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MEMORANDUM FOR DISTRIBUTION C  
MAJCOMs/FOAs/DRUs

FROM: HQ USAF/A3  
1630 Air Force Pentagon  
Washington DC 20330-1630

SUBJECT: Air Force Guidance Memorandum to Air Force Manual (AFMAN) 13-1 CRC  
Volume 2, *Control and Reporting Center (CRC) – Evaluation Criteria*.

By Order of the Secretary of the Air Force, this Air Force Guidance Memorandum (AFGM) immediately implements changes to AFMAN 13-1 CRC Volume 2, *Control and Reporting Center (CRC) – Evaluation Criteria*. This Guidance Memorandum (GM) adds the Mission System Operator (MSO) Evaluation Objective, Evaluation Criteria, and Instructor requirements. Compliance with this Memorandum is mandatory. To the extent its directions are inconsistent with other Department of the Air Force publications, the information herein prevails, in accordance with DAFMAN 90-161, *Publishing Processes and Procedures*.

This AFGM changes AFMAN 13-1CRCV2 as listed in Attachment 1.

Ensure all records generated because of processes prescribed in this publication adhere to AFI 33-322, *Records Management and Information Governance Program*, and are disposed in accordance with the Air Force Records Disposition Schedule which is in the Air Force Records Information Management System.

This memorandum becomes void after one year has elapsed from the date of this memorandum, or upon publication of an interim change or rewrite of AFMAN 13-1 CRCV2, whichever is earlier.

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Deputy Chief of Staff for Operations

Attachment

The below changes to AFMAN 13-1 CRC Volume 2 *Control and Reporting Center (CRC) – Evaluation Criteria* are effective immediately.

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1.1.2. Offices of Collateral Responsibility for this publication are Headquarters (HQ) Pacific Air Forces (PACAF)/A310, United States Air Forces in Europe – Air Forces Africa (USAFE-AFAFRICA)/A3ZJ, and National Guard Bureau (NGB) A3/10. This publication does not apply to AETC FTU operations. AETC may use this manual as a reference for purpose of ensuring uniformity and commonality in development of CRC FTU evaluation criteria, policies, and programs. AETC 13 series instructions relating to CRC evaluations will be routed to the ACC/A3C for coordination prior to certification and approval.

1.2.1.2. Address time sensitive changes by AF Guidance Memorandum. Coordinate Air Force Guidance Memorandum (AFGM) with NGB A3/10, 19 AF/DOV, USAFE-AFAFRICA/A30-C and PACAF/A310 to ensure appropriate guidance can be issued in those Major Commands (MAJCOMs).

1.2.3. NGB A3/10

1.3.2. Units, with Numbered Air Force oversight, will forward their supplements through appropriate channels to the Numbered Air Force and respective MAJCOMs for review, coordination, and approval. **(T-3)** ANG units will coordinate their supplement with NGB A3/10 as well as the Numbered Air Force with Stan/Eval oversight responsibility. **(T-2)** The Numbered Air Force with standardization and evaluation (Stan/Eval) oversight responsibility will be the approval authority for unit supplements and will provide the applicable MAJCOM a copy of the approved supplement. **(T-2)**

**Chapter 8**

**MISSION SYSTEM OPERATOR**

8.1. **General.** This chapter contains the criteria specifying the tasks required of a qualified Mission System Operator (MSO) in accordance with AFGM of AFMAN 13-1GBMC2V2. Evaluation requirements are outlined in **Table 8.1** for MSO and Instructor MSO.

8.1.1. Evaluation Objectives

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8.1.1.1. Qualification Evaluation. The examinee will be evaluated on their ability to accomplish required tasks safely and effectively, in accordance with technical orders, manuals, directives, and operating procedures applicable to the evaluated mission. **(T-3)** Qualification evaluations will encompass all areas identified in **Table 8.1**. **(T-3)** All efforts should be made to conduct the evaluation during a live/virtual/constructive mission with a full operations crew as defined in AFGM to AFMAN 13-1CRCV3, **Table 6.1**. MSO qualification evaluations will be conducted, at a minimum, with a battle management team and applicable technicians during a live/virtual/constructive mission. **(T-3)** The examinee must demonstrate a degree of knowledge and proficiency essential for successful mission accomplishment and safety of flight to include aircraft emergencies. **(T-3)** Tasks not observed and assessed during the normal course of evaluation will be evaluated verbally while the examinee is on position. **(T-3)** When possible, the evaluation will be conducted in a controlled communications jamming environment; otherwise, communications jamming may be simulated. **(T-3)** The evaluation should include either by live or SIM the participation of one or more external theater air control system unit or agency. At least one tactical digital information link will be used. **(T-3)** Link events can occur on different days and/or with different agencies. **Note:** The intent of the qualification evaluation is for the examinee to demonstrate proficiency with the system (i.e., in accordance with switch actions, sensor knowledge, system capabilities) and an ability to effectively employ that system.

8.1.1.2. Mission Evaluation. The examinee will be evaluated on their ability to accomplish required tasks safely and effectively, in accordance with technical orders, manuals, directives, and operating procedures applicable to the evaluation area table. **(T-3)** Mission evaluations will encompass all required areas identified in **Table 8.1** for the mission profile performed. **(T-3)** All efforts should be made to conduct the evaluation with a full operations crew as defined in AFGM to AFMAN 13-1CRCV3, **Table 6.1**. MSO mission evaluation will be conducted, at a minimum, with a battle management team and applicable technicians during a live/virtual/constructive mission. **(T-3)** The examinee must demonstrate a degree of knowledge and proficiency essential for successful mission accomplishment, profile execution, and safety of flight to include aircraft emergencies. **(T-3)** Tasks not observed and assessed during the normal course of the evaluation will be evaluated verbally while the examinee is on position. **(T-3)** When possible, mission qualification (MSN) will replicate large force employment scenarios with supporting theater documents (SPINS, ROE, air tasking order/airspace control order (ATO/ACO), etc.), mission packages, and command and control electronic warfare and higher headquarters integration. **(T-3)** The evaluation should include either by live or SIM the participation of one or more external theater air control system unit or agency. Evaluations during exercises or exercise deployments are encouraged. Evaluations during contingency/combat deployment may only be given after all extensions have been exhausted as a last resort in order to maintain mission qualification status with the concurrence of the examinee, the deployed and unit commander. When possible, the evaluation will be conducted in a controlled communications jamming environment; otherwise, communications jamming may be simulated. **(T-3)** **Note:** The intent of the mission evaluation is for the examinee to demonstrate proficiency while employing the system in a live/virtual large force scenario (i.e., in accordance with crew coordination, air picture management, sensor employment).

8.1.1.3. There will be instances where an examinee, during the mission, accomplishes all areas required for both the qualification and mission evaluations. In this case, the evaluation will be

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annotated as a QUAL/MSN evaluation. **(T-3)** Acceptability of required activity will be based on the evaluator's determination that all areas required for a mission and qualification evaluation have been met. **(T-3)**

8.1.1.4. Completion of a MSO and/or Instructor MSO evaluation includes demonstrations of competence as an Interface Control Technician (ICT) and a Surveillance Technician (ST). An Examiner MSO may accomplish evaluations on ICT, ST, and other MSOs with commensurate crew certification (e.g., Senior System Operator (SSO)). An Examiner MSO with a SSO certification may evaluate an Air Surveillance Technician (AST).

8.1.1.5. Some evaluation areas have additional criteria for SSO. This criterion is only applicable on their MSN evaluation when the SSO will re-accomplish certification. On their QUAL evaluation, SSOs will be evaluated to MSO evaluation criteria. **(T-3)**

8.1.1.6. Instructor MSOs that were previously qualified as Instructor ASTs, Instructor ICTs, and/or Instructor STs may continue to instruct those crew positions when authorized by the unit letter of qualification/certification.

8.1.1.6.1. AF Form 8 may include one of the following restrictions, as applicable.

8.1.1.6.1.1. RESTRICTION: Examinee may only instruct MSO and ST.

8.1.1.6.1.2. RESTRICTION: Examinee may only instruct MSO, ICT, and ST.

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**Table 8.1. MSO Evaluation Areas**

<b>Evaluation Areas</b>	<b>QUAL</b>	<b>INSTR</b>	<b>MSN</b>
<b>General</b>			
1. Mission Planning	R		R <sup>1</sup>
2. Briefing/Debriefing	R		R
3. Equipment Setup and Checkout	R		R <sup>1</sup>
4. Console Operations and Displays	R		
5. Positional Changeover Briefing			R
6. Emergency Action Procedures and Equipment	R		
7. Authentication Procedures			R
8. Security/COMSEC (CRITICAL)	R	R	R
9. Safety (CRITICAL)	R	R	R
10. Aircraft Emergency (CRITICAL)	R	R	R
<b>Tactical Employment</b>			
11. Coordination (CRITICAL)	R	R	R
12. Crew Discipline (CRITICAL)	R	R	R
13. Radio/Telephone (R/T) Procedures	R		R
14. Battle Management	R		R
15. Crew Leadership			R <sup>1</sup>
16. Tactical Data Link (TDL) Operations	R		R
17. Air/Ground Picture Maintenance			R <sup>1</sup>
18. Database Initialization/Management and System Operations	R		R
19. Sensor Operations	R		R
20. Voice Tell Operations	R		
21. Track Identification	R		R
<b>Instructor Areas*</b>			
22. Instructional Ability	R	R	R
23. Briefings/Critique	R	R	R
24. Demonstration and Performance	R	R	R
<b>R</b> – Required evaluation area  <b>NOTES:</b>  1. SSO Only  *Only required for instructor qualified crew members. A grade of “U” in these areas results in an overall grade of 3 for the instructor portion of the evaluation.			

**8.2 Evaluation Criteria.** All areas in this section will be graded using the grading policy in AFMAN 13-1 GBMC2 Vol 2 Stan/Eval and any criteria listed within the individual areas. **(T-2)**

8.2.1. Area 1: Mission Planning.

8.2.1.1. MSO

8.2.1.1.1. **Q.** Extracted information from mission planning documents as directed by the crew/team lead. Assisted in the preparation of information required for the crew briefing. Read and initialed all items in the Flight Crew Information File (FCIF) and/or read files.

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

8.2.1.1.3. **U**. Failed to extract information from mission planning documents as directed by the crew/team lead. Failed to assist in the preparation of information required for the crew briefing. Failed to read and/or initial all items in the FCIF and/or read files. Committed errors or omissions that could have jeopardized mission accomplishment.

#### **8.2.1.2. SSO**

8.2.1.2.1. **Q**. Determined mission tasking, ID criteria, area of responsibility (AOR), data link requirements, communications requirements, and surveillance plans for mission planning documents. Determined crew manning for MSOs requirements to meet mission tasking. Obtained equipment status from Job Control.

8.2.1.2.2. **Q-**. Determined mission tasking, ID criteria, AOR, data link requirements, communications requirements, and surveillance plans for mission planning documents. Determined crew manning for MSO. Requirements to meet mission tasking. Obtained equipment status from Job Control. Committed errors or omissions that did not adversely affect mission accomplishment.

8.2.1.2.3. **U**. Failed to determine mission tasking, ID criteria, AOR, data link requirements, communications requirements, and surveillance plans for mission planning documents. Failed to determine crew manning for MSOs requirements to meet mission tasking. Did not obtain equipment status from Job Control. Committed errors and omissions that could have jeopardized mission accomplishment.

#### **8.2.2. Area 2: Briefing/Debriefing.**

8.2.2.1. **Q**. Attended and participated in all required briefing/debriefings and extracted/provided all necessary information. Briefed link architecture, as needed, during execution and debriefed crew on link operations during missions. Provided all necessary information (i.e., in accordance with unit's track number block, any participating unit, Joint Tactical Information Distribution System (JTIDS) unit, filter plan, etc.). Provided specific instructional fixes to correct errors and requested input from others. Summarized mission execution, identified lessons learned, and compared mission results with crew objectives.

8.2.2.2. **Q-**. Attended and participated in all required briefing/debriefings and extracted/provided all necessary information. Briefed link architecture during, as needed, execution and debriefed crew on link operations during missions. Provided all necessary information (i.e., in accordance with unit's track number block, any participating unit, JTIDS unit, filter plan, etc.). Provided specific instructional fixes to correct errors and requested input from others. Summarized mission execution, identified lessons learned, and compared mission

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results with crew objectives. Committed errors or omissions that did not jeopardize mission accomplishment.

8.2.2.3. **U.** Failed to attend and participate in all required briefing/debriefings and extract/provide all necessary information. Did not brief, if needed, link architecture and equipment status and did not extract/provide all necessary information (i.e., in accordance with unit's track block number, any participating units/JTIDS units, filter plan, etc.). Failed to establish and maintain team concept and environment for open communications and feedback. Committed errors or omissions that could have jeopardized mission accomplishment.

#### 8.2.3. Area 3: Equipment Setup/Checkout.

##### 8.2.3.1. MSO

8.2.3.1.1. **Q.** Configured workstations and data link communications equipment for operations. Ensured operational checks were completed on all equipment (to include Joint Range Extension (JRE), data link equipment, etc.) before mission. Ensured equipment outages were reported. Ensured the required radios were available, configured, frequencies assigned, and cryptographic equipment loaded and configured. Performed initial data link equipment checkout. Setup, configured, and operated the communications equipment and display/workstation to optimize situational awareness in accordance with positional checklist.

8.2.3.1.2. **Q-.** Configured workstations and data link communications equipment for operations. Ensured operational checks were completed on all equipment (to include JRE, JTIDS terminal, etc.) before mission. Ensured equipment outages were reported. Ensured the required radios were available, configured, frequencies assigned, and cryptographic equipment loaded and configured. Performed initial data link equipment checkout. Setup, configured, and operated the communications equipment and display/workstation to optimize situational awareness in accordance with positional checklist. Committed errors or omissions that did not adversely affect mission accomplishment.

8.2.3.1.3. **U.** Failed to configure workstations and/or data link communications equipment for operations. Failed to ensure operational checks were completed on all equipment (to include JRE, JTIDS terminal, etc.) before mission. Failed to ensure equipment outages were reported. Failed to ensure the required radios were available, configured, frequencies assigned, and cryptographic equipment loaded and configured. Failed to perform initial data link equipment checkout. Failed to setup, configure, and operate the communications equipment and display/workstation to optimize situational awareness in accordance with positional checklists. Committed errors or omissions that could have jeopardized mission accomplishment.

##### 8.2.3.2. SSO

8.2.3.2.1. **Q.** Ensured equipment outages were reported to Job Control and to the crew lead. Configured mission profile, overlays, and doctrine as planned for mission execution.

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8.2.3.2.2. **Q-**. Ensured equipment outages were reported to Job Control and to the crew lead. Configured mission profile, overlays, and doctrine as planned for mission execution. Committed errors or omissions that did not adversely affect mission accomplishment.

8.2.3.2.3. **U**. Failed to ensure equipment outages were reported to Job Control and to the crew lead. Failed to configure mission profile, overlays, and/or doctrine as planned for mission execution. Committed errors or omission that could have jeopardized mission accomplishment.

#### **8.2.4. Area 4: Console Operations and Displays.**

8.2.4.1. **Q**. Setup and operated the workstation and data link equipment in accordance with unit checklist. Interpreted, initiated, and updated data for computer displays. Responded to alarms and alerts. Performed surveillance-related console operations to maintain an accurate air picture. Located controls and indicators on the JRE and/or workstation. Customized data links and display presentations.

8.2.4.2. **Q-**. Setup and operated the workstation and data link equipment in accordance with unit checklist. Interpreted, initiated, and updated data for computer displays. Responded to alarms and alerts. Performed surveillance-related console operations to maintain an accurate air picture. Located controls and indicators on the JRE and/or workstation. Customized data links and display presentations. Committed errors or omissions that did not adversely affect mission accomplishment.

8.2.4.3. **U**. Failed to setup and operate the workstation and/or data link equipment in accordance with unit checklist. Failed to interpret, initiate, and update data for computer displays. Failed to response to alarms and alerts. Failed to perform surveillance-related console operations to maintain an accurate air picture. Could not locate controls and/or indicators on the JRE, and/or workstation, or could not customize data and display presentations. Committed errors or omissions that could have jeopardized mission accomplishment.

#### **8.2.5. Area 5: Positional Changeover Briefing.**

8.2.5.1. **Q**. Briefed the relieving crewmember on the current operational situation before departing position. Conducted positional briefing in accordance with positional checklist.

8.2.5.2. **Q-**. Briefed the relieving crewmember on the current operational situation before departing position. Conducted positional briefing in accordance with positional checklist. Committed errors or omissions that did not adversely affect mission accomplishment.

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

#### **8.2.6. Area 6: Emergency Action Procedures and Equipment.**



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8.2.6.1. **Q.** Demonstrated thorough knowledge of emergency action procedures/equipment and did not delay in assessing the reacting to an emergency. Thoroughly familiar with additional emergency duties. Coordinated with other crew members without delay.

8.2.6.2. **Q-.** Committed errors, omissions, or delays in emergency action procedures or had minor errors in knowledge of emergency procedures/equipment that did not result in an unsafe situation or jeopardize mission accomplishment.

8.2.6.3. **U.** Unsatisfactory knowledge of emergency action procedures/equipment. Misunderstood additional emergency duties. Improperly or ineffectively coordinated with other crew members causing errors, omissions, delays, or confusion that resulted in an unsafe situation and/or jeopardized mission accomplishment.

8.2.7. Area 7: Authentication Procedures.

8.2.7.1. **Q.** Authenticated voice transmission within time limits specified on authenticators.

8.2.7.2. **Q-.** Authenticated voice transmission within time limited specified on authenticators. Committed errors or omissions that did not jeopardize mission accomplishment.

8.2.7.3. **U.** Committed errors or omission that jeopardized mission accomplishment.

8.2.8. Area 8: Security/COMSEC (CRITICAL).

8.2.8.1. **Q.** Used and maintained positive control of all COMSEC equipment (i.e., in accordance with simple key loader (SKL), load cable, and bag) and materials necessary for mission accomplishment in accordance with AFMAN 17-1302-O, *Communication Security (COMSEC) Operations*.

8.2.8.2. **U.** Failed to use and maintain positive control of any and all COMSEC equipment (i.e., in accordance with SKL, load cable, and bag) and materials necessary for mission accomplishment in accordance with AFMAN 17-1302-O.

8.2.9. Area 9: Safety (CRITICAL).

8.2.9.1. **Q.** Aware of and complied with all safety factors required for safe operation and mission accomplishment. Ensured appropriate safety checks were accomplished as needed. Ensured adequate coordination to prevent unsafe acts. Located safety hazards and explained proper use of safety equipment. Located electrical, fire, physical, and radiation safety hazards. Located and explain the proper use of fire extinguishers.

8.2.9.2. **U.** Was not aware of or did not comply with all safety factors required for safe operation and mission accomplishment. Failed to ensure appropriate safety checks were accomplished when needed. Failed to locate safety hazards and explain the proper use of safety equipment. Failed to locate electrical, fire, physical, and radiation safety hazards. Failed to locate and

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explain the proper use of fire extinguishers. Committed errors or omissions that could have jeopardized personnel safety or equipment.

#### **8.2.10. Area 10: Aircraft Emergency (CRITICAL).**

8.2.10.1. **Q.** Recognized the existence of an aircraft emergency. Assisted the crew in handling an aircraft emergency. Entered the appropriate emergency point on the scope. Notified crewmembers of the aircraft emergency. Coordinated responses in accordance with an emergency checklist.

8.2.10.2. **U.** Failed to recognize an aircraft emergency. Failed to assist the crew in handling an aircraft emergency. Failed to respond in a timely manner, and failed to enter the appropriate emergency point on the scope. Did not notify crewmembers of the aircraft emergency. Did not follow the aircraft emergency checklist. Committed errors or omissions that led to the loss of the aircraft and/or aircrew, or jeopardized mission accomplishment.

#### **8.2.11. Area 11: Coordination (CRITICAL).**

8.2.11.1. **Q.** Coordinated with the mission crew to ensure equipment and assets were available and used to accomplish the assigned mission. Ensured coordination and information flow within the section, cross-sections, and with external agencies as required.

8.2.11.2. **U.** Failed to coordinate with the mission crew to ensure equipment and assets were available and used to accomplish the assigned mission. Failed to ensure coordination and information flow within the section, cross-sections, and/or with external agencies as required. Committed errors or omissions that could have jeopardized mission accomplishment.

#### **8.2.12. Area 12: Crew Discipline (CRITICAL).**

8.2.12.1. **Q.** Demonstrated strict professional crew discipline throughout all phases of the mission. Executed the assigned mission in a timely, efficient manner.

8.2.12.2. **U.** Failed to exhibit strict crew discipline. Violated or ignored rules or instructions. Decision or lack thereof resulted in failure to accomplish the assigned mission. Demonstrated poor judgment to the extent that safety or mission accomplishment was compromised.

#### **8.2.13. Area 13: Radio/Telephone (R/T) Procedures.**

8.2.13.1. **Q.** Employed R/T procedures with an external agency in accordance with air force tactics techniques and procedures (AFTTP) 3-3.IPE, Chapter 5 and AFTTP 3-2.8 Air Control Communication. Acknowledged all communications.

8.2.13.2. **Q-.** Employed R/T procedures with an external agency with errors or omissions that did not jeopardized mission accomplishment. Performance included errors, omission or delays that did not jeopardized mission accomplishment or safety.

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8.2.13.3. **U.** Failed to employ R/T procedures with external agency in accordance with ATTP3-3.IPE, Chapter 5 and AFTTP 3-2.8 Air Control Communication. Did not acknowledge all communications.

**8.2.14. Area 14: Battle Management**

8.2.14.1. **Q.** Executed the assigned mission in a timely, efficient manner with a battle management team and supported the crew/team lead on employment of resources; joint air operations plan (JAOP), operations plan (OPLAN), ATO/ACO, operational tasking data link (OPTASKLINK), special instructions (SPINS), and other mission specific documents, procedures and taskings. Assessed rules of engagement (ROE) and identification (ID) procedures based on changing alert conditions; and when delegated, authorized declaration of targets in accordance with theater ID matrix and ROE. Detected, identified, reported, and tracked air traffic within the assigned area; and when delegated, supervised the declaration of targets as hostile based on hostile intent/ hostile act criteria and level of authority. Supported or, when delegated, supervised electronic protection efforts to counter electronic attack, and disseminated air defense warnings as required. Monitored and supported personnel recovery/combat search and rescue (PR/CSAR) efforts as tasked. Recognized or responded to an anti-radiation missile (ARM) attack profile warning and notified the crew and complied with ARM attack checklist.

8.2.14.2. **Q-.** Executed the assigned mission in a timely, efficient manner with a battle management team and provided guidance to the crew/team lead on employment of resources; JAOP, OPLAN, ATO/ACO, OPTASKLINK, SPINS, and other mission specific documents, procedures and taskings. Assessed ROE and ID procedures based on changing alert conditions; and when delegated, authorized declaration of targets in accordance with theater ID matrix and ROE. Detected, identified, reported, and tracked air traffic within the assigned area; and when delegated, supervised the declaration of targets as hostile based on hostile intent/ hostile act criteria and level of authority. Supported or, when delegated, supervised electronic protection efforts to counter electronic attack, and disseminated air defense warnings as required. Monitored and supported PR/CSAR efforts as tasked. Recognized or responded to an ARM attack profile warning and notified the crew, and complied with ARM attack checklist. Committed errors or omissions that did not adversely affect mission accomplishment.

