

**BY ORDER OF THE COMMANDER  
AIR COMBAT COMMAND**

**AIR COMBAT COMMAND  
INSTRUCTION 99-101**

**24 AUGUST 2020**

**Test and Evaluation**

**ACC TEST AND EVALUATION**



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This instruction implements policy for Air Combat Command (ACC) management, conduct and support of Test and Evaluation (T&E) subject to Air Force Policy Directive (AFPD) 99-1, *Test and Evaluation Process*; Air Force Instruction 99-103, *Capabilities Based Test and Evaluation*, and AFPD 10-9, *Lead Command Designation and Responsibilities for Weapon Systems*. It establishes responsibilities and procedures for conducting ACC T&E consisting of operational test and evaluation (OT&E), force development evaluations (FDE), foreign comparative testing (FCT), joint test and evaluation (JT&E), and other T&E-related activities. ACC is the lead- command for conducting Combat Air Forces (CAF) T&E that require the use of assets under the purview of ACC. This instruction applies to Air Force Reserve Command (AFRC) and Air National Guard (ANG) units and members. This instruction may be used by other MAJCOMs in the conduct of T&E when it is approved and issued by their publishing authority. Test Centers involved in ACC T&E may supplement this instruction; however, draft supplements must be submitted to ACC/A5T for review and approval. ACC/A5/8/9 and ACC/A3 are the waiver authorities for ACCI 99-101 unless otherwise noted. In accordance with (IAW) DAFI 33-360, *Publications and Forms Management*, waiver approval for compliance paragraphs are identified with a Tier number. Compliance with the attachments in this publication is not mandatory. Submit requests for waivers through chain of command to the appropriate Tier waiver approval authority, or alternately, to the Publication OPR (ACC/A5T) for non-tiered compliance items. Refer recommended changes and questions about this publication to the Office of Primary Responsibility (OPR) using the AF Form 847, *Recommendation for Change of Publication*; route AF Form 847s from the field through Major Command (MAJCOM) to ACC/A5T, 204 Dodd Blvd., Suite 308, Langley AFB, VA 23665-

2777, or <https://acc.eim.acc.hedc.af.mil/org/ppr/A5Tmain/default.aspx>. Ensure that all records created as a result of processes prescribed in this publication are maintained IAW Air Force Instruction (AFI) 33-322, *Records Management and Information Governance Program*, and disposed of IAW Air Force Records Information Management System (AFRIMS) Records Disposition Schedule (RDS).

## ***SUMMARY OF CHANGES***

This document has been substantially revised to address the new ACC test tasking and prioritization process. The Electronic Project Order (EPO) process is replaced with the Operational Test Support Request (OTSR) process for material solutions and the Tactics Improvement Proposal (TIP) process for Tactics Development Evaluations (TD&Es).

<b>Chapter 1— GENERAL GUIDANCE</b>	<b>5</b>
1.1. Purpose of Conducting Test and Evaluation (T&E). .....	5
1.2. Types of T&E. ....	5
1.3. General T&E Policy. ....	5
<b>Chapter 2— GENERAL PROCEDURES</b>	<b>8</b>
2.1. HQ ACC Oversight. ....	8
2.2. Office of the Secretary of Defense (OSD) T&E Oversight List. ....	8
2.3. Test Support for another MAJCOM, Agency or Service. ....	8
2.4. Resource Management. ....	9
2.5. T&E Funding Sources. ....	9
2.6. Operational Support. ....	9
2.7. Operational Test Support Request. ....	10
2.8. Certification of System Readiness for Operational Testing. ....	12
2.9. Test Resource Plans (TRP). ....	12
2.10. Test Plans. ....	12
2.11. Support Plans. ....	13
2.12. Test Conduct. ....	13
2.13. Interim Reports. ....	13
2.14. Quarterly Reports. ....	13
2.15. Reporting/Deliverables. ....	14

2.16.	Distribution. ....	15
2.17.	Operational Briefings. ....	15
2.18.	Release/Fielding Recommendations. ....	15
2.19.	Sufficiency of Test Review (SOTR). ....	15
2.20.	Capabilities and Limitations Report (C&LR). ....	15
2.21.	Verification Flight Test (VFT). ....	16
2.22.	ACC Test Support to Research and Product Development Organizations. ....	16
2.23.	Capabilities Readiness Assessment. ....	17
<b>Chapter 3— CAF TACTICS DEVELOPMENT PROGRAM</b>		<b>18</b>
3.1.	ACC Tasking. ....	18
3.2.	Tactics Development. ....	18
3.3.	Tactic Improvement Proposal (TIP). ....	18
3.4.	Approval Level Responsibilities. ....	18
3.5.	Test Organizations. ....	18
3.6.	AFTTP Responsibilities. ....	19
3.7.	Identification of Tactics Deficiencies. ....	19
3.8.	Tactics Investigations (TI). ....	20
<b>Chapter 4— TEST PRIORITY LIST (TPL) PROCESS</b>		<b>21</b>
4.1.	TPL Process. ....	21
Figure 4.1.	OTSR/TIP Validation & Tasking Cycle .....	22
Figure 4.2.	Test Project Orders .....	23
<b>Chapter 5— TEST AND EVALUATION RESPONSIBILITIES</b>		<b>24</b>
5.1.	Director of Plans, Programs and Requirements (ACC/A5/8/9). ....	24
5.2.	Test and Training Division (ACC/A5T). ....	25
5.3.	Advanced Programs Division (ACC/A5/8Z). ....	25
5.4.	Director of Operations (ACC/A3). ....	26
5.5.	Strategic Deterrence, Nuclear Integration and Conventional Testing of B-2 and B-52 (AFGSC/A3/6, A5/8 and ACC/A10). ....	26
5.6.	Airspace Ranges and Airfield Operations Division (ACC/A3A). ....	26

5.7.	Operations Division (ACC/A3O). .....	26
5.8.	Flight Operations Division (ACC/A3T). .....	27
5.9.	C2 ISR Air and Space Operations Center Division (ACC/A3C). .....	27
5.10.	Director of Logistics, Engineering and Force Protection (ACC/A4). .....	27
5.11.	Director of Communications (ACC/A6). .....	28
5.12.	Test Centers. ....	28
5.13.	ACC Project Officer. ....	30
5.14.	Project Manager. ....	31
<b>Attachment 1— GLOSSARY OF REFERENCES AND SUPPORTING INFORMATION</b>		<b>33</b>
<b>Attachment 2— EXAMPLE QUARTERLY ASSESSMENT</b>		<b>39</b>
<b>Attachment 3— TEST SUFFICIENCY LEVELS (TSLs)</b>		<b>41</b>

## Chapter 1

### GENERAL GUIDANCE

**1.1. Purpose of Conducting Test and Evaluation (T&E).** The primary functions of T&E are to determine if systems are effective and suitable and to identify and help resolve deficiencies as early as possible. T&E:

- 1.1.1. Provides information to decision makers so they may assess whether a system or technique is useful and cost effective.
- 1.1.2. Reduces system acquisition and sustainment program risk.
- 1.1.3. Gives operational users the information needed to develop doctrines, refine requirements, and develop and refine tactics, techniques, and procedures (TTP).

**1.2. Types of T&E.** Air Force Instruction (AFI) 99-103, *Capabilities Based Test and Evaluation*, outlines overall policy for T&E activities during the development, production, and fielding of Air Force systems. T&E att into two general categories, developmental test and evaluation (DT&E) and operational test and evaluation (OT&E). OT&E also includes categories of initial operational test and evaluation (IOT&E), multi-service operational test and evaluation (MOT&E), qualification operational test and evaluation (QOT&E) and follow-on test and evaluation (FOT&E). These types of T&E are normally conducted by the Air Force Operational Test and Evaluation Center (AFOTEC) for Acquisition Category (ACAT) I/II programs and programs on Office of the Secretary of Defense (OSD) oversight. MAJCOM support is often requested by AFOTEC for these test efforts, and frequently, AFOTEC defers (non-involves) testing responsibilities to the MAJCOMs. Other OT&E-related activities include operational assessments (OA), operational utility evaluations (OUE), military utility assessment (MUA), foreign materiel exploitation (FME), foreign comparative test (FCT) and test support for technology transition mechanisms. Technology transition mechanisms include advanced technology demonstrations (ATD), advanced concept technology demonstrations (ACTD)/ Joint Capability Technology Demonstrations (JCTD), and exercises and experiments. The focus of ACC T&E is force development evaluation (FDE), a subset of OT&E. FDE is primarily concerned with post-Milestone C (i.e., production and deployment phase) sustainment and operations, acquisition, pre-planned product improvement (P3I), and associated TTP development. Sustainment operational testing also includes tactics development and evaluation (TD&E) and the Weapon System Evaluation Program (WSEP). For further guidance and definition, see AFI 99-103 and AFMAN 11-260, *Tactics Development Program*.

**1.3. General T&E Policy.** As the lead Major Command (MAJCOM) for CAF T&E, ACC will:

- 1.3.1. Use dedicated test assets as available in the conduct of these tests IAW Air Force Policy Directive (AFPD) 10-9.
- 1.3.2. Conduct T&E over the life of a system to ensure the system continues to meet user requirements and to explore means of satisfying deficiencies.
- 1.3.3. To the maximum extent possible, conduct T&E in a Joint environment.
- 1.3.4. Conduct FDE to support acquisition and fielding decisions, refine estimates made during IOT&E or QOT&E, evaluate changes and verify correction of deficiencies, assist in TTP development, and to reevaluate a system to ensure it continues to meet operational needs.

1.3.5. ACC test units may support IOT&E, QOT&E, and FOT&E, but will not conduct these forms of T&E.

1.3.6. ACC test units may support but will not lead DT&E. DT&E support should be limited to pursuit of operational test objectives, but units may participate in combined test force activities and resource sharing agreements that promote efficiency.

1.3.7. ACC test units may support interoperability certification, military standard (MIL-STD) testing and DT&E support. A5J is the ACC POC for Tactical Data Link (TDL) interoperability and MIL-STD testing. The ACC Communication Support Squadron (CSS) TDL Interoperability Test Center is the primary organization performing MIL-STD interoperability testing. The ACC CSS also facilitates AF platform participation in joint interoperability tests performed by the Joint Interoperability Test Command (JITC).

1.3.8. The United States Air Force Warfare Center (USAFWC) and the Air National Guard Air Force Reserve Command Test Center (AATC) are the principal organizations responsible for planning, coordinating and accomplishing CAF T&E. The 557 Weather Wing (WW) is the principal organization responsible for planning, coordinating and accomplishing Air Force Weather Weapon System T&E. The 67 Cyber Wing (CW) is the principle organization responsible for planning, coordinating and accomplishing CAF Cyber related T&E.

1.3.8.1. Test centers will develop and evaluate TTPs to support the CAF; manage and conduct OT&E, FDE and other OT&E-related activities (e.g., MOT&E); manage and conduct Air-to-Air, Air-to-Ground and Nuclear WSEP; and support test projects conducted by AFOTEC, Air Force MAJCOMs, Department of Defense (DoD) and other government agencies as assigned.

1.3.8.2. T&E will be conducted using operational criteria by test personnel with qualifications commensurate with those who will use, maintain, and/or support the items being evaluated. OT&E, FDE, and TD&E will be conducted in an operationally representative environment. **(T-2).**

1.3.8.3. Each ACC test center will develop programs to appropriately train newly assigned or unqualified personnel in T&E procedures, policy and organization.

