREA 9-DATA BASE INITIALIZATION (CRITICAL).

11.11.1. **Q.** Loaded data base as directed. Performed RIMM directory and file management functions. Mounted a RIMM. Downloaded operating software into the Mass Memory Unit (MMC). Purged, formatted, copied and/or compared a RIMM as required. Entered the UNIX terminal mode as directed. Selected, copied, deleted, reviewed, renamed, created and/or printed RIMM directories as necessary. Set directory defaults and file attributes. Patched and dumped software as needed. Ensured system configuration met operational needs.

11.11.2. **U.** Failed to load data base as directed. Failed to perform RIMM directory and file management functions. Failed to mount a RIMM. Failed to download operating software into the MMC. Failed to purge, format, copy and/or compare a RIMM as required. Failed to enter the UNIX terminal mode as directed. Failed to select, copy, delete, review, rename and print RIMM directories as necessary. Failed to set directory defaults and/or file attributes. Failed to patch and dump software as needed. Failed to ensure system configuration met operational needs. Committed errors or omissions that could have jeopardized mission accomplishment.

11.12. AREA 10-DATA BASE OPERATIONS (CRITICAL).

11.12.1. **Q.** Operated data base. Ensured data base ATO information was correct and up to date. Performed and/or coordinated all RIMM read and write activities. Managed data base and system configuration to meet mission needs. Performed and coordinated system resets and/or Initiate Program Loads (IPLs) as directed by the AST. Recommended system configuration changes to the AST as appropriate. Configured system and data base as directed by the AST.

11.12.2. U. Failed to operate the data base. Failed to ensure data base ATO information was correct and up to date. Failed to perform and coordinate all RIMM read and/or write activities. Failed to manage data base and system configuration to meet mission needs. Failed to perform and/or coordinate system resets and/or IPLs as directed by the AST. Failed to configure system and data base as directed by the AST. Committed errors or omissions that could have jeopardized mission accomplishment.

11.13. AREA 11-SYSTEM OPERATIONS (CRITICAL).

11.13.1. Q. Monitored PM & Test functions for system degradation. Reported equipment discrepancies to the AST in a timely manner. Assisted maintenance in troubleshooting equipment problems as necessary.

11.13.2. U. Failed to monitor PM & Test functions for system degradation. Failed to report equipment discrepancies to the AST in a timely manner. Committed errors or omissions that could have jeopardized mission accomplishment.

11.14. AREA 12-COMSEC/AUTHENTICATION (CRITICAL).

11.14.1. Q. Recognized and countered various types of communications jamming. Authenticated voice transmissions within time limits specified on authenticators.

11.14.2. U. Failed to recognize and/or counter various types of communications jamming. Failed to authenticate voice transmissions within time limits specified on authenticators. Committed errors or omissions that could have jeopardized mission accomplishment.

11.15. AREA 13-SECURITY OF CLASSIFIED MATERIALS (CRITICAL).

11.15.1. Q. Used and controlled classified materials IAW established security procedures.

11.15.2. U. Failed to use and control classified materials IAW established security procedures. Committed errors or omissions that could have jeopardized mission accomplishment.

11.16. AREA 14-AIRCRAFT EMERGENCIES (CRITICAL).

11.16.1. Q. Recognized and reacted to assist aircraft experiencing an emergency situation. Recognized emergency symbology and codes on scope. Coordinated responses in a timely manner IAW aircraft emergency checklist. Entered appropriate emergency point on scope.

11.16.2. U. Failed to recognize and/or react to assist aircraft experiencing an emergency situation. Failed to recognize emergency symbology and/or codes on scope. Failed to respond in a timely manner. Failed to comply with aircraft emergency checklist. Failed to enter appropriate emergency point on scope. Committed errors or omissions that could have jeopardized mission accomplishment.

11.17. AREA 15-WEATHER INPUTS.

11.17.1. Q. Maintained current meteorological information as required. Accessed, interpreted, and entered weather information into the data base. Extracted information from a weather report. Read and interpreted weather information on the ADU.

11.17.2. Q-. Maintained current meteorological information as required. Accessed, interpreted, and entered weather information into the data base. Extracted information from a weather report. Read and

interpreted weather information on the ADU. Committed errors or omissions that did not adversely affect mission accomplishment.

11.17.3. **U.** Failed to maintain current meteorological information as required. Failed to access, interpret, and enter weather information into the data base. Failed to extract weather information from a weather report. Failed to read and interpret weather information displayed on the ADU. Committed errors or omissions that could have jeopardized mission accomplishment.

11.18. AREA 16-RIMM DISMOUNT.

11.18.1. **Q.** Properly dismantled a RIMM.

11.18.2. **Q-.** Properly dismantled a RIMM. Committed errors or omissions that did not adversely affect mission accomplishment.

11.18.3. **U.** Failed to properly dismantle a RIMM. Committed errors or omissions that could have resulted in equipment damage and/or jeopardized mission accomplishment.