8.2.14.3. **U.** Failed to execute the assigned mission in a timely, efficient manner with a battle management team. Failed to provide guidance to the crew/team lead on employment of resources, JAOP, OPLAN, ATO/ACO, OPTASK LINK, SPINS, and other mission specific documents, procedures, and taskings. Failed to access ROE and ID procedures based on changing alert conditions. When delegated, failed to authorize declaration of targets in accordance with theater ID matrix, and ROE. Did not monitor detection, tracking, and ID of air traffic within the assigned area. When delegated, failed to supervise the declaration of targets as hostile based on hostile intent/hostile act criteria and level of authority. Did not support, or when delegated, supervise electronic protection efforts to counter electronic attack and failed to disseminate air defense warnings as required. Did not monitor and/or support PR/CSAR efforts as tasked. Failed to recognize or respond to an ARM attack profile warning and failed to notify the crew, and did not comply with ARM attack checklist. Committed errors or omissions that could have jeopardized mission accomplishment.

**8.2.15. Area 15: Crew Leadership (SSO Only)**

**8.2.15.1. Q.** Supervised tracking and identification of all air traffic within the assigned area, ensured identification procedures were properly executed in a timely manner, and ensured all tracks were properly identified. Ensured flight plan information was disseminated to adjacent/subordinate units, and approved all cancel track actions. Ensured coordination of ID activities with adjacent air traffic control facilities, and directed sensor configuration at subordinate units. Ensured data link track filters were built as required. Supervised team functions to ensure accomplishment of mission objectives, and prioritized tasks plus available resources to manage workload of the team. Ensured available assets were used to accomplish assigned mission, and ensured coordination plus information flow within operations as required. Coordinated and directed track production tasks for assigned area in accordance with ATO, ACO, and SPINS. Ensured the team was aware of airspace control measures (ACMs) involved in the identification process (i.e., enemy airspaces [point of origin criteria], minimum risk routes).

**8.2.15.2. Q-.** Supervised tracking and identification of all air traffic within the assigned area, ensured identification procedures were properly executed in a timely manner, and ensured all tracks were properly identified. Ensured flight plan information was disseminated to adjacent/subordinate units, and approved all cancel track actions. Ensured coordination of ID activities with adjacent air traffic control facilities, and directed sensor configuration at subordinate units. Ensured data link track filters were built as required. Supervised team functions to ensure accomplishment of mission objectives, and prioritized tasks and available resources to manage workload of the team. Ensured available assets were used to accomplish assigned mission, and ensured coordination plus information flow within operations as required. Coordinated and directed track production tasks for assigned area in accordance with ATO, ACO, and SPINS. Ensured the team was aware of ACMs involved in the identification process (i.e., enemy airspaces [point of origin criteria], minimum risk routes). Committed errors or omissions that did not jeopardize mission accomplishment.

**8.2.15.3. U.** Failed to supervise tracking and/or identification of all air traffic within the assigned area, failed to ensure identification procedures were properly executed in a timely manner, and failed to ensure that all tracks were properly identified. Failed to ensure flight plan information was disseminated to adjacent/subordinate units, and failed to approve all cancel track actions. Failed to ensure coordination of ID activities with adjacent air traffic control facilities, and failed to ensure data link track filters were built as required. Failed to supervise team functions to ensure accomplishment of mission objectives, and failed to prioritize tasks and available resources to manage workload of the team. Failed to ensure available assets were used to accomplish assigned mission, and failed to ensure coordination plus information flow within operations as required. Failed to coordinate and direct track production tasks for assigned area in accordance with ATO, ACO, and SPINS. Failed to ensure the sensor battle management team was aware of ACMs involved in the identification process (i.e., enemy airspaces [point of origin criteria], minimum risk routes). Committed errors or omissions that jeopardized mission accomplishment.

**8.2.16. Area 16: Tactical Data Links (TDL) Operations**

8.2.16.1. **Q.** Performed initial data link equipment checkout. Built, initiated, and maintained a radio frequency (RF) Link 16 and Joint Range Extension Application Protocol (JREAP) at a minimum. Built, initiated, and maintained a Link 11 or Link 11B as required. Conducted data link operations as directed and reported link problems in accordance with established procedures. Modified data link database information as directed. Established, maintained, and troubleshot data links, and monitored data link effectiveness. Ensured data link configurations are in accordance with the OPTASKLINK/theater link guidance and that ATO/ACO information is correct and up to date. Utilized the Datalink coordination network/track supervision network (DCN/TSN) 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 team lead as appropriate, and interpreted and responded to data link messages in a timely manner.

8.2.16.2. **Q-.** Performed initial data link equipment checkout. Built, initiated, and maintained a RF Link and JREAP at a minimum. Built, initiated, and maintained a Link 11 or Link 11B as required. Conducted data link operations as directed and reported link problems in accordance with established procedures. Modified data link database information as directed. Established, maintained, and troubleshot data links, and monitored data link effectiveness. Ensured data link configurations are in accordance with the OPTASKLINK/theater link guidance and that ATO/ACO information is correct and up to date. Utilized the DCN/TSN 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 team lead as appropriate, and interpreted and responded to data link messages in a timely manner. Committed errors or omissions that did not jeopardize mission accomplishment.

8.2.16.3. **U.** Failed to perform initial data link equipment checkout. Failed to build, initiate, and maintain a RF Link and a JREAP at a minimum. Failed to build, initiate, and maintain a Link 11 or Link 11B as required. Failed to conduct data link operations as directed and failed to report link problems in accordance with established procedures. Failed to modify data link database information as directed. Failed to establish, maintain, and troubleshot data links, and monitor data link effectiveness. Failed to ensure data link configurations are in accordance with the OPTASKLINK/theater link guidance and that ATO/ACO information is correct and up to date. Failed to use DCN/TSN to coordinate with other data link agencies, did not coordinate the designation, and use of frequencies and/or channels assigned to interface data links, and voice coordination networks. Did not implement changes in interface configurations as directed. Failed to build and implement data link filters as required. Did not recommend changes in data link configurations to the team lead as appropriate, and failed to interpret and respond to data link messages in a timely manner. Committed errors or omissions that jeopardized mission accomplishment.

8.2.17. Area 17: Air/Ground Picture Management (SSO only)

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(Added) 8.2.17.1. **Q.** Ensured timely and accurate collection, display, and dissemination of air surveillance data to higher, lateral, and subordinate units as appropriate. Ensured implementation of the ACO while providing safe passage advisories. Ensured active ACMs were properly displayed and coordinated the activation and deactivation of ACMs with the crew. Maintained surveillance tracks within 2 nautical miles of radar data.

8.2.17.2. **Q-.** Ensured timely and accurate collection, display, and dissemination of air surveillance data to higher, lateral, and subordinate units as appropriate. Ensured implementation of the ACO while providing safe passage advisories. Ensured active ACMs were properly displayed and coordinated the activation and deactivation of ACMs with the crew. Maintained surveillance tracks within 2 nautical miles of radar data. Committed errors or omissions that did not adversely affect mission accomplishment.

8.2.17.3. **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 ensure the implementation of the ACO while providing safe passage advisories. Failed to ensure active ACMs were properly displayed and did not coordinate their activation and deactivation of ACMs with the crew. Failed to maintain surveillance tracks within the 2 nautical miles of radar data. Committed errors or omissions that jeopardized mission accomplishment.

8.2.18. Area 18: Database Initialization/Management and System Operations.

8.2.18.1. **Q.** Initiated, modified, and managed the database as directed to meet operational needs. Selected, copied, deleted, reviewed, renamed, shared, and/or created entries as necessary. Ensured database ATO/ACO information was correct. Recommended system configuration changes to the crew, as appropriate. Coordinated on computer problems and workarounds as required. Responded to alarms and alerts in a timely manner.

8.2.18.2. **Q-.** Initiated, modified, and managed the database as directed to meet operational needs. Selected, copied, deleted, reviewed, renamed, shared, and/or created entries as necessary. Ensured database ATO/ACO information was correct. Recommended system configuration changes to the crew, as appropriate. Coordinated on computer problems and workarounds as required. Responded to alarms and alerts in a timely manner. Committed errors or omissions that did not adversely affect mission accomplishment.

8.2.18.3. **U.** Failed to initiate, modify, manage database as directed to meet operational needs. Failed to select, copy, delete, review, rename, share, and/or create entries as necessary. Failed to ensure database ATO/ACO was correct. Did not recommend appropriate system configuration changes. Did not respond to alarms and alerts in a timely manner. Committed errors or omissions that jeopardized mission accomplishment.

8.2.19. Area 19: Sensor Operations.

8.2.19.1. **Q.** Initialized AN/TYQ-23A for use and monitored the status of internal/external communications, operator interface, database information, sensor fusion, and Raytheon Solipsys Multi-Source Correlator Tracker (MSCT) criteria. Ensured proper sensor/site registration

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procedures were implemented as required. Coordinated to resolve registration problems with interfacing units. Ensured sensors were configured and optimized to accomplish the mission. Recognized and analyzed degraded sensor performance.

8.2.19.2. **Q-** Initialized AN/TYQ-23A for use and monitored the status of internal/external communications, operator interface, database information, sensor fusion, and MSCT criteria. Ensured proper sensor/site registration procedures were implemented as required. Coordinated to resolve registration problems with interfacing units. Ensured sensors were configured and optimized to accomplish the mission. Recognized and analyzed degraded sensor performance. Committed errors or omissions that did not adversely affect mission accomplishment and safety.

8.2.19.3. **U.** Failed to initialize the AN/TYQ-23A for use and to monitor the status of internal/external communications, operator interface, database information, sensor fusion, and MSCT criteria. Failed to ensure proper sensor/site registration procedures were implemented as required. Failed to coordinate to resolved registration problems with interfacing units. Failed to ensure sensors were configured and/or optimized to accomplish the mission. Failed to recognize and/or analyze degraded sensor performance. Committed errors or omissions that could have jeopardized mission accomplishment.

8.2.20. Area 20: Voice Tell Operations.

8.2.20.1. **Q.** Performed Voice Tell operations in accordance with AFMAN 13-1CRCV3 and AFTTP 3-3.IPE as directed.

8.2.20.2. **Q-** Performed Voice Tell operations in accordance with AFMAN 13-1CRCV3 and AFTTP 3-3.IPE as directed. Committed errors or omissions that did not adversely affect mission accomplishment.

8.2.20.3. **U.** Failed to perform Voice Tell operations in accordance with AFMAN 13-1CRCV3 and AFTTP 3-3.IPE. Committed errors or omissions that jeopardized mission accomplishment.

8.2.21. Area 21: Track Identification

8.2.21.1. **Q.** Identified air tracks in the assigned area in accordance with identification procedures specified by the ROE. Located and used switch actions to identify tracks. Read and interpreted information displayed on scope. Interpreted track symbols and modifiers. Took appropriate actions associated with initiating and maintaining tracks. Interrogated identification friend or foe/selective identification feature (IFF/SIF) and used switch actions required to display appropriate ID symbols.

8.2.21.1. **Q-** Identified air tracks in the assigned area in accordance with identification procedures specified by the ROE. Located and used switch actions to identify tracks. Read and interpreted information displayed on scope. Interpreted track symbols and modifiers. Took appropriate actions associated with initiating and maintaining tracks. Interrogated IFF/SIF and used switch actions required to display appropriate ID symbols. Committed errors or omissions that did not adversely affect mission accomplishment.

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8.2.21.1. U. Failed to identify air tracks in the assigned area in accordance with identification procedures specified by the 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 IFF/SIF. Failed to use switch actions to display appropriate ID symbols. Committed errors or omissions that jeopardized mission accomplishment.

8.3. Instructor. The following areas are applicable to initial instructor upgrade/all subsequent periodic evaluations of instructors. Specific criteria are included in **paragraph 2.4** of this manual.

8.3.1. Area 22: Instructional Ability.

8.3.2. Area 23: Briefings/Critique.

8.3.3. Area 24: Demonstration and Performance.

### References

AFI 33-322, *Records Management and Information Governance Program*, 23 March 2020

AFMAN 13-1 CRCV3, *Operating Procedures Control and Reporting Center (CRC)*, 3 November 2020

AFTTP 3-2.8, *ACC Multi-Service Tactics, Techniques, and Procedures for Air Control Communication*, September 2021

AFTTP 3-3.IPE, *Combat Fundamentals IPE*, 4 February 2022

DAFMAN 90-161, *Publishing Processes and Procedures*, 15 April 2022

### Abbreviations and Acronyms

ACM – Airspace Control Measure

AETC – Air Education and Training Command

AFGM – Air Force Guidance Memorandum

AFI – Air Force Instruction

AFMAN – Air Force Manual

AFTTP – Air Force Tactics Techniques and Procedures

ANG – Air National Guard

AOR – Area of Responsibility

ARM – Anti-Radiation Missile

AST – Air Surveillance Technicians



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ATO/ACO – Air Tasking Order/Airspace Control Order

COMSEC – Communications Security

CRC – Control and Reporting Center

DCN/TSN – Datalink Coordination Network/Track Supervision Network

FCIF – Flight Crew Information File

FTU – Formal Training Unit

HQ – Headquarters

ID - Identification

ICT – Interface Control Technicians

IFF/SIF – Identification Friend and Foe/Selective Identification Feature

JAOP – Joint Air Operations Plan

JRE – Joint Range Extension

JREAP – Joint Range Extension Application Protocol

JTIDS – Joint Tactical Information Distribution System

MAJCOM – Major Command

MSCT – Multi-Source Correlator Tracker

MSN – Mission Qualification

MSO – Mission System Operator

OPLAN – Operations Plan

OPTASKLINK – Operational Tasking Data Link

PR/CSAR – Personnel Recovery/Combat Search and Rescue

RF – Radio Frequency

ROE – Rules of Engagement

R/T – Radio/Telephone

SKL – Simple Key Loader

SPINS – Special Instructions

SSO – Senior System Operator

ST – Surveillance Technicians

Stan/Eval – Standardization and Evaluation

TDL – Tactical Data Link

**Office Symbols**

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ACC/A3C – Air Combat Command, Command and Control Intelligence, Surveillance, Reconnaissance Operations Division

ACC/A3CG – Air Combat Command Ground Battle Management Systems Branch

NGB A3/10 – National Guard Bureau Airfield Operations and Command and Control Forces Division

PACAF/A310 – Pacific Air Force

USAFE-AFAFRICA/A3ZJ – United States Air Force in Europe and Air Forces Africa Organize, Train, and Equip Division

**BY ORDER OF THE SECRETARY  
OF THE AIR FORCE**

**AIR FORCE MANUAL 13-1 CRC  
VOLUME 2**



**20 OCTOBER 2020**

***Nuclear, Space, Missile, Command and  
Control***

***CONTROL AND REPORTING CENTER  
(CRC) - EVALUATION CRITERIA***

**COMPLIANCE WITH THIS PUBLICATION IS MANDATORY**

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This manual implements Department of the Air Force Policy Directive (DAFPD) 13-1, *Command and Control Enterprise (C2 Enterprise)*, DAFPD 10-9, *Lead Command Designation and Responsibilities for Weapon Systems*, DAFPD 13-2, *Air Traffic Control, Airfield, Airspace and Range Management*, and references Air Force Manual (AFMAN) 13-1 CRC, Volume 1, *Control and Reporting Center (CRC) Training*. This manual gives standardization/evaluation examiners (SEE) and crewmembers performance standards and procedures for conducting positional evaluations. This manual applies to all civilian employees and uniformed members of the Regular Air Force and Air National Guard. This manual does not apply to the Air Force Reserve or United States Space Force. This publication does not apply to Air Education and Training Command (AETC) formal training unit (FTU) operations. AETC take for reference only to ensure equitable standards and commonality in development of CRC FTU evaluation criteria, policies, and programs. Ensure all records created as a result of processes prescribed in this publication are maintained in accordance with Air Force Instruction 33-322, *Records Management and Information Governance Program*, and disposed of in accordance with the Air Force Records Disposition Schedule located in the Air Force Records Information Management System. Refer recommended changes and questions about this publication to the OPR using the AF Form 847, *Recommendation for Change of Publication*; route AF Forms 847 from the field through the appropriate functional chain of command. Major commands (MAJCOMs), Field Operating Agencies (FOAs), Headquarters Air Force (HAF) Direct Reporting Units (DRUs), and subordinate organizations may supplement this publication. MAJCOMs, FOAs, and DRUs will coordinate their supplements to this publication with the OPR for this publication before

publishing; subordinate organizations will coordinate their supplements with parent organizations. See [paragraph 1.3](#) for additional guidance on supplements. The authorities to waive wing/unit level requirements in this publication are identified with a Tier (“T-0, T-1, T-2, T-3”) number following the compliance statement. See DAFI 33-360, *Publications and Forms Management*, for a description of the authorities associated with the Tier numbers. Submit requests for waivers through the chain of command to the appropriate Tier waiver approval authority, or alternately, to the requestor’s commander for non-tiered compliance items.

## ***SUMMARY OF CHANGES***

This is a new manual. It contains new and updated evaluation criteria requirements pertaining to CRC crew members. Review of this manual in its entirety is necessary because of operational modifications and the impact on CRC evaluations, CRC conversion to the AN/TYQ-23A, implementation of the Air Battle Manager (ABM) qualification, and execution of the new CRC crew concept.

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## Chapter 1

### GENERAL INFORMATION

**1.1. General.** This volume, in conjunction with AFMAN 13-1 GBMC2 Vol 2, *Ground Battle Management Command and Control (GBMC2) Standardization/Evaluation Program*, provides both the SEE and examinee with procedures and evaluation criteria for use during positional evaluations Initial Qualification, Qualification (QUAL), Mission Qualification (MSN), Requalification (RQ), and Spot Evaluations. Specific areas are prescribed to ensure an accurate assessment of the proficiency and capabilities of operations personnel. SEEs and examinees are to be thoroughly familiar with the prescribed rating criteria in both manuals.

1.1.1. The criteria apply to all Active Component and Air National Guard (ANG), Combat Mission Ready, and Basic Mission Capable operations crew members performing duties within the Control and Reporting Center (CRC). Throughout this instruction, Air Force Specialty Code 13B refers to ABM, Air Force Specialty Code 1C5X1D refers to Weapons Directors (WD), and Air Force Specialty Code 1C5X1 refers to Command and Control Battle Management Operators.

1.1.2. Offices of Collateral Responsibility for this publication are Headquarters (HQ) Pacific Air Forces/A3/6C, United States Air Forces in Europe – Air Forces Africa (USAFE-AFAFRICA)/A30-C, and National Guard Bureau (NGB)/A2/3/6/10Y. This publication does not apply to AETC FTU operations. AETC may use this manual as a reference for purpose of ensuring uniformity and commonality in development of CRC FTU evaluation criteria, policies, and programs. AETC 13 series instructions relating to CRC evaluations will be routed to the ACC/A3C for coordination prior to certification and approval.

### 1.2. Roles and Responsibilities.

1.2.1. Air Combat Command, Director of Operations (ACC/A3). ACC is designated Lead Command for the CRC. ACC/A3C is the OPR for this volume and will:

1.2.1.1. Process and coordinate changes to this volume with user Commands and forward for approval to AF/A3TY. Specific procedures will be in accordance with [paragraph 1.3](#) of this volume.

1.2.1.2. Address time sensitive changes by AF Guidance Memorandum. Coordinate AF Guidance Memorandum with NGB/A2/3/6/10Y, 19 AF/DOV, USAFE-AFAFRICA/A30-C and Pacific Air Force/A3/6C to ensure appropriate guidance can be issued in those Major Commands (MAJCOMs).

1.2.1.3. Provide overarching guidance and monitor the overall evaluation criteria.

1.2.1.4. Provide command assistance in the resolution of evaluation criteria problems.

1.2.1.5. Provide assistance, guidance, and resources to subordinate units for the implementation, direction, and monitoring of the evaluation criteria to include ACC-gained units.

1.2.2. HQ USAFE-AFAFRICA/A30-C, Pacific Air Force/A3/6C.

1.2.2.1. Provide assistance, guidance, and resources to subordinate units for the implementation, direction, and monitoring of the evaluation criteria.

1.2.2.2. Ensure MAJCOM supplements to this volume are sent to ACC/A3C for coordination prior to AF/A3T coordination.

1.2.2.3. As the theater OPR for MAJCOM level evaluation criteria matters, provide assistance, guidance, and resources to subordinate units for the implementation, direction, and monitoring of the evaluation criteria.

1.2.3. NGB/A2/3/6/10Y.

1.2.3.1. Ensure ANG supplements to this volume are sent to ACC/A3C for coordination prior to AF/A3T coordination.

1.2.3.2. Receive information copies of waiver requests from ACC-gained units, unless specifically noted otherwise. **(T-2)**.

1.2.4. Group Commanders.

1.2.4.1. Manage unit Standardization/Evaluations (Stan/Evals) in accordance with AFMAN 13-1 GBMC2 Vol. 2.

1.2.4.2. Conduct unit Stan/Evals in accordance with AFMAN 13-1 GBMC2 Vol. 2.

1.2.5. Squadron Commanders.

1.2.5.1. Ensure positional evaluations are conducted and documented in accordance with AFMAN 13-1 GBMC2 Vol. 2.

1.2.5.2. Ensure personnel/crews are evaluated to a level of mission/combat readiness that meets unit type code mission capability statements and Missions Essential Task readiness requirements.

### 1.3. Supplements

1.3.1. MAJCOM/A3s will approve MAJCOM supplements. Supplements will not contain procedures that are contrary to this manual.

1.3.2. Units, with Numbered Air Force oversight, will forward their supplements through appropriate channels to the Numbered Air Force and respective MAJCOMs for review, coordination, and approval. **(T-3)**. ANG units will coordinate their supplement with NGB/A2/3/6/10Y as well as the Numbered Air Force with Stan/Eval oversight responsibility. **(T-2)**. The Numbered Air Force with Stan/Eval oversight responsibility will be the approval authority for unit supplements and will provide the applicable MAJCOM a copy of the approved supplement. **(T-2)**.

1.3.2.1. Direct reporting units will specify their equivalent/unique duty positions and evaluation requirements in their unit supplement. **(T-2)**.

1.3.2.2. Supplementary guidance will not be less restrictive than the basic publication, but can be more restrictive. **(T-2)**.

1.3.2.3. Supplemental guidance will not contradict the basic publication. **(T-2)**.

## 1.4. Procedures

1.4.1. 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 will be limited to items not determined by observation, but related to the scenarios being employed for evaluation. **(T-3)**.

1.4.2. Examiners shall conduct evaluations in accordance with this manual. **(T-3)**. Examiners will administer evaluations of those mission/skill sets in which they maintain qualification, unless specifically authorized in this manual. **(T-3)**. **Note:** Evaluations may be conducted in the Mission Training Center located at Tinker AFB, the BC3 Mobile Training Suite (MTS), the AN/TYQ-23A, any facility or system utilizing the Raytheon® Solipsys Multi-Source Correlator Tracker 4.10 or higher software version (the use of the name or mark of any specific manufacturer, commercial product, commodity, or service in this publication does not imply endorsement by the Air Force) or other ACC/A3CG approved like system outlined in the CRC Ready Aircrew Program Tasking Memorandum.