1.3.9. To ensure efficient use of ACC resources, manage operational risk and ensure personnel safety, operational or test units will not accept tasking or offerings to participate in T&E activities, to include test conducted on behalf of AFGSC, without ACC/A5/8/9 approval. Operational or test units requesting test support from ACC operational units must refer requests for T&E support requiring CAF assets to ACC/A5T (<https://acc.eim.acc.hedc.af.mil/org/ppr/A5Tmain/default.aspx>). **(T-2).**

1.3.10. ACC operational test units, IAW AFI 99-103, will incorporate appropriate levels of cyber security and cyber resiliency testing (i.e., mission assurance testing) for all IS (information system) and PIT (platform information technology) systems that possess connections (including, but not limited to, hardwired, EO/RF/IR, data transfer modules, etc.) to IT networks, personal data assistants, or databases; or systems that possess air-gapped apertures/interfaces that potentially allow for open-air transmit and/or receive of data packages. This testing will be targeted to credible, real-world threats (i.e., realistic system attack surfaces with rationally exploitable system-under-test vulnerabilities) in the system's intended operating environment. The focus of mission assurance OT will be on system and

mission level capabilities, not component-level vulnerabilities; and will specifically address whether technical, operational and managerial controls for the system provide the necessary ability to mitigate potential adverse functionality. It is highly likely that weapon system vulnerabilities uncovered in cyber testing are classified; operational testers should comply with all applicable security guidance when collecting data for and/or reporting results of cyber assessments. **(T-2).**

1.3.11. ACC test units IAW AFI 99-103 may, to the extent practical, conduct operational test scenarios during exercise and training events. All test objectives will be transparent and subordinate to the exercise and training activity. Any participation must be synchronized with and approved by the lead coordinating authority. Testing in exercise and training events is an effective/efficient process for evaluating hardware/software in operationally representative environments. Extensive planning with all participating units to properly align test objectives with exercise/training objectives is critical to obtain relevant data collection and analysis that facilitates an informed fielding decision.

1.3.12. ACC test units IAW AFI 99-103 will, to the extent practical, integrate testing across the test continuum from system inception through post-Milestone C sustainment and upgrades. This should include collaborative planning and execution of test phases and events to provide shared data in support of independent analysis, evaluation and reporting by all stakeholders developmental (DT) and operational (OT). Where possible Combined Test Force (CTF) constructs should be used to maximize integrated testing and minimize required dedicated DT and OT testing.

## Chapter 2

### GENERAL PROCEDURES

**2.1. HQ ACC Oversight.** The conduct of T&E often involves unique risks. A disciplined test prioritization and approval process, the ACC Test Prioritization List (TPL), Operational Test Support Request (OTSR) and Tactics Improvement Proposal (TIP) processes, were established to ensure efficient use of ACC resources and manage operational risk by ensuring T&E is accomplished by the most appropriate organization. All T&E related taskings will be accomplished through the OTSR/TIP process. T&E involving ACC resources will only be conducted by ACC test organizations after receipt of an OTSR/TIP approved by ACC/A5T, with coordination from the appropriate ACC organizations (i.e., ACC/A2/A3/A4/A5/8/9/A6, AATC/CC, USAFWC/CC, 557 WW/CC, and 67 CW/CC). ACC/A5T is designated the clearinghouse for all T&E. In this capacity, ACC/A5T is charged with reviewing all OTSR/TIPs, ensuring test activities are supported by validated operational needs, and is the designated tasking authority for ACC OT units. Approved OTSR/TIPs are prioritized by the identified HQ ACC, HQ AFGSC, or requirements owner and can be found on the A5TT SharePoint site (<https://cs2.eis.af.mil/sites/13414/SitePages/Home.aspx>). For the purposes of this instruction, “requirements owner” is defined as the organizational entity that is responsible for development and management of capability requirements for a specific system program of record (POR). The staff program element monitor (PEM) is defined as the person assigned the responsibility by the requirements owner for the day to day management of activities associated with SPO acquisition and resource execution in support of approved requirements.

**2.2. Office of the Secretary of Defense (OSD) T&E Oversight List.** OSD/Director of Operational Test & Evaluation (DOT&E) maintains a list of major programs that have Congressional interest. For a current listing of programs on the OSD oversight list, contact AF/TEP. OSD may become involved in the test process, test plan development, and test execution and may require special briefings. Consequently, those programs, and their special requirements, will be identified in an OTSR. All reports and briefings for those programs for which the AFOTEC is not involved are the responsibility of ACC test agencies and will be coordinated through HQ ACC. All test briefings going to HQ USAF and OSD will be coordinated through AF/TE. If AFOTEC is the responsible test agency, any ACC test support associated with those capability programs for which ACC is the lead command requires an OTSR signed by an AFOTEC O-6 (or civilian equivalent) preferably the associated DET Commander. All OTSRs should reference the associated valid Test Resource Plan (TRP) on file. The TRP(s) coordinated in association with those projected test efforts are not considered authority to execute test activity.

2.2.1. For those oversight programs where ACC test agencies are responsible for operational testing, direct communication with OSD action officers by the Integrated Test Team (ITT) is authorized to determine OSD/DOT&E involvement, testing and reporting requirements.

2.2.2. Where OSD action officers decline participation in test planning or the T&E forum is unable to make a determination as to OSD involvement or requirements, ACC test agencies should elevate their concerns through ACC/A5T to AF/TEP for adjudication and resolution.

**2.3. Test Support for another MAJCOM, Agency or Service.** Requests for T&E support from another MAJCOM, agency or Service will be referred to ACC/A5T and approved before resources are expended. All such support requests must be accompanied by an OTSR signed by an O-7 or



civilian equivalent (**Exception:** An AFOTEC O-6 or civilian equivalent may submit OTSRs on behalf of AFOTEC). Requests must be submitted on OTSR form available @ <https://usaf.dps.mil/sites/ACC-A589/A5Tmain/A5TT/SitePages/Home.aspx>. In certain cases, an ACC Division Chief (O-6) may sponsor the requesting agency. If the appropriate HQ ACC division chief validates the request, they will assign an action officer to work with the requesting agency to prepare and submit an OTSR to ACC/A5T for review and approval. Test cost differences/savings is not a valid reason for requesting ACC test support. **Note:** Test support for AFGSC will be IAW established Memorandum of Agreement (MOA) and coordinated by ACC/A5T through AFGSC/A3T/A5B.

**2.4. Resource Management.** ACC/A5T is the office of primary responsibility (OPR) for USAFWC test resources. (**Note:** ACC/A3A provides oversight to ACC ranges.) In addition to all programming and budgeting issues, ACC/A5T is the ACC OPR for:

- 2.4.1. The ACC/A5/8/9 test fleet (primary development/test aircraft inventory [PDAI] coded) and support aircraft assigned to the USAFWC.
- 2.4.2. Aerial target program management to include all programming and support requirements for both full scale and subscale targets.
- 2.4.3. All annual missile/aerial target allocations, support, and kill authorizations.
- 2.4.4. Aerial target recovery ships for the Eglin Test and Training Range (EGTTR) operating out of Tyndall Air Force Base (AFB).
- 2.4.5. The ACC SEEK EAGLE program.
- 2.4.6. Coordination through AATC/DTM and approval by AATC/CC for any AATC resources required in support of CAF testing.

**2.5. T&E Funding Sources.** The funding sources for T&E depend upon the nature and purpose of the work and type of testing. Test agencies are referred to DoD 7000.14-R, *Financial Management Regulation*, Vol 2A, Chapter 1; AFMAN 65-605 Vol 1, *Budget Guidance and Procedures*, Chapter 14; and AFI 99-109, *Major Range & Test Facility Base (MRTFB) Test & Evaluation Resource Planning*, for explicit guidance.

- 2.5.1. ACC requirements owners are responsible for programming funding through the POM process for acquisition testing (FDE, OUE, etc.) in support of their respective weapon systems. Tactics development and WSEP are centrally funded using O&M resources from PE 28015. **Note:** Test unit expenses associated with “Monitor” support requests are funded from unit operating base line at unit discretion. Activities beyond the scope of Monitor (i.e., Early Involvement, DT support, etc.) must be funded by the requesting organization.
- 2.5.2. ACC testing is provisioned only to meet CAF requirements. Accordingly, other MAJCOMs, services or agencies requesting ACC test support or expenditure of test assets will be required to provide funding commensurate with test support requested. Funding source, specific fund cite(s) and organizational financial point of contact information, must be included with OTSR/TIP submitted to ACC/A5/8/9 Test and Training Branch (A5TT).

**2.6. Operational Support.** In general, HQ ACC will not task CAF operational units to provide support (i.e. aircrew and/or weapons systems to include Cyber) to either a developmental test or an operational test unless this support has already been declined by all traditional Air Force Test Center (AFTC), AATC and ACC test organizations. In the event operational unit support is

required, the ACC test organization will submit an email request to ACC/A5T for the CAF operational unit best suited for support requested. If the recommendation is accepted, this operational support will be documented in the supported OTSR/TIP, if applicable. ACC/A3 concurrence is required for support requiring ACC operational units. ACC/A5T will accomplish or assist with the necessary coordination. **(T-2).**

2.6.1. Weapons System Support. If CAF operational unit aviation support (i.e. aircraft and aircrew) is required, ACC/A5T will forward a request to ACC/A3O IAW the AFI 10-420, *CAF Aviation Scheduling* process as required. If other than flight support is being requested (e.g. mission planning equipment, aircrew training devices), ACC/A5T will accomplish the appropriate coordination and arrange for the associated tasking.

2.6.1.1. C2ISR Weapons System Support (USQ 163). If AOC WS, CRC or ARC support is required, ACC/A5T will forward a request to ACC/A3C for facility and/or supplemental manning requirement to arrange associated tasking.

2.6.2. Aircrew Support. If operational crew member(s) support only is required, the assigned test agency will seek specific authorization from ACC/A3 in the form of a waiver to this ACCI. Waiver requests will be forwarded to A5T for staff coordination and ACC/A3T approval. If aircrew support or operational support for other than flying (e.g. mission planning, aircrew training devices) is being requested, ACC/A5T will accomplish the appropriate coordination with ACC/A3 and arrange for the associated tasking.

2.6.3. Weapons System Modifications. ACC approval to use operational weapons systems in support of test does not constitute approval to modify the supporting weapons system to an un-fielded configuration. Standard airworthiness and weapons system modification approval processes should be followed for test-necessary operational fleet modifications.

2.6.4. 57 WG Subordinate Organizations (e.g. Weapons School, Aggressors, etc.) are not considered CAF operational units for the purposes of **paragraph 2.6** but require MAJCOM coordination to provide aircrew and/or weapons systems – to include modifying aircraft to un-fielded configurations – in support of specific developmental or operational testing. **Note:** This amplification should not be construed as prohibiting existing operational test and WIC inter-fly agreements between 53 TEG and Weapons School for conducting routine day-to-day flight operations, which may include weapons instructor exposure to non-fielded, but mature, system improvements. Additionally, this amplification permits the 53 WG to coordinate with ACC for use of 57 WG operational support for Nellis-based operational testing without having to first solicit support from other traditional test organizations (e.g., AATC, AFTC, etc.).

2.6.5. Cyberspace Operators and Mission Support. If cyberspace operators and/or mission support is required to conduct an operational test, the assigned test agency will submit an email to A5T to request support from the appropriate cyber operation organization(s). ACC/A5T will accomplish the appropriate coordination with ACC/A3 and other ACC divisions to de-conflict competing cyber task orders and arrange for the associated tasking.

**2.7. Operational Test Support Request.** An approved OTSR or TIP is required for each test project. An OTSR should include the purpose, test description and objectives, deliverables, scope, resources, funding (i.e., both program element code source and anticipated funds available), POC and any applicable OSD oversight related references. Test unit and/or operational unit commanders will not accept, execute, or support testing with assigned CAF assets without an

approved OTSR/TIP. Other documents such as test and evaluation master plans (TEMP) and test resource plans (TRP) may be required prior to test execution, but are not authorization for test execution and do not eliminate the requirement for an OTSR/TIP. **Note:** For TIP content see AFMAN 11-260, Attachment 2.

2.7.1. To promote planning and effectively deal with the large quantity of CAF tests, ACC employs the TPL process to prioritize OTSR/TIPs and gain ACC/A5/8/9 approval. The TPL process is detailed in **Chapter 4**. Although there are some valid reasons for late test identification (i.e., urgent needs request, safety-of-flight, higher headquarters direction), OTSR/TIP should be submitted no later than 90 days prior to the anticipated or scheduled start date.

2.7.1.1. Priority tests. Urgent Operational Need (UON) and Quick Reaction Capability (QRC) tests are in direct support of Combatant Commanders (COCOMs), and require a timely, focused effort that must be emphasized by the tasked test center. ACC will prioritize tests supporting validated UONs and QRCs, and will expect all necessary test center support and resources be made available to the assigned task as appropriate to prioritization.