11.19. AREA 17-DATA REDUCTION.

11.19.1. **Q.** Performed mission data reduction as directed by the AST.

11.19.2. **Q-.** Performed mission data reduction as directed by the AST. Committed errors or omissions that did not adversely affect mission accomplishment.

11.19.3. **U.** Failed to perform mission data reduction when directed by the AST. Committed errors or omissions that could have jeopardized mission accomplishment.

11.20. AREA 18-POSITIONAL CHANGEOVER BRIEF.

11.20.1. **Q.** Briefed the relieving DST on the current operational situation before departing position. Conducted positional changeover briefing IAW checklist.

11.20.2. **Q-.** Briefed the relieving DST on the current operational situation before departing position. Conducted positional changeover briefing IAW checklist. Committed errors or omissions that did not adversely affect mission accomplishment.

11.20.3. **U.** Failed to brief the relieving DST on the current operational situation before departing position. Failed to follow checklist when conducted positional changeover briefing. Committed errors or omissions that could have jeopardized mission accomplishment.

11.21. AREA 19-CREW DEBRIEF.

11.21.1. **Q.** Attended the crew debriefing. Provided computer system inputs to crew debriefing as appropriate.

11.21.2. **Q -.** Attended the crew debriefing. Provided computer system inputs to crew debriefing as appropriate. Committed errors or omissions that did not adversely affect mission accomplishment.

11.21.3. **U.** Failed to attend the crew debrief. Failed to provide computer system inputs to the crew debriefing as appropriate. Committed errors or omissions that could have jeopardized mission accomplishment.

Chapter 12

INTERFACE CONTROL TECHNICIAN QUALIFICATION EVALUATION

Section 12A—Instructions

12.1. General.

12.1.1. This chapter contains the criteria specifying the tasks required of a qualified Interface Control Technician (ICT).

12.1.2. Certain areas contain performance tasks that require a degree of knowledge/proficiency that is mandatory for successful mission accomplishment and to ensure safety of flight. Consequently, an “Unqualified” score in any “Critical” area will result in an overall grade of “Unqualified.”

12.1.3. ICT personnel will be evaluated during a locally generated exercise or STE/JSTE. The evaluation requires the participation of one or more external TACS units. As a minimum, at least one live Tactical Digital Information Link (TADIL) J, A or B link will be used to conduct the evaluation. The live link events do not have to occur on the same day or with the same agency. When possible, the evaluation will be conducted in a radar jamming environment. Tasks not evaluated during the exercise/STE/JSTE will be evaluated individually while the examinee is on console.

12.2. Evaluation Objective. The examinee must demonstrate the ability to accomplish all ICT duties safely and effectively IAW technical orders and applicable operations directives.

Section 12B—Qualification Criteria

12.3. AREA 1-MISSION PLANNING.

12.3.1. **Q.** Extracted information from mission planning documents as directed by the AST. Assisted in the preparation of information required for the crew briefing. Read and initialed all items in the OIF and/or read files.

12.3.2. **Q-.** Extracted information from mission planning documents as directed by the AST. Assisted in the preparation of information required for the crew briefing. Read and initialed all items in the OIF and/or read files. Committed errors or omissions that did not adversely affect mission accomplishment.

12.3.3. **U.** Failed to extract information from mission planning documents as directed by the AST. Did not assist in the preparation of information required for the crew briefing. Failed to read and/or initial all items in the OIF and/or read files. Committed errors or omissions that could have jeopardized mission accomplishment.

12.4. AREA 2-REFERENCE SYSTEMS.

12.4.1. **Q.** Determined coordinates using different coordinate reference systems. Located a position by AZRAN from a given point on a map. Determined LAT/LONG coordinates for a position on a map. Converted a LAT/LONG coordinate into a GEOREF coordinate.

12.4.2. **Q-.** Determined coordinates using different coordinate reference systems. Located a position by AZRAN from a given point on a map. Determined LAT/LONG coordinates for a position on a

map. Converted a LAT/LONG coordinate into a GEOREF coordinate. Committed errors or omissions that did not adversely affect mission accomplishment.

12.4.3. U. Failed to determine coordinates using different coordinate reference systems. Failed to locate a position by AZRAN from a given point on a map. Failed to determine LAT/LONG coordinates for a position on a map. Failed to convert a LAT/LONG coordinate into a GEOREF coordinate. Committed errors or omissions that could have jeopardized mission accomplishment.

12.5. AREA 3-CREW BRIEFING.

12.5.1. Q. Participated in the crew briefing.

12.5.2. Q-. Participated in the crew briefing. Committed errors or omissions that did not adversely affect mission accomplishment.

12.5.3. U. Failed to attend the crew briefing. Committed errors or omissions that could have jeopardized mission accomplishment.

12.6. AREA 4-SAFETY HAZARDS (CRITICAL).

12.6.1. Q. Located safety hazards and demonstrated proper use of safety equipment. Located electrical, fire and safety hazards in the OM. Located and demonstrated the proper use of safety equipment and fire extinguishers. Located and explained the use of the OM MASTER OFF switch.