### 1.4.3. Evaluation Procedures.

1.4.3.1. Prior to Evaluation. The SEE explains the purpose of the evaluation and how it is conducted. The examinee will accomplish all mission planning appropriate for the type of evaluation. **(T-3)**.

1.4.3.2. During Evaluation. 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. **(T-3)**.

1.4.3.3. Post Evaluation. The SEE will match the examinee's performance with the grading criteria and will assign an appropriate grade for each area. **(T-3)**. The judgment of the SEE will be the determining factor in assigning an overall grade for the examinee's performance. **(T-3)**. The SEE will consider cumulative momentary deviations. **(T-3)**. The SEE will critique all aspects of the evaluation. **(T-3)**. During this critique, the SEE will review the examinee's overall rating, specific deviations, area grades assigned, and any additional training which the examinee will be required to complete. **(T-3)**. All initial qualification or initial instructor evaluations resulting in Exceptionally Qualified (EQ), Qualified 2 (Q2), or Qualified 3 (Q3) will be debriefed with the examinee's squadron commander/operations officer (or designated representative). **(T-3)**.

1.4.3.4. The examiner will not occupy a primary crew position during the evaluation. **(T-3)**.

1.4.4. Evaluations will be accepted between ACC, USAFE-AFAFRICA, AETC, and ANG CRCs. **(T-3)**. Unit examiners may give evaluations outside of their organization, to include administering evaluations outside of their MAJCOM. If administering evaluations outside of the examiner's MAJCOM, the evaluation will be specifically requested by the MAJCOM Stan/Eval organization of the examinee and approved by the MAJCOM Stan/Eval organization of the examiner in accordance with AFMAN 13-1 GBMC2 Vol. 2.

1.4.5. SEE Objectivity Evaluations. SEE Objectivity Evaluations will be given in accordance with AFMAN 13-1 GBMC2 Vol. 2. **(T-3)**.



## 1.5. Grading Policies

1.5.1. Examiners will use the rating policy contained in AFMAN 13-1 GBMC2 Vol. 2 and the evaluation criteria in this manual for conducting evaluations. **(T-2)**. Use of these criteria will ensure standard and objective evaluations are administered to crew members. **(T-2)**. SEEs and crewmembers will be thoroughly familiar with the prescribed grading criteria in this manual. **(T-2)**. A three-tier grading system (Q, Q-, or Unqualified (U)) will be used for all areas except those designated as CRITICAL, in which case a two-tier grading system (Q or U) will be used. **(T-2)**. An overall rating of Q-3 could result from an unqualified rating of a single critical or multiple noncritical areas.

1.5.2. Critical Areas. Critical areas are defined as events that require adequate accomplishment by the examinee in order to successfully achieve the mission objectives and complete the evaluation. If an examinee receives a "U" grade in any critical area, the overall grade for the evaluation will also be unqualified. **(T-3)**. Critical areas are identified by "(CRITICAL)" following the applicable area title.

1.5.3. Crewmembers receiving an overall Q-3 on either their QUAL or MSN evaluation will be immediately downgraded to unqualified status and must complete a RQ evaluation in accordance with AFMAN 13-1 GBMC2 Vol. 2. **(T-3)**.

## Chapter 2

### EVALUATION REQUIREMENTS

**2.1. General.** All evaluations follow the guidelines set in AFMAN 13-1 GBMC2 Vol. 2. Evaluation requirements are depicted in each crew position's evaluation criteria section.

2.1.1. Required Evaluation Areas. Required evaluation areas are defined as all areas (and associated sub-areas) annotated with an “R” in this document. The examiner will evaluate the examinee's performance in all required areas. **(T-3)**. If an alternate evaluation method is used, the examiner will document the method under the Mission Description paragraph in the Comments section of the AF Form 8, *Certification of Aircrew Qualification*, in accordance with AFMAN 13-1 GBMC2 Vol. 2. **(T-3)**.

2.1.2. Examiners will make every effort, including the use of multi-part evaluations, to evaluate all required areas during the live/virtual portion before resorting to this alternative. **(T-3)**. If an alternate evaluation method is used, the examiner documents the method under the Mission Description paragraph in the Comments section of the AF Form 8, *Certification of Aircrew Qualification*, in accordance with AFMAN 13-1 GBMC2 Vol. 2. **(T-3)**.

**2.2. Requisites.** The following QUAL evaluation requisites are common to all crew positions and will be accomplished in accordance with AFMAN 13-1 GBMC2 Vol. 2 and unit directives. **(T-3)**. The examinee must satisfy all requisites in accordance with AFMAN 13-1 GBMC2 Vol. 2 to complete periodic evaluations. **(T-2)**. These requisites will be recorded under the Requisite Information area, Section II of the AF Form 8. **(T-2)**. Closed book exam questions will come from Master Question File/Local Operating Procedures/All Crew Master Question File. **(T-3)**. For initial evaluations, all academic examinations will be completed prior to any positional portions of the evaluation. **(T-3)**. For RQ evaluations the written examinations will be completed at the discretion of the Chief, Stan/Eval, but within their eligibility period. **(T-3)**. Crewmembers with more than one qualification will complete all applicable closed book exams. **(T-3)**.

**2.3. Mission Qualification (MSN) Evaluation.** The MSN evaluation will be conducted in accordance with AFMAN 13-1 GBMC2 Vol. 2. **(T-3)**. Crewmembers with more than one qualification will complete the MSN evaluation in all applicable crew positions. **(T-3)**.

2.3.1. Mission Profiles. When conducting positional evaluations, mission profiles conducted during positional evaluations are to reflect the unit daily training mission, unit design operations capability tasking, provide realistic assessment of examinee capabilities, and provide assessment of the application of current tactics. **(T-3)**.

2.3.1.1. Mission Simulator Evaluations. Simulations may be used to administer any portion of a positional evaluation not requiring a specific live/virtual scenario. Unit SEEs will identify existing simulation scenarios which include adequate activity to meet the evaluation requirements for the required events. **(T-3)**. If adequate scenarios do not exist, unit Stan/Eval personnel will develop scenario outlines for the simulation activity to be conducted to ensure standardization of both the level of activity and the difficulty for simulation evaluations. **(T-3)**.

**2.4. Instructor Evaluation.** All crewmembers selected for instructor duty must be evaluated to determine their judgment, technical knowledge, instructor ability (including error analysis of student activity), and use of grading documents as well as proficiency in their duty position. **(T-3)**. To initially qualify as an instructor, a crewmember must successfully complete an initial instructor evaluation. **(T-2)**. Subsequent evaluations of instructors are conducted during recurring evaluations in which individuals are qualified to instruct.

2.4.1. Instructors must demonstrate proficiency by instructing a student (or qualified individual acting as a student). **(T-3)**. Instructor examinees must demonstrate the ability to instruct during mission planning and mission execution. **(T-3)**. The examiner may require the examinee to present verbal explanations of equipment operations, procedures, and techniques pertinent to their crew position duties and responsibilities.

2.4.2. Instructor evaluations will be conducted with a student occupying the applicable position whenever possible. **(T-3)**. The student performs those duties prescribed by the instructor for the mission being accomplished. **(T-3)**. The instructor examinee monitors all phases of the mission from an advantageous position and will be prepared to demonstrate or explain any area or procedure. **(T-3)**. The SEE will particularly note the instructor's ability to recognize student difficulties and provide effective, timely corrective action. **(T-3)**. Recurring evaluations will be administered in conjunction with required qualification evaluations and will include all areas using both qualification and instructor criteria. **(T-3)**.

2.4.3. During qualification evaluations of qualified instructors, the examinee must assume the crew position for a period of time of sufficient length to demonstrate proficiency in the crew position. **(T-3)**. The determination of what represents a sufficient length of time is left to the judgment of the SEE. The portion of the mission during which the examinee will occupy the seat position can be determined by the SEE during mission planning or during the course of the mission. **(T-3)**.

2.4.4. All instructors will be graded using the criteria in 2.4.4.1 through 2.4.4.3 below. **(T-3)**.

#### 2.4.4.1. Instructional Ability

2.4.4.1.1. **Q** . Demonstrated ability to communicate effectively. Provided appropriate corrective guidance when necessary. Planned ahead and made timely inputs and directive guidance to prevent mission degradations. **(T-3)**.

2.4.4.1.2. **Q-** . Demonstrated difficulty in communicating with the student. Provided untimely or inappropriate corrective guidance in minor areas or managed time poorly. Had difficulty planning ahead and providing inputs to prevent mission degradation. These discrepancies did not adversely affect safety or mission accomplishment, or adversely affect student progress.

2.4.4.1.3. **U** . Failed to effectively communicate with the student. Did not provide corrective guidance where necessary. Did not plan ahead or anticipate student problems. Deviations adversely affected safety or mission accomplishment or adversely affected student progress. **(T-3)**.

#### 2.4.4.2. Briefings/Critique

2.4.4.2.1. **Q** . Briefings were well organized, accurate, and thorough. Reviewed student's present level of training and defined mission events to be performed. Displayed ability during the critique to reconstruct the flight, offer mission analysis, and provide corrective guidance where appropriate. Completed all training documentation in accordance with AFMAN 13-1 CRC Vol. 1. Training syllabi grades accurately reflected student performance relative to standard. Provided complete and comprehensive comments on training documentation. Thoroughly debriefed student on objectives and key aspects of the mission through reconstruction as needed. Evaluated student performance and discussed appropriate techniques, highlighted strengths/weaknesses with special emphasis on areas for improvement. **(T-3)**.

2.4.4.2.2. **Q-** . Minor errors or omissions in briefings, critique and/or training documents did not affect student progress. **(T-3)**.

2.4.4.2.3. **U** . Briefings were marginal or nonexistent. Did not review student's training folder or past performance. Failed to adequately critique student or provide complete mission analysis. Training syllabi grades did not reflect actual performance of student. Comments in training documentation were incomplete. Strengths and weaknesses were not identified. Overlooked or omitted major discrepancies in the documentation. Incomplete or nonexistent pre-briefing of student's next mission. **(T-3)**.

#### 2.4.4.3. **Demonstration/Performance**

2.4.4.3.1. **Q** . Effectively demonstrated procedures and/or techniques during mission planning and mission execution, making clear distinctions between them. Demonstrated thorough knowledge of mission systems, procedures, and all applicable publications and regulations. **(T-3)**.

2.4.4.3.2. **Q -** . Demonstration of procedures and/or techniques not always effective. Did not always distinguish between procedures and techniques. Minor discrepancies in knowledge of mission systems, procedures, and/or applicable publications and regulations. Minor discrepancies did not affect safety or adversely affect student progress. **(T-3)**.

2.4.4.3.3. **U** . Did not demonstrate correct procedures and/or techniques. Did not or could not distinguish between procedures and techniques. Insufficient knowledge of mission systems, procedures, and/or applicable publications and regulations. Deviations affected safety or adversely affect student progress.

## Chapter 3

### AIR BATTLE MANAGER EVALUATIONS

**3.1. General.** This chapter contains the criteria specifying the tasks required of a qualified ABM in accordance with AFMAN 13-1 GBMC2 Vol. 2. Evaluation requirements are outlined in **Table 3.1** for ABM and Instructor Air Battle Manager.

#### 3.1.1. Evaluation Objectives

3.1.1.1. Qualification Evaluation. The examinee will be evaluated on their ability to accomplish required tasks safely and effectively, in accordance with technical orders, manuals, directives, and operating procedures applicable to the evaluated mission. **(T-3)**. Qualification evaluations will encompass all areas identified in **Table 3.1 (T-3)**. When possible, the evaluation should be conducted with a full operations crew as defined in AFI 13-1 CRC Vol. 3, table 3.1 and 3.2. When a full operations crew cannot be established, the crew composition will be such to meet the intent of the QUAL evaluation to ensure adequate crew coordination is accomplished. **(T-3)**. This will be documented in the Mission Description of the AF Form 8 (Section VIII). **(T-3)**. The examinee must demonstrate a degree of knowledge and proficiency essential for successful mission accomplishment and safety of flight to include aircraft emergencies. **(T-3)**. ABM qualification evaluations may be conducted on live/virtual/constructive missions. Tasks not observed and assessed during the normal course of the evaluation will be evaluated verbally while the examinee is on position. **(T-3)**. ABM qualification evaluations will be conducted on blue air side only to properly evaluate blue control with fighters operating blue air tactics. **(T-3)**. When possible, the evaluation will be conducted in a controlled communications jamming environment; otherwise, communications jamming should be simulated. **(T-3)**. **Note:** The intent of the qualification evaluation is for the examinee to demonstrate proficiency with the system (for example sensor knowledge, system capabilities) and an ability to effectively employ that system.

3.1.1.2. Mission Evaluation. The examinee will be evaluated on their ability to accomplish required tasks safely and effectively, in accordance with technical orders, manuals, directives, and operating procedures applicable to the evaluation areas table. **(T-3)**. Based on the examinee's experience level, an ABM may be required to brief (to include tactics) and or lead certain phases of the mission. Mission Commanders (MC) and Section Leads (SL) will be required to brief (to include tactics) and/or lead certain phases of the mission. **(T-3)**. Mission evaluations will encompass all areas identified in **Table 3.1** for the mission profile performed. **(T-3)**. The examinee must demonstrate a degree of knowledge and proficiency essential for successful mission accomplishment, profile execution, and safety of flight to include aircraft emergencies. **(T-3)**. Mission evaluations may be conducted on live/virtual/constructive missions. Tasks not observed and assessed during the normal course of the evaluation will be evaluated verbally while the examinee is on position. **(T-3)**. When possible, MSN evaluations will replicate large force employment scenarios with supporting theater documents (special instructions (SPINS), rules of engagement (ROE), air tasking orders/airspace control orders (ATOs/ACOs), etc.), mission packages, command and control electronic warfare and higher headquarters integration. **(T-3)**. The evaluation should include participation of at

least one or more external theater air control system units and, when possible, conducted with a full operational crew as defined in AFI 13-1 CRC Vol. 3, table 3.1 and 3.2. Evaluations during exercises or exercise deployments are encouraged. Evaluations during contingency/combat deployments may be given as a last resort in order to maintain mission qualification status with the concurrence of the examinee, the deployed and unit commander. When a full operations crew is used, an Air Defense Artillery (ADA) interface may be simulated. When a full operations crew cannot be established, the crew composition will be such to meet the intent of the MSN evaluation to ensure adequate crew coordination is accomplished. **(T-3)**. This is documented in the Mission Description of the AF Form 8. When possible, the evaluation will be conducted in a controlled communications jamming environment; otherwise, communications jamming will be simulated. **(T-3)**. **Note:** The intent of the mission evaluation is for the examinee to demonstrate proficiency while employing the system in a live/virtual large force scenario (for example crew coordination, battle management, sensor employment).

3.1.1.3. ABM examinees will be evaluated according to their highest certification with evaluation profiles developed by the unit, incorporating the mission characteristics outlined in [paragraph 3.1.1.1](#) and [paragraph 3.1.1.2](#) **(T-3)**.

3.1.1.4. Air Battle Manager. Examinee should conduct weapons activity as an Air-to-Air, planned Air-to-Ground/Surface, or Dynamic Air-to-Ground/Surface controller as determined by the examiner.

3.1.1.5. Section Lead. Examinee will supervise a team conducting tactical control. **(T-3)**.

3.1.1.6. Mission Commander. Examinee will supervise a mission crew conducting tactical control and demonstrate effective prosecution of the air battle. **(T-3)**.

3.1.1.7. Some evaluation areas have additional criteria for SLs and MCs. This criteria is only applicable on their MSN evaluation when the SL or MC will sit at their highest level of certification. On their QUAL evaluation, SLs and MCs will be evaluated to ABM evaluation criteria. **(T-3)**.

3.1.1.8. There will be instances where an examinee during the mission, accomplishes all areas required for both the qualification and the mission evaluation. In this case, the evaluation will be annotated as a QUAL/MSN evaluation. **(T-3)**. Acceptability of required activity will be based on the SEE's determination that all areas required for a mission and a qualification evaluation have been met. **(T-3)**.

3.1.1.9. ABM examiners (no certification) may conduct evaluations on ABM and WD crewmembers.

3.1.1.10. ABM examiners with SL certifications may conduct evaluations on ABM, SL, and WD crewmembers (unless restricted by the unit Letter of Certification).

3.1.1.11. ABM examiners with MC certifications may conduct evaluations on MC, SL, ABM, and WD crewmembers (unless restricted by the unit Letter of Certification).

**Table 3.1. ABM Evaluation Areas.**

<b>Evaluation Areas</b>	<b>QUAL</b>	<b>INSTR</b>	<b>MSN</b>
<b>General</b>			
1. Mission Planning	R		R
2. Briefing/Debriefing	R		R
3. Equipment Setup and Checkout	R		
4. Console Operations and Displays	R		
5. Positional Changeover Briefing			R
6. Emergency Action Procedures and Equipment	R		
7. Authentication Procedures			R
8. Security/COMSEC (CRITICAL)	R	R	R
9. Safety (CRITICAL)	R	R	R
10. Aircraft Emergency (CRITICAL)	R	R	R
<b>Tactical Employment</b>			
11. Coordination (CRITICAL)	R		R
12. Crew Discipline (CRITICAL)	R	R	R
13. Battle Management	R		R
14. Crew Leadership	R		R <sup>2</sup>
15. Tactical Data Link Operations	R		
16. Air Picture Management	R		R
17. Database/System Operations	R		R
18. Sensor Operations	R		
19. Airspace Management	R		R
20. Assumption of Control	R		R
21. Counterair Mission	R <sup>3</sup>		
22. Counterland Mission			R <sup>3</sup>
23. Air Refueling			R
24. Team Supervision			R <sup>4</sup>
<b>Instructor Areas<sup>1</sup></b>			
25. Instructional Ability	R	R	R
26. Briefings/Critique	R	R	R
27. Demonstration and Performance	R	R	R

**R** -Required evaluation area.

**NOTES:**

1. Only required for instructor qualified crew members. A grade of “U” in these areas results in an overall grade of 3 for the instructor portion of the evaluation.
2. SL/MC only
3. For periodic QUAL/MSN evaluations, missionized scenarios that do not meet all areas of counterair, counterland, and air refueling but are sufficient to demonstrate control proficiency, are acceptable if the SEE determines that the intent is met in accordance with **paragraph 4.1.1.4.**
4. SL Only

**3.2. Evaluation Criteria.** All areas in this section will be graded using the grading policy in AFMAN 13-1 GBMC2 Vol. 2 and any criteria listed within the individual areas. **(T-2).**

3.2.1. Area 1: Mission Planning.

3.2.1.1. ABM.

3.2.1.1.1. **Q** . Extracted information from mission planning documents required to plan and execute the tasked mission in accordance with Air Force Tactics, Technique, and Procedures (AFTTP) 3-3.IPE, *Integrated Planning and Employment (IPE)* and operations directives. Extracted ROE information and assisted in mission planning as applicable. Participated in and extracted pertinent information from a briefing with the aircrew as applicable. Read and initialed all items in the flight/crew information file (FCIF) and/or read files.

3.2.1.1.2. **Q-** . Extracted information from mission planning documents required to plan and execute the tasked mission. Extracted ROE information and assisted in mission planning as applicable. Participated in and extracted pertinent information from a briefing with the aircrew as applicable. Read and initialed all items in the FCIF and/or read files. Committed errors or omissions that did not adversely affect mission accomplishment.

3.2.1.1.3. **U** . Failed to extract mission planning information required to execute the tasked mission. Failed to extract ROE information. Did not participate in or extract pertinent information from a briefing with the aircrew as applicable. Failed to read and/or initial all items in the FCIF and/or read files. Committed errors or omissions that jeopardized mission accomplishment.

3.2.1.2. SL.

3.2.1.2.1. **Q** . Directed section planning efforts. Extracted information from mission planning documents required to execute the tasked mission in accordance with AFTTP 3-3.IPE and operations directives. Extracted ROE information and assisted in mission planning as applicable. Participated in and extracted pertinent information from a briefing with the aircrew as applicable. Read and initialed all items in the FCIF and/or read files.



3.2.1.2.2. **Q-** . Directed section planning efforts. Extracted information from mission planning documents required to execute the tasked mission in accordance with AFTTP 3-3.IPE and operations directives. Extracted ROE information and assisted in mission planning as applicable. Participated in and extracted pertinent information from a briefing with the aircrew as applicable. Read and initialed all items in the FCIF and/or read files. Committed errors or omissions that did not adversely affect mission accomplishment.

3.2.1.2.3. **U** . Failed to direct section planning efforts. Failed to extract mission planning information required to execute the tasked mission in accordance with AFTTP 3-3.IPE and operations directives. Failed to extract ROE information. Did not participate in or extract pertinent information from a briefing with the aircrew as applicable. Failed to read and/or initial all items in the FCIF and/or read files. Committed errors or omissions that jeopardized mission accomplishment.

### 3.2.1.3. MC.

3.2.1.3.1. **Q** . Directed mission crew planning efforts. Determined mission tasking, ROE, chain of command, and battle plans from mission planning documents. Provided guidance to the mission crew on: employment of resources; Joint Air Operations Plan (JAOP); Operations Plan (OPLAN); ATO/ACO; operational tasking data link (OPTASK LINK); SPINS; and other mission specific documents, procedures, and taskings. Obtained equipment status and determined impact on operational mission. Read and initialed and ensured the mission crew read and initialed all items in the FCIF and/or read files.

3.2.1.3.2. **Q-** . Directed mission crew planning efforts. Determined mission tasking, ROE, chain of command, and battle plans from mission planning documents. Provided guidance to the mission crew on employment of resources, JAOP, OPLAN, ATO/ACO, OPTASK LINK, SPINS and other mission specific documents, procedures and taskings. Obtained equipment status and determined impact on operational mission. Read and initialed and ensured the mission crew read and initialed all items in the FCIF and/or read files. Committed errors or omissions that did not adversely affect mission accomplishment.

3.2.1.3.3. **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. Did not provide guidance to the mission crew on employment of resources, JAOP, OPLAN, ATO/ACO, OPTASK LINK, SPINS and other mission specific documents, procedures and taskings. Failed to obtain equipment status and/or determine impact of equipment status on operational mission. Failed to read and/or initial or ensure the mission crew read and/or initialed all items in the FCIF and/or read files. Committed errors or omissions that could have jeopardized mission accomplishment.

### 3.2.2. Area 2: Briefing/Debriefing.

3.2.2.1. **Q** . Attended and participated in all required briefings/debriefings, and extracted/provided all necessary information. Performed briefings/debriefings in an organized, logical sequence in accordance with applicable directives. Briefed all areas necessary to conduct tasked mission(s) and conducted aircrew briefings/debriefing in accordance with AFI 11-214, *Air Operations Rules and Procedures*, and other directives. Provided constructive feedback on team and individual performance. Provided specific instructional fixes to correct errors, and requested inputs from others. Summarized mission execution, identified lessons learned, and compared mission results with crew objectives.