2.7.2. The ACC staff requirements owner with the assistance of the System Program Office (SPO) and test center(s) will complete the OTSR and submit to ACC/A5T via email with a recommended prioritization for the corresponding Test Project Order (TPO). Requests must be submitted on OTSR form available @ <https://usaf.dps.mil/sites/ACC-A589/A5Tmain/A5TT/SitePages/Home.aspx> or contact ACC/A5TT. OTSR tracking numbers are assigned by A5T and include the fiscal year (e.g., —21), a three-digit identification number (e.g., —001), and a test center identification letter (e.g., —A). Test center identifiers are USAFWC-53 WG —A, USAFWC-505 CCW —C, AATC —R, 557 WW —W, and 67 CW - I. Multiple suffix identifiers indicate more than one test center involvement. The first letter in the suffix indicates the lead test center. A5TT will validate the draft OTSR, and transmit to the associated test unit for coordination using the A5TT SharePoint site. Once test unit coordination is completed and the OTSR is updated, it will be submitted for A5T approval and transmission as a tasking to the test unit via email. While the OTSR template is intended to be self-explanatory, additional details and examples are available on the A5TT SharePoint site.

2.7.2.1. Test Sufficiency Levels (TSLs) should be used to convey the level of test rigor in OTSR (see **Attachment 3**) to ensure that decision makers are aware of the test sufficiency risk inherent in the proposed test. TSLs ranging from a single demonstration to a statistically defensible test design should be clearly established in the OTSR.

2.7.3. Multi-Event OTSR/TIPs. If upon being tasked to support a test activity, a test center/organization anticipates numerous similar-type test support taskings, a Multi-Event OTSR (ME-OTSR) may be submitted. These OTSRs are meant to cover recurrent, incremental, phased type activities associated with one program of record (POR) or requirements owner (e.g., repetitive software updates under one major release, certain types of assessments, etc.) anticipated/scheduled for no longer than 18 months from the date of OTSR submission. A ME-OTSR will be reviewed and revalidated/updated NLT 12 months after initial approval. Upon ACC/A5T tasking and validation, the ME-OTSR will provide ACC with the ability to support and/or execute evaluations of related or iterative activities, procedures or

concepts relative to the system under test (SUT) as described in the OTSR. Note: TIPs that require multiple phases that cannot be completed within a single CY will be reviewed and re-validated at each CAF WEPTAC.

2.7.4. Changes or updates: Notify A5TT of desired changes or updates to tasked and approved OTSR/TIPs altering the scope, purpose, objectives, level of funding, lead test center or participating MAJCOM. A5TT will review and coordinate as required with the appropriate organizational POCs. Changes or updates to OTSRs must be approved by A5T. Include any changes or updates with quarterly reports. Changes to TIPs are made by A3TW and approved by A3T.

2.7.5. Suspension or cancellations: When a test program is suspended for any reason, the test center or the requirements owner should forward an e-mail advising ACC/A5TT with information specific to date of action and reason for action. Notify ACC/A3TW for TIP cancellations.

**2.8. Certification of System Readiness for Operational Testing.** All systems will undergo some form of review and certification for readiness to operationally test prior to testing. ACC test agencies responsible for conducting operational testing will comply with MAJCOM OTO responsibilities as outlined in AFI 99-103 and AFMAN 63-119, *Certification of System Readiness for Dedicated Operational Testing*. (T-2).

**2.9. Test Resource Plans (TRP).** A TRP is an AFOTEC document that identifies the resources and timelines required to support an AFOTEC conducted IOT&E, FOT&E, MOT&E, QOT&E, OUE, or OA. All projects that support AFOTEC managed tests require a TRP. ACC/A5T is the focal point for the ACC TRP coordination process. ACC/A5TT will task the appropriate staff agency to coordinate the TRP as required with other staff agencies and test centers. Coordinated inputs will be integrated into a formal concur or non-concur memorandum directed back to AFOTEC by ACC/A5T. TRPs with an associated comment review matrix (CRM) will be posted on the TRP SharePoint Site: <https://acc.eim.acc.hedc.af.mil/org/ppr/A5Tmain/A5TT/testresource/default.aspx>. AFOTEC will adjudicate each comment. The adjudicated CRM will be posted at the SharePoint Site for viewing.

**2.10. Test Plans.** The appropriate test organization using the OTSR/TIP will prepare a detailed test plan with fidelity commensurate with the scope and complexity of the request. ACC/A5/8/9 will coordinate on all test plans for programs subject to OSD oversight and approval if AFOTEC is not involved. Approval of all other test plans is delegated to the USAFWC/CC and AATC/CC. A signed test plan, with an approved OTSR/TIP, serves as authority for a test unit to begin test execution.

2.10.1. A test plan for a program subject to OSD oversight requires ACC/A5/8/9 coordination prior to submission to HAF/TE and OSD if AFOTEC is not involved. OSD oversight program test plans will be forwarded to ACC/A5T for staff coordination through ACC/A5/8/9 prior to OSD approval. Test centers must ensure sufficient time is allowed for HQ ACC staffing and will forward test plans to ACC/A5T a minimum of 15 days prior to suspense to HAF/TE. See AFI 99-103 for OSD oversight requirements and specific guidance.

2.10.2. Test centers will coordinate test plans with the other Services and participating test organizations to the extent needed to maintain an efficient continuum of testing and avoid duplication of effort.

2.10.3. Test plan titles will be consistent with the title of the governing OTSR/TIP.

2.10.4. Test objectives and TTP development may be accomplished in conjunction with other formal tests and evaluations or exercise venues that replicate the operational environment. Exercise venues will ultimately determine if the test objectives can be accomplished within exercise objectives (to include WSEP missions).

2.10.5. Test teams will develop and identify the appropriate test objectives and assessment criteria IAW program source documents (i.e., Capability Area Planning, Initial Capability Document [ICD], Capability Development Documents [CDD], TEMP, or analysis of alternatives [AOA]). **Note:** Source documents for WSEP are CAF Plan 53, and AFGSC Plan 001.

2.10.6. If sufficient test criteria are not contained in program source documents, test organizations will coordinate with the appropriate ACC program staff functional office to establish acceptable criteria.

**2.11. Support Plans.** The supporting operational test wing/organization will determine whether a formal test support plan is required. If required, the test support plan describes how the other MAJCOM or agency test organizations will be supported, and normally includes information on the scope of participation, schedule, resources and funding.

**2.12. Test Conduct.** A test will be conducted and executed IAW the specific approved OTSR/TIP and project test plan. Test sorties will be flown IAW MAJCOM instructions and directives, unless the appropriate MAJCOM/A3 or A5/8/9 approves specific waivers in the test plan. (T-2).

**2.13. Interim Reports.** Test centers may be tasked by ACC/A5T to provide status or interim summary reports. A Status Report may be published anytime information becomes available which will have an immediate impact on the CAF, when a program has an extended test phase or to support a sensitive fielding decision. An Interim Summary Report may be published when the final report cannot be ready in time to support a key or production decision. The interim reports may include observations, conclusions and recommendations and will be sent to the same addressees as the final report.

**2.14. Quarterly Reports.** The commanding officer or designated representative of each ACC test unit (i.e., 53 WG, 505 CCW, 67 CW, and 557 WW) as well as AATC will provide a formal quarterly assessment memorandum to ACC/A5T, information copy to A3T(W), identifying their test organization's progress toward accomplishing their respective assigned test/support documented in the current TPL. The quarterly report includes only activity for the specific FY quarter being reported, there is no annual summary required. (see [Attachment 2](#), Example Quarterly Assessment).

2.14.1. Referenced against the OTSR or TIP number, each unit reports test status under each of the following categories:

2.14.1.1. UON/QRC support activities

2.14.1.2. Completed Test Activity (with specific deliverable(s) annotated)

2.14.1.3. Test Support Complete to LDTO

2.14.1.4. Active Test Projects status reported as:

2.14.1.4.1. PLANNING (prior to 1st test event)

2.14.1.4.2. DATA COLLECTION / TEST EXECUTION

2.14.1.4.3. ANALYSIS and/or REPORTING

2.14.1.5. Test Projects On Hold/Unable to Conduct (with rationale)

2.14.1.6. Recommended for Cancellation (with rationale)

2.14.2. The following guidance / definitions of the types of phases of testing will be used for the Quarterly test report status updates:

2.14.2.1. Planning: All unit activities associated with formal planning process prior to the first test event/OT data collection and requires program resources (includes Early Involvement).

2.14.2.2. Execution/Data Collection: Begins at the first test event/OT event data collection.

2.14.2.3. Reporting/Analysis: Activities conducted post-execution or post OT data collection.

2.14.2.4. On Hold: Test activities temporarily suspended.

2.14.2.5. Complete: Deliverable transmitted to requirements owner.

2.14.2.6. Recommended for Cancellation: Test is recommended for cancellation by the test unit for ACC/A5T coordination/action.

**2.15. Reporting/Deliverables.** Test units will prepare and provide the deliverables specified in the OTSR/TIP unless subsequent waiver is provided by ACC/A5T under separate correspondence. Support requests do not normally require a final report unless specified in the OTSR. Final deliverable approval authority will be delegated to the test center commander unless otherwise specified in the OTSR.

2.15.1. A test report for a program subject to OSD oversight and where AFOTEC is not involved requires HQ ACC coordination prior to submission to AF/TE and OSD. Test centers will forward OSD oversight program test reports to ACC/A5T for staff coordination through ACC/A5/8/9. Test centers must ensure sufficient time is allowed for HQ ACC staffing and will forward to ACC/A5T a minimum of 15 days prior to suspense to HAF/TE. See AFI 99-103 for OSD oversight requirements and specific guidance.

2.15.2. TTPs recommended by the T&E test team will be included in the final report, and ACC/A3TW will be included in the distribution of the report.

2.15.3. Lead operational test organizations will review all T&E final reports for new or amended TTPs and will forward same to the 561st Weapons Squadron (WPS), Air Force Tactics, Techniques and Procedures (AFTTP) 3-1 OPR. Test centers and appropriate ACC/A3 functional offices are responsible for inclusion of this new information in an appropriate Air Force (AFTTP) 3-1 update or as identified in AFMAN 11-260.

**2.16. Distribution.** The distribution for test plans and final reports will be determined by the test manager in conjunction with the HQ ACC and HQ AFGSC POCs in the OTSR/TIP and will follow guidance in AFI 99-103, if applicable. Include ACC/A5T on test report distribution lists for all unclassified programs (or for classified/STINFO information).

**2.17. Operational Briefings.** Briefings on test results and conclusions are provided to COCOMs and combatant crews when required to expedite the dissemination of time sensitive information. These briefings or road-shows will be planned and funded as part of a T&E effort.

**2.18. Release/Fielding Recommendations.** One of the primary functions of FDE (and OUE in the case of some less complex programs) is to provide a production or release/fielding recommendation. In general, a release/fielding recommendation is required for fielding of all weapon system modernization and improvement initiatives or updates. This includes revisions or updates to any operational flight program (OFP) for any ACC or AFGSC aircraft, weapon or integrated store (i.e., targeting pods), space or C4ISR system. The level of operational testing required to produce a recommendation will be determined by the tasked test agency. Clarification or questions regarding level or scope of testing will be addressed with ACC/A5TT and the sponsoring ACC or AFGSC program office. Recommendations signed by the designated test center commander are forwarded to ACC/A5T for action at <https://acc.eim.acc.hedc.af.mil/org/ppr/A5Tmain/default.aspx> or for classified/STINFO information, to [acc.a5t@us.af.smil.mil](mailto:acc.a5t@us.af.smil.mil). Release/fielding recommendations may be provided to ACC/A5T under separate cover from the final report, and as required by time sensitivities of the particular effort. ACC/A5T will forward the recommendations to the appropriate ACC, AFGSC or other responsible agency office(s) for staff coordination and appropriate action. If fielding authority is not specified by regulation (i.e., AFI 63-101/20-101, AFI 17-101[IT systems], etc.) or program directives, ACC/A5/8/9 is the appropriate approval authority. **Note:** In limited circumstances, such as periodic software mission planning updates to an already fielded system, A5/8/9 may delegate approval authority to division level.

**2.19. Sufficiency of Test Review (SOTR).** When not specifically asked to conduct operational testing, units tasked with accomplishing a SOTR will review all relevant contractor and government test data to determine if sufficient testing has been completed to proceed with a fielding and/or production decision without additional testing. SOTRs should not make a fielding or release recommendation. SOTRs are normally requested for weapons or aircraft OFP updates of narrow or limited scope; form, fit, function hardware changes; and potentially other applications such as C4ISR or Cyber. Based on findings, SOTRs will state whether or not additional testing is warranted prior to an ACC/A5/8/9 or AFGSC/A5/8 fielding/production decision. (**Note:** SOTR is defined as Sufficiency of Operational Test Review in AFI 99-103.)