12.6.2. U. Failed to locate safety hazards and demonstrate proper use of safety equipment. Failed to locate electrical, fire and radiation safety hazards in the OM. Failed to locate and demonstrate proper use of safety board equipment and fire extinguishers. Failed to locate and explain the use of the OM MASTER OFF switch. Committed errors or omissions that could have resulted in an unsafe act and/or jeopardized mission accomplishment.

12.7. AREA 5-COMMUNICATIONS.

12.7.1. Q. Configured OM radios for communications. Ensured radios were powered. Ensured radio frequencies were assigned to meet mission requirements. Ensured cryptographic radio equipment was loaded and configured for mission. Configured VCAU for operations as needed. Located and explained VCAU controls and indicators. Accessed VCAU communications as needed.

12.7.2. Q-. Configured OM radios for communications. Ensured radios were powered. Ensured radio frequencies were assigned to meet mission requirements. Ensured cryptographic radio equipment was loaded and configured for mission. Configured VCAU for operations as needed. Located and explained VCAU controls and indicators. Accessed VCAU communications as needed. Committed errors or omissions that did not adversely affect mission accomplishment.

12.7.3. U. Failed to configure OM radios for communications. Failed to ensure radios were powered. Failed to ensure radio frequencies were assigned to meet mission requirements. Failed to ensure cryptographic radio equipment was loaded and configured for mission. Failed to configure VCAU communications as needed. Failed to locate and explain VCAU controls and indicators. Failed to access VCAU communications as needed. Committed errors or omissions that could have jeopardized mission accomplishment.

12.8. AREA 6-OCU SET UP.

12.8.1. **Q.** Set up and operated the OCU IAW unit checklists. Located and explained OCU controls and indicators. Used switch actions to customize OCU presentation for optimal situational awareness.

12.8.2. **Q-.** Set up and operated the OCU IAW unit checklists. Located and explained OCU controls and indicators. Used switch actions to customize OCU presentation for optimal situational awareness. Committed errors or omissions that did not adversely affect mission accomplishment.

12.8.3. **U.** Failed to set up and operate the OCU. Failed to comply with unit checklists for setting up and operating the OCU. Failed to explain OCU controls and indicators. Failed to use switch actions to customize OCU presentation for optimal situational awareness. Committed errors or omissions that could have jeopardized mission accomplishment.

12.9. AREA 7-DATA BASE INPUTS.

12.9.1. **Q.** Modified data link data base information as directed.

12.9.2. **Q-.** Modified data link data base information as directed. Committed errors or omissions that did not adversely affect mission accomplishment.

12.9.3. **U.** Failed to modify data link data base information as directed. Committed errors or omissions that could have jeopardized mission accomplishment.

12.10. AREA 8-DATA LINK EQUIPMENT.

12.10.1. **Q.** Performed initial data link equipment checkout. Performed checkout of the KG-40A. Performed checkout of the KG-84A.

12.10.2. **Q-.** Performed initial data link equipment checkout. Performed checkout of the KG-40A. Performed checkout of the KG-84A. Committed errors or omissions that did not adversely affect mission accomplishment.

12.10.3. **U.** Failed to perform initial data link equipment checkout. Failed to perform checkout of the KG-40A. Failed to perform checkout of the KG-84A. Committed errors or omissions that could have jeopardized mission accomplishment.

12.11. AREA 9-AIR PICTURE MAINTENANCE.

12.11.1. **Q.** Interpreted track symbols and modifiers. Read and interpreted track information in the HDRO. Used switch actions associated with initiating and maintaining tracks. Used switch actions to hook tracks on the OCU as needed. Used switch actions to maintain an accurate air surveillance picture.

12.11.2. **Q-.** Interpreted track symbols and modifiers. Read and interpreted track information in the HDRO. Used switch actions associated with initiating and maintaining tracks. Used switch actions to hook tracks on the OCU as needed. Used switch actions to maintain an accurate air surveillance picture. Committed errors or omissions that did not adversely affect mission accomplishment.

12.11.3. **U.** Failed to interpret track symbols and modifiers. Failed to read and interpret track information in the HDRO. Failed to use switch actions to hook tracks on the OCU. Failed to use switch actions to maintain an accurate air surveillance picture. Committed errors or omissions that could have jeopardized mission accomplishment.

12.12. AREA 10-DATA LINK OPERATIONS (CRITICAL).

12.12.1. **Q.** Conducted data link operations as directed. Used switch actions to initiate, build and maintain a TADIL-A link. Conducted and interpreted TADIL-A Programmable Operational and Functional Appraisal (POFA) as directed. Reported TADIL-A link problems IAW established procedures. Used switch actions to initiate, build and maintain a TADIL-B link. Conducted and interpreted TADIL-B POFA as directed. Reported TADIL-B problems IAW established procedures. Used switch actions to initiate, build and maintain TADIL-C, LINK-1, ATDL-1 and TADIL-J links. Reported TADIL-C, LINK-1, ATDL-1 and/or TADIL-J link problems IAW established procedures. Used DCN to coordinate with other data link agencies. Coordinated the designation and use of frequencies and/or channels assigned to interface data links and voice coordination networks. Implemented changes in interface configurations as directed. Built and implemented data link filters as required. Recommended changes in data link configurations to the AST. Interpreted and responded to data link messages in a timely manner.