3.2.2.2. **Q-** . Attended and participated in all required briefings/debriefings. Briefed areas necessary to conduct the mission and/or conducted briefings/debriefings with aircrew with errors or omissions that did not jeopardize mission accomplishment. Did not effectively establish, nor maintain team concept or environment for open communications and feedback.

3.2.2.3. **U** . Failed to attend and participate in all required briefings/debriefings. Conducted crew and aircrew briefings/debriefings with errors or omissions that jeopardized mission accomplishment. Failed to ensure the crew was thoroughly briefed on all aspects of the mission. Failed to establish and maintain team concept and environment for open communications and feedback.

### 3.2.3. Area 3: Equipment Setup and Checkout.

3.2.3.1. **Q** . Ensured operational checks were completed on all equipment before the mission. Ensured equipment outages were reported. Ensured the required radios were available, configured, frequencies assigned, and cryptographic equipment loaded and configured. Setup and operated the display/workstation to optimize situational awareness in accordance with positional checklists.

3.2.3.2. **Q-** . Ensured operational checks were completed on all equipment before the mission. Ensured equipment outages were reported. Ensured the required radios were available, configured, frequencies assigned, and cryptographic equipment loaded and configured. Setup and operated the display/workstation to optimize situational awareness in accordance with checklists. Committed errors or omissions that did not adversely affect mission accomplishment.

3.2.3.3. **U** . Failed to ensure operational checks were completed on all equipment before the mission. Failed to ensure equipment outages were reported. Failed to ensure the required radios were available, configured, frequencies assigned, and cryptographic equipment loaded and configured. Failed to setup and operate the display/workstation to optimize situational awareness in accordance with checklists. Committed errors or omissions that could have jeopardized mission accomplishment.

### 3.2.4. Area 4: Console Operations and Displays.

3.2.4.1. **Q** . Interpreted, initiated, and updated data for computer displays. Responded to alarms and alerts. Used situation displays to optimize situational awareness.

3.2.4.2. **Q-** . Interpreted, initiated, and updated data for computer displays. Responded to alarms and alerts. Used situation displays to optimize situational awareness. Committed errors or omissions that did not adversely affect mission accomplishment.

3.2.4.3. **U** . Failed to interpret, initiate, and update data for computer displays. Failed to respond to alarms and alerts. Did not use situation displays to optimize situational awareness. Committed errors or omissions that jeopardized mission accomplishment.

3.2.5. Area 5: Positional Changeover Briefing.

3.2.5.1. **Q** . Briefed the relieving crew member on the current operational situation before departing position. Conducted positional changeover briefing in accordance with positional checklist.

3.2.5.2. **Q-** . Briefed the relieving crew member on the current operational situation before departing position. Conducted positional changeover briefing in accordance with positional checklist. Committed errors or omissions that did not adversely affect mission accomplishment.

3.2.5.3. **U** . Failed to brief the relieving crew member on the current operational situation before departing position. Did not conduct positional changeover briefing in accordance with positional checklist. Committed errors or omissions that jeopardized mission accomplishment.

3.2.6. Area 6: Emergency Action Procedures and Equipment.

3.2.6.1. **Q** . Demonstrated thorough knowledge of emergency action procedures/equipment and did not delay in assessing and reacting to an emergency. Thoroughly familiar with additional emergency duties. Coordinated with other crew members without delay.

3.2.6.2. **Q-** . Committed errors, omissions, or delays in emergency action procedures or had minor errors in knowledge of emergency procedures/equipment that did not result in an unsafe situation or jeopardize mission accomplishment.

3.2.6.3. **U** . Unsatisfactory knowledge of emergency action procedures/equipment. Misunderstood additional emergency duties. Improperly or ineffectively coordinated with other crew members causing errors, omissions, delays or confusion that resulted in an unsafe situation and/ or jeopardized mission accomplishment.

3.2.7. Area 7: Authentication Procedures.

3.2.7.1. **Q** . Authenticated voice transmission within time limits specified on authenticators.

3.2.7.2. **Q-** . Authenticated voice transmission within time limits specified on authenticators. Committed errors or omissions that did not jeopardize mission accomplishment.

3.2.7.3. **U** . Committed errors or omissions that jeopardized mission accomplishment.

3.2.8. Area 8: Security/Communications Security (COMSEC) (CRITICAL).

3.2.8.1. **Q** . Used and/or maintained positive control of any and all COMSEC equipment (i.e., in accordance with Simple Key Loader (SKL), load cable and bag) and/or materials necessary for mission accomplishment in accordance with AFMAN 17-1302-O, *Communication Security (COMSEC) Operations*.

3.2.8.2. **U** . Failed to use and/or maintain positive control of any and all COMSEC equipment (i.e., in accordance with SKL, load cable and bag) and/or materials necessary for mission accomplishment in accordance with AFMAN 17-1302-O.

3.2.9. Area 9: Safety (CRITICAL).

3.2.9.1. **Q** . Aware of and complied with all safety factors required for safe operation and mission accomplishment. Ensured appropriate safety checks were accomplished as needed. Ensured adequate coordination to prevent unsafe acts. Located safety hazards and explained proper use of safety equipment. Located electrical, fire, physical and radiation safety hazards. Located and explained the proper use of fire extinguishers.

3.2.9.2. **U** . Was not aware of or did not comply with all safety factors required for safe operation or mission accomplishment. Failed to ensure appropriate safety checks were accomplished when needed. Failed to locate safety hazards and/or explain proper use of safety equipment. Failed to locate electrical, fire, physical and radiation safety hazards. Failed to locate and/or explain proper use of fire extinguishers. Committed errors or omissions that could have jeopardized safety and/or mission accomplishment or resulted in an unsafe act.

3.2.10. Area 10—Aircraft Emergency (CRITICAL).

3.2.10.1. **Q** . Recognized the existence of an aircraft emergency. Assisted controlled aircraft experiencing an emergency in a timely manner. Entered the appropriate emergency point on the scope. Coordinated responses in accordance with an emergency checklist. Notified crewmembers of the aircraft emergency.

3.2.10.2. **U** . Failed to recognize the existence of an aircraft emergency. Did not ensure assistance to controlled aircraft experiencing an emergency in a timely manner. Did not ensure entry of the appropriate emergency point on the scope. Failed to coordinate responses in accordance with an emergency checklist. Failed to notify crewmembers of the aircraft emergency. Committed errors or omissions that led to the loss of the aircraft and/or aircrew, or jeopardized mission accomplishment.

3.2.11. Area 11: Coordination (CRITICAL) .

3.2.11.1. ABM.

3.2.11.1.1. **Q** . Effectively coordinated with other crewmembers, within the section, without misunderstanding.

3.2.11.1.2. **U** . Breakdown in coordination with other crewmembers, within the section, precluded mission accomplishment or jeopardized safety.

3.2.11.2. SL/MC.

3.2.11.2.1. **Q** . Coordinated with the mission crew to ensure equipment and assets were available and used to accomplish the assigned mission. Ensured coordination and information flow within the section and cross-sections as required. Crew communications were clear, concise, and without misunderstanding.

3.2.11.2.2. **U** . Failed to coordinate with the mission crew to ensure equipment and assets were available and used to accomplish the assigned mission. Failed to ensure coordination and information flow within the section and cross-sections. Crew communications were not clear, or concise, resulting in misunderstanding of the tasked mission. Committed errors or omissions that jeopardized mission accomplishment.

### 3.2.12. Area 12: Crew Discipline (CRITICAL).

3.2.12.1. **Q** . Demonstrated strict professional crew discipline throughout all phases of the mission. Executed the assigned mission in a timely and efficient manner.

3.2.12.2. **U** . Failed to exhibit strict crew discipline. Violated or ignored rules or instructions. Decision or lack thereof resulted in failure to accomplish the assigned mission. Demonstrated poor judgment to the extent, that safety or mission accomplishment was compromised.

### 3.2.13. Area 13: Battle Management.

#### 3.2.13.1. ABM/SL.

3.2.13.1.1. **Q** . Committed weapons resources to counter the threat in accordance with theater ROE. Coordinated and/or established combat air patrol (CAP) and hand-over/recovery points as required. Managed air refueling assets and area of responsibility (AOR) fuel requirements. Coordinated airborne orders and scramble/divert alert aircraft when directed or delegated. Detected, identified, reported and tracked air traffic within the assigned area. Recognized or responded to an anti-radiation missile (ARM) attack profile warning and notified the crew. Complied with ARM attack checklist.

3.2.13.1.2. **Q-** . Committed weapons resources to counter the threat in accordance with theater ROE. Coordinated and/or established CAP and hand-over/recovery points as required. Managed air refueling assets and AOR fuel requirements. Coordinated airborne orders and scramble/divert alert aircraft when directed or delegated. Detected, identified, reported and tracked air traffic within the assigned area. Recognized or responded to an ARM attack profile warning and notified the crew. Complied with ARM attack checklist. Committed errors or omission that did not adversely affect mission accomplishment.

3.2.13.1.3. **U** . Failed to commit weapons resources to counter the threat in accordance with theater ROE. Failed to coordinate and/or establish CAP and hand-over/recovery points as required. Failed to manage air refueling assets and AOR fuel requirements. Failed to coordinate airborne orders and scramble/divert alert aircraft when directed or delegated. Failed to detect, identify, report and track air traffic within the assigned area. Failed to recognize or respond to an ARM attack profile warning and failed to notify the crew. Did not comply with ARM attack checklist. Committed errors or omissions that could have jeopardized mission accomplishment.

3.2.13.2. **MC**.

3.2.13.2.1. **Q** . Executed the assigned mission in a timely, efficient manner with a full operations crew as defined in AFI 13-1 CRC Vol. 3, tables 3.1 and 3.2. Assessed ROE and identification (ID) procedures based on changing alert conditions. Directed, supervised, and executed allocation of resources (aircraft, ADA) to counter threat in accordance with ROE and support execution of the airspace control plan (ACP)/ATO. Authorized declaration of targets in accordance with theater identification (ID) matrix and ROE. Ensured engagement tactics were commensurate with threat assessment and ROE. Supervised the declaration of targets as hostile based on hostile intent/hostile act criteria and level of authority. Delegated authorities (i.e., in accordance with ID, Scramble and Engagement) to the SL as required. Monitored ADA status and directed appropriate ADA weapons alert status through the Air Defense Artillery Fire Control Officer (ADAFCO) when applicable. Disseminated air defense warnings as required. Monitored and directed Personnel Recovery/Combat Search and Rescue (PR/CSAR) efforts as tasked. Recognized or responded to an ARM attack profile warning and notified the crew. Complied with ARM attack checklist.

3.2.13.2.2. **Q-** . Executed the assigned mission in a timely, efficient manner with a full operations crew as defined in AFI 13-1 CRC Vol. 3, tables 3.1 and 3.2. Assessed ROE and ID procedures based on changing alert conditions. Directed, supervised, and executed allocation of resources (aircraft, ADA) to counter threat in accordance with ROE and support execution of the ACP/ATO. Authorized declaration of targets in accordance with theater ID matrix and ROE. Detected, identified, reported and tracked air traffic within the assigned area. Ensured engagement tactics were commensurate with threat assessment and ROE. Supervised the declaration of targets as hostile based on hostile intent/ hostile act criteria and level of authority. Delegated authorities (i.e., in accordance with ID, Scramble and Engagement) to the SL as required. Monitored ADA status and directed appropriate ADA weapons alert status through the ADAFCO when applicable. Disseminated air defense warnings as required. Monitored and directed PR/CSAR efforts as tasked. Recognized or responded to an ARM attack profile warning and notified the crew. Complied with ARM attack checklist. Committed errors or omissions that did not adversely affect mission accomplishment.

3.2.13.2.3. **U** . Failed to execute the assigned mission in a timely, efficient manner with a full operations crew as defined in AFI 13-1 CRC Vol. 3, tables 3.1 and 3.2. Failed to assess ROE and ID procedures based on changing alert conditions. Failed to direct, supervise, and execute allocation of resources (aircraft, ADA) to counter threat in accordance with ROE and support execution of the ACP/ATO. Failed to authorize declaration of targets in accordance with theater ID matrix and ROE. Did not monitor detection, tracking, and ID of air traffic within the assigned area. Did not ensure engagement tactics were commensurate with threat assessment and ROE. Failed to direct/supervise the declaration of targets as hostile based on hostile intent/hostile act criteria and level of authority. Failed to delegate authorities (i.e., in accordance with ID, Scramble and Engagement) to the SL as required. Failed to monitor ADA status and direct appropriate ADA weapons alert status through the ADAFCO when applicable. Did not disseminate air defense warnings as required. Did not monitor and direct PR/CSAR efforts as tasked. Failed to recognize or respond to an ARM attack profile warning and failed to notify the crew. Did not comply with ARM attack checklist. Committed errors or omissions that jeopardized mission accomplishment.

3.2.14. Area 14: Crew Leadership.

3.2.14.1. SL.

3.2.14.1.1. **Q** . Directed/supervised section functions to ensure accomplishment of mission objectives. Prioritized tasks and available resources to manage section member workload. Provided/updated threat information to the mission crew as required. Coordinated with other agencies engaged in air operations and provided oncoming battle management command and control (BMC2) assets and on-station briefings (i.e., in accordance with OPLAN, SPINs, ROE, ACO, and ATO).

3.2.14.1.2. **Q-** . Directed/supervised section functions to ensure accomplishment of the mission. Made minor errors prioritizing tasks and available resources to manage section member workload. Provided/updated threat information to the mission crew as required. Coordinated with other agencies engaged in air operations and provided oncoming BMC2 assets and on-station briefings (i.e., in accordance with OPLAN, SPINs, ROE, ACO, and ATO). Committed errors or omissions that did not jeopardize mission accomplishment.

3.2.14.1.3. **U** . Failed to direct/supervise section functions as applicable to ensure accomplishment of mission objectives. Failed to prioritize tasks and available resources to manage section member workload. Failed to provide/update threat information to the mission crew. Failed to coordinate with other agencies engaged in air operations and/or failed to provide oncoming BMC2 assets and on-station briefings (i.e., in accordance with OPLAN, SPINs, ROE, ACO, and ATO). Committed errors or omissions that jeopardized mission accomplishment.

3.2.14.2. MC.

3.2.14.2.1. **Q** . Directed/supervised crew functions to ensure accomplishment of mission objectives. Prioritized tasks and available resources to manage crewmember workload. Allocated/managed radio assignments (i.e., in accordance with OPLAN, ACO, ATO, LOAs, and AFI 11-214). Provided/updated threat information to the mission crew as required. Coordinated for scheduled/unscheduled maintenance impacting mission execution. Ensured coordination and information flow within operations. Coordinated with other agencies engaged in air operations and provided oncoming BMC2 assets an on-station briefing (i.e., in accordance with OPLAN, SPINs, ROE, ACO, and ATO). Coordinated with external agencies for identification of aircraft not normally identifiable by the standard identification matrix. Coordinated for declaration of hostiles based on ROE while ID authority rested outside the CRC. Directed crew through degraded operations levels during changing alert conditions.

3.2.14.2.2. **Q-** . Directed/supervised crew functions to ensure accomplishment of the mission. Made minor errors prioritizing tasks and available resources to manage crewmember workload. Allocated/managed radio assignments (i.e., in accordance with OPLAN, ACO, ATO, LOAs, and AFI 11-214). Provided/updated threat information to the mission crew as required. Coordination for scheduled/unscheduled maintenance impacting mission execution was untimely or incomplete. Ensured coordination and information flow within operations with minor errors. Coordinated with other agencies engaged in air operations and provided oncoming BMC2 assets an on-station briefing (i.e., in accordance with OPLAN, SPINs, ROE, ACO, and ATO). Coordinated with external agencies for identification of aircraft not normally identifiable by the standard identification matrix. Coordinated for declaration of hostiles based on ROE while ID authority rested outside the CRC. Directed the crew through degraded operations levels during changing alert conditions. Committed errors or omissions that did not jeopardize mission accomplishment.

3.2.14.2.3. **U** . Failed to direct/supervise crew functions as applicable to ensure accomplishment of mission objectives. Failed to prioritize tasks and available resources to manage crewmember workload. Did not allocate/manage radio assignments (i.e., in accordance with OPLAN, ACO, ATO, LOAs, and AFI 11-214). Failed to provide/update threat information to the mission crew. Did not coordinate for scheduled/unscheduled maintenance. Did not ensure coordination and information flow within operations. Failed to coordinate with other agencies engaged in air operations and/or failed to provide oncoming BMC2 assets an on-station briefing (i.e., in accordance with OPLAN, SPINs, ROE, ACO, and ATO). Did not coordinate with external agencies for identification of aircraft not normally identifiable by the standard identification matrix. Failed to coordinate for declaration of hostiles based on ROE while ID authority rested outside the CRC. Failed to direct the crew through degraded operations levels during changing alert conditions. Committed errors or omissions that jeopardized mission accomplishment.

### 3.2.15. Area 15: Tactical Data Link (TDL) Operations.



3.2.15.1. **Q** . Conducted data link operations. Directed data link employment and modifications to maintain a common tactical picture. Reported data link problems (i.e., in accordance with Joint Multi-Tactical Data Link (TDL) Operating Procedures (JMTOP) and OPTASK LINK). Supervised the use of the data link coordination network (DCN) and track supervision net (TSN) as required. Implemented data link filters as required. Sent, interpreted, and responded to data link messages in a timely manner.

3.2.15.2. **Q-** . Conducted data link operations. Directed data link employment and modifications to maintain a common tactical picture. Reported data link problems in accordance with (i.e., in accordance with JMTOP and OPTASK LINK). Supervised the use of the DCN/TSN as required. Implemented data link filters as required. Sent, interpreted, and responded to data link messages in a timely manner. Committed errors or omissions that did not jeopardize mission accomplishment.

3.2.15.3. **U** . Failed to conduct data link operations. Failed to direct data link employment and modifications to maintain a common tactical picture. Did not report data link problems (i.e., in accordance with JMTOP and OPTASK LINK). Failed to supervise the use of the DCN/TSN as required. Did not implement data link filters as required. Failed to send, interpret, and respond to data link messages in a timely manner. Committed errors or omissions that could have jeopardized mission accomplishment.

#### 3.2.16. Area 16: Air Picture Management.

3.2.16.1. **Q** . Ensured the CRC maintained an accurate air picture. Recognized air picture/symbols deviations and directed/accomplished corrective action.

3.2.16.2. **Q-** . Ensured the CRC maintained an accurate air picture. Recognized air picture/symbols deviations and directed/accomplished corrective action. Committed errors or omissions that did not adversely affect mission accomplishment.

3.2.16.3. **U** . Failed to ensure the CRC maintained an accurate air picture. Failed to recognize air picture/symbols deviations and failed to direct/accomplish corrective action. Committed errors or omissions that jeopardized mission accomplishment.

#### 3.2.17. Area 17: Database/System Operations.

3.2.17.1. **Q** . Ensured database ATO information was correct and current. Managed the database, system configuration, and coordinated system resets to meet mission needs. Recommended system configuration changes to the crew as appropriate. Configured system and database as required. Coordinated on computer problems and workarounds as required. Responded to alarms and alerts in a timely manner.

3.2.17.2. **Q-** . Ensured database ATO information was correct and current. Managed the database, system configuration, and coordinated system resets to meet mission needs. Recommended system configuration changes to the crew as appropriate. Configured system and database as required. Coordinated on computer problems and workarounds as required. Responded to alarms and alerts in a timely manner. Committed errors or omissions that did not adversely affect mission accomplishment.

3.2.17.3. **U** . Failed to ensure database ATO information was correct and current. Failed to manage the database, system configuration, and coordinate system resets to meet mission needs. Did not recommend system configuration changes to the crew as appropriate. Failed to configure system and database as required. Did not coordinate on computer problems and workarounds as required. Did not respond to alarms and alerts in a timely manner. Committed errors or omissions that jeopardized mission accomplishment.

#### 3.2.18. Area 18: Sensor Operations.

3.2.18.1. **Q** . Ensured sensors were configured and optimized to accomplish the 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. Ensured remote radar data was correlated and data was received on all tracks within the assigned area.

3.2.18.2. **Q-** . Ensured sensors were configured and optimized to accomplish the 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. Ensured remote radar data was correlated and data was received on all tracks within the assigned area. Committed errors or omissions that did not adversely affect mission accomplishment.

3.2.18.3. **U** . Failed to ensure sensors were configured and/or optimized to accomplish the 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. Failed to ensure remote radar data was correlated and data was received on all tracks within the assigned area. Committed errors or omissions that jeopardized mission accomplishment.

#### 3.2.19. Area 19: Airspace Management.

3.2.19.1. **Q** . Complied with airspace management requirements and restrictions (i.e., in accordance with OPLAN, ACO, and LOAs). Initiated airspace requests, and verified airspace restrictions and limitations (i.e., in accordance with OPLAN, ACO, and LOAs). Ensured all efforts were made to keep controlled aircraft inside the lateral and vertical confines of the airspace in a timely manner.

3.2.19.2. **Q-** . Complied with airspace management requirements and restrictions (i.e., in accordance with OPLAN, ACO, and LOAs). Initiated airspace requests, and verified airspace restrictions and limitations (i.e., in accordance with OPLAN, ACO, and LOAs). Ensured 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 did not jeopardize mission accomplishment.

3.2.19.3. **U** . Failed to comply with airspace management requirements and restrictions (i.e., in accordance with OPLAN, ACO, and LOAs). Failed to initiate airspace requests, and did not verify airspace restrictions and limitations (i.e., in accordance with OPLAN, ACO, and LOAs). 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.

### 3.2.20. Area 20: Assumption of Control.

3.2.20.1. **Q** . Located mission aircraft using reported position, radar and/or Identification Friend or Foe, Selective Identification Feature (IFF/SIF), Positive Position Locating Information (PPLI), pilot maneuvering, and/or external sources. Identification was accomplished in a timely manner or negative contact was voiced. Authenticated, as required, and provided the aircrew with a working frequency and/or net and time of day (TOD) when applicable. Provided a brief situation update and provided requested/required information. Conducted IFF/SIF checks and advised aircrew of status. Conducted handoff/recovery (i.e., in accordance with OPLAN, ACO, ATO, LOAs, and AFI 11-214) and in a timely manner.

3.2.20.2. **Q-** . Located mission aircraft using reported position, radar and/or IFF/SIF, PPLI, pilot maneuvering, and/or external sources. Identification was accomplished in a timely manner or negative contact was voiced. Authenticated, as required, and provided the aircrew with a working frequency and/or net and TOD when applicable. Provided a brief situation update and provided requested/required information. Conducted IFF/SIF checks and advised aircrew of status. Conducted handoff/recovery (i.e., in accordance with OPLAN, ACO, ATO, LOAs and AFI 11-214) and in a timely manner. Committed errors or omissions that did not jeopardize mission accomplishment.

3.2.20.3. **U** . Failed to locate aircraft using reported position, radar and/or IFF/SIF, PPLI, pilot maneuvering, and/or external sources. Identification was not accomplished in a timely manner or negative contact was not voiced. Did not authenticate, as required, or provide the aircrew with a working frequency and/or net and TOD when applicable. Did not provide a brief situation update or requested/required information. Failed to conduct IFF/SIF checks and advise aircrew of status. Failed to conduct handoff/recovery (i.e., in accordance with OPLAN, ACO, ATO, LOAs, and AFI 11-214), nor in a timely manner. Committed errors or omissions that could have jeopardized mission accomplishment.