**2.20. Capabilities and Limitations Report (C&LR).** A report based upon the review of all available test data conducted by operational testers. The intent of a C&LR is to support an ACC release of the system under test, normally aircraft OFP or mission planning software, prior to completion of planned testing (DT and/or OT). The C&LR will include a review of all relevant product development activity to date; documented testing accomplished; testing remaining; outstanding product deficiencies; and suggested operational limitations. This information will be provided to ACC/A5T without recommendation as to the advisability of releasing this item to the CAF.

**2.21. Verification Flight Test (VFT).** To smartly use limited resources and streamline tasking processes, routine integration verification flight(s) using ACC and/or AFGSC aircraft may be requested to support the fielding decision of an aircraft subsystem or store. The purpose of VFT is to provide post-DT&E integration verification information without having to conduct formal operational test. Requests for authorization to conduct VFTs should be made by the applicable aircraft systems group, ACC program functional, or by the designated test center commander to ACC/A5T.

**2.22. ACC Test Support to Research and Product Development Organizations.** Requests by research or product development organizations (e.g., SPOs, Defense Advanced Research Projects Agency [DARPA], AFRL, etc.) for test support from operational or operational test units must be vetted and approved by ACC and, depending on the specific request, by the implementing MAJCOM (i.e., the USAF organization responsible for product development DT&E).

2.22.1. Operational Unit Support. Requests for test support from operational flying units (e.g., those flying non-test coded aircraft) may be accepted only after obtaining concurrence from ACC/A5T. Flying support will be restricted to Low Risk (as assessed by an AFMC test hazard authority), under the direct supervision of a Lead Developmental and Test Organization (LDTO). These activities will be called "DT Assist" to indicate they are not being conducted by an operational test unit.

2.22.2. Operational Test Unit Support.

2.22.2.1. Requests for test support from operational test units by USAF research or product development offices (i.e., acquisition programs, sustainment programs, AFRL, etc.) may be accepted only after obtaining concurrence from ACC/A5T and must follow the OTSR process as outlined in this instruction. In cases of an OTO (e.g., operational test organizations flying test coded aircraft) flying in support of projects where no LDTO is assigned or no formal DT&E activity is planned, prior to test support execution, the requesting USAF research or product development office must ensure that all applicable test safety reviews (e.g., test hazard analysis worksheets, safety review board, test approval brief, etc.) are accomplished and documented by the implementing MAJCOM (normally AFMC). If the implementing MAJCOM assesses the test safety risk as elevated (i.e., Medium or High Risk), OTO test support will be conducted under the direct supervision of an LDTO, with the appropriately credentialed developmental test aircrew members aboard the aircraft for risk mitigation.

2.22.2.2. Requests for test support from operational test units by non-USAF research or product development organizations (e.g., DARPA, NASA, etc.) may be accepted only after obtaining concurrence from ACC/A5T and must follow the OTSR/TIP process as outlined in this instruction. Requests for flying support from operational test units must first be forwarded to the implementing MAJCOM (normally AFMC) for review, approval and assignment of an LDTO before support is solicited from ACC. Prior to test support execution, the requesting office and the implementing MAJCOM must ensure that all applicable test safety reviews (e.g., test hazard analysis worksheets, safety review board, etc.) are accomplished and documented. If the implementing MAJCOM assesses the test safety risk as elevated (i.e., Medium or High Risk), the testing will be conducted by a developmental test organization.



2.22.2.3. In all cases of OTO flying support, the military flight release/military certificate of airworthiness must be provided to the OTO before test execution commences.

2.22.2.4. Test center and test wing commanders are authorized discretionary authority to waive the test hazard analysis documentation prior to commencing test execution. If this process is waived, ACC/A5T will be notified. Notification will include rationale/justification for waiver. **(T-3)**.

**2.23. Capabilities Readiness Assessment.** The Capabilities Readiness Assessment (CRA) is a process used to facilitate rapid acquisition by streamlining test planning and reporting paperwork, as well as the associated test readiness review/approval processes.

2.23.1. CRA is a planning and reporting tool, not a new type of test. It is not intended to take the place of traditional operational testing (e.g. FDE, TD&E, OUE), as delineated in AFI 99-103, but to support the fielding timelines of the rapid requirements/acquisition communities (e.g. Rapid Capabilities Office, Big Safari, etc.).

2.23.2. CRAs produce a hybrid reporting deliverable, with scope of content somewhere between a C&LR and a fielding recommendation. CRA reports may make a specific recommendation to field or produce the capability under test. At a minimum, a CRA report will give a decision-maker information about how the item is performing, maturity and performance measured against impacts to the intended mission, as well as risk-based recommendations.

2.23.3. The scope of CRA testing is collaboratively determined/agreed-to between the rapid acquisition program office, the responsible MAJCOM requirements office (e.g. ACC/A5/8Z), and the lead ACC operational test organization. Content and format of CRA test plans and reports are solely the responsibility of the field test organization.

2.23.4. As appropriate, C&LR and CRA report formats may also be used in lieu of traditional deliverable formats (i.e. fielding recommendations, final reports) for non-rapid acquisition testing, as agreed to between the test organization and the user MAJCOM program office.

## Chapter 3

### CAF TACTICS DEVELOPMENT PROGRAM

**3.1. ACC Tasking.** ACC is tasked to serve as lead MAJCOM in developing, documenting, and disseminating tactics for the CAF. The CAF Tactics Development Program, described in this instruction is designed to meet that responsibility. Specific program guidance may be found in AFMAN 11-260.

**3.2. Tactics Development.** Tactics development starts as early in the acquisition cycle as possible. Incorporate TTP objectives in IOT&E, QOT&E, FOT&E, and FDE to the maximum extent practical. For aircraft modifications such as OFP upgrades, the FDE may be the only opportunity to evaluate impact on tactics.

**3.3. Tactic Improvement Proposal (TIP).** Each level of command will evaluate tactics for areas within its expertise and submit a TIP when appropriate IAW AFMAN 11-260. Subordinate units should review the appropriate mission area plan(s) (MAP) or flight plan(s) during their preparation for and conduct of the annual Tactics Development Program. Responsibilities include:

3.3.1. MAJCOM and Numbered Air Force (NAF) - deployment, combat planning, combat operations, tasking of combat forces, command and control of forces, DoD information network, offensive and defensive Cyber operations.

3.3.2. Test Centers - weapons and tactics issues that result from the centers' activities.

3.3.3. Wing, Group, and Air Defense Sectors - weapons and tactics issues related to the designed operational capability (DOC) statement, local tasking, or Air Expeditionary Force (AEF) tasking.

3.3.4. Squadrons - weapons and tactics issues related to any aspect of mission planning and execution to include network, offensive and defensive Cyber operations.

**3.4. Approval Level Responsibilities.** ACC/A3 is the tasking and approval level for the CAF Tactics Development Program. ACC/A3T is the OPR and project office. ACC/A3 will:

3.4.1. Coordinate with appropriate MAJCOM/A3s, National Guard Bureau (NGB/A3) and AFRC/A3 on programs that affect their respective activities; or appropriate MAJCOM/A6, NGB/AFRC/A6 for network, offensive and defensive Cyber operations.

3.4.2. When requested by ACC/A5/8/9, provide a concept of employment for the applicable OT&E or FDE to ensure tactics development starts as early as possible in the acquisition cycle.

3.4.3. Participate in technical order (T.O.) approval, as required.

3.4.4. Formal tasking and approval for conduct of TD&Es will be IAW the process outlined in this instruction. A5/8/9 (in coordination with A3) is the final approval authority for all test activity included on the TPL.

**3.5. Test Organizations.** USAFWC, AATC, 557 WW, and 67 CW are the primary TD&E organizations. Selected units may also be tasked to assist the TD&E effort, as appropriate. Test centers are selected to conduct specific TD&E projects based on unique capabilities, resource availability, and projected workload.

**3.6. AFTTP Responsibilities.** AFTTP are the primary source of tactics information for the CAF. They contain information that has been validated and has CAF-wide concurrence.

3.6.1. ACC/A3 is the designated primary review authority for AFTTP and is responsible for the content and approval of AFTTP volumes. ACC/A3 delegates AFTTP program oversight to ACC/A3TW, who in turn works with the 561 WPS for updating AFTTP volumes to include volume management, production and dissemination.

3.6.2. Test Centers will review applicable information sources on weapon systems for which they have tactics responsibilities and identify information for inclusion in AFTTP 3-1 or TD&E final and interim reports. Any TTPs identified for inclusion in AFTTP 3-1 volumes should be forwarded to the 561 WPS. The 561 WPS will assign the inputs to the appropriate Mission Design Series (MDS) model manager for potential inclusion in the next AFTTP 3-1 rewrite. If through operational testing, OT&E develops TTPs that are time perishable and which need immediate dissemination, OT&E squadron commanders can submit those TTPs to the 561 WPS in the form of an OT Flash Bulletin (FB) (See AFTTP 3-1GP Attachment 4). The 561 WPS will assign the FB to the appropriate MDS model manager and facilitate domain-wide dissemination (as well as track for potential inclusion into future AFTTP 3-1 rewrites).

3.6.3. Specific procedures and responsibilities for the management of AFTTP are contained in AFTTP 3-1, Volume 1, General Planning, Attachment 4.

3.6.4. Changes to AFTTP are published on an as-needed basis. These changes contain executive summaries of interim and final reports and any other information releasable to the CAF as valid tactics.

**3.7. Identification of Tactics Deficiencies.** Identified deficiencies are documented on a TIP and forwarded through the appropriate chain of command to ACC/A3T. Units can submit a TIP anytime new tactics need validating or a tactical deficiency is recognized. HQ ACC assigns the TIP to the appropriate OPR for action if immediate testing is required. A proposed change to operations or training procedures, as contained in the 11-series manuals, should be submitted by message to ACC/A3T who will forward to the appropriate authority for action as they deem appropriate. The TIP process will not be used to request modification or acquisition of hardware or software.

3.7.1. If a TIP is of immediate concern and affects current operations and testing, forward the TIP immediately to the respective MAJCOM weapons and tactics office. HQ ACC will assign the TIP to the appropriate OPR for action if immediate testing is required.

3.7.2. The Annual Tactics Review Board (TRB) is chaired by ACC/A3 in conjunction with WEPTAC no later than the second week in January. Detailed procedures for the TRB are in AFMAN 11-260. Validated TIPs approved for formal evaluation are incorporated into the Master Test Priority List and CAF Tactics TPO as applicable. See Chapter 4.1.10 for specific process details.

3.7.3. TD&E Resourcing. ACC/A5T and ACC/A3T will coordinate to submit annual Program Objective Memorandum (POM) inputs to address CAF TD&E requirements through PE 28015 Combat Development. Available ACC resources may limit the scope and number of TD&E events executed each CY. Partner MAJCOMs with ACC test MOAs should also program for funding to help address weapon system specific TD&Es as well as cost sharing for Large Force Test Environment events that benefit MAJCOM objectives.

**3.8. Tactics Investigations (TI).** TIs are a test sub-category of the CAF Tactics Development Program designed to serve two purposes currently not accommodated by TD&Es: 1) support initial stage and/or subsequent stages of a TPL-tasked TD&E in a resource-streamlined manner; or 2) provide a means to address fleeting, targets of opportunity that do not require normal range test expenses, or would be of needless scope or complexity. TIs are not intended to supplant TPL-tasked TD&Es/TIPs simply to avoid either legitimate range “test” expenses; or the technical rigor, oversight, administrative, and approval processes inherent in conducting a TD&E.

3.8.1. The following guidelines apply to TIs: 1) ranges will not be asked to incur/absorb any costs (i.e., specialized threat systems) outside the scope of assets normally included in a training sortie; 2) use of training sorties will not normally be authorized in cases where a supporting range concludes that the scope of a proposed TI requires initiation of a formal agreement (i.e., project identification document (PID)/statement of capability (SOC) process); and 3) ACC field units will incur no costs for TIs above those ordinarily required to fund flying hours, organic manpower, and routine training range usage. A TI that requires limited additional expenses (i.e. TDY) may be authorized by exception, however funding will not likely be prioritized or available from PE 28015 or ACC/A3. Additionally, funding a TI will not be at the expense of activated TIPs with a higher priority on the CAF Tactics TPO or from money that is dedicated to execute specific ACC/A3T prioritized TD&Es.