12.12.2. **U.** Failed to conduct data link operations as directed. Failed to initiate, build and/or maintain a TADIL-A link. Failed to conduct and interpret a TADIL-A POFA as directed. Failed to report TADIL-A link problems IAW established procedures. Failed to initiate, build and maintain a TADIL-B link. Failed to conduct and interpret a TADIL-B POFA as directed. Failed to report TADIL-B problems IAW established procedures. Failed to initiate, build, and maintain a TADIL-C, LINK-1, ATDL-1 and TADIL-J links. Failed to report TADIL-J problems IAW established procedures. Failed to use DCN to coordinate with other data link agencies. Failed to coordinate the designation and use of frequencies and/or channels assigned to interface data links and/or voice coordination networks. Failed to implement changes in interface configurations as directed. Failed to build and implement data link filters as required. Recommended changes in data link configurations to the AST. Committed errors or omissions that could have jeopardized mission accomplishment.

12.13. AREA 11-COMSEC/AUTHENTICATION (CRITICAL).

12.13.1. **Q.** Recognized and countered various types of communications jamming. Authenticated voice transmissions within time limits specified on authenticators.

12.13.2. **U.** Failed to recognize and counter various types of communications jamming. Failed to authenticate voice transmissions within time limits specified on authenticators. Committed errors or omissions that could have jeopardized mission accomplishment.

12.14. AREA 12-SECURITY OF CLASSIFIED MATERIALS (CRITICAL).

12.14.1. **Q.** Used and controlled classified materials IAW established security procedures.

12.14.2. **U.** Failed to use and/or control classified materials IAW established security procedures. Committed errors or omissions that could have jeopardized mission accomplishment.

12.15. AREA 13-AIRCRAFT EMERGENCIES (CRITICAL).

12.15.1. **Q.** Recognized and reacted to assist an aircraft experiencing an emergency situation. Recognized emergency symbology and codes on scope. Coordinated responses in a timely manner IAW aircraft emergency checklist. Entered appropriate emergency point on the scope.

12.15.2. **U.** Failed to recognize and react to an aircraft experiencing an emergency situation. Failed to recognize emergency symbology and codes on scope. Failed to coordinate emergency responses in a

timely manner IAW aircraft emergency checklist. Failed to enter the appropriate emergency point on the scope. Committed errors or omissions that could have jeopardized mission accomplishment.

12.16. AREA 14-WEATHER INPUTS.

12.16.1. **Q.** Maintained current meteorological information as required. Accessed, interpreted, and entered weather information into the data base. Extracted information from a weather report. Read and interpreted weather information on the ADU.

12.16.2. **Q-** Maintained current meteorological information as required. Accessed, interpreted, and entered weather information into the data base. Extracted information from a weather report. Read and interpreted weather information on the ADU. Committed errors or omissions that did not adversely affect mission accomplishment.

12.16.3. **U.** Failed to maintain current meteorological information as required. Failed to access, interpret, and enter weather information into the data base. Failed to extract weather information from a weather report. Failed to read and interpret weather information displayed on the ADU. Committed errors or omissions that could have jeopardized mission accomplishment.

12.17. AREA 15-POSITIONAL CHANGEOVER BRIEFING.

12.17.1. **Q.** Briefed the relieving ICT on the current operational situation before departing position. Conducted positional changeover briefing IAW checklist.

12.17.2. **Q-** Briefed the relieving ICT on the current operational situation before departing position. Conducted positional changeover briefing IAW checklist. Committed errors or omissions that did not adversely affect mission accomplishment.

12.17.3. **U.** Failed to brief the relieving ICT on the current operational situation before departing position. Failed to follow checklist when conducting positional changeover briefing. Committed errors or omissions that could have jeopardized mission accomplishment.

12.18. AREA 16-CREW DEBRIEFING.

12.18.1. **Q.** Participated in the crew debriefing. Provided data link inputs to crew debriefing as appropriate.

12.18.2. **Q-** Participated in the crew debriefing. Provided data link inputs to crew debriefing as appropriate. Committed errors or omissions that did not adversely affect mission accomplishment.

12.18.3. **U.** Failed to participate in the crew debriefing. Failed to provide data link inputs to crew debriefing as appropriate. Committed errors or omissions that could have jeopardized mission accomplishment.

Chapter 13

SURVEILLANCE TECHNICIAN QUALIFICATION EVALUATION

Section 13A—Instructions

13.1. General.

13.1.1. This chapter contains the criteria specifying the tasks required of a qualified Surveillance Technician (ST).

13.1.2. Certain areas contain performance tasks that require a degree of knowledge/proficiency that is mandatory for successful mission accomplishment and to ensure safety of flight. Consequently, an “Unqualified” score in any “Critical” area will result in an overall grade of “Unqualified.”