### 3.2.21. Area 21: Counterair Mission.

3.2.21.1. **Q** . Controlled aircraft using radar and/or IFF/SIF presentations consistent with the continuum of control. Controlled operations that effectively protected assets and/or accomplished the mission. Kept aircraft informed of all factor groups through "picture" and threat calls. Provided/updated threat information (to include changes in targets and enemy order of battle) to aircraft under control. Identified all factor groups as able. Positioned aircraft to accomplish mission objectives in accordance with AFI 11-214 and AFTTP 3-3.IPE consistent with briefed mission, rules of engagement, operations directives, and aircraft capabilities. Employed radio/telephone (R/T) procedures in accordance with AFI 11-214 and AFTTP 3-3.IPE.Chapter 5. Acknowledged all communications.

3.2.21.2. **Q-** . Controlled aircraft with errors or omissions that did not jeopardize mission accomplishment.

3.2.21.3. **U** . Controlled aircraft with errors or omissions that jeopardized mission accomplishment. Positioning was not consistent with continuum of control, rules of engagement, operations directives, and/or mission objectives.

### 3.2.22. Area 22: Counterland Mission.

3.2.22.1. **Q** . Controlled or provided positioning assistance to aircrews using radar and/or IFF/SIF presentations. As required/requested, provided vectoring assistance to route or target points to place aircraft in a position to accomplish mission in accordance with AFI 11-214 and AFTTP 3-3.IPE consistent with briefed mission, rules of engagement, operations directives, and aircraft capabilities. Provided/updated threat information (to include changes in targets and enemy order of battle) to aircraft under control. Provided minimum risk/safe passage and flight join up assistance as required/requested. Employed R/T procedures in accordance with AFI 11-214 and AFTTP 3-3.IPE, Chapter 5. Acknowledged all communications.

3.2.22.2. **Q-** . Controlled or provided positioning, vectoring, safe passage, or join up assistance with errors or omissions that did not jeopardize mission accomplishment.

3.2.22.3. **U** . Controlled aircraft with errors or omissions that jeopardized mission accomplishment. Positioning was not consistent with the continuum of control, rules of engagement, operations directives, and/or mission objectives.

### 3.2.23. Area 23: Air Refueling.

3.2.23.1. **Q** . Controlled or provided positioning assistance to aircrews using radar and/or IFF/SIF presentations using tactical control. Prioritized refueling activity and placed receivers and/or tankers in a position within air refueling parameters to accomplish mission objectives in accordance with AFI 11-214 and AFTTP 3-3.IPE, and consistent with aircraft capabilities. Provided/updated threat information (to include changes in targets and enemy order of battle) to aircraft under control. Obtained and disseminated post-refueling offload information as required. Employed R/T procedures in accordance with AFI 11-214 and AFTTP 3-3.IPE, Chapter 5. Acknowledged all communications. Maintained situational awareness.

3.2.23.2. **Q-** . Controlled or provided positioning assistance to aircrews with errors or omissions that did not jeopardize mission accomplishment.

3.2.23.3. **U** . Controlled or provided positioning assistance to aircrews with errors or omissions that jeopardized mission accomplishment. Final positioning was not within air refueling parameters in accordance with AFI 11-214.

### 3.2.24. Area 24: Team Supervision (SL Only).

3.2.24.1. **Q** . Supervised the section's mission support functions (radios, sensors, airspace, etc.) to achieve mission accomplishment. Ensured the section controlled assigned missions to the level requested and/or followed the continuum of control to the maximum extent possible.

3.2.24.2. **Q-** . Supervised the section's mission support functions (radios, sensors, airspace, etc.) to achieve mission accomplishment. Ensured the section controlled assigned missions to the level requested and/or followed the continuum of control, with errors or omissions that did not jeopardize mission accomplishment.

3.2.24.3. **U** . Failed to ensure the section's mission support functions (radios, sensors, airspace, etc.) were established to achieve mission accomplishment. Did not ensure that the section controlled assigned missions to the level requested and/or followed the continuum of control.

**3.3. Instructor.** The following areas are applicable to initial instructor upgrade/all recurring evaluations of instructors. Specific criteria are included in [paragraph 2.4](#) of this manual.

3.3.1. Area 25: Instructional Ability.

3.3.2. Area 26: Briefings/Critique.

3.3.3. Area 27: Demonstration and Performance.

## Chapter 4

### WEAPONS DIRECTOR EVALUATIONS

**4.1. General.** This chapter contains the criteria specifying the tasks required of a qualified Weapons Director Evaluation in accordance with AFMAN 13-1 GBMC2 Vol. 2. Evaluation requirements are outlined in **Table 4.1** for WD and Instructor Weapons Director.

#### 4.1.1. Evaluation Objectives.

4.1.1.1. Qualification Evaluation. The examinee will be evaluated on their ability to accomplish required tasks safely and effectively, in accordance with technical orders, manuals, directives, and operating procedures applicable to the evaluated mission. **(T-3)**. Qualification evaluations will encompass all areas identified in **Table 4.1** **(T-3)**. When possible, the evaluation should be conducted with a full operational crew as defined in AFI 13-1 CRC Vol. 3, tables 3.1 and 3.2. When a full operations crew cannot be established, the crew composition will be such to meet the intent of the QUAL evaluation to ensure adequate crew coordination is accomplished. **(T-3)**. This will be documented in the Mission Description of the AF Form 8 (Section VIII). **(T-3)**. The examinee must demonstrate a degree of knowledge and proficiency essential for successful mission accomplishment and safety of flight to include aircraft emergencies. **(T-3)**. WD qualification evaluations may be conducted on live/virtual/constructive missions. Tasks not observed and assessed during the normal course of the evaluation will be evaluated verbally while the examinee is on position. **(T-3)**. WD evaluations will be conducted on blue air side only to properly evaluate blue control with fighters operating blue air tactics during a counterair mission. **(T-3)**. The mission profile must meet the minimum requirements of **paragraph 4.1.1.4.1** **(T-3)**. SEEs will make the determination as to whether briefed/conducted control activities fulfill control requirements. **(T-3)**. When possible, the evaluation will be conducted in a controlled communications jamming environment; otherwise, communications jamming may be simulated. **(T-3)**. **Note:** The intent of the qualification evaluation is for the examinee to demonstrate proficiency with the system (i.e., in accordance with sensor knowledge, system capabilities) and an ability to effectively employ that system.

4.1.1.2. Mission Evaluation. The examinee will be evaluated on their ability to accomplish required tasks safely and effectively, in accordance with technical orders, manuals, directives, and operating procedures applicable to the evaluation areas table. **(T-3)**. Mission evaluations will encompass all areas identified in **Table 4.1** for the mission profile performed. **(T-3)**. The examinee must demonstrate a degree of knowledge and proficiency essential for successful mission accomplishment, profile execution, and safety of flight to include aircraft emergencies. **(T-3)**. Mission evaluations may be conducted on live/virtual/constructive missions. Tasks not observed and assessed during the normal course of the evaluation will be evaluated verbally while the examinee is on position. **(T-3)**. During the MSN evaluation, counterland and tanker management mission profiles must meet the minimum requirements of **paragraphs 4.1.1.4.2** and **4.1.1.4.3** **(T-3)**. When possible, MSN evaluations should replicate large force employment scenarios with supporting theater documents (SPINS, ROE, ATO/ACO, etc.), mission packages, and ADA interface, command and control electronic

warfare and higher headquarters integration. The evaluation should include participation of at least one or more external theater air control system units and, when possible, conducted with a full operational crew as defined in AFI 13-1 CRC Vol. 3, tables 3.1 and 3.2. Evaluations during exercises or exercise deployments are encouraged. Evaluations during contingency/combat deployments may be given as a last resort in order to maintain mission qualification status with concurrence of the examinee, the deployed and unit commander. If a full operations crew is used, an ADA interface should be simulated. When possible, the evaluation will be conducted in a controlled communications jamming environment; otherwise, communications jamming may be simulated. **(T-3).** **Note:** The intent of the mission evaluation is for the examinee to demonstrate proficiency while employing the system in a live/virtual large force scenario (i.e., in accordance with crew coordination, battle management, sensor employment).

4.1.1.3. There will be instances where an examinee during the mission, accomplishes all areas required for both the qualification and the mission evaluation. In this case, the evaluation will be annotated as a QUAL/MSN evaluation. **(T-3).** Acceptability of required activity will be based on the SEE's determination that all areas required for a mission and a qualification evaluation have been met. **(T-3).**

4.1.1.4. The examinee (for both WD and ABM) must control a mission that include at least two of the following: counterair, counterland, or air refueling; or is sufficiently complex enough to meet intent in accordance with [paragraphs 3.1.1.1](#), [paragraph 3.1.1.2](#), and [paragraph 3.1.1.8](#) Examples include but not limited to LFEs, Tanker Management Scenarios (4 or more tankers simultaneously with multiple fragged receivers), or dynamic lane defense missions. Crew members, regardless of designation as CMR or BMC will complete both QUAL and MSN evaluations. **(T-3).** A single mission can satisfy both QUAL and MSN requirements without having the examinee control separate events.

4.1.1.4.1. Counterair missions will be conducted where weapons examinees provide tactical or broadcast control as briefed by the aircrew. **(T-3).** The control will be provided to at least two separate fighters/elements simultaneously committed against a minimum of two targets. **(T-3).** The examiner will ensure the weapons examinee participates in all phases of the mission. **(T-3).** **Note:** It is not a requirement for this mission to result in a maneuvering dogfight.

4.1.1.4.2. Air refueling missions require control of at least one tanker and receiver simultaneously, with at least two receivers (dynamic or fragged) total per scenario. SEEs retain the option for additional fragged receivers or dynamic rendezvous at SEEs discretion.

4.1.1.4.3. Counterland evaluations require the examinee to direct at least one flight of aircraft conducting air-to-surface tactics against a ground objective. The examinee will control the flight from check-in to the prosecution of at least one objective. **(T-3).** A counterland mission must include the following elements:

4.1.1.4.3.1. Airspace management: Assigning altitude blocks and/or safe deconfliction between aircraft (manned/unmanned). **(T-3).**

4.1.1.4.3.2. Target Area Brief: Air or ground picture and the objective area. (T-3).

4.1.1.4.3.3. Dynamic/Deliberate Tasking: Updated or pre-planned objective. (T-3).

4.1.1.4.3.4. Mission Report: Mission report. (T-3).

**Table 4.1. WD Evaluation Areas.**

<b>Evaluation Areas</b>	<b>QUAL</b>	<b>INSTR</b>	<b>MSN</b>
<b>General</b>			
1. Mission Planning	R		R
2. Briefing/Debriefing	R		R
3. Equipment Setup and Checkout	R		
4. Console Operations and Displays	R		
5. Positional Changeover Briefing			R
6. Emergency Action Procedures and Equipment	R		
7. Authentication Procedures			R
8. Security/COMSEC (CRITICAL)	R	R	R
9. Safety (CRITICAL)	R	R	R
10. Aircraft Emergency (CRITICAL)	R	R	R
<b>Tactical Employment</b>			
11. Coordination (CRITICAL)	R	R	R
12. Crew Discipline (CRITICAL)	R	R	R
13. Battle Management	R		R
14. Airspace Management	R		R
15. Assumption of Control	R		R
16. Counterair Mission	R <sup>2</sup>		
17. Counterland Mission			R <sup>2</sup>
18. Air Refueling			R
<b>Instructor Areas<sup>1</sup></b>			
19. Instructional Ability	R	R	R
20. Briefings/Critique	R	R	R
21. Demonstration and Performance	R	R	R



**R** - Required evaluation area.

**NOTES:**

1. Only required for instructor qualified crew members. A grade of “U” in these areas results in an overall grade of 3 for the instructor portion of the evaluation.
2. For periodic QUAL/MSN evaluations, missionized scenarios that do not meet all areas of counterair, counterland, and air refueling but are sufficient to demonstrate control proficiency, are acceptable if the SEE determines that the intent is met in accordance with **paragraph 4.1.1.1, paragraph 4.1.1.2, paragraph 4.1.1.3, and paragraph 4.1.1.4.**

**4.2. Evaluation Criteria.** All areas in this section will be graded using the grading policy in AFMAN 13-1 GBMC2 Vol. 2 and any criteria listed within the individual areas. **(T-2).**

**4.2.1. Area 1: Mission Planning.**

4.2.1.1. **Q** . Extracted information from mission planning documents required to plan and execute the tasked mission in accordance with AFTTP 3-3.IPE and operations directives. Extracted ROE information and assisted in mission planning as applicable. Participated in and extracted pertinent information from a briefing with the aircrew as applicable. Read and initialed all items in the FCIF and/or read files.

4.2.1.2. **Q-** . Extracted information from mission planning documents required to plan and execute the tasked mission. Extracted ROE information and assisted in mission planning as applicable. Participated in and extracted pertinent information from a briefing with the aircrew as applicable. Read and initialed all items in the FCIF and/or read files. Committed errors or omissions that did not adversely affect mission accomplishment.

4.2.1.3. **U** . Failed to extract mission planning information required to execute the tasked mission. Failed to extract ROE information. Did not participate in or extract pertinent information from a briefing with the aircrew as applicable. Failed to read and/or initial all items in the FCIF and/or read files. Committed errors or omissions that jeopardized mission accomplishment.

**4.2.2. Area 2: Briefing/Debriefing.**

4.2.2.1. **Q** . Attended and participated in all required briefings/debriefings and extracted/provided all necessary information. Performed briefings/debriefings in an organized, logical sequence in accordance with applicable directives. Briefed all areas necessary to conduct tasked mission(s) and conducted aircrew briefings/debriefings in accordance with AFI 11-214 and other directives. Provided constructive feedback on team and individual performance. Provided specific instructional fixes to correct errors, and requested inputs from others. Summarized mission execution, identified lessons learned, and compared mission results with crew objectives.

4.2.2.2. **Q-** . Attended and participated in all required briefings/debriefings. Briefed areas necessary to conduct the mission and/or conducted briefings/debriefings with aircrew with errors or omissions that did not jeopardize mission accomplishment. Did not effectively establish, nor maintain team concept or environment for open communications and feedback.

4.2.2.3. **U** . Failed to attend and participate in all required briefings/debriefings. Conducted crew and aircrew briefings/debriefings with errors or omissions that jeopardized mission accomplishment. Failed to ensure the crew was thoroughly briefed on all aspects of the mission. Failed to establish and maintain team concept and environment for open communications and feedback.

#### 4.2.3. Area 3: Equipment Setup and Checkout.

4.2.3.1. **Q** . Ensured operational checks were completed on all equipment before mission. Ensured equipment outages were reported. Ensured the required radios were available, configured, frequencies assigned, and cryptographic equipment loaded and configured. Configured communications equipment for operations as required and accessed as needed in accordance with positional checklists. Setup and operated the display/workstation to optimize situational awareness in accordance with positional checklists. Approved changes to database information.

4.2.3.2. **Q-** . Ensured operational checks were completed on all equipment before mission. Ensured equipment outages were reported. Ensured the required radios were available, configured, frequencies assigned, and cryptographic equipment loaded and configured. Configured communications equipment for operations as required and accessed as needed in accordance with positional checklists. Setup and operated the display/workstation to optimize situational awareness in accordance with positional checklists. Approved changes to database information. Committed errors or omissions that did not adversely affect mission accomplishment.

4.2.3.3. **U** . Failed to ensure operational checks were completed on all equipment before mission. Failed to ensure equipment outages were reported. Failed to ensure the required radios were available, configured, frequencies assigned, and cryptographic equipment loaded and configured. Failed to configure communications equipment for operations as required and accessed as needed in accordance with positional checklists. Failed to setup and operate the display/workstation to optimize situational awareness in accordance with positional checklists. Failed to approve changes to database information. Committed errors or omissions that could have jeopardized mission accomplishment.

#### 4.2.4. Area 4: Console Operations and Displays.

4.2.4.1. **Q** . Interpreted, initiated, and updated data for computer displays. Responded to alarms and alerts. Used situation displays to optimize situational awareness.

4.2.4.2. **Q-** . Interpreted, initiated, and updated data for computer displays. Responded to alarms and alerts. Used situation displays to optimize situational awareness. Committed errors or omissions that did not adversely affect mission accomplishment.

4.2.4.3. **U** . Failed to interpret, initiate, and update data for computer displays. Failed to respond to alarms and alerts. Did not use situation displays to optimize situational awareness. Committed errors or omissions that jeopardized mission accomplishment.

4.2.5. Area 5: Positional Changeover Briefing.

4.2.5.1. **Q** . Briefed the relieving crewmember on the current operational situation before departing position. Conducted positional changeover briefing in accordance with positional checklist.

4.2.5.2. **Q-** . Briefed the relieving crewmember on the current operational situation before departing position. Conducted positional changeover briefing in accordance with positional checklist. Committed errors or omissions that did not adversely affect mission accomplishment.

4.2.5.3. **U** . Failed to brief the relieving crewmember on the current operational situation before departing position. Did not conduct positional changeover briefing in accordance with positional checklist. Committed errors or omissions that jeopardized mission accomplishment.

4.2.6. Area 6: Emergency Action Procedures and Equipment.

4.2.6.1. **Q** . Demonstrated thorough knowledge of emergency action procedures/equipment and did not delay in assessing and reacting to an emergency. Thoroughly familiar with additional emergency duties. Coordinated with other crew members without delay.

4.2.6.2. **Q-** . Committed errors, omissions or delays in emergency action procedures or had minor errors in knowledge of emergency procedures/equipment that did not result in an unsafe situation or jeopardize mission accomplishment.

4.2.6.3. **U** . Unsatisfactory knowledge of emergency action procedures/equipment. Misunderstood additional emergency duties. Improperly or ineffectively coordinated with other crew members causing errors, omissions, delays, or confusion that resulted in an unsafe situation and/ or jeopardized mission accomplishment.

4.2.7. Area 7: Authentication Procedures.

4.2.7.1. **Q** . Authenticated voice transmission within time limits specified on authenticators.

4.2.7.2. **Q-** . Authenticated voice transmission within time limits specified on authenticators. Committed errors or omissions that did not jeopardize mission accomplishment.

4.2.7.3. **U** . Committed errors or omissions that jeopardized mission accomplishment.

4.2.8. Area 8: Security/COMSEC (CRITICAL).

4.2.8.1. **Q** . Used and/or maintained positive control of any and all COMSEC equipment (i.e, in accordance with SKL, load cable and bag) and/or materials necessary for mission accomplishment in accordance with AFMAN 17-1302-O.

4.2.8.2. **U** . Failed to use and/or maintain positive control of any and all COMSEC equipment (i.e., in accordance with SKL, load cable and bag) and/or materials necessary for mission accomplishment in accordance with AFMAN 17-1302-O.

4.2.9. Area 9: Safety (CRITICAL).

4.2.9.1. **Q** . Aware of and complied with all safety factors required for safe operation and mission accomplishment. Ensured appropriate safety checks were accomplished as needed. Ensured adequate coordination to prevent unsafe acts. Located safety hazards and explained proper use of safety equipment. Located electrical, fire, physical and radiation safety hazards. Located and explained the proper use of fire extinguishers.

4.2.9.2. **U** . Was not aware of or did not comply with all safety factors required for safe operation or mission accomplishment. Failed to ensure appropriate safety checks were accomplished when needed. Failed to locate safety hazards and/or explain proper use of safety equipment. Failed to locate electrical, fire, physical and radiation safety hazards. Failed to locate and/or explain proper use of fire extinguishers. Committed errors or omissions that could have jeopardized safety and/or mission accomplishment or resulted in an unsafe act.

4.2.10. Area 10: Aircraft Emergency (CRITICAL).

4.2.10.1. **Q** . Recognized the existence of an aircraft emergency. Assisted controlled aircraft experiencing an emergency in a timely manner. Entered the appropriate emergency point on the scope. Notified crewmembers of the aircraft emergency. Coordinated responses in accordance with an emergency checklist.

4.2.10.2. **U** . Failed to recognize an aircraft emergency. Failed to assist controlled aircraft experiencing an emergency. Failed to respond in a timely manner. Failed to enter an appropriate emergency point on the scope. Did not notify crewmembers of aircraft emergency. Did not follow the aircraft emergency checklist. Committed errors or omissions that led to the loss of the aircraft and/or aircrew, or jeopardized mission accomplishment.

4.2.11. Area 11: Coordination (CRITICAL).

4.2.11.1. **Q** . Coordinated with the mission crew to ensure equipment and assets were available and used to accomplish the assigned mission. Ensured coordination and information flow within the section and cross-sections as required.

4.2.11.2. **U** . Failed to coordinate with the mission crew to ensure equipment and assets were available and used to accomplish the assigned mission. Failed to ensure coordination and information flow within the section and cross-sections as required.

4.2.12. Area 12: Crew Discipline (CRITICAL).

4.2.12.1. **Q** . Demonstrated strict professional crew discipline throughout all phases of the mission. Executed the assigned mission in a timely and efficient manner.

4.2.12.2. **U** . Failed to exhibit strict crew discipline. Violated or ignored rules or instructions. Decision, or lack thereof, resulted in failure to accomplish the assigned mission. Demonstrated poor judgment, to the extent, that safety or mission accomplishment was compromised.

#### 4.2.13. Area 13: Battle Management.

4.2.13.1. **Q** . Committed weapons resources to counter the threat in accordance with theater ROE. Coordinated and/or established CAP and hand-over/recovery points as required. Managed air refueling assets and AOR fuel requirements. Coordinated airborne orders and scramble/divert alert aircraft when directed or delegated.

4.2.13.2. **Q-** . Committed weapons resources to counter the threat in accordance with theater ROE. Coordinated and/or established CAP and hand-over/recovery points as required. Managed air refueling assets and AOR fuel requirements. Coordinated airborne orders and scramble/divert alert aircraft when directed or delegated. Committed errors or omission that did not adversely affect mission accomplishment.

4.2.13.3. **U** . Failed to commit weapons resources to counter the threat in accordance with theater ROE. Failed to coordinate and/or establish CAP and hand-over/recovery points as required. Failed to manage air refueling assets and AOR fuel requirements. Failed to coordinate airborne orders and scramble/divert alert aircraft when directed or delegated. Committed errors or omissions that jeopardized mission accomplishment.

#### 4.2.14. Area 14: Airspace Management.

4.2.14.1. **Q** . Complied with airspace management requirements and restrictions in accordance with OPLAN, ACO, and LOAs. Initiated airspace requests, and verified airspace restrictions and limitations in accordance with OPLAN, ACO, and LOAs. Ensured all efforts were made to keep controlled aircraft inside the lateral and vertical confines of the airspace in a timely manner.

4.2.14.2. **Q-** . Complied with airspace management requirements and restrictions in accordance with OPLAN, ACO, and LOAs. Initiated airspace requests, and verified airspace restrictions and limitations in accordance with OPLAN, ACO, and LOAs. Ensured 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 did not jeopardize mission accomplishment.

4.2.14.3. **U** . Failed to comply with airspace management requirements and restrictions in accordance with OPLAN, ACO, and LOAs. Failed to initiate airspace requests and did not verify airspace restrictions and limitations in accordance with OPLAN, ACO, and LOAs. Failed to ensure 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.