3.8.2. TI events may piggyback on test sorties tasked against any appropriate TPO approved TD&E. TIs may also be executed in simulators, when feasible, as an economic alternative to live-fly testing.

3.8.3. In cases where it makes sense to execute an existing approved TIP on the CAF Tactics TPO as a TI, ACC/A3TW and ACC/A5TT will be notified of this intent by email.

3.8.4. For TI proposals not already authorized by an existing approved TIP on the TPO:

3.8.4.1. ACC and AFGSC test centers will submit TI requests to ACC/A3TW. All requests will include a TIP form 4326, justification for accomplishing as a TI, and ROM with funding source if applicable. ACC/A3TW will coordinate for ACC/A3T or AFGSC/A3T approval and notify ACC/A5T to add the TI to the CAF Tactics TPO.

3.8.4.2. All TIs require a validated, active TIP with an ACC/A3TW assigned control number prior to execution.

## Chapter 4

### TEST PRIORITY LIST (TPL) PROCESS

#### 4.1. TPL Process.

4.1.1. HQ ACC prioritizes CAF T&E requests for USAFWC (53WG and 505CCW), AATC, 67 CW, and 557 WW execution as well as test support to other MAJCOMs, Services and Agencies via the ACC Test Priority List (TPL). The TPL is made up of a series of Test Project Order (TPO) categories, each aligned with ACC requirements owners (divisions). Each TPO contains approved operational test activity requests (OTSR) associated with the capability portfolio of the respective ACC organizational (TPO) owner and is prioritized by the TPO owner. Together, these TPOs set the relative priority of projects for ACC operational test agencies and serves as a guide for allocating resources (i.e., funding, scheduling, aircraft, and personnel). Once approved, OTSRs are transmitted to test organizations via tasking email and also published on the A5TT SharePoint site. Approval constitutes authority to conduct activities as indicated in the specific OTSR. OTSRs may be submitted at any time but NLT 90 days prior to desired test unit involvement.

4.1.2. The TPL is a guide for ACC/A3/A5/8/9, USAFWC, AATC, 67 CW, and 557 WW scheduling and resource allocation and is not a guarantee that a project will be executed.

4.1.3. The requirements owner representative (i.e., HQ ACC Division PEM, action officer, etc.) in conjunction with the SPO and A5TT, will complete the OTSR/TIP. The OTSR/TIP is signed by the respective requesting organization O-6 or deputy and forwarded to A5T for validation (**Figure 4.2**).

4.1.4. Once validated, the draft OTSR/TIP is assigned to a Test Project Order (TPO) category and submitted to the applicable test unit for review via the A5TT SharePoint site. TPOs align with the ACC requirements owners/programs of record at the HQ ACC division (O-6) level as well as with other MAJCOMs (e.g., AFGSC) ACC supports via Operational Test MOA. The requirements owner determines the test priority within a TPO. Should a priority conflict arise, A5T is the adjudication authority.

4.1.5. Priorities of test projects listed in each TPO are intended as a guide for test units and not intended for execution in sequential order. The fluid nature of test programs requires flexibility in execution management to ensure the most efficient usage of limited resources. Accordingly, tests currently in execution status will not normally be impacted as a result of reprioritization with the exception of Urgent Operational Needs (UONs) or ACC A5/8/9 direction.

4.1.6. OTSR/TIP should be submitted for validation with sufficient lead time (90 days) to allow time for test coordination and approval.

4.1.7. Approval of the OTSR/TIP is predicated upon the ability of the program to fully fund the test and the system under test (SUT) must be sufficiently mature, stable, and prepared to enter testing.

4.1.8. All approved OTSR/TIPs will be reviewed NLT 12 months after the initial tasking/review date regardless of the projected completion date (indicated in the OTSR/TIP) which is no longer than 18 months from the initial submission. At the beginning of each FY,

tests not in an active planning or execution status after the initial approval date are reviewed and subject to removal from the TPL. A5TT will notify requirement owners of OTSR/TIPs identified prior to removal. OTSR/ TIPs removed for inactivity must be resubmitted /revalidated for inclusion in current FY activity.

4.1.9. Addition of an OTSR/TIP to a TPO and transmittal of the OTSR/TIP to a test agency constitutes authority to execute.

**Figure 4.1. OTSR/TIP Validation & Tasking Cycle**

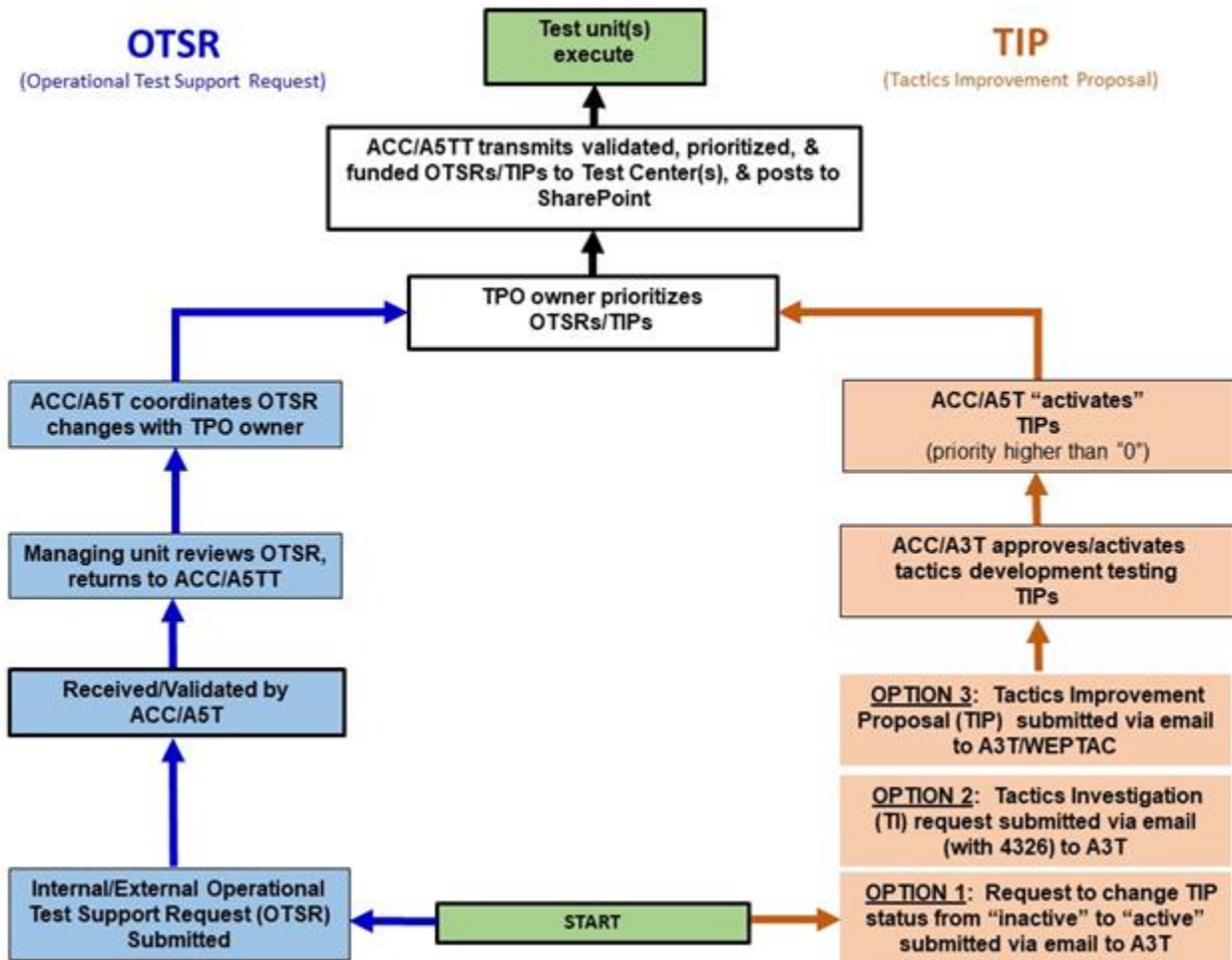
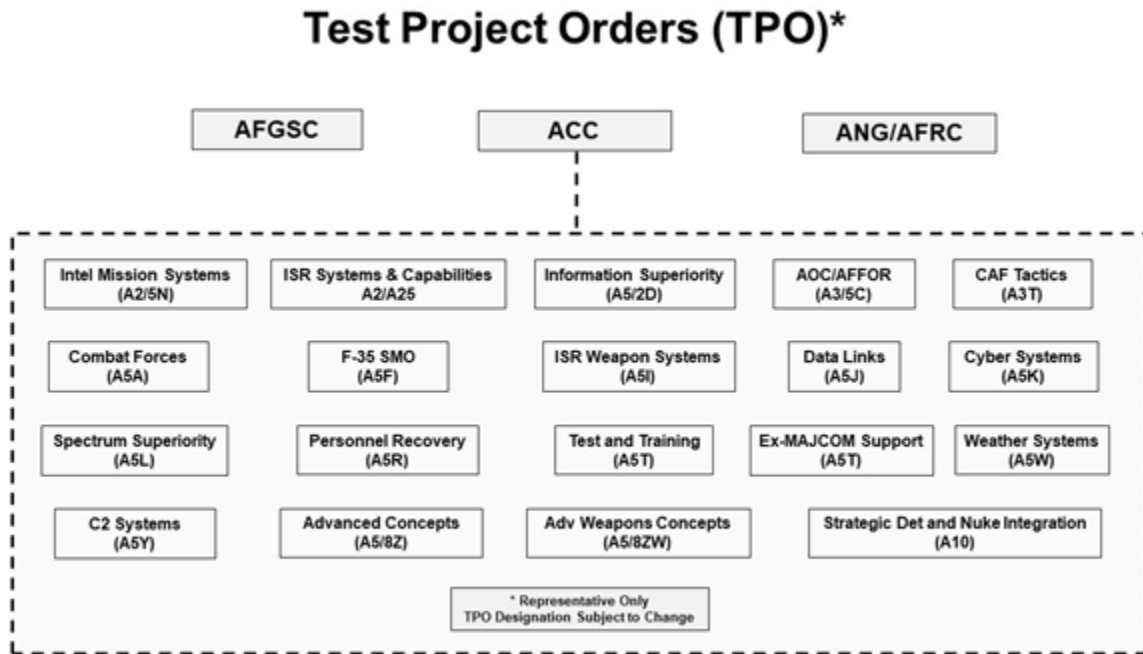


Figure 4.2. Test Project Orders



4.1.10. Tactics. After each calendar year CAF Weapons and Tactics Conference (WEPTAC) and TRB, ACC/A3T provides a list of validated, prioritized Tactic Improvement Proposals (unclassified title and TIP number) to A5T to include in the CAF Tactics TPO. OTSR are not required for a TD&E or Tactics Investigation (TI) and will not be assigned an OTSR tracking number (Figure 4.1 Tactics TPO Cycle). All current and active/inactive TIP Control Numbers are included on the Master Test Priority List. Only TIPs designated for current CY emphasis (showing “Active” in the status block with a priority greater than 0) are approved for current FY execution. TIP titles showing a priority of “0” and “Inactive” in the status block are eligible for upgrade to “Active” status in the CAF Tactics TPO. ACC/A3T validated TIPs are available on the A3T managed classified website. **Note:** A3T website may not be accessible from AFMC bases. Contact ACC/A3TW for access.