13.1.3. ST personnel will be evaluated during a locally generated exercise or STE/JSTE. When possible, the evaluation will be conducted in a radar and communications jamming environment. Tasks not evaluated during the exercise or STE/JSTE will be evaluated individually while the examinee is on console.

13.2. Evaluation Objective. The examinee must demonstrate the ability to accomplish all ST duties safely and effectively IAW technical orders and applicable operations directives.

Section 13B—Qualification Criteria

13.3. AREA 1-MAP AND REFERENCE SYSTEMS.

13.3.1. **Q.** Determined coordinates using different coordinate reference systems. Located a position by AZRAN on a map. Determined the LAT/LONG coordinates of a point on a map. Converted a LAT/LONG coordinate into a GEOREF coordinate.

13.3.2. **Q-** Determined coordinates using different coordinate reference systems. Located a position by AZRAN on a map. Determined the LAT/LONG coordinates of a point on a map. Converted a LAT/LONG coordinate into a Geographic Reference (GEOREF) coordinate. Committed errors or omissions that did not adversely affect mission accomplishment.

13.3.3. **U.** Failed to determine coordinates using different coordinate reference systems. Failed to locate a position by AZRAN on a map. Failed to determine the LAT/LONG coordinates of a point on a map. Failed to convert a LAT/LONG coordinate into a GEOREF coordinate. Committed errors or omissions that could have jeopardized mission accomplishment.

13.4. AREA 2-CREW BRIEFING.

13.4.1. **Q.** Attended the crew briefing.

13.4.2. **Q-** Attended the crew briefing. Committed errors or omissions that did not adversely affect mission accomplishment.

13.4.3. **U.** Attended the crew briefing. Committed errors or omissions that could have jeopardized mission accomplishment.

13.5. AREA 3-SAFETY HAZARDS AND EQUIPMENT (CRITICAL).

13.5.1. **Q.** Located safety hazards and demonstrated proper use of safety equipment. Located electrical, fire and radiation safety hazards in the OM. Located and demonstrated the use of safety equipment. Located and explained the use of the OM Master OFF switch.

13.5.2. **U.** Failed to locate safety hazards and demonstrate the proper use of safety equipment. Failed to locate electrical, fire and radiation safety hazards in the OM. Failed to locate and demonstrate proper use of safety equipment. Failed to locate and explain the use of the OM Master OFF switch. Committed errors or omissions that could have jeopardized personnel safety or equipment.

13.6. AREA 4-CONFIGURING OM COMMUNICATIONS.

13.6.1. **Q.** Configured OM communications equipment for operations. Powered up OM radios. Configured the Radio Patch Panel (RPP) for operations.

13.6.2. **Q-.** Configured OM communications equipment for operations. Powered up OM radios. Configured the Radio Patch Panel (RPP) for operations. Committed errors or omissions that did not adversely affect mission accomplishment.

13.6.3. **U.** Failed to configure OM communications equipment for operations. Failed to power up OM radios. Failed to configure the RPP. Committed errors and omissions that could have jeopardized mission accomplishment.

13.7. AREA 5-OCU SETUP AND OPERATION.

13.7.1. **Q.** Setup and operated the OCU IAW unit checklists. Located controls and indicators on the OCU control panel. Used switch actions to customize the OCU presentation.

13.7.2. **Q-.** Setup and operated the OCU IAW unit checklists. Located controls and indicators on the OCU control panel. Used switch actions to customize the OCU presentation. Committed errors or omissions that did not adversely affect mission accomplishment.

13.7.3. **U.** Failed to setup and operate the OCU. Failed to comply with unit checklists. Failed to locate controls and indicators on the OCU control panel. Failed to use switch actions to customize the OCU presentation. Committed errors or omissions that could have jeopardized mission accomplishment.

13.8. AREA 6-VCAU SETUP AND OPERATIONS.

13.8.1. **Q.** Setup and operated the VCAU. Located VCAU controls and indicators. Configured the VCAU for operations as required. Accessed VCAU communications.

13.8.2. **Q-.** Setup and operated the VCAU. Located VCAU controls and indicators. Configured the VCAU for operations as required. Accessed VCAU communications. Committed errors or omissions that did not adversely affect mission accomplishment.

13.8.3. **U.** Failed to setup and operate the VCAU. Could not locate VCAU controls or indicators. Failed to configure the VCAU for operations as required. Failed to access VCAU communications. Committed errors or omissions that jeopardized mission accomplishment.

13.9. AREA 7-TRACK IDENTIFICATION (CRITICAL).

13.9.1. **Q.** Identified air tracks in the assigned Area of Responsibility (AOR) within 2 minutes and IAW identification procedures specified in the Rules of Engagement (ROE). Located and used switch actions to identify tracks. Interrogated Mode 4 and used switch actions required to display appropriate ID symbology.