#### 4.2.15. Area 15: Assumption of Control.

4.2.15.1. **Q** . Located mission aircraft using reported position, IFF/SIF, PPLI, pilot maneuvering and/or external sources in a timely manner. Voiced “contact/negative contact” as appropriate. Passed or confirmed altimeter in accordance with local or theater procedures. Provided aircrew with a working frequency and/or net and TOD when applicable. Provided aircrew a situation update. Conducted IFF/SIF checks and advised aircrew of status. Conducted radar handoffs in accordance with procedures.

4.2.15.2. **Q-** . Located mission aircraft using reported position, IFF/SIF, PPLI, pilot maneuvering and/or external sources in a timely manner. Voiced “contact/negative contact” as appropriate. Passed or confirmed altimeter in accordance with local or theater procedures. Provided aircrew with a working frequency and/or net and TOD when applicable. Provided aircrew a situation update. Conducted IFF/SIF checks and advised aircrew of status. Conducted radar handoffs in accordance with procedures. Committed errors or omissions that did not jeopardize mission accomplishment.

4.2.15.3. **U** . Failed to locate aircraft using reported position, IFF/SIF, PPLI, pilot maneuvering and/or external sources in a timely manner. Failed to voice “contact/negative contact” as appropriate. Did not pass or confirm altimeter in accordance with local or theater procedures. Failed to provide aircrew with a working frequency and/or net and TOD when applicable. Did not provide aircrew a 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.

#### 4.2.16. Area 16: Counterair Mission.

4.2.16.1. **Q** . Controlled aircraft using radar and/or IFF/SIF presentations consistent with continuum of control. Controlled operations that effectively protected assets and/or accomplished the mission. Kept aircraft informed of all factor groups through "picture" and threat calls. Provided/updated threat information (to include changes in targets and enemy order of battle) to aircraft under control. Identified all factor groups as able. Positioned aircraft to accomplish mission objectives in accordance with AFI 11-214 and AFTTP 3-3.IPE consistent with briefed mission, rules of engagement, operations directives, and aircraft capabilities. Employed radio/telephone procedures in accordance with AFI 11-214 and AFTTP 3-3.IPE, Chapter 5. Acknowledged all communications.

4.2.16.2. **Q-** . Controlled aircraft with errors or omissions that did not jeopardize mission accomplishment.

4.2.16.3. **U** . Controlled aircraft with errors or omissions that jeopardized mission accomplishment. Positioning was not consistent with continuum of control, rules of engagement, operations directives and/or mission objectives.

#### 4.2.17. Area 17: Counterland Mission.

4.2.17.1. **Q** . Controlled or provided positioning assistance to aircrews using radar and/or IFF/SIF presentations. As required/requested, provided vectoring assistance to route or target points to place aircraft in a position to accomplish mission in accordance with AFI 11-214 and AFTTP 3-3.IPE consistent with briefed mission, rules of engagement, operations directives, and aircraft capabilities. Provided/updated threat information (to include changes in targets and enemy order of battle) to aircraft under control. Provided minimum risk/safe passage and flight join up assistance as required/requested. Employed radio/telephone procedures in accordance with AFI 11-214 and AFTTP 3-3.IPE, Chapter 5. Acknowledged all communications.

4.2.17.2. **Q-** . Controlled or provided positioning, vectoring, safe passage, or join up assistance with errors or omissions that did not jeopardize mission accomplishment.

4.2.17.3. **U** . Controlled aircraft with errors or omissions that jeopardized mission accomplishment. Positioning was not consistent with the continuum of control, rules of engagement, operations directives, and/or mission objectives.

4.2.18. Area 18: Air Refueling.

4.2.18.1. **Q** . Managed air refueling operations to accomplish mission objectives in accordance with AFTTP 3-3.IPE and consistent with aircraft capabilities. Provided/updated threat information (to include changes in targets and enemy order of battle) to aircraft under control. Obtained and disseminated post-refueling offload information as required. Employed radio/telephone procedures in accordance with AFI 11-214 and AFTTP 3-3.IPE, Chapter 5. Acknowledged all communications. Maintained situational awareness.

4.2.18.2. **Q-** . Managed air refueling operations with errors or omissions that did not jeopardize mission accomplishment.

4.2.18.3. **U** . Managed air refueling operations with errors or omissions that jeopardized mission accomplishment and not within air refueling parameters in accordance with AFI 11-214 or NATO Standard Allied Tactical Procedure (ATP) 3.3.4.2, *Air to Air Refueling*.

**4.3. Instructor.** The following areas are applicable to initial instructor upgrade/all recurring evaluations of instructors. Specific criteria are included in [paragraph 2.4](#) of this manual.

4.3.1. Area 19: Instructional Ability.

4.3.2. Area 20: Briefings/Critique.

4.3.3. Area 21: Demonstration and Performance.

## Chapter 5

### AIR SURVEILLANCE TECHNICIAN EVALUATIONS

**5.1. General.** This chapter contains the criteria specifying the tasks required of a qualified Air Surveillance Technician (AST) in accordance with AFMAN 13-1 GBMC2 Vol. 2. Evaluation requirements are outlined in **Table 5.1** for AST and Instructor Air Surveillance Technician.

#### 5.1.1. Evaluation Objectives.

**5.1.1.1. Qualification Evaluation .** The examinee will be evaluated on their ability to accomplish required tasks safely and effectively, in accordance with technical orders, manuals, directives, and operating procedures applicable to the evaluated mission. **(T-3)**. Qualification evaluations will encompass all areas identified in **Table 5.1 (T-3)**. All efforts should be made to conduct the evaluation with a full operations crew as defined in AFI 13-1 CRC Vol. 3, tables 3.1 and 3.2. AST qualification evaluations will be conducted, at a minimum, with a surveillance team and applicable technicians during a live/virtual/constructive mission. **(T-3)**. The examinee must demonstrate a degree of knowledge and proficiency essential for successful mission accomplishment and safety of flight to include aircraft emergencies. **(T-3)**. Tasks not observed and assessed during the normal course of evaluation will be evaluated verbally while the examinee is on position. **(T-3)**. When possible, the evaluation will be conducted in a controlled communications jamming environment; otherwise communications jamming may be simulated. **(T-3)**. At least one Tactical Digital Information Link will be used. **(T-3)**. Link events can occur on different days and/or with different agencies. **Note:** The intent of the qualification evaluation is for the examinee to demonstrate proficiency with the system (i.e., in accordance with sensor knowledge, system capabilities) and an ability to effectively employ that system.

**5.1.1.2. Mission Evaluation.** The examinee will be evaluated on their ability to accomplish required tasks safely and effectively, in accordance with technical orders, manuals, directives, and operating procedures applicable to the evaluation areas table. **(T-3)**. Mission evaluations will encompass all required areas identified in **Table 5.1**, for the mission profile performed. **(T-3)**. All efforts should be made to conduct the evaluation with a full operations crew as defined in AFI 13-1 CRC Vol. 3, tables 3.1 and 3.2. AST mission evaluations will be conducted, at a minimum, with a surveillance operations team and applicable technicians during a live/virtual/constructive mission. **(T-3)**. Tasks not observed and assessed during the normal course of the evaluation will be evaluated verbally while the examinee is on position. **(T-3)**. The examinee must demonstrate a degree of knowledge and proficiency essential for successful mission accomplishment, profile execution, and safety of flight to include aircraft emergencies. **(T-3)**. When possible, MSN evaluations will replicate large force employment scenarios with supporting theater documents (SPINS, ROE, ATO/ACO, etc.), mission packages, and command and control electronic warfare and higher headquarters integration. **(T-3)**. The evaluation should include participation of at least one or more external theater air control system units. Evaluations during exercises or exercise deployments are encouraged. Evaluations during contingency/combat deployments may be given as a last resort in order to maintain mission qualification status with the concurrence of the



examinee, the deployed and unit commander. When possible, the evaluation will be conducted in a controlled communications jamming environment; otherwise communications jamming may be simulated. **(T-3)**. **Note:** The intent of the mission evaluation is for the examinee to demonstrate proficiency while employing the system in a live/virtual large force scenario (i.e., in accordance with crew coordination, air picture management, sensor employment).

5.1.1.3. There will be instances where an examinee, during the mission, accomplishes all areas required for both the qualification and mission evaluations. In this case, the evaluation will be annotated as a QUAL/MSN evaluation. **(T-3)**. Acceptability of required activity will be based on the evaluator's determination that all areas required for a mission and qualification evaluation have been met. **(T-3)**.

5.1.1.4. Completion of an AST or Instructor Air Surveillance Technician evaluation includes demonstration of competence as an Interface Control Technician (ICT) and Surveillance Technician (ST); and qualifies the AST to perform as an ICT and ST, and the Instructor Air Surveillance Technician to perform as an Instructor Interface Control Technician (IICT) and Instructor Surveillance Technician (IST). An Examiner AST may accomplish evaluations on the AST, ICT and ST positions.

5.1.1.5. ASTs that were previously qualified as IICTs and/or ISTs may continue to perform IICT and/or IST duties under the following conditions:

5.1.1.5.1. The AST must perform IICT and/or IST duties on the AST Initial QUAL evaluation and subsequent recurring AST evaluations. **(T-3)**.

5.1.1.5.2. AF Form 8 will include one of the following restrictions, as applicable. **(T-2)**.

5.1.1.5.2.1. RESTRICTION: Examinee may only instruct ICT crewmembers.

5.1.1.5.2.2. RESTRICTION: Examinee may only instruct ST crewmembers.

5.1.1.5.2.3. RESTRICTION: Examinee may only instruct ICT and ST crewmembers.

**Table 5.1. AST Evaluation Areas.**

<b>Evaluation Areas</b>	<b>QUAL</b>	<b>INSTR</b>	<b>MSN</b>
<b>General</b>			
1. Mission Planning	R		R
2. Briefing/Debriefing	R		R
3. Equipment Setup and Checkout	R		
4. Console Operations and Displays	R		
5. Positional Changeover Briefing			R
6. Emergency Action Procedures and Equipment	R		
7. Authentication Procedures			R
8. Security/COMSEC (CRITICAL)	R	R	R
9. Safety (CRITICAL)	R	R	R
10. Aircraft Emergency (CRITICAL)	R	R	R
<b>Tactical Employment</b>			
11. Coordination (CRITICAL)	R	R	R
12. Crew Discipline (CRITICAL)	R	R	R
13. Radio/Telephone (R/T) Procedures	R		R
14. Battle Management	R		R
15. Crew Leadership	R		R
16. Tactical Data Link (TDL) Operations	R		R
17. Air/Ground Picture Management	R		R
18. Database Initialization/Management and System Operations	R		R
19. Sensor Operations	R		R
<b>Instructor Areas*</b>			
20. Instructional Ability	R	R	R
21. Briefings/Critique	R	R	R
22. Demonstration and Performance	R	R	R
<b>R - Required evaluation area.</b>  *Only required for instructor qualified crewmembers. A grade of “U” in these areas results in an overall grade of 3 for the instructor portion of the evaluation.			

**5.2. Evaluation Criteria.** All areas in this section will be graded using the grading policy in AFMAN 13-1 GBMC2 Vol. 2 Stan/Eval and any criteria listed within the individual areas. (T-2).

5.2.1. Area 1: Mission Planning.

5.2.1.1. **Q** . Led sensor operations team mission 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 FCIF and/or read files.

5.2.1.2. **Q-** . Led sensor operations team mission 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 FCIF and/or read files. Committed errors or omissions that did not adversely affect mission accomplishment.

5.2.1.3. **U** . Failed to lead sensor operations team 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 FCIF and/or read files. Committed errors and omissions that jeopardized mission accomplishment.

#### 5.2.2. Area 2: Briefing/Debriefing.

5.2.2.1. **Q** . Attended and participated in all required briefings/debriefings and extracted/provided all necessary information. Performed briefings/debriefings in an organized, logical sequence in accordance with OPLAN and AFI 13-1CRC Vol 3. Planned all areas necessary to conduct tasked mission(s). Provided constructive feedback on team and individual performance. Provided specific instructional fixes to correct errors, and requested input from others. Summarized mission execution, identified lessons learned, and compared mission results with crew objectives.

5.2.2.2. **Q-** . Attended and participated in all required briefings/debriefings and extracted/provided all necessary information. Provided constructive feedback on team and individual performance. Provided specific instructional fixes to correct errors, and requested inputs from others. Summarized mission execution, identified lessons learned, and compared mission results with crew objectives. Extracted/provided information or conducted briefings/debriefings on all aspects of the mission with errors or omissions that did not jeopardize mission accomplishment

5.2.2.3. **U** . Failed to attend and participate in all required briefings/debriefings. Conducted crew briefings/debriefings with errors or omissions that jeopardized mission accomplishment. Failed to ensure the crew was thoroughly briefed on all aspects of the mission. Failed to establish and maintain team concept and environment for open communications and feedback. Committed errors or omissions that jeopardized mission accomplishment.

#### 5.2.3. Area 3: Equipment Setup/Checkout.

5.2.3.1. **Q** . Ensured operational checks were completed on all equipment before mission. Ensured equipment outages were reported. Ensured the required radios were available, configured, frequencies assigned, and cryptographic equipment loaded and configured. Setup and operated the display/workstation to optimize situational awareness in accordance with positional checklists. Directed database loads and approved changes to database information.

5.2.3.2. **Q-** . Ensured operational checks were completed on all equipment before mission. Ensured equipment outages were reported. Ensured the required radios were available, configured, frequencies assigned, and cryptographic equipment loaded and configured. Setup and operated the display/workstation to optimize situational awareness in accordance with positional checklists. Directed database loads and approved changes to database information. Committed errors or omissions that did not adversely affect mission accomplishment.

5.2.3.3. **U** . Failed to ensure operational checks were completed on all equipment before mission. Failed to ensure equipment outages were reported. Failed to ensure the required radios were available, configured, frequencies assigned, and cryptographic equipment loaded and configured. Failed to setup and operate the display/workstation to optimize situational awareness in accordance with positional checklists. Failed to direct database loads and approved changes to database information. Committed errors or omissions that could have jeopardized mission accomplishment.

#### 5.2.4. Area 4: Console Operations and Displays.

5.2.4.1. **Q** . Interpreted, initiated, and updated data for computer displays. Responded to alarms and alerts. Performed surveillance-related console operations to maintain an accurate air picture.

5.2.4.2. **Q-** . Interpreted, initiated, and updated data for computer displays. Responded to alarms and alerts. Performed surveillance-related console operations to maintain an accurate air picture. Committed errors or omissions that did not adversely affect mission accomplishment.

5.2.4.3. **U** . Failed to interpret, initiate, and update data for computer displays. Failed to respond to alarms and alerts. Did not perform surveillance-related console operations to maintain an accurate air picture. Committed errors or omissions that jeopardized mission accomplishment.

#### 5.2.5. Area 5: Positional Changeover Briefing.

5.2.5.1. **Q** . Briefed the relieving crewmember on the current operational situation before departing position. Conducted positional changeover briefing in accordance with positional checklist.

5.2.5.2. **Q-** . Briefed the relieving crewmember on the current operational situation before departing position. Conducted positional changeover briefing in accordance with positional checklist. Committed errors or omissions that did not adversely affect mission accomplishment.

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

5.2.6. Area 6: Emergency Action Procedures and Equipment.

5.2.6.1. Q . Demonstrated thorough knowledge of emergency action procedures/equipment and did not delay in assessing and reacting to an emergency. Thoroughly familiar with additional emergency duties. Coordinated with other crew members without delay.

5.2.6.2. Q- . Committed errors, omissions or delays in emergency action procedures or had minor errors in knowledge of emergency procedures/equipment that did not result in an unsafe situation or jeopardize mission accomplishment.

5.2.6.3. U . Unsatisfactory knowledge of emergency action procedures/equipment. Misunderstood additional emergency duties. Improperly or ineffectively coordinated with other crew members causing errors, omissions, delays or confusion that resulted in an unsafe situation and/ or jeopardized mission accomplishment.

5.2.7. Area 7: Authentication Procedures.

5.2.7.1. Q . Authenticated voice transmission within time limits specified on authenticators.

5.2.7.2. Q- . Authenticated voice transmission within time limits specified on authenticators. Committed errors or omissions that did not jeopardize mission accomplishment.

5.2.7.3. U . Committed errors or omissions that jeopardized mission accomplishment.

5.2.8. Area 8: Security/COMSEC (CRITICAL).

5.2.8.1. Q . Used and/or maintained positive control of any and all COMSEC equipment (i.e., in accordance with SKL, load cable and bag) and/or materials necessary for mission accomplishment in accordance with AFMAN 17-1302-O.

5.2.8.2. U . Failed to use and/or maintain positive control of any and all COMSEC equipment (i.e., in accordance with SKL, load cable and bag) and/or materials necessary for mission accomplishment in accordance with AFMAN 17-1302-O.

5.2.9. Area 9: Safety (CRITICAL).

5.2.9.1. Q . Aware of and complied with all safety factors required for safe operation and mission accomplishment. Ensured appropriate safety checks were accomplished as needed. Ensured adequate coordination to prevent unsafe acts. Located safety hazards and explained proper use of safety equipment. Located electrical, fire, physical and radiation safety hazards. Located and demonstrated the proper use of fire extinguishers.

5.2.9.2. **U** . Was not aware of or did not comply with all safety factors required for safe operation or mission accomplishment. Failed to ensure appropriate safety checks were accomplished when needed. Failed to locate safety hazards and/or explain proper use of safety equipment. Failed to locate electrical, fire, physical and radiation safety hazards. Failed to locate and/or demonstrate proper use of fire extinguishers. Committed errors or omissions that resulted in an unsafe act and/or jeopardized mission accomplishment.

5.2.10. Area 10: Aircraft Emergencies (CRITICAL).

5.2.10.1. **Q** . Recognized the existence of an aircraft emergency. Assisted the crew in handling an aircraft emergency. Entered the appropriate emergency point on the scope. Notified crewmembers of the aircraft emergency. Coordinated responses in accordance with an emergency checklist.

5.2.10.2. **U** . Failed to recognize an aircraft emergency. Failed to assist the crew in handling an aircraft emergency. Failed to respond in a timely manner. Failed to enter an appropriate emergency point on the scope. Did not notify crewmembers of aircraft emergency. Did not follow the aircraft emergency checklist. Committed errors or omissions that led to the loss of the aircraft and/or aircrew, or jeopardized mission accomplishment.

5.2.11. Area 11: Coordination (CRITICAL).

5.2.11.1. **Q** . Coordinated with the mission crew to ensure equipment and assets were available and used to accomplish the assigned mission. Ensured coordination and information flow within the section and cross-sections as required.

5.2.11.2. **U** . Failed to coordinate with the mission crew to ensure equipment and assets were available and used to accomplish the assigned mission. Failed to ensure coordination and information flow within the section and cross-sections as required. Committed errors or omissions that led to the loss of the aircraft and/or aircrew, or jeopardized mission accomplishment.

5.2.12. Area 12: Crew Discipline (CRITICAL).

5.2.12.1. **Q** . Demonstrated strict professional crew discipline throughout all phases of the mission. Executed the assigned mission in a timely, efficient manner.

5.2.12.2. **U** . Failed to exhibit strict crew discipline. Violated or ignored rules or instructions. Decision or lack thereof resulted in failure to accomplish the assigned mission. Demonstrated poor judgment to the extent, that safety or mission accomplishment was compromised.

5.2.13. Area 13: R/T Procedures.

5.2.13.1. **Q** . Employed R/T procedures in accordance with AFTTP 3-3.IPE, Chapter 5. Acknowledged all communications.

5.2.13.2. **Q-** . Employed R/T procedures with errors or omissions that did not jeopardize mission accomplishment. Performance included errors, omissions, or delays that did not jeopardize mission accomplishment or safety.

5.2.13.3. **U** . Failed to employ R/T procedures in accordance with AFTTP 3-3.IPE, Chapter 5. Did not acknowledge all communications.

#### 5.2.14. Area 14: Battle Management.

5.2.14.1. **Q** . Executed the assigned mission in a timely, efficient manner with a full operations crew as defined in AFI 13-1 CRC Vol. 3, tables 3.1 and 3.2; and provided guidance to the sensor operations section on employment of resources, JAOP, OPLAN, ATO/ACO, OPTASK LINK, SPINS and other mission specific documents, procedures and taskings. Assessed ROE and ID procedures based on changing alert conditions; and when delegated, authorized declaration of targets in accordance with theater ID matrix and ROE. Detected, identified, reported and tracked air traffic within the assigned area; and when delegated, supervised the declaration of targets as hostile based on hostile intent/ hostile act criteria and level of authority. Supervised electronic protection efforts to counter electronic attack, and disseminated air defense warnings as required. Monitored and supported PR/CSAR efforts as tasked. Recognized or responded to an ARM attack profile warning and notified the crew, and complied with ARM attack checklist.

5.2.14.2. **Q-** . Executed the assigned mission in a timely, efficient manner with a full operations crew as defined in AFI 13-1 CRC Vol. 3, tables 3.1 and 3.2; and provided guidance to the sensor operations section on employment of resources, JAOP, OPLAN, ATO/ACO, OPTASK LINK, SPINS and other mission specific documents, procedures and taskings. Assessed ROE and ID procedures based on changing alert conditions; and when delegated, authorized declaration of targets in accordance with theater ID matrix and ROE. Detected, identified, reported and tracked air traffic within the assigned area; and when delegated, supervised the declaration of targets as hostile based on hostile intent/ hostile act criteria and level of authority. Supervised electronic protection efforts to counter electronic attack, and disseminated air defense warnings as required. Monitored and supported PR/CSAR efforts as tasked. Recognized or responded to an ARM attack profile warning and notified the crew, and complied with ARM attack checklist. Committed errors or omissions that did not adversely affect mission accomplishment.

5.2.14.3. **U** . Failed to execute the assigned mission in a timely, efficient manner with a full operations crew as defined in AFI 13-1 CRC Vol. 3, tables 3.1 and 3.2. Failed to provide guidance to the sensor operations section on employment of resources, JAOP, OPLAN, ATO/ACO, OPTASK LINK, SPINS and other mission specific documents, procedures and taskings. Failed to assess ROE and ID procedures based on changing alert conditions. When delegated, failed to authorize declaration of targets in accordance with theater ID matrix and ROE. Did not monitor detection, tracking and ID of air traffic within the assigned area. When delegated, failed to supervise the declaration of targets as hostile based on hostile intent/ hostile act criteria and level of authority. Did not supervise electronic protection efforts to counter electronic attack and failed to disseminate air defense warnings as required. Did not monitor and/or support PR/CSAR efforts as tasked. Failed to recognize or respond to an ARM attack profile warning and failed to notify the crew, and did not comply with ARM attack checklist. Committed errors or omissions that jeopardized mission accomplishment.