## Chapter 5

### TEST AND EVALUATION RESPONSIBILITIES

**5.1. Director of Plans, Programs and Requirements (ACC/A5/8/9).** As OPR for ACC Test and Evaluation, ACC/A5/8/9 serves as the final release and approval authority for all production/fielding decisions (except where delegated, see [paragraph 2.18](#)) and is the final approval authority for all related ACC test activity. Accordingly, ACC/A5/8/9 delegates the following responsibilities to ACC/A5T:

- 5.1.1. Manage all aspects of the A5/8/9 Master Test Priority List (TPL) that incorporates all approved T&E activity into TPO categories to effectively integrate all test projects. The TPL is intended to aid in developing a test center's annual financial execution plan as well as managing the FY workload.
- 5.1.2. Serve as the management and approval authority for each OTSR/TIP and associated TPL processes, and as the central point of contact within ACC for all matters concerning T&E.
- 5.1.3. Ensure the dissemination within ACC of higher headquarters T&E policy, guidance, and procedures.
- 5.1.4. Participate in advanced planning and resource programming for the USAFWC.
- 5.1.5. Coordinate with the applicable ACC/A5/8/9 office to ensure representation as early as possible at ITT meetings as required by AFI 99-103.
- 5.1.6. Coordinate test resource requests, requirements and authorizations to share test data among all program stakeholders (i.e., MAJCOMs or HQ USAF agencies and the test centers).
- 5.1.7. Coordinate with ACC/A3 if ACC operational assets are required. CAF aviation operational units are tasked for support of test and evaluation IAW the AFI 10-420 process. All requests for operational assets to support T&E must be approved by the ACC/A3. When an operational unit is involved in a test, the operational wing commander will have final approval authority over the unit's assets for test participation.
- 5.1.8. Provide consolidated HQ ACC inputs for AFOTEC Test Resource Plans (TRP).
- 5.1.9. Ensure formal coordination is obtained with other MAJCOMs, Services or Agencies when their participation is required in a test.
- 5.1.10. Ensure ACC/PA is kept informed of any developments that have potential public affairs impact.
- 5.1.11. Review requests received for a new test or project to determine if another command or service has conducted a similar effort that would fulfill the requirement and determine if a test is required.
- 5.1.12. Monitor test report recommendations and coordinate with other agencies when required to ensure follow-up action is taken on these recommendations.
- 5.1.13. When requested by HAF/TE, work with A5/8/9 offices as required to prepare Congressional Data Sheets and descriptive summaries for ACC-conducted tests.



5.1.14. Provide to the test centers a CAF TPL that integrates all T&E into TPO categories effectively providing integrated priority lists. The TPL will be updated quarterly for use as a test center aid in test planning and workload management.

5.1.15. Act as OPR for the nomination and approval process of OSD-directed Foreign Comparative Tests (FCT). Once the test is chartered, the OPR is transferred to an appropriate HQ ACC directorate and division.

5.1.16. Act as OPR for the nomination and approval process of OSD-directed Joint Test and Evaluation (JT&E) requirements within the purview of AFI 99-106, *Joint Test and Evaluation Program*. Once the joint test force is chartered, the OPR is transferred to an appropriate HQ ACC directorate and division.

**5.2. Test and Training Division (ACC/A5T).** ACC/A5T will serve as the OPR for all MAJCOM T&E. ACC/A5T will:

5.2.1. Function as the ACC PEM for PE 28015, Combat Development, PE 35116, Aerial Targets and PE 27590, Aircraft Stores Certification (SEEK EAGLE).

5.2.2. Act as the ACC/A5/8/9 single point for receipt of test plans, support plans, TRPs, interim and final reports and release/fielding recommendations for staff coordination and ACC/A5/8/9 approval as required. ACC offices with program management responsibility serve as the OPR for ACC coordination of associated TEMPs. ACC/A5T will be OCR for coordination of all TEMPs.

5.2.3. Act as the HQ ACC focal point for FCT policy, procedures, nominations, and final staff coordination.

5.2.4. Act as the HQ ACC focal point for OSD Resource Enhancement Program policy, procedures, nominations, and final staff coordination.

5.2.5. Act as the HQ ACC focal point for the CAF SEEK EAGLE Program and requirements associated with CAF stores certification process for configuration compatibility for loading, safe carriage, safe separation, and safe escape. For specific guidance reference AFPAM 63-129, *The SEEK EAGLE Program*.

5.2.6. Act as HQ ACC focal point for JT&E policy, procedures, nominations and final staff coordination.

5.2.7. Serve as HQ ACC POC for aerial targets program management. For specific guidance on kill authorizations (KA), reference AFI 99-108, *Programming and Reporting Aerial Target and Missile Expenditures in Test and Evaluation*.

5.2.8. Serve as A5/8/9 scheduling POC for Aviation Change Request (ACR) where operational assets are required for test support.

**5.3. Advanced Programs Division (ACC/A5/8Z).** ACC/A5/8Z will serve as POC for all classified tests where details preclude participation by ACC/A5T.

5.3.1. ACC/A5/8Z will ensure all test taskings are issued by an O-6/GS-15 equivalent or higher as deemed appropriate.

5.3.2. Test units will not accept test taskings issued directly from any MAJCOM other than ACC, or any other organizational entity outside ACC (e.g., OSD, SAF, and HAF, etc.).

**5.4. Director of Operations (ACC/A3).** ACC/A3 monitors ongoing weapon system tests to determine if tactics development objectives are addressed during test and evaluation. As the OPR for ACC TD&E, ACC/A3 will:

- 5.4.1. Appoint a POC to coordinate with ACC/A5/8/9 project officers on test and evaluation matters.
- 5.4.2. Coordinate on ACC/A5/8/9 requests for operational unit support of T&E and task appropriate wing as required.
- 5.4.3. Support the development and publishing of the TPL and associated CAF Tactics TPO.
- 5.4.4. Validate and approve all TIPs and resulting revisions of AFTTP 3-1.
- 5.4.5. Provide ACC/A5/8/9 test units the tactics, techniques and procedures objectives for test and evaluation projects that are not defined in the associated TIP form 4326.
- 5.4.6. Post annual WEPTAC, provide an annual prioritized list of validated, active TIPs to A5T for inclusion in the TPL and CAF Tactics TPO.

**5.5. Strategic Deterrence, Nuclear Integration and Conventional Testing of B-2 and B-52 (AFGSC/A3/6, A5/8 and ACC/A10).** AFGSC/A5B will serve as the focal point for B-1/B-2/B-52 conventional testing. AFGSC/A3T is the focal point for all nuclear testing. ACC/A10 will serve as the focal point for all Dual Capable Aircraft (DCA) CAF nuclear FDE testing.

- 5.5.1. ACC will provide test support to AFGSC per ACC-AFGSC MOA.
- 5.5.2. AFGSC/A5B/A3T and ACC/A10 will appoint a POC to coordinate with ACC/A5/8/9 project officers on test and evaluation matters.
- 5.5.3. AFGSC/A5B will function as the PEM for both PE 11120 and 11122.
- 5.5.4. ACC/A10 will act as OPR for COMACC Plan 001, *Dual Capable Aircraft Nuclear Weapon System Evaluation Program (COMBAT SLEDGEHAMMER)*. AFGSC/A3T will act as OPR for AFGSC/CC Plan 001, *Nuclear Weapon Systems Evaluation Program (COMBAT SLEDGEHAMMER)*.
- 5.5.5. ACC/A10 and AFGSC/A3T/A5B will coordinate all FDE efforts with applicable HQ ACC directorates, units, and other MAJCOMs/ agencies as required.

**5.6. Airspace Ranges and Airfield Operations Division (ACC/A3A).** ACC/A3A serves as the designated focal point for all ACC range and airspace issues. ACC/A3A will:

- 5.6.1. Represent ACC range and airspace interests to the test and evaluation community and acts as the MAJCOM focal point for ACC MRTFB policy, procedures and staff.
- 5.6.2. Review and approve requests for conducting test, demonstrations or experimentation on ACC primary training ranges.
- 5.6.3. Process AFI 13-212, *Range Planning and Operations*, waiver/exemption requests for ACC ranges from the test community.
- 5.6.4. Oversee ACC range planning to capture future test and training needs and to determine adequacy of ACC range resources to support the test and evaluation.

**5.7. Operations Division (ACC/A3O).** ACC/A3O will serve as the designated focal point for scheduling CAF aviation operational assets for test IAW the AFI 10-420 process.

**5.8. Flight Operations Division (ACC/A3T).** ACC/A3T will serve as the designated focal point for CAF tactics development and evaluation. As the ACC/A3 focal point ACC/A3T will:

- 5.8.1. Act as HQ ACC focal point for coordination of tactics issues associated with JT&E.
- 5.8.2. Identify ACC OPRs for applicable recommendations in interim and final reports.
- 5.8.3. Obtain formal coordination on project plans from NAFs, ANG, AFRC, and other MAJCOMs, Services, or Allied Forces, when necessary.
- 5.8.4. Coordinate all TIP, TD&E and TI efforts with ACC/A5T.
- 5.8.5. Serve as OPR for all manned Full Scale Aerial Targets training issues and associated flying operations.
- 5.8.6. Act as OPR for CAF Plan 53.
- 5.8.7. Evaluate and approve requests made by ACC test centers for waivers to current training rules necessary to support ACC operational test and evaluation.

**5.9. C2 ISR Air and Space Operations Center Division (ACC/A3C).** ACC/A3C serves as the designated focal point for CAF C2ISR Operations.

- 5.9.1. Act as HQ ACC focal point for C2ISR JT&E policy, procedures, nominations and final staff coordination.
- 5.9.2. Identify ACC OPRs for applicable recommendations in interim and final reports.
- 5.9.3. Obtain formal coordination on project plans from NAFs, ANG, AFRC, and other MAJCOMs, Services, or Allied Forces, when necessary.
- 5.9.4. Coordinate all TD&E efforts with ACC/A3T, ACC/A5I and ACC/A5T.
- 5.9.5. Support ACC/A3T in tactics development and provide expertise as necessary to support ACC/A3T during the yearly TRB.

**5.10. Director of Logistics, Engineering and Force Protection (ACC/A4).** ACC/A4 monitors ongoing weapon system tests to determine if suitability issues are being addressed during test and evaluation. ACC/A4 will:

- 5.10.1. When requested by ACC/A5/8/9, appoint a POC to coordinate with ACC/A5/8/9 project officers on matters concerning test and evaluation and operational suitability and supportability for designated tests.
- 5.10.2. Provide all logistics test requirements to ACC/A5/8/9 and ACC/A3 for inclusion in T&E prioritization.
- 5.10.3. When established, participate in Joint Reliability and Maintainability Evaluation Team (JRMET) to assist in collection, analysis, verification and categorization of reliability, maintainability and availability (RM&A) data.
- 5.10.4. When established, participate in a Test Data Scoring Board (TDSB) (government- only group) to compile, review and score RM&A data.
- 5.10.5. Participate in T.O. verification and when required, test T.O. validation. Approve verified maintenance T.O.s for use.

5.10.6. When required, support munitions and supply requirements for execution-year test projects and out-year planning and programming activities.

5.10.7. When requested by ACC/A5/8/9, provide a maintenance concept for projects to support operational testing.

5.10.8. Coordinate on ACC/A5/8/9 or ACC/A3 taskings to operational units for support of T&E.

**5.11. Director of Communications (ACC/A6).** ACC/A6 monitors ongoing weapon system tests to determine if cyberspace issues to include communications and information issues are being addressed during T&E. ACC/A6 will:

5.11.1. When requested by ACC/A5/8/9, appoint a project officer to coordinate on matters concerning cyberspace/communications-information systems operational suitability and supportability for designated test and evaluations.

5.11.2. Provide a technical focal point for data processing, communications-electronics, computer programming, operations, systems analysis, and software evaluation support.

5.11.3. When appropriate to the test project, participate in the preparation of the OTSR/TIP that directs evaluation of software performance, operator-computer interface, or software maintainability and supportability.

5.11.4. Monitor efforts and results of cyberspace/communications-information systems personnel located at test centers that participate in designated T&E.

5.11.5. When appropriate to the test project, perform a detailed technical and management review of test plans and procedures for software test requirements.

5.11.6. Coordinate with HQ ACC staff on OTSR/TIPs and test procedures.

5.11.7. Provide technical support to the HQ ACC staff for studies and analyses, documentation reviews, and evaluation of test results, as required.

5.11.8. Provide cyberspace/communications-information systems technical assistance to the USAFWC, AATC, 67 CW, and other technical centers, as required.

5.11.9. Participate in T.O. validation and recommend approval of verified software for use.

**5.12. Test Centers.** Unless directed otherwise, USAFWC, AATC, 67 CW, and 557 WW will:

5.12.1. Monitor defense acquisition programs when directed, manage HQ ACC directed T&E and support testing conducted by other agencies as directed by HQ ACC OTSR/TIPs.

5.12.2. Appoint a project manager, as appropriate.

5.12.3. Ensure procedures are established for the planning, conducting, and reporting of test programs according to this instruction and AFI 99-103.