13.9.2. **U.** Failed to identify air tracks in the assigned AOR within 2 minutes and IAW identification procedures specified in the Rules of Engagement (ROE). Did not comply with identification procedures specified in the ROE. Failed to locate and/or use switch actions to identify tracks. Failed to interrogate Mode 4. Failed to use switch actions to display appropriate ID symbology. Committed errors or omissions that could have resulted in fratricide or jeopardized mission accomplishment.

13.10. AREA 8-FORWARD TELL OPERATIONS.

13.10.1. **Q.** Performed Voice Tell operations IAW AFI 13-1 MCS, Vol. 3, Attachment 2 as directed.

13.10.2. **Q-.** Performed Voice Tell operations IAW AFI 13-1 MCS, Vol. 3, Attachment 2 as directed. Committed errors or omissions that did not adversely affect mission accomplishment.

13.10.3. **U.** Failed to perform Voice Tell operations IAW AFI 13-1 MCS, Vol 3, Attachment 2 as directed. Committed errors or omissions that could have jeopardized mission accomplishment.

13.11. AREA 9-STROBES & EW CORRELATION (CRITICAL).

13.11.1. **Q.** Used EW switch actions to respond to EA. Entered, displayed, and deleted strobes on the OCU. Demonstrated correlation of jamming strobes.

13.11.2. **U.** Failed to use EW switch actions to respond to EA. Failed to enter, display, and/or delete strobes on the OCU. Failed to demonstrate correlation of jamming strobes. Committed errors or omissions that could have jeopardized mission accomplishment.

13.12. AREA 10-ELECTRONIC WARFARE.

13.12.1. **Q.** Recognized and reported Electronic Attack (EA) indications to the Air Surveillance Technician (AST).

13.12.2. **Q-.** Recognized and reported Electronic Attack (EA) indications to the Air Surveillance Technician (AST). Committed errors or omissions that did not adversely affect mission accomplishment.

13.12.3. **U.** Failed to recognize and/or report EA indications to the AST. Committed errors or omissions that could have jeopardized mission accomplishment.

13.13. AREA 11-COMMUNICATIONS JAMMING.

13.13.1. **Q.** Recognized and countered various types of communications jamming.

13.13.2. **Q-.** Recognized and countered various types of communications jamming. Committed errors or omissions that did not adversely affect mission accomplishment.

13.13.3. **U.** Failed to recognize various types of communications jamming. Failed to take steps to counter various types of communications jamming. Committed errors or omissions that could have jeopardized mission accomplishment.

13.14. AREA 12-AIRCRAFT EMERGENCIES (CRITICAL).

13.14.1. **Q.** Recognized and reacted to assist an aircraft experiencing an emergency situation. Recognized emergency symbology and codes on the scope. Coordinated emergency responses in a timely manner IAW emergency checklist. Entered an emergency point on the scope.

13.14.2. **U.** Failed to recognize and/or assist an aircraft experiencing an emergency situation. Failed to recognize emergency symbology or codes on the scope. Failed to coordinate emergency responses in a timely manner IAW emergency checklist. Failed to enter an emergency point on the scope. Committed errors or omissions that could have endangered aircrews and aircraft and jeopardized mission accomplishment.

13.15. AREA 13-WEATHER INPUTS.

13.15.1. **Q.** Accessed, interpreted, and entered weather information into the data base. Extracted weather information from a weather report. Read and interpreted weather information displayed on the ADU. Used switch actions to enter weather information into the data base.

13.15.2. **Q-.** Accessed, interpreted, and entered weather information into the data base. Extracted weather information from a weather report. Read and interpreted weather information displayed on the ADU. Used switch actions to enter weather information into the data base. Committed errors or omissions that did not adversely affect mission accomplishment.

13.15.3. **U.** Failed to access, interpret, or enter weather information into the system. Failed to extract weather information from a weather report. Could not read or interpret weather information displayed on the ADU. Failed to use switch actions required to enter weather information into the data base. Committed errors or omissions that could have jeopardized mission accomplishment.

13.16. AREA 14-COMSEC/AUTHENTICATION (CRITICAL).

13.16.1. **Q.** Used, controlled, and inventoried COMSEC and classified materials IAW established procedures. Authenticated voice transmissions as required within the time limits specified on Authenticators.

13.16.2. **U.** Failed to follow established procedures to use, control, and inventory COMSEC and/or classified materials. Failed to authenticate voice transmissions as required within the time limits specified on Authenticators. Committed errors or omissions that could have jeopardized mission accomplishment.

13.17. AREA 15-AIR PICTURE MAINTENANCE (CRITICAL).

13.17.1. **Q.** Interpreted track symbols and modifiers. Read and interpreted information displayed in the HDRO. Used switch actions associated with initiating and maintaining tracks. Used switch actions to hook tracks on the OCU. Used switch actions to maintain surveillance tracks within plus or minus 2 NM of radar data.