#### 5.2.15. Area 15: Crew Leadership.

5.2.15.1. **Q** . Supervised tracking and identification of all air traffic within the assigned area, ensured identification procedures were properly executed in a timely manner, and ensured all tracks were properly identified. Ensured flight plan information was disseminated to adjacent/subordinate units, and approved all cancel track actions. Ensured coordination of ID activities with adjacent air traffic control facilities, and directed sensor configuration at subordinate units. Ensured data link track filters were built as required. Supervised sensor operations team functions to ensure accomplishment of mission objectives, and prioritized tasks plus available resources to manage workload of the sensor operations team. Ensured available assets were used to accomplish assigned mission, and ensured coordination plus information flow within operations as required. Coordinated and directed track production tasks for assigned area in accordance with ATO, ACO, and SPINS. Ensured the sensor operations team was aware of airspace control measures (ACMs) involved in the identification process (i.e., enemy airspaces [point of origin criteria], minimum risk routes).

5.2.15.2. **Q-** . Supervised tracking and identification of all air traffic within the assigned area, ensured identification procedures were properly executed in a timely manner, and ensured all tracks were properly identified. Ensured flight plan information was disseminated to adjacent/subordinate units, and approved all cancel track actions. Ensured coordination of ID activities with adjacent air traffic control facilities, and directed sensor configuration at subordinate units. Ensured data link track filters were built as required. Supervised sensor operations team functions to ensure accomplishment of mission objectives, and prioritized tasks and available resources to manage workload of the sensor operations team. Ensured available assets were used to accomplish assigned mission, and ensured coordination plus information flow within operations as required. Coordinated and directed track production tasks for assigned area in accordance with ATO, ACO, and SPINS. Ensured the sensor operations team was aware of ACMs involved in the identification process (i.e., enemy airspaces [point of origin criteria], minimum risk routes). Committed errors or omissions that did not jeopardize mission accomplishment.

5.2.15.3. **U** . Failed to supervise tracking and/or identification of all air traffic within the assigned area, failed to ensure identification procedures were properly executed in a timely manner, and failed to ensure that all tracks were properly identified. Failed to ensure flight plan information was disseminated to adjacent/subordinate units, and failed to approve all cancel track actions. Failed to ensure coordination of ID activities with adjacent air traffic control facilities, and failed to ensure data link track filters were built as required. Failed to supervise sensor operations team functions to ensure accomplishment of mission objectives, and failed to prioritize tasks and available resources to manage workload of the sensor operations team. Failed to ensure available assets were used to accomplish assigned mission, and failed to ensure coordination plus information flow within operations as required. Failed to coordinate and direct track production tasks for assigned area in accordance with ATO, ACO, and SPINS. Failed to ensure the sensor operations team was aware of ACMs involved in the identification process (i.e., enemy airspaces [point of origin criteria], minimum risk routes). Committed errors or omissions that jeopardized mission accomplishment.

5.2.16. Area 16: TDL Operations.



5.2.16.1. **Q** . Performed initial data link equipment checkout. Built, initiated and maintained a RF Link 16 and Joint Range Extension Application Protocol (JREAP) at a minimum. Built, initiated, and maintained a Link 11 or Link 11 B, as required. Conducted data link operations as directed and reported Link problems in accordance with established procedures. Used the DCN/TSN to coordinate with other data link agencies, plus 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, and built plus implemented data link filters as required. Recommended changes in data link configurations to the SL/MC as appropriate, and interpreted and responded to data link messages in a timely manner.

5.2.16.2. **Q-** . Performed initial data link equipment checkout. Built, initiated and maintained a RF Link 16 and JREAP at a minimum. Built, initiated, and maintained a Link 11 or Link 11 B, as required. Conducted data link operations as directed and reported Link problems in accordance with established procedures. Used the DCN/TSN to coordinate with other data link agencies, plus 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, and built plus implemented data link filters as required. Recommended changes in data link configurations to the SL/MC as appropriate, and interpreted and responded to data link messages in a timely manner. Committed errors or omissions that did not jeopardize mission accomplishment.

5.2.16.3. **U** . Failed to perform initial data link equipment checkout. Failed to build, initiate and maintain a RF Link 16 and JREAP at a minimum. Failed to build, initiate, and maintain a Link 11 or Link 11 B, as required. Failed to conduct datalink operations as directed and failed to report Link problems in accordance with established procedures. Failed to use DCN/TSN to coordinate with other data link agencies, plus did not coordinate the designation and use of frequencies and/or channels assigned to interface datalinks and voice coordination networks. Did not implement changes in interface configurations as directed, and failed to build plus implement data link filters as required. Did not recommend changes in data link configurations to the SL/MC as appropriate, and failed to interpret and respond to data link messages in a timely manner. Committed errors or omissions that jeopardized mission accomplishment.

#### 5.2.17. Area 17: Air/Ground Picture Management.

5.2.17.1. **Q** . Divided the CRC operational area into sub-areas and assigned appropriate STs to conduct surveillance within those areas. Ensured timely and accurate collection, display, and dissemination of air surveillance data to higher, lateral, and subordinate units as appropriate. Ensured implementation of the ACO while providing safe passage advisories. Ensured active ACMs were properly displayed and coordinated the activation and deactivation of ACMs with the crew.

5.2.17.2. **Q-** . Divided the CRC operational area into sub-areas and assigned appropriate STs to conduct surveillance within those areas. Ensured timely and accurate collection, display, and dissemination of air surveillance data to higher, lateral, and subordinate units as appropriate. Ensured implementation of the ACO while providing safe passage advisories. Ensured active ACMs were properly displayed and coordinated their activation and deactivation with the crew. Committed errors or omissions that did not adversely affect mission accomplishment.

5.2.17.3. **U** . Failed to divide the CRC operational area into sub-areas and assign appropriate STs to conduct surveillance within those areas. 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 ensure the implementation of the ACO while providing safe passage advisories. Failed to ensure active ACMs were properly displayed and did not coordinate their activation and deactivation with the crew. Committed errors or omissions that jeopardized mission accomplishment.

#### 5.2.18. Area 18: Database Initialization/Management and System Operations.

5.2.18.1. **Q** . Initiated, modified, managed the database as directed to meet operational needs. Selected, copied, deleted, reviewed, renamed, shared and/or created entries as necessary. Ensured database ATO/ACO information was correct. Recommended system configuration changes to the crew, as appropriate. Coordinated on computer problems and workarounds as required. Responded to alarms and alerts in a timely manner.

5.2.18.2. **Q-** . Initiated, modified, managed the database as directed to meet operational needs. Selected, copied, deleted, reviewed, renamed, shared and/or created entries as necessary. Ensured database ATO/ACO information was correct. Recommended system configuration changes to the crew, as appropriate. Coordinated on computer problems and workarounds as required. Responded to alarms and alerts in a timely manner. Committed errors or omissions that did not adversely affect mission accomplishment.

5.2.18.3. **U** . Failed to initiate, modify, manage database as directed to meet operational needs. Failed to select, copy, delete, review, rename, share and/or create entries as necessary. Failed to ensure data base ATO/ACO was correct. Did not recommend appropriate system configuration changes. Did not coordinate on computer problems and workarounds as required. Did not respond to alarms and alerts in a timely manner. Committed errors or omissions that jeopardized mission accomplishment.

#### 5.2.19. Area 19: Sensor Operations.

5.2.19.1. **Q** . Ensured proper sensor/site registration procedures were implemented as required. Directed coordination to resolve registration problems with interfacing units. Ensured sensors were configured and optimized to accomplish the 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. Ensured system radar correlation check was completed in accordance with the Periodic Radar Evaluation Program (PREP) worksheet. Ensured remote radar data was correlated and data was received on all tracks within the assigned area.

5.2.19.2. **Q-** . Ensured proper sensor/site registration procedures were implemented as required. Directed coordination to resolve registration problems with interfacing units. Ensured sensors were configured and optimized to accomplish the 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. Ensured system radar correlation check was completed in accordance with the PREP worksheet. Ensured remote radar data was correlated and data was received on all tracks within the assigned area. Committed errors or omissions that did not adversely affect mission accomplishment.

5.2.19.3. **U** . Failed to ensure proper sensor/site registration procedures were implemented as required. Failed to direct coordination to resolve registration problems with interfacing units. Failed to ensure sensors were configured and/or optimized to accomplish the 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. Failed to ensure system radar correlation check was completed in accordance with the PREP worksheet. Failed to ensure remote radar data was correlated and data was received on all tracks within the assigned area. Committed errors or omissions that jeopardized mission accomplishment.

**5.3. Instructor.** The following areas are applicable to initial instructor upgrade/all subsequent periodic evaluations of instructors. Specific criteria are included in [paragraph 2.4](#) of this manual.

5.3.1. Area 20: Instructional Ability.

5.3.2. Area 21: Briefings/Critique.

5.3.3. Area 22: Demonstration and Performance.

## Chapter 6

### INTERFACE CONTROL TECHNICIAN EVALUATIONS

**6.1. General.** This chapter contains the criteria specifying the tasks required of a qualified ICT in accordance with AFMAN 13-1 GBMC2 Vol. 2. Evaluation requirements are outlined in **Table 6.1** for ICT and IICT.

#### 6.1.1. Evaluation Objectives.

6.1.1.1. Qualification Evaluation. The examinee will be evaluated on their ability to accomplish required tasks safely and effectively, in accordance with technical orders, manuals, directives, and operating procedures applicable to the evaluated mission. **(T-3)**. Qualification evaluations will encompass all areas identified in **Table 6.1 (T-3)**. The examinee must demonstrate a degree of knowledge and proficiency essential for successful mission accomplishment and safety of flight. **(T-3)**. ICT qualification evaluations will be conducted either during routine daily operations or Mission Training Exercises. **(T-3)**. Tasks not observed and assessed during the normal course of the evaluation will be evaluated verbally while the examinee is on position. **(T-3)**. The evaluation requires the participation of at least one external Theater Air Control System unit or agency. At least one Link 11 or Link 16 will be used. **(T-3)**. Link events can occur on different days and/or with different agencies. **Note:** The intent of the qualification evaluation is for the examinee to demonstrate proficiency with the system (i.e., in accordance with switch actions, sensor knowledge, system capabilities) and an ability to effectively employ that system.

6.1.1.2. Mission Evaluation. The examinee will be evaluated on their ability to accomplish required tasks safely and effectively, in accordance with technical orders, manuals, directives, and operating procedures applicable to the evaluation areas table. **(T-3)**. Mission evaluations will encompass all required areas identified in **Table 6.1** for the mission profile performed. **(T-3)**. All efforts should be made to conduct the evaluation with a full operations crew as defined in AFI 13-1 CRC Vol. 3, tables 3.1 and 3.2. ICT mission evaluation will be conducted, at a minimum, with an AST and either an SL or MC during a live/virtual/constructive mission. **(T-3)**. The examinee must demonstrate a degree of knowledge and proficiency essential for successful mission accomplishment, profile execution, and safety of flight. **(T-3)**. When possible, MSN evaluations should replicate large force employment scenarios with supporting theater documents (SPINS, ROE, ATO/ACO, etc.), mission packages, and command and control electronic warfare and higher headquarters integration. The evaluation should include participation of at least one or more external Theater Air Control System units. Evaluations during exercises or exercise deployments are encouraged. Evaluations during contingency/combat deployments may be given as a last resort in order to maintain mission qualification status with the concurrence of the examinee, the deployed and unit commander. When possible the evaluation will be conducted in a controlled communications jamming environment; otherwise communications jamming may be simulated. **(T-3)**. **Note:** The intent of the mission evaluation is for the examinee to demonstrate proficiency while employing the system in a live/virtual large force scenario (i.e., in accordance with crew coordination, link management).

6.1.1.3. There will be instances where an examinee during the mission, accomplished all areas required for both the qualification and the mission evaluations. In this case, the evaluations will be annotated as a QUAL/MSN evaluation. **(T-3)**. Acceptability of required activity will be based on the evaluator's determination that all areas required for a mission and a qualification evaluation have been met. **(T-3)**.

**Table 6.1. ICT Evaluation Areas.**

Evaluation Areas	QUAL	INSTR	MSN
<b>General</b>			
1. Mission Planning	R		R
2. Briefing/Debriefing	R		R
3. Equipment Setup and Checkout	R		R
4. Console Operations and Displays	R		
5. Positional Changeover Briefing	R		
6. Emergency Action Procedures and Equipment	R		
7. Authentication Procedures	R		
8. Security/COMSEC (CRITICAL)	R	R	R
9. Safety (CRITICAL)	R	R	R
<b>Tactical Employment</b>			
10. Coordination (CRITICAL)	R	R	R
11. Crew Discipline (CRITICAL)	R	R	R
12. Radio/Telephone (R/T) Procedures	R		
13. Tactical Data Link (TDL) Operations	R		R
14. Sensor Operations Team Duties			R
<b>Instructor Areas*</b>			
15. Instructional Ability	R	R	
16. Briefings/Critique	R	R	
17. Demonstration and Performance	R	R	
<b>R</b> - Required evaluation area.  *Only required for instructor qualified crewmembers. A grade of "U" in these areas results in an overall grade of 3 for the instructor portion of the evaluation.			

**6.2. Evaluation Criteria.** All areas in this section will be graded using the grading policy in AFMAN 13-1 GBMC2 Vol. 2 and any criteria listed within the individual areas. **(T-2)**.

**6.2.1. Area 1: Mission Planning.**

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

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

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

#### 6.2.2. Area 2: Briefing/Debriefing.

6.2.2.1. **Q** . Attended all required briefings/debriefings. Briefed link architecture and equipment status during mission pre-brief or execution and debriefed crew on link operations during missions. Provided all necessary information (i.e., in accordance with unit's track number block, any participating unit, Joint Tactical Information Distribution System (JTIDS) unit, filter plan, etc.).

6.2.2.2. **Q-** . Attended all required briefings/debriefings. Briefed link architecture and equipment status during mission pre-brief or execution and debriefed crew on link operations during missions. Provided all necessary information (i.e., in accordance with unit's track number block, any participating units/JTIDS units, filter plan, etc.). Committed errors or omissions that did not adversely affect mission accomplishment.

6.2.2.3. **U** . Failed to attend all required briefings/debriefings. Did not brief link architecture and equipment status and did not extract/provide all necessary information (i.e., in accordance with unit's track number block, any participating units/JTIDS units, filter plan, etc.). Committed errors or omissions that could have jeopardized mission accomplishment.

#### 6.2.3. Area 3: Equipment Setup and Checkout.

6.2.3.1. **Q** . Configured workstations and JTIDS Module (JM) communications equipment for operations. Ensured operational checks were completed on all necessary equipment (Joint Range Extension (JRE), JTIDS terminal, etc.) before the mission and equipment outages were reported. Ensured radios were available, frequencies assigned and cryptographic equipment loaded and configured. Performed initial data link equipment checkout. Set up and operated the communications equipment in accordance with positional checklist. Located and explained communications equipment controls and indicators. Configured the communications equipment for operations as required.

6.2.3.2. **Q-** . Configured workstations and JM communications equipment for operations. Ensured operational checks were completed on all necessary equipment (JRE, JTIDS terminal, etc.) before the mission and equipment outages were reported. Ensured radios were available, configured, frequencies assigned and cryptographic equipment loaded and configured. Performed initial data link equipment checkout. Set up and operated the communications equipment in accordance with positional checklist. Located and explained communications equipment controls and indicators. Configured the communications equipment for operations as required. Committed errors or omissions that did not adversely affect mission accomplishment.

6.2.3.3. **U** . Failed to configure workstations and/or JM communications equipment for operations. Failed to ensure operational checks were completed on all necessary equipment (JRE, JTIDS terminal, etc.) before the mission and equipment outages were reported. Failed to ensure radios were available, configured, frequencies assigned and cryptographic equipment loaded and configured. Did not perform initial data link equipment checkout. Did not set up and did not operate the communications equipment in accordance with positional checklist. Failed to locate and explain communications equipment controls and indicators. Did not configure the communications equipment for operations. Committed errors or omissions that jeopardized mission accomplishment.

6.2.4. Area 4: Console Operations and Displays.

6.2.4.1. **Q** . Setup and operated the workstation and JM in accordance with unit checklists. Located controls and indicators on the JRE and/or workstation. Customized data links and display presentations.

6.2.4.2. **Q-** . Setup and operated the workstation and JM in accordance with unit checklists. Located controls and indicators on the JRE and/or workstation. Customized data links and display presentations. Committed errors or omissions that did not adversely affect mission accomplishment.

6.2.4.3. **U** . Failed to setup and operate the workstation and/or JM in accordance with unit checklists. Failed to locate controls and indicators on the JRE and/or workstation. Failed to customize data link and display presentations. Committed errors or omissions that jeopardized mission accomplishment.

6.2.5. Area 5: Positional Changeover Briefing.

6.2.5.1. **Q** . Briefed the relieving crewmember on the current operational situation before departing position. Conducted positional changeover briefing in accordance with positional checklist.

6.2.5.2. **Q-** . Briefed the relieving crewmember on the current operational situation before departing position. Conducted positional changeover briefing in accordance with positional checklist. Committed errors or omissions that did not adversely affect mission accomplishment.

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

6.2.6. Area 6: Emergency Action Procedures and Equipment.

6.2.6.1. **Q** . Demonstrated thorough knowledge of emergency action procedures/equipment and did not delay in assessing and reacting to an emergency. Thoroughly familiar with additional emergency duties. Coordinated with other crew members without delay.

6.2.6.2. **Q-** . Committed errors, omissions or delays in emergency action procedures or had minor errors in knowledge of emergency procedures/equipment that did not result in an unsafe situation or jeopardize mission accomplishment.

6.2.6.3. **U** . Unsatisfactory knowledge of emergency action procedures/equipment. Misunderstood additional emergency duties. Improperly or ineffectively coordinated with other crew members causing errors, omissions, delays or confusion that resulted in an unsafe situation and/ or jeopardized mission accomplishment.

6.2.7. Area 7: Authentication Procedures.

6.2.7.1. **Q** . Authenticated voice transmission within time limits specified on authenticators.

6.2.7.2. **Q-** . Authenticated voice transmission within time limits specified on authenticators. Committed errors or omissions that did not jeopardize mission accomplishment.

6.2.7.3. **U** . Committed errors or omissions that jeopardized mission accomplishment.

6.2.8. Area 8: Security/COMSEC (CRITICAL).

6.2.8.1. **Q** . Used and/or maintained positive control of any and all COMSEC equipment (i.e., in accordance with SKL, load cable and bag) and/or materials necessary for mission accomplishment in accordance with AFMAN 17-1302-O.

6.2.8.2. **U** . Failed to use and/or maintain positive control of any and all COMSEC equipment (i.e., in accordance with SKL, load cable and bag) and/or materials necessary for mission accomplishment in accordance with AFMAN 17-1302-O.

6.2.9. Area 9: Safety (CRITICAL).

6.2.9.1. **Q** . Aware of and complied with all safety factors required for safe operation and mission accomplishment. Ensured appropriate safety checks were accomplished as needed. Ensured adequate coordination to prevent unsafe acts. Located safety hazards and explained proper use of safety equipment. Located electrical, fire, physical and safety hazards. Located and explained the proper use of fire extinguishers.

6.2.9.2. **U** . Failed to locate safety hazards and failed to explain proper use of safety equipment. Failed to ensure appropriate safety checks were accomplished when needed. Failed to locate electrical, fire, physical and radiation safety hazards. Failed to locate and explain proper use of fire extinguishers. Committed errors or omissions that resulted in an unsafe act and/or jeopardized mission accomplishment.

6.2.10. Area 10: Coordination (CRITICAL).

6.2.10.1. **Q** . Coordinated with the mission crew to ensure equipment and assets were available and used to accomplish the assigned mission. Ensured coordination and information flow within the section, across the sections, and with external agencies as required.

6.2.10.2. **U** . Failed to coordinate with the mission crew to ensure equipment and assets were available and used to accomplish the assigned mission. Failed to ensure coordination and information flow within the section, across the sections, and with external agencies as required. Committed errors or omissions that jeopardized mission accomplishment.

6.2.11. Area 11: Crew Discipline (CRITICAL).



6.2.11.1. **Q** . Demonstrated strict, professional crew discipline throughout all phases of the mission. Executed the assigned mission in a timely, efficient manner.

6.2.11.2. **U** . Failed to exhibit strict crew discipline. Violated or ignored rules or instructions. Decision or lack thereof resulted in failure to accomplish the assigned mission. Demonstrated poor judgment to the extent that safety or mission accomplishment was compromised.

6.2.12. Area 12: R/T Procedures.

6.2.12.1. **Q** . Employed R/T procedures in accordance with AFTTP 3.3.IPE, Chapter 5. Acknowledged all communications.

6.2.12.2. **Q-** . Employed R/T procedures with errors or omissions that did not jeopardize mission accomplishment. Performance included errors, omissions, or delays that did not jeopardize mission accomplishment or safety.

6.2.12.3. **U** . Failed to employ R/T procedures in accordance with AFTTP 3.3.IPE, Chapter 5. Did not acknowledge all communications.

6.2.13. Area 13: TDL Operations.

6.2.13.1. **Q** . Performed initial data link equipment checkout. Built, initiated and maintained a RF Link 16 and JREAP at a minimum. Built, initiated, and maintained a Link 11 or Link 11 B, as required. Conducted data link operations as directed. Modified data link database information as directed. Reported link problems in accordance with established procedures. Used DCN/TSN 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 SL/AST. Interpreted and responded to data link messages in a timely manner.

6.2.13.2. **Q-** . Performed initial data link equipment checkout. Built, initiated and maintained a RF Link 16 and JREAP at a minimum. Built, initiated, and maintained a Link 11 or Link 11 B, as required. Conducted data link operations as directed. Modified data link database information as directed. Reported link problems in accordance with established procedures. Used DCN/TSN 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 SL/AST. Interpreted and responded to data link messages in a timely manner. Committed errors or omission that did not jeopardize mission accomplishment.

6.2.13.3. **U** . Failed to build, initiate and maintain a RF Link 16 and JREAP at a minimum. Failed to build, initiate, and maintain a Link 11 or Link 11 B, as required. Failed to conduct data link operations as directed. Failed to modify data link database information as directed. Failed to report Link problems in accordance with established procedures. Failed to use DCN/TSN to coordinate with other data link agencies. Did not coordinate the designation and use of frequencies and/or channels assigned to interface data links and voice coordination networks. Did not implement changes in interface configurations as directed. Failed to build and implement data link filters as required. Did not recommend changes in data link configurations to the SL/AST. Failed to interpret and respond to data link messages in a timely manner. Committed errors or omissions that jeopardized mission accomplishment.

6.2.14. Area 14: Sensor Operations Team.

6.2.14.1. **Q** . Initialized AN/TYQ-23A for use and monitored the status of internal/external communications, operator interface and database information. Established, maintained and troubleshot data links and monitored data link effectiveness. Ensured data link configurations are in accordance with the OPTASK LINK/theater link guidance and that ATO/ACO information is correct and up to date.

6.2.14.2. **Q-** . Initialized AN/TYQ-23A for use and monitored the status of internal/external communications, operator interface and database information. Established, maintained and troubleshot data links and monitored data link effectiveness. Ensured data link configurations are in accordance with the OPTASK LINK/theater link guidance and that ATO/ACO information is correct and up to date. Committed errors or omissions that did not adversely affect mission accomplishment and safety.

6.2.14.3. **U** . Failed to initialize AN/TYQ-23A for use and did not monitor the status of internal/external communications, operator interface and database information. Failed to establish, maintain and troubleshoot data links and did not monitor data link effectiveness. Failed to ensure data link configurations were in accordance with the OPTASK LINK/theater link guidance and that ATO/ACO information was correct and up to date. Committed errors or omissions that could have jeopardized mission accomplishment.