5.12.4. Prepare and submit (through the respective test center chain of command) quarterly test activity summary reports to ACC/A5T.

5.12.5. Prepare, coordinate, publish, and distribute test plans, support plans, final reports and fielding recommendations as required by this instruction, AFI 99-103 and as indicated by approved OTSR/TIPs. Maintain documentation IAW the Records Disposition Schedule (RDS).

5.12.6. When required, ensure all published technical documents (i.e., final reports, capabilities and limitations reports, etc.) are published by STINFO procedures according to the guidance in AFI 61-201, *SCIENTIFIC, RESEARCH AND DEVELOPMENT – MANAGEMENT OF SCIENTIFIC AND TECHNICAL INFORMATION (STINFO)*.

5.12.7. Coordinate the test and support plan with all participating ACC, AFRC, ANG and other agencies providing support. Ensure operational test objectives for operational effectiveness and suitability adequately reflect system requirements. Also, evaluate tactical employment to the maximum extent practical in the operational environment.

5.12.8. Provide test aircrews, technical support (analysts and engineers) and maintenance experts for planning tests, review of test planning documents, and the development and evaluation of test results.

5.12.9. Obtain field level coordination of test plans with other commands, Services, or agencies for facilities, aircraft, personnel, logistics, engineering, funding, or information support.

5.12.10. Obtain T-2 modification engineering approval (AF Form 1067, *Modification Proposal*) from Air Force Materiel Command (AFMC), when required.

5.12.11. Submit appropriate system deficiencies as prescribed in T.O. 00-35D-54, *USAF Deficiency Reporting, Investigation, and Resolution*. Technical data discrepancies will follow T.O. 00-5-1, *Air Force Technical Order System* and T.O. 00-5-3, *Air Force Technical Order Life Cycle Management* direction.

5.12.12. Designate a central custodian to maintain and forward case files to the Defense Technical Information Center (DTIC) IAW the RDS to include test plans, interim/final reports, and any other applicable documents that have significant record value for permanent retention.

5.12.13. Submit center munitions requirements to include telemetry instrumentation kits in support test and evaluations, WSEP, and aircrew training to ACC/A3TW, per AFI 11-212, *Munitions Requirements for Aircrew Training* and AFI 99-120, *Forecasting and Programming Munitions Telemetry and Flight Termination Systems* direction.

5.12.14. Ensure an environmental impact analysis is completed before any decision to start testing, as required. Where needed, submit AF Form 813 Request for Environmental Impact Analysis to appropriate environmental office for analysis.

5.12.15. Co-chair the ITT when AFOTEC is not involved with the program or project.

5.12.16. Prepare an annual financial plan including resources required for each projected test.

5.12.17. Assist System Program Office (SPO) as appropriate with certification of system readiness for dedicated operational testing. (Refer to AFMAN 63-119, para 1.3.5.)

5.12.18. IAW CSAF charter, USAFWC will coordinate across MAJCOMs as well as with AFOTEC to ensure ACC operational testing priorities are synchronized with other Air Force test interests.

5.12.19. Review and coordinate on test plans, test reports and test-related correspondence as required for programs on OSD T&E oversight.

5.12.19.1. **Note** : AATC is an independent test organization that plans, executes, and reports on ARC-related, MAJCOM and DoD (as assigned) T&E. For additional internal AATC process details, contact AATC's Director of Test Management (AATC/DTM, DSN 844-6968, [usaf.az.162-wg.mbx.aatc-test-management-directorate@mail.mil](mailto:usaf.az.162-wg.mbx.aatc-test-management-directorate@mail.mil).)

**5.13. ACC Project Officer.** Each ACC capability program should have a designated project officer or Program Element Monitor (PEM) by the associated capability requirements owner (ACC Division). The project officer will:

- 5.13.1. Review the appropriate program management directives (PMD), and requests for T&E management support.
- 5.13.2. Assist the test center project manager in preparing the test plan and final report for HQ ACC- managed tests on the OSD/DOT&E Oversight List.
- 5.13.3. Coordinate the TRP resource requirements of ACC-supported AFOTEC programs with ACC staff.
- 5.13.4. Provide liaison between the test centers, HQ ACC and other commands or agencies, as required.
- 5.13.5. Prepare the OTSR/TIP and assist ACC/A5TT as required with OTSR/TIP coordination across ACC and other commands or Services when their participation in a test is required.
- 5.13.6. Coordinate any test plan, support plan, or final report requiring ACC/A5/8/9 approval.
- 5.13.7. Coordinate all appropriate TEMPs with ACC/A5T and ensure ACC/A5T receives a copy of each.
- 5.13.8. Ensure copies of PMDs received from Air Staff OPR are provided to the appropriate test centers.
- 5.13.9. When requested, ensure Air Staff OPR provides Congressional Data Sheet information to ACC/A5T.
- 5.13.10. Identify HQ ACC staff and non-ACC agencies responsible for taking appropriate action on approved recommendations in the final report. Accomplish follow-up actions on final report recommendations until all are resolved.
- 5.13.11. Be knowledgeable of the ACC operational and funding requirements for systems undergoing test and evaluation in support of a production or fielding decision. ACC/A5/8/9S will provide support in this area; however, it is the responsibility of ACC project officers to understand the milestone decisions and funding requirements for the system for which they are OPR as they may be part of the source selection process.
- 5.13.12. Ensure weapon SPO has directed appropriate Munitions Safety Board(s) to review and approve new munitions and munitions handling equipment before being introduced for Air Force use.
- 5.13.13. Ensure SPO has made T.O.s available at the beginning of testing as required by AAFP 63-1, T.O. 00-5-1, and T.O. 00-5-3. Test Centers do not have the authority to use locally created/approved procedures beyond the scope of T.O. 00-5-1.
- 5.13.14. Ensure SPO has contracted with appropriate agencies for Type I and other required training.

- 5.13.15. Assist ACC/A5TT as required in coordinating tasking messages for operational support of test projects with the appropriate ACC/A3 and ACC/A4 offices.
- 5.13.16. Coordinate with ACC/A3, or other MAJCOMs for non-ACC assets, as required to support ACC-conducted T&E.
- 5.13.17. Act as OPR for FCT support IAW DoD guidance.
- 5.13.18. Act as OPR for JT&E support IAW AFI 99-106.
- 5.13.19. Ensure SEEK EAGLE flight clearance requests are submitted and that appropriate validated/verified technical data are obtained from the SPO for all new equipment to be employed on ACC aircraft prior to testing.
- 5.13.20. Ensure open Deficiency Reports (DRs) are tracked until they are funded or corrected, or ACC concurs with closing them. (Refer to AFI 99-103, para 6.10)
- 5.13.21. Assist SPO as appropriate with certification of system readiness for dedicated operational testing. (Refer to AFMAN 63-119, para 1.3.6.)
- 5.13.22. Assist program offices and other DoD agencies in the development of OTSR/TIP.
- 5.13.23. Coordinate fielding decision packages within ACC as required for Director approval.
- 5.13.24. Submit all OTSRs to ACC/A5T.

**5.14. Project Manager.** For each project, tasked test center selects a project manager. The project manager will:

- 5.14.1. Keep abreast of the activities of other commands or agencies involved in a particular acquisition effort.
  - 5.14.1.1. Review and coordinate OTSR/TIP using A5TT SharePoint site (as directed).
- 5.14.2. Ensure the adequacy and completeness of test planning, including technical feasibility and compliance with test objectives. Conduct a readiness review, chaired by the appropriate commander, with representation by all units tasked to support the test before beginning flying activity. The readiness review should address any safety concerns and ensure risk mitigation to the lowest possible level. Documentation of the review will be made part of the permanent case file and will address any aircraft restrictions or waivers required for the test.
- 5.14.3. Identify and coordinate resources required for the test project.
- 5.14.4. Ensure the required test or test support plan documentation is coordinated, approved and published according to ACC and test unit instruction.
- 5.14.5. Conduct the test according to the test plan and ensure the test objectives and/or COIs are addressed.
- 5.14.6. Prepare the final report and assist the ACC project officer in updating test information, as required.
- 5.14.7. Prepare fielding recommendation, when required, and initiate coordination process.
- 5.14.8. As required, participate in Document Writing Team (DWT) when new requirements documents are being developed.

5.14.9. When established, participate in the JRMET to assist in collection, analysis, verification and categorization of reliability, maintainability and availability data.

Case A. Cunningham, Major General, USAF  
Director of Plans, Programs and Requirements



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

- AFGSC/CC Plan 001, *Nuclear Weapon System Evaluation Program*, 6 May 2011
- AFI 10-420, *CAF Aviation Scheduling*, 6 Oct 2017
- AFI 10-601, *Operational Capability Requirements Development*, 6 Nov 2013
- AFI 11-212, *Munitions Requirements for Aircrew Training*, 23 Aug 2013
- AFI 33-322, *Records Management and Information Governance Program*, 23 Mar 2020
- AFI 61-201, *Management of Scientific and Technical Information (STINFO)*, 29 Jan 2016
- AFI 63-101/20-101, *Integrated Life Cycle Management*, 9 May 2017
- AFI 63-104, *The SEEK EAGLE Program*, 21 Jan 2005
- AFI 91-205, *Non-Nuclear Munitions Safety Board*, 12 Apr 2012
- AFI 99-103, *Capabilities-Based Test and Evaluation*, 18 Nov 2019
- AFI 99-106, *Joint Test and Evaluation Program*, 23 Mar 2017
- AFI 99-109, *Major Range & Test Facility Base (MRTFB) Test & Evaluation Resource Planning*, 3 Feb 2015
- AFI 99-120, *Forecasting and Programming Munitions Telemetry and Flight Termination Systems*, 18 Sep 2017
- AFMAN 11-260, *Tactics Development Program*, 25 Oct 2019
- AFMAN 63-119, *Certification of System Readiness for Dedicated Operational Testing*, 19 Feb 2016
- AFMAN 65-605 Vol 1, *Budget Guidance and Procedures*, 24 Oct 2018
- AFMAN 99-108, *Programming and Reporting Aerial Target and Missile Expenditures in Test and Evaluation*, 9 May 2018
- AFPD 10-9, *Lead Command Designation and Responsibilities for Weapon Systems*, 8 Mar 2007
- AFPD 63-1, *Integrated Life Cycle Management*, 3 Jun 2016
- AFPD 99-1, *Test and Evaluation Process*, 03 Jun 2014
- CAF Plan 53, *Weapon System Evaluation Program*, TBD 2020
- COMACC Plan 001, *Dual Capable Aircraft Nuclear Weapon System Evaluation Program*, 1 May 1996
- DAFI 33-360, *Publications and Forms Management*, 1 December 2015
- DoD 7000.14-R, *Financial Management Regulation*, Vol 2A, Chapter 1, 17 Jan 2012
- T.O. 00-5-1, *Air Force Technical Order System*, 14 Jun 2016
- T.O. 00-5-3, *Air Force Technical Order Life Cycle Management*, 15 May 2017

T.O. 00-35D-54, *USAF Deficiency Reporting, Investigation and Resolution*, 1 Sep 2015

***Prescribed Forms***

None

***Adopted Forms***

AF Form 847, *Recommendation for Change of Publication*

***Abbreviations and Acronyms***

**AATC**—Air National Guard Air Force Reserve Command Test Center

**A2**—Director of Intelligence

**A3**—Director of Air and Space Operations

**A4**—Director of Logistics, Engineering and Force Protection

**A5/8/9**—Director of Plans, Program and Requirements

**A6**—Director of Communications

**A10**—Strategic Deterrence and Nuclear Integration

**A5T**—Test and Training Division

**A5TT**—Test and Training Branch ACAT—Acquisition Category

**ACC**—Air Combat Command

**ACCI**—Air Combat Command Instruction

**ACTD**—Advanced Concept Technology Demonstration

**AF**—Air Force

**AFB**—Air Force Base

**AFGSC**—Air Force Global Strike Command

**AFI**—Air Force Instruction

**AFMAN**—Air Force Manual

**AFOTEC**—Air Force Operational Test and Evaluation Center

**AFPD**—Air Force Policy Directive

**AFRC**—Air Force Reserve Command

**AFTTP**—Air Force Tactics, Techniques and Procedures

**ANG**—Air National Guard

**AOA**—Analysis of Alternatives

**ATD**—Advanced Technology Demonstration

**CAF**—Combat Air Forces

**CDD**—Capability Development Document

**C&LR**—Capabilities and Limitations Report  
**COCOM**—Combatant Commander  
**COI**—Critical Operational Issue  
**COMACC**—Commander, Air Combat Command  
**CRA**—Capabilities Readiness Assessment  
**CSAF**—Chief of Staff, United States Air Force  
**DoD**—Department of Defense  
**DOT&E**—Director Operational Test and Evaluation  
**DT&E**—Developmental Test and Evaluation  
**FCT**—Foreign Comparative Test  
**FDE**—Force Development Evaluation  
**FME**—Foreign Materiel Exploitation  
**FOT&E**—Follow-on Operational Test and Evaluation  
**FY**—Fiscal Year  
**HQ**—Headquarters  
**IAW**—In Accordance With  
**ICD**—Initial Capability Document  
**IOT&E**—Initial Operational Test and Evaluation  
**ITT**—Integrated Test Team  
**JRMET**—Joint Reliability and Maintainability Evaluation Team  
**JT&E**—Joint Test and Evaluation  
**MAJCOM**—Major Command  
**MAP**—Mission Area Plan  
**MDS**—Mission Design Series  
**NAF**—Numbered Air Force  
**NGB**—National Guard Bureau  
**NLT**—No Later Than  
**OA**—Operational Assessment  
**OFP**—Operational Flight Program  
**O&M**—Operations and Maintenance  
**OPR**—Office of Primary Responsibility  
**OSD**—Office of the Secretary of Defense

**OT&E**—Operational Test and Evaluation  
**OTSR**—Operational Test Support Request  
**OUE**—Operational Utility Evaluation  
**PE**—Program Element  
**PEM**—Program Element Monitor  
**PDAI**—Primary Development/Test Aircraft Inventory  
**PMD**—Program Management Directive  
**POC**—Point of Contact  
**POM**—Program Objective Memorandum  
**QOT&E**—Qualification Operational Test and Evaluation  
**QRC**—Quick Reaction Capability  
**RM&A**—Reliability, Maintainability and Availability  
**SOTR**—Sufficiency of Test Review  
**SPO**—System Program Office  
**STINFO**—Scientific and Technical Information  
**TD&E**—Tactics Development and Evaluation  
**T&E**—Test and Evaluation  
**TEMP**—Test and Evaluation Master Plan  
**TI**—Tactics Initiative  
**TIP**—Tactic Improvement Proposal  
**T.O.**—Technical Order  
**TPL**—Test Priority List  
**TPO**—Test Project Order  
**TRB**—Tactics Review Board  
**TRP**—Test Resource Plan  
**TSL**—Test Sufficiency Levels  
**TTP**—Tactics, Techniques and Procedures  
**UON**—Urgent Operational Need  
**USAFWC**—United States Air Force Warfare Center  
**WG**—Wing  
**WSEP**—Weapon System Evaluation Program

### *Terms*

**ACC Project Officer**—An individual assigned to the headquarters, responsible for staffing the project order, accomplishing HQ duties, and providing guidance through the life of the project.

**Air National Guard (ANG) and Air Force Reserve Command (AFRC) Project Officer**—An individual assigned to the ANG and AFRC Staffs, in the case of activities associated with AATC, serving as a POC for coordination with the ACC project officer, who monitors the test and provides command coordination and support as required.

**Force Development Evaluation (FDE)**—The operational test and evaluation of fielded, operational systems during the sustainment portion of the system life cycle after acceptance for operational use. The focus is on maintaining or upgrading operational systems after the initial acquisition process is complete. An FDE also supports acquisition on MAJCOM-managed systems.

**OT&E Project**—An OT&E project supports a defense acquisition decision by evaluating the operational effectiveness and suitability of a system, subsystem, or system modification; identifying operational deficiencies; or identifying the need for modifications. An OT&E project order is usually for MAJCOM-conducted operational testing and/or FDE.

**Operational Test Support Request**—A formal headquarters document, hosted in a web-based system that authorizes the test center to participate in a project.

**Operational Utility Evaluation (OUE)**—OUEs are evaluations of military capabilities conducted to demonstrate or validate new operational concepts or capabilities, upgrade components, or expand the mission or capabilities of existing or modified systems. An OUE also supports acquisition on MAJCOM managed systems.

**Project Manager**—An individual assigned to the USAF Warfare Center (USAFWC) or the Air National Guard Air Force Reserve Command Test Center (AATC) who is directly responsible for the management and coordination of all activities associated with the planning, conduct, and reporting for the assigned test project.

**Support Project**—Support projects are used primarily to support AFOTEC-conducted OT&E, AFMC-conducted DT&E, other Service-conducted T&E projects, JT&E, and FCT.

**Test Director**—An individual responsible for directing an OT&E or Developmental T&E (DT&E) test team respectively, or overseeing execution of the project according to the test plan.

**Tactics Development and Evaluation (TD&E)**—TD&E is specifically designed to further exploit doctrine, system capabilities, tactics, techniques and procedures during the sustainment portion of the system life cycle. TD&Es normally identify non-material solutions to tactical problems or evaluate better ways to use new or existing systems.

**Test and Evaluation (T&E)**—The act of generating empirical data during the research, development or sustainment of systems, and the creation of information through analysis that is useful to technical personnel and decision makers for reducing design and acquisition risks. The process by which systems are measured against requirements and specifications, and the results analyzed so as to gauge progress and provide feedback.

**Test Priority List**—An annual list approved by ACC/A5/8/9 that identifies the relative priority of all active and projected FY —XX T&E projects for a given fiscal year. ACC/A5TT is the OPR for producing the priority list.

**Test Project Order**—Test categories which align with ACC requirement owners/programs of record at the ACC division level as well as AFGSC.

**Tactic Improvement Proposal (TIP)**—formal proposal for a non-material solution to a tactical requirement. A TIP may be used as justification for a TD&E.

**Tactics Investigation (TI)**—TI is a test sub-category of the CAF Tactics Development Program designed to support initial stage and/or subsequent stages of a TPL-tasked TD&E in a resource-streamlined manner and provide a means to address “fleeting, target of opportunity” tactics development.

**Weapon System Evaluation Program (WSEP)**—Conducted by MAJCOMs to provide an end-to-end tailored evaluation of fielded weapon systems and their support systems using realistic combat scenarios. WSEP also conducts investigative firings to revalidate capabilities or better understand munitions malfunctions.

Attachment 2

EXAMPLE QUARTERLY ASSESSMENT

**A2.1. Quarterly Assessment Memorandum.** Follow the outline in [Table A2.1](#) and provide to A5T.

**Table A2.1. Example Memorandum.**

MEMORANDUM FOR ACC/A5/8/9/A3		
FROM: Wing or Unit/CC		
SUBJECT: Fiscal Year (FY) <b>XX</b> Test <b>Priority</b> List (TPL), <b>XX</b> Quarter Assessment		
1. This is the <b>XX</b> quarter TPL assessment of the [enter Wing or Unit] progress, as of <b>XX</b> Month <b>XX</b> , in executing <b>XX</b> assigned test activities; i.e., to either conduct or to support other ACC test centers or non-ACC agencies.		
<b>2. UON/QRC support activity:</b> Conducted under the following OTSRs / TIPs:		
<u>OTSR/TIP#</u>	<u>TITLE</u>	<u>STATUS</u>
OTSR 20-xxx	MQ-9 Project STRAIGHT ARROW FDE	Execution/Data Collect
TIP 20-xxxxx	Offensive Anti-Surface Warfare TD&E	Reporting/Analysis
OTSR 20-xxx	Emerald Knight Counter-UAS Support	Complete
<b>3. Completed Test Activity:</b> The following test(s) have been completed and the final report, or sufficiency review, has been published with deliverable as annotated:		
<u>OTSR/TIP#</u>	<u>TITLE</u>	<u>DOC PUBLISHED</u>
OTSR 20-xxx	F-15 JMPS MPE v4.2 Component	Oct XX
OTSR 20-xxx	GPS Amplifier Component Checkout	Nov XX
OTSR 20-xxx	MQ-9 RAAM Demo DT Support	Nov XX
OTSR 20-xxx	MQ-9 Single Seat (Pilot) LR T.O. Procedural Validation / Verification	Dec XX
<b>4. Test Support Complete to Lead Developmental and Test Organization (LDTO):</b> The [enter Wing or Unit] has completed all support to the following test(s) conducted by another lead test organization (those lead test organizations may not have completed all their testing):		
<u>OTSR/TIP#</u>	<u>TITLE</u>	<u>OTA/LDTO</u>
OTSR 20-xxx	Joint Counter-Air Integration JT Support	DOT&E / JCI JT Charter
OTSR 20-xxx	AIM-120C-7 AEPIP MOT&E Support	AFOTEC
<b>5. Active Test Projects:</b> The following tests are in the Planning, Execution/Data collection, or Reporting/Analysis phase as indicated ( <b>NOTE</b> - Provide status for all assigned tests falling within above noted test phases):		
<u>OTSR/TIP#</u>	<u>TITLE</u>	<u>STATUS</u>
TIP 20-xxxxx	F-16 Cruise Missile Defense w/AGR-20	Planning
TIP 20-xxxxx	EC-130H EA vs Passive Systems	Execution/Data
Collection		

OTSR 20-xxx                      Project ROPER-DOPER                      Reporting/Analysis

**6. Test Projects On HOLD / Unable to Conduct:** Currently, the following test(s) are ON HOLD or cannot be conducted in FY XX and the program(s) will be monitored. If changes in circumstances and resources permit (i.e., slips in other tests, changes in manning, fall-out funds, etc.) these tests will be started on a case-by-case basis, and the change in status will be reported in the next quarterly update (**NOTE** –provide status for all tests meeting the above noted criterion):

<u>OTSR/TIP#</u>	<u>TITLE</u>	<u>RATIONALE</u>
OTSR 20-xxx	B-1B Band 4-8 Receiver LRU FDE	Test Item
TIP 20-xxxxx	MQ-9 Maritime F2T2EA TD&E	Funding
TIP 20-xxxxx	UH-1N Flight Operations Inside C-sUAS WEZ TD&E	HHQ HOLD

**7. Recommended for Cancellation:** The following test(s) are recommended for cancellation consideration (**NOTE** – provide sufficient rationale for recommendation to support HQ Staff coordination action):

<u>OTSR/TIP#</u>	<u>TITLE</u>	<u>RATIONALE</u>
TIP 20-xxxxx	Integration TD&E	Link 16 Multi-Sensor Not a TD&E. Material Solution Required.
OTSR 20-xxx 2019	Talon WILDCAT DT Support / FDE	SPO CNX'd Program

**8.** The next update will be in MONTH XX. [Enter Wing or Unit] point of contact is NAME. OFFICE SYMBOL, DSN XXX-XXXX, E-MAIL ADDRESS.

NAME, RANK, USAF  
Commander, UNIT



**Attachment 3**

**TEST SUFFICIENCY LEVELS (TSLs)**

**A3.1. TSLs.** TSLs can be used to convey the level of test technical adequacy to HQ/ACC decision makers and stakeholders for determining resource levels in OTSRs. TSLs refer to the risk of a test reaching an erroneous conclusion given the adequacy of resources available for testing. These risks include the risk of fielding a new system or tactic that does not meet requirements, as well as the risk of failing to field a system or tactic that failed to meet requirements due to insufficient test rigor. TSLs should not be confused with safety risk. TSLs provide a standard terminology for describing the level of test rigor.

**Table A3.1.**

<b>TSL level</b>	<b>Level</b>	<b>Description</b>
<b>1</b>	<b>Demonstration</b>	Single or limited event; illustrates the possible, no attempt at scientific rigor.
<b>2</b>	<b>Multiple Demonstrations</b>	Repeated events exercising a capability, tactic, technique, or procedure (TTP), and/or subsystem over multiple periods of time/events. Scenario and/or survey based testing with minimal ability to independently assess critical factor correlations.
<b>3</b>	<b>Limited Assessment</b>	Descriptive statistics, confidence, power and/or combinatoric strength calculated and reported, but no specific confidence, power or strength goals are required for test completion. <sup>1</sup>
<b>4</b>	<b>Assessment</b>	Designed (either statistical or combinatoric) experiments combined with minimal confidence, power and/or strength requirements for critical areas. Leverages engineering and subject matter expertise for planning and analysis