13.17.2. **U.** Failed to use system displays and switch actions to display and maintain an air picture. Failed to interpret track symbols and modifiers. Failed to read and interpret information displayed in the HDRO. Failed to use switch actions associated with initiating and maintaining tracks. Failed to use switch actions to hook tracks on the OCU. Failed to maintain surveillance tracks within plus or minus 2 NM of radar data.

Committed errors or omissions that could have jeopardized mission accomplishment.

13.18. AREA 16-POSITIONAL CHANGEOVER BRIEFING.

13.18.1. **Q.** Prepared and conducted a positional changeover briefing with the on-coming ST IAW checklists and applicable directives. Reviewed factors, situations, and conditions having a bearing on operations prior to departing position, briefed the on-coming ST, and ensured items necessary for the effective conduct of tasked mission were understood by the on-coming ST.

13.18.2. **Q-.** Prepared and conducted a positional changeover briefing with the on-coming ST IAW checklists and applicable directives. Reviewed factors, situations, and conditions having a bearing on operations prior to departing position, briefed the on-coming ST, and ensured items necessary for the effective conduct of tasked mission were understood by the on-coming ST. Committed errors or omissions that did not adversely affect mission accomplishment.

13.18.3. **U.** Failed to prepare or conduct a positional changeover briefing with the on-coming ST. Failed to follow checklists and applicable directives concerning changeover briefings. Failed to ensure that items necessary for the effective conduct of tasked missions were understood by the on-coming ST prior to departing position. Committed errors or omissions that could have jeopardized mission accomplishment.

Section 13C—Forms

13.19. Adopted Forms. AF Form 4143, **Certification of Qualification**; AF Form 4145, **Daily Activity Log**, and AF Form 4146, **Aircraft Missions**.

13.20. Prescribed Forms. No forms are prescribed in this publication.

RONALD E. KEYS, Lt Gen, USAF
DCS/Air & Space Operations

Attachment 1**GLOSSARY OF REFERENCES AND SUPPORTING INFORMATION*****References***

AFPD 13-1, Theater Air Control system, 11 May 1995

Public Law 104-13, Paperwork Reduction Act of 1995, 22 May 1995

AFI 11-214, Aircrew, Weapons Director, and Terminal Attack Controller Procedures for Air Operations

AFI 33-360, Volume 1, Publication Management Program

AFI 36-2101, Classifying Military Personnel (Officers and Airmen)

AFI 37-124, The Information Collections and Reports Management Program; Controlling Internal, Public, and Interagency Air Force Information Collections

AFI 37-139, Records Disposition Schedule

AFI 13-1MCS Vol 1, Modular Control System—Training

AFI 13-1Stan/Eval Vol 2, Ground Command And Control Systems Standardization/Evaluation Program--Organization And Administration

AFI 13-1MCS Vol 3, Operating Procedures—Modular Control System

AFTTP 3-1.1, General Planning and Employment Considerations

AFTTP 3-1.2, Threat Reference Guide and Countertactics

AFTTP 3-1.15, Tactical Employment – E3

AFTTP 3-1.26, Tactical Employment – Theater Air Control System

AFTTP 3-1.3, Tactical Employment – A-10

AFTTP 3-1.4, Tactical Employment – F-15A/B/C/D

AFTTP 3-1.5, Tactical Employment – F-16C/D

AFTTP 3-1.16, Tactical Employment – EC-130H COMPASS CALL

AFTTP 3-1.17, Tactical Employment – F-15E

AFTTP 3-1.18, Tactical Employment – F-117

AFTTP 3-1.19, Tactical Employment – B-52

AFTTP 3-1.20, Tactical Employment – B-1

AFTTP 3-1.21, Tactical Employment – RC-135V/W

AFTTP 3-1.22, Tactical Employment – KC-10/135

AFTTP 3-1.23, Tactical Employment – B-2

AFTTP 3-1.24, Tactical Employment – HH-60G

AFTTP 3-1.30, Tactical Employment – Joint STARS

Abbreviations and Acronyms

ABM—Air Battle Manager
ACBT—Air Combat Training
ACM—Airspace Control Measure
ACO—Airspace Control Order
ACP—Allied Communications Publications/Air Campaign Plan
ACT—Air Combat Training
ADA—Air Defense Artillery
ADAFCO—Air Defense Artillery Fire Control Officer
ADIZ—Air Defense Identification Zone
ADU—Auxiliary Display Unit
AFI—Air Force Instruction
AFSC—Air Force Specialty Code
AFTTP—Air Force Tactics and Techniques Pamphlet
AIM—Airman Information Manual
ANG—Air National Guard
AOC—Air Operations Center
AOR—Area of Responsibility
ARM—Anti-radiation missile
ASO—Air Surveillance Officer
AST—Air Surveillance Technician
ATC—Air Traffic Control
ATDL—Army Tactical Data Link
ATO—Air Tasking Order
AWACS—Airborne Warning and Control System
AWO—Air Weapons Officer
AZRAN—Azimuth and Range
BC—Battle Commander
BMC—Basic Mission Capable
BQ—Basic Qualified
BSC—Battle Staff Coordinator
BVR—Beyond Visual Range

C 2—Command and control
CAP—Combat Air Patrol
CAS—Close Air Support
CFAR—Constant False Alarm Rate
CMR—Combat Mission Ready
COMPLAN—Communications Plan
COMSEC—Communications Security
CP—Command Post
CPACS—Coded Pulse Anti-Clutter System
CRC—Control and Reporting Center
CT—Continuation Training
DACBT—Dissimilar Air Combat Training
DDB—Digital Data Bus
DEF—Defense Condition
DLRP—Data Link Reference Point
DNIC—Duty Not Involving Controlling
DST—Data System Technician
DTE—Digital Target Extractor
EA—Electronic Attack
EAM—Emergency Action Message
ECTAR—Electronic Countermeasures Tactical Action Report
EMCON—Emission Control
EMERGCON—Emergency Condition
EMI—Electromagnetic Interference
EP—Electronic Protection
EPT—Electronic Protection Technician
EQ—Exceptionally Qualified
ETRO—Estimated to Return to Operation
EW—Electronic Warfare
EXORD—Exercise Order
FAA—Federal Aviation Administration
FAC—Forward Air Control

FEBA—Forward Edge of Battle Area
FEZ—Fighter Engagement Zone
FFS—Fixed Function Switch
FLIP—Flight Information Publication
FLOT—Forward Line of Own Troops
FOG—Finger-on-glass
FSCL—Fire Support Coordination Line
FW—Fighter Wing
GEOREF—Geographic Reference
HDRO—Hooked Data Readout
HF—High Frequency
HIDACZ—High Density Airspace Control Zone
IAW—In accordance with
ICAO—International Civil Aviation Organization
ICT—Interface Control Technician
ID—Identification
IDT—Identification Technician
IFF—Identification Friend or Foe
IJAVA—Inverse Jamming Amplitude Versus Azimuth
IP—Initial Point
IPL—Initiate Program Load
IQE—Initial Qualification Evaluation
IQT—Initial Qualification Training
JATS—Jamming Analysis and Transmission Selection
JCS—Joint Chiefs of Staff
JSTE—Joint System Training Exercise
JTAO—Joint Tactical Air Operations
LERTCON—Alert Condition
LIMFAC—Limiting Factor
LLTR—Low Level Transit Route
MAJCOM—Major Command
MCC—Mission Crew Commander

MCS—Modular Control System
MEZ—Missile Engagement Zone
MGRS—Military Grid Reference System
MMU—Mass Memory Unit
MQF—Master Question File
MRR—Minimum Risk Route
MSG—Message
MSO—Mandatory Scramble Order
MTI—Moving Target Indicator
N/A—Not Applicable
NAVAIDS—Navigational Aids
NCS—Net Control Station
NM—Nautical mile
NRTT—Near-Real-Time Tracks
OC—Operations Coordinator
OCU—Operator Console Unit
OIF—Operations Information File
OM—Operations Module
OPDAT—Operational Data
OPGEN—Operations General Matter
OPORD—Operations Order
OPREP—Operational Report
OPTASKLINK—Operational Tasking for Link Operations
OS—Option Switch
OTO—Operations Training Officer
PM—Preventive Maintenance
PM&T—Performance Monitor and Test
POFA—Programmable Operational and Functional Appraisal
PPI—Plan Position Indicator
PREP—Periodic Radar Evaluation Program
PRF—Pulse Repetition Frequency
PRU—Printer Unit

PU—Participating Unit
Q—Qualified
R/RU—Recorder/Reproducer Unit
R/T—Radio/Telephone
RAP—Recognizable Air Picture/Ready Aircrew Program
RCP—Radar Control Panel
REA—Required Evaluation Areas
RF—Radar Frequency
RGDU—Radar Graphics Display Unit
ROE—Rules of Engagement
ROZ—Restricted Operating Zone
RPP—Radar Patch Panel
RQE—Recurring Qualification Evaluation
RTB—Return to base
RU—Reporting Unit
SAM—Surface-to-air missile
SAR—Search and Rescue
SAS—System Access Subunit
SD—Senior Director
SDC—Situation Display Console
SEE—Standardization/Evaluation Examiner
SEPP—Signal Entry Patch Panel
SIF—Selective Identification Feature
SIRS—Spectrum Interference Resolution Systems
SITREP—Situation Report
SLB—Sidelobe Blanking
SPINS—Special Instructions
ST—Surveillance Technician
STE—System Training Exercise
STOP—Strategic Orbit Point
TACS—Theater Air Control System
TADIL—Tactical Digital Information Link

TPA—Track Production Area

U—Unqualified

UQ—Unqualified

UHF—Ultra-High Frequency

UTC—Unit Training Assembly (ANG)

VCAU—Voice Communications Access Unit

VCB—Voice Communications Bus

VFS—Variable Function Switch

VID—Visual Identification

VIP—Very Important Person

WD—Weapons Director

WE—Written Evaluation

WRS—Weapons Readiness State

WX—Weather