**6.3. Instructor.** The following areas are applicable to initial instructor upgrade/all subsequent periodic evaluations of instructors. Specific criteria are included in [paragraph 2.4](#) of this manual.

6.3.1. Area 15: Instructional Ability.

6.3.2. Area 16: Briefings/Critique.

6.3.3. Area 17: Demonstration and Performance.

## Chapter 7

### SURVEILLANCE TECHNICIAN EVALUATIONS

**7.1. General.** This chapter contains the criteria specifying the tasks required of a qualified Surveillance Technician (ST) in accordance with AFMAN 13-1 GBMC2 Vol. 2. Evaluation requirements are outlined in **Table 7.1** for ST and IST.

#### 7.1.1. Evaluation Objectives.

7.1.1.1. Qualification Evaluation. The examinee will be evaluated on their ability to accomplish required tasks safely and effectively, in accordance with technical orders, manuals, directives, and operating procedures applicable to the evaluated mission. **(T-3)**. Qualification evaluations will encompass all areas identified in **Table 7.1 (T-3)**. Efforts should be made to conduct the evaluation with a full operations crew as defined in AFI 13-1 CRC Vol. 3, tables 3.1 and 3.2. ST qualification evaluations will be conducted, at a minimum, with a sensor operations team during a live/virtual/constructive mission. **(T-3)**. The examinee must demonstrate a degree of knowledge and proficiency essential for successful mission accomplishment and safety of flight to include aircraft emergencies. **(T-3)**. Tasks not observed and assessed during the normal course of the evaluation will be evaluated verbally while the examinee is on position. **(T-3)**. When possible the evaluation will be conducted in a controlled communications jamming environment; otherwise communications jamming may be simulated. **(T-3)**. **Note:** The intent of the qualification evaluation is for the examinee to demonstrate proficiency with the system (i.e., in accordance with switch actions, sensor knowledge, system capabilities) and an ability to effectively employ that system.

7.1.1.2. Mission Evaluation. The examinee will be evaluated on their ability to accomplish required tasks safely and effectively, in accordance with technical orders, manuals, directives, and operating procedures applicable to the evaluation areas table. **(T-3)**. Mission evaluations will encompass all required areas identified in **Table 7.1** for the mission profile performed. **(T-3)**. Efforts should be made to conduct the evaluation with a full operations crew as defined in AFI 13-1 CRC Vol. 3, **tables 3.1 and 3.2**. ST mission evaluations will be conducted at a minimum, with a sensor operations team during a live/virtual/constructive mission. **(T-3)**. Tasks not observed and assessed during the normal course of the evaluation will be evaluated verbally while the examinee is on position. **(T-3)**. The examinee must demonstrate a degree of knowledge and proficiency essential for successful mission accomplishment, profile execution, and safety of flight to include aircraft emergencies. **(T-3)**. When possible, MSN evaluations should replicate large force employment scenarios with supporting theater documents (SPINS, ROE, ATO/ACO, etc.), mission packages, and command and control electronic warfare and higher headquarters integration. Evaluations during exercises or exercise deployments are encouraged. Evaluations during contingency/combat deployments may

be given as a last resort in order to maintain mission qualification status with the concurrence of the examinee, the deployed and unit commander. When possible the evaluation will be conducted in a controlled communications jamming environment; otherwise communications jamming may be simulated. **(T-3)**. **Note:** The intent of the mission evaluation is for the examinee to demonstrate proficiency while employing the system in a live/virtual large force scenario (i.e., in accordance with crew coordination, air picture maintenance).

7.1.1.3. There will be instances where an examinee, during the mission, accomplished all areas required for both the qualification and the mission evaluations. In this case, the evaluations will be annotated as a QUAL/MSN evaluation. **(T-3)**. Acceptability of required activity will be based on the evaluator's determination that all areas required for a mission and a qualification evaluation have been met. **(T-3)**.

**Table 7.1. ST Evaluation Areas.**

<b>Evaluation Areas</b>	<b>QUAL</b>	<b>INSTR</b>	<b>MSN</b>
<b>General</b>			
1. Mission Planning	R		R
2. Briefing/Debriefing	R		R
3. Equipment Setup and Checkout	R		
4. Console Operations and Displays	R		
5. Positional Changeover Briefing			R
6. Emergency Action Procedures and Equipment	R		
7. Authentication Procedures			R
8. Security/COMSEC (CRITICAL)	R	R	R
9. Safety (CRITICAL)	R	R	R
10. Aircraft Emergency (CRITICAL)	R	R	R
<b>Tactical Employment</b>			
11. Coordination (CRITICAL)	R	R	R
12. Crew Discipline (CRITICAL)	R	R	R
13. Radio/Telephone (R/T) Procedures	R		R
14. Tactical Data Link (TDL) Operations	R		
15. Air Picture Maintenance	R		R
16. Database/System Operations	R		R
17. Tell Operations	R		
18. Track Identification	R		R
<b>Instructor Areas*</b>			
19. Instructional Ability	R	R	R
20. Briefings/Critique	R	R	R
21. Demonstration and Performance	R	R	R
<b>R</b> - Required evaluation area.  *Only required for instructor qualified crewmembers. A grade of "U" in these areas results in an overall grade of 3 for the instructor portion of the evaluation.			

**7.2. Evaluation Criteria.** All areas in this section will be graded using the grading policy in AFMAN 13-1 GBMC2 Vol. 2 and any criteria listed within the individual areas. **(T-2).**

**7.2.1. Area 1: Mission Planning.**

7.2.1.1. **Q** . Extracted information from mission planning documents as directed by the SL/AST. Read and initialed all items in the FCIF and/or read files.

7.2.1.2. **Q-** . Extracted information from mission planning documents as directed by the SL/AST. Read and initialed all items in the FCIF and/or read files. Committed errors or omissions that did not adversely affect mission accomplishment.

7.2.1.3. **U** . Failed to extract information from mission planning documents as directed by the SL/AST. Failed to read and/or initial all items in the FCIF and/or read files. Committed errors or omissions that could have jeopardized mission accomplishment.

7.2.2. Area 2: Briefing/Debriefing.

7.2.2.1. **Q** . Attended all required briefings/debriefings and extracted/provided all necessary information. Performed briefings/debriefings in an organized, logical sequence in accordance with applicable directives. Provided constructive feedback on team and individual performance. Provided specific instructional fixes to correct errors, and requested inputs from others. Summarized mission execution, identified lessons learned, and compared mission results with crew objectives.

7.2.2.2. **Q-** . Attended all required briefings/debriefings. Extracted/provided information or conducted briefings/debriefings and/or ensured the aircrew was thoroughly briefed on all aspects of the mission. Provided constructive feedback on team and individual performance. Provided specific instructional fixes to correct errors, and requested inputs from others. Summarized mission execution, identified lessons learned, and compared mission results with crew objectives. Committed errors or omissions that did not jeopardize mission accomplishment.

7.2.2.3. **U** . Failed to attend all required briefings/debriefings and extract/provide all necessary information. Failed to establish and maintain team concept and environment for open communications and feedback. Committed errors or omissions that jeopardized mission accomplishment.

7.2.3. Area 3: Equipment Setup and Checkout.

7.2.3.1. **Q** . Ensured operational checks were completed on all equipment before mission. Ensured equipment outages were reported. Ensured the required radios were available, frequencies assigned and cryptographic equipment loaded and configured. Configured communications equipment for operations as required and accessed as needed in accordance with checklists. Setup and operated the display/workstation to optimize situational awareness in accordance with checklists.

7.2.3.2. **Q-** . Ensured operational checks were completed on all equipment before mission. Ensured equipment outages were reported. Ensured the required radios were available, frequencies assigned and cryptographic equipment loaded and configured. Configured communications equipment for operations as required and accessed as needed in accordance with checklists. Setup and operated the display/workstation to optimize situational awareness in accordance with checklists. Committed errors or omissions that did not adversely affect mission accomplishment.

7.2.3.3. **U** . Failed to ensure operational checks were completed on all equipment before mission. Failed to ensure equipment outages were reported. Failed to ensure the required radios were available, frequencies assigned and cryptographic equipment loaded and configured. Did not configure communications equipment for operations as required and accessed as needed in accordance with checklists. Failed to setup and operate the display/workstation to optimize situational awareness in accordance with checklists. Committed errors or omissions that could have jeopardized mission accomplishment.

#### 7.2.4. Area 4: Console Operations and Displays.

7.2.4.1. **Q** . Interpreted, initiated, and updated data for computer displays. Responded to alarms and alerts. Performed surveillance-related console operations to maintain an accurate air picture.

7.2.4.2. **Q-** . Interpreted, initiated, and updated data for computer displays. Responded to alarms and alerts. Performed surveillance-related console operations to maintain an accurate air picture. Committed errors or omissions that did not adversely affect mission accomplishment.

7.2.4.3. **U** . Failed to interpret, initiate, and update data for computer displays. Failed to respond to alarms and alerts. Did not perform surveillance-related console operations to maintain an accurate air picture. Committed errors or omissions that jeopardized mission accomplishment.

#### 7.2.5. Area 5: Positional Changeover Briefing.

7.2.5.1. **Q** . Briefed the relieving crewmember on the current operational situation before departing position. Conducted positional changeover briefing in accordance with positional checklist.

7.2.5.2. **Q-** . Briefed the relieving crewmember on the current operational situation before departing position. Conducted positional changeover briefing in accordance with positional checklist. Committed errors or omissions that did not adversely affect mission accomplishment.

7.2.5.3. **U** . Failed to brief the relieving crewmember on the current operational situation before departing position. Did not conduct positional changeover briefing in accordance with positional checklist. Committed errors or omissions that jeopardized mission accomplishment.

#### 7.2.6. Area 6: Emergency Action Procedures and Equipment.

7.2.6.1. **Q** . Demonstrated thorough knowledge of emergency action procedures/equipment and did not delay in assessing and reacting to an emergency. Thoroughly familiar with additional emergency duties. Coordinated with other crewmembers immediately.

7.2.6.2. **Q-** . Committed errors, omissions or delays in emergency action procedures or had minor errors in knowledge of emergency procedures/equipment that did not result in an unsafe situation or jeopardize mission accomplishment.

7.2.6.3. **U** . Unsatisfactory knowledge of emergency action procedures/equipment. Misunderstood additional emergency duties. Improperly or ineffectively coordinated with other crewmembers causing errors, omissions, delays or confusion that resulted in an unsafe situation and/ or jeopardized mission accomplishment.

#### 7.2.7. Area 7: Authentication Procedures.

7.2.7.1. **Q** . Authenticated voice transmission within time limits specified on authenticators.

7.2.7.2. **Q** . Authenticated voice transmission within time limits specified on authenticators. Committed errors or omissions that did not jeopardize mission accomplishment.

7.2.7.3. **U** . Committed errors or omissions that jeopardized mission accomplishment.

7.2.8. Area 8: Security/COMSEC (CRITICAL).

7.2.8.1. **Q** . Used and/or maintained positive control of any and all COMSEC equipment (i.e., in accordance with SKL, load cable and bag) and/or materials necessary for mission accomplishment in accordance with AFMAN 17-1302-O.

7.2.8.2. **U** . Failed to use and/or maintain positive control of any and all COMSEC equipment (i.e., in accordance with SKL, load cable and bag) and/or materials necessary for mission accomplishment in accordance with AFFMAN 17-1302-O.

7.2.9. Area 9: Safety (CRITICAL).

7.2.9.1. **Q** . Aware of and complied with all safety factors required for safe operation and mission accomplishment. Ensured adequate coordination to prevent unsafe acts. Located safety hazards and explained proper use of safety equipment. Located electrical, fire, physical, and radiation safety hazards. Located and explained the use of fire extinguishers.

7.2.9.2. **U** . Was not aware of or did not comply with all safety factors required for safe operation or mission accomplishment. Failed to locate safety hazards and explain the proper use of safety equipment. Failed to locate electrical, fire, physical, and radiation safety hazards. Failed to locate and explain proper use of fire extinguishers. Committed errors or omissions that could have jeopardized personnel safety or equipment.

7.2.10. Area 10: Aircraft Emergency (CRITICAL).

7.2.10.1. **Q** . Recognized and reacted to assist the crew in handling an aircraft emergency. Recognized emergency symbols and codes on the scope. Entered an emergency point on the scope. Coordinated emergency responses in a timely manner in accordance with the emergency checklist.

7.2.10.2. **U** . Failed to recognize and/or assist the crew in handling an aircraft emergency. Failed to recognize emergency symbols or codes on the scope. Failed to enter an emergency point on the scope. Failed to coordinate emergency responses in a timely manner in accordance with the emergency checklist. Committed errors or omissions that endangered aircrews and aircraft and jeopardized mission accomplishment.

7.2.11. Area 11: Coordination (CRITICAL).

7.2.11.1. **Q** . Coordinated with the mission crew to ensure equipment and assets were available and used to accomplish the assigned mission. Ensured coordination and information flow within the section and cross-sections as required.



7.2.11.2. **U** . Failed to coordinate with the mission crew to ensure equipment and assets are available and used to accomplish the assigned mission. Failed to ensure coordination and information flow within the section and cross-sections as required. Committed errors or omissions that endangered aircrews and aircraft and jeopardized mission accomplishment.

7.2.12. Area 12: Crew Discipline (CRITICAL).

7.2.12.1. **Q** . Demonstrated strict, professional crew discipline throughout all phases of the mission. Executed the assigned mission in a timely, efficient manner.

7.2.12.2. **U** . Failed to exhibit strict crew discipline. Violated or ignored rules or instructions. Decision or lack thereof resulted in failure to accomplish the assigned mission. Demonstrated poor judgment to the extent, that safety or mission accomplishment was compromised.

7.2.13. Area 13: R/T Procedures.

7.2.13.1. **Q** . Employed R/T procedures in accordance with AFTTP 3-3.IPE, Chapter 5. Acknowledged all communications.

7.2.13.2. **Q-** . Employed R/T procedures with errors or omissions that did not jeopardize mission accomplishment. Performance included errors, omissions, or delays that did not jeopardize mission accomplishment or safety.

7.2.13.3. **U** . Failed to employ R/T procedures in accordance with AFTTP 3-3.IPE, Chapter 5. Did not acknowledge all communications.

7.2.14. Area 14: TDL Operations.

7.2.14.1. **Q** . Modify and maintain a common tactical picture. Reported data link problems in accordance with established procedures. Utilized the DCN/TSN to coordinate with other data link agencies. Interpreted and responded to data link messages in a timely manner.

7.2.14.2. **Q-** . Modify and maintain a common tactical picture. Reported data link problems in accordance with established procedures. Utilized the DCN/TSN to coordinate with other data link agencies. Interpreted and responded to data link messages in a timely manner. Committed errors or omissions that did not jeopardize mission accomplishment.

7.2.14.3. **U** . Failed to modify and maintain a common tactical picture. Did not report data link problems established procedures. Failed to utilize the use of the DCN/TSN to coordinate with other data link in accordance with k agencies. Did not interpret and/or respond to data link messages in a timely manner. Committed errors or omissions that could have jeopardized mission accomplishment.

7.2.15. Area 15: Air Picture Maintenance.

7.2.15.1. **Q** . Interpreted track symbols and modifiers. Read and interpreted information displayed on scope. Took appropriate actions associated with initiating and maintaining tracks. Maintained surveillance tracks within 2 nautical miles of radar data.

7.2.15.2. **Q-** . Interpreted track symbols and modifiers. Read and interpreted information displayed on scope. Took appropriate actions associated with initiating and maintaining tracks. Maintained surveillance tracks within 2 nautical miles of radar data. Committed errors or omissions that did not adversely affect mission accomplishment.

7.2.15.3. **U** . Failed to use system displays to maintain an air picture. Failed to interpret track symbols and modifiers. Failed to read and interpret information displayed on scope. Failed to take appropriate actions associated with initiating and maintaining tracks. Failed to maintain surveillance tracks within 2 nautical miles of radar data. Committed errors or omissions that could have jeopardized mission accomplishment.

#### 7.2.16. Area 16: Database/System Operations.

7.2.16.1. **Q** . Ensured database ATO information was correct and current. Managed the database and system configuration. Recommended system configuration changes to the crew (AST, SL, or MC) as appropriate. Configured system and database as required. Coordinated on computer problems and workarounds as required. Responded to alarms and alerts in a timely manner.

7.2.16.2. **Q-** . Ensured database ATO information was correct and current. Managed the database and system configuration. Recommended system configuration changes to the crew (AST, SL, or MC) as appropriate. Configured system and database as required. Coordinated on computer problems and workarounds as required. Responded to alarms and alerts in a timely manner. Committed errors or omissions that did not adversely affect mission accomplishment.

7.2.16.3. **U** . Failed to ensure database ATO information was correct and current. Failed to manage the database and system configuration. Did not recommend system configuration changes to the crew (AST, SL, or MC) as appropriate. Failed to configure system and database as required. Did not coordinate on computer problems and workarounds as required. Did not respond to alarms and alerts in a timely manner. Committed errors or omissions that jeopardized mission accomplishment.

#### 7.2.17. Area 17: Voice Tell Operations

7.2.17.1. **Q** . Performed Voice Tell operations in accordance with AFI 13-1 CRC Vol. 3 and AFTTP 3-3.IPE as directed.

7.2.17.2. **Q-** . Performed Voice Tell operations in accordance with AFI 13-1 CRC Vol. 3 and AFTTP 3-3.IPE as directed. Committed errors or omissions that did not adversely affect mission accomplishment.

7.2.17.3. **U** . Failed to perform Voice Tell operations AFI 13-1 CRC Vol. 3 and AFTTP 3-3.IPE as directed. Committed errors or omissions that could have jeopardized mission accomplishment.

#### 7.2.18. Area 18: Track Identification.

7.2.18.1. **Q** . Identified air tracks in the assigned area in accordance with identification procedures specified by the ROE. Located and used switch actions to identify tracks. Interrogated IFF/SIF and used switch actions required to display appropriate ID symbols.

7.2.18.2. **Q-** . Identified air tracks in the assigned area in accordance with identification procedures specified by the ROE. Located and used switch actions to identify tracks. Interrogated IFF/SIF and used switch actions required to display appropriate ID symbols. Committed errors or omissions that did not jeopardize mission accomplishment.

7.2.18.3. **U** . Failed to identify air tracks in the assigned area in accordance with identification procedures specified by the 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 IFF/SIF. Failed to use switch actions to display appropriate ID symbols. Committed errors or omissions that could have resulted in fratricide or jeopardized mission accomplishment.

**7.3. Instructor.** The following areas are applicable to initial instructor upgrade/all subsequent periodic evaluations of instructors. Specific criteria are included in **paragraph 2.4** of this manual.

7.3.1. Area 19: Instructional Ability.

7.3.2. Area 20: Briefings/Critique.

7.3.3. Area 21: Demonstration and Performance.

JOSEPH T. GUASTELLA Jr., Lt Gen, USAF  
Deputy Chief of Staff for Operations

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

DAFPD 10-9, *Lead Command Designation and Responsibilities for Weapon Systems*, 8 March 2007

DAFPD 13-1, *Command and Control Enterprise (C2 Enterprise)*, 6 August 2012

DAFPD 13-2, *Air Traffic Control, Airfield, Airspace and Range Management*, 3 January 2019

AFI 11-214, *Air Operations Rules and Procedures*, 8 July 2020

AFI 13-1 CRC Vol. 3, *Operating Procedures – Control and Reporting Center (CRC)*, 21 January 2010

AFI 33-322, *Records Management and Information Governance Program*, 23 March 2020

AFI 33-360, *Publications and Forms Management*, 1 December 2015

AFMAN 13-1 CRC Vol. 1, *Control and Reporting Center—Training*, 28 January 2020

AFMAN 13-1 GBMC2 Vol 2, *Ground Battle Management Command and Control (GBMC2) Standardization/Evaluation Program*, 1 October 2020

AFMAN 17-1302-O, *Communications Security (COMSEC) Operations*, 9 April 2020

AFTTP 3-3.IPE, *Integrated Planning and Employment*, 3 April 2020

ATP 3.3.4.2, *Air to Air Refueling*, November 2013

***Prescribed Forms***

None

***Adopted Forms***

AF Form 8, *Certification of Aircrew Qualification*

AF Form 847, *Recommendation for Change of Publication*

***Abbreviations and Acronyms***

**ABM**—Air Battle Manager

**ACC**—Air Combat Command

**ACG**—Air Control Group

**ACM**—Airspace Control Measure

**ACO**—Airspace Control Order

**ACP**—Airspace Control Plan

**ADA**—Air Defense Artillery

**ADAFCO**—Air Defense Artillery Fire Control Officer

**AETC**—Air Education and Training Command  
**AFTTP**—Air Force Tactics Techniques and Procedures  
**ANG**—Air National Guard  
**AOR**—Area of Responsibility  
**ARM**—Anti-Radiation Missile  
**AST**—Air Surveillance Technician  
**ATO**—Air Tasking Order  
**ATP**—Allied Tactical Procedure  
**BMC2**—Battle Management Command and Control  
**CAP**—Combat Air Patrol  
**COMSEC**—Communications Security  
**CRC**—Control and Reporting Center  
**CSAR**—Combat Search and Rescue  
**DCN**—Datalink Coordination Network  
**EQ**—Exceptionally Qualified  
**FCIF**—Flight Crew Information File  
**FTU**—Formal Training Unit  
**HQ**—Headquarters  
**ICT**—Interface Control Technician  
**IICT**—Instructor Interface Control Technician  
**ID**—Identification  
**IFF**—Identification Friend or Foe  
**IST**—Instructor Surveillance Technician  
**JAOP**—Joint Air Operations Plan  
**JM**—JTIDS Module  
**JMTOP**—Joint Multi-Tactical Data Link (TDL) Operating Procedures  
**JRE**—Joint Range Extension  
**JREAP**—Joint Range Extension Application Protocol  
**JTIDS**—Joint Tactical Information Distribution System  
**MAJCOM**—Major Command  
**MC**—Mission Commander  
**MSN**—Mission Qualification

**MTS**—Mobile Training Suite

**NGB**—National Guard Bureau

**OPLAN**—Operations Plan

**OPR**—Office of Primary Responsibility

**OPTASK LINK**—Operational Tasking Data Link

**OSS**—Operations Support Squadron

**PPLI**—Positive Position Locating Information

**PR/CSAR**—Personnel Recovery/Combat Search and Rescue

**PREP**—Periodic Radar Evaluation

**Q**—Qualified

**QUAL**—Qualification

**ROE**—Rules of Engagement

**RQ**—Requalification

**R/T**—Radio/Telephone

**SEE**—Stan/Eval Examiner

**SIF**—Selective Identification Feature

**SKL**—Simple Key Loader

**SL**—Section Lead

**SPINS**—Special Instructions

**ST**—Surveillance Technician

**STAN/EVAN**—Standardization/Evaluation

**TDL**—Tactical Data Link

**TOD**—Time of Day

**TSN**—Track Supervision Network

**U**—Unqualified

**USAFE-AFAFRICA**—United States Air Forces Europe-Air Forces Africa

**WD**—Weapons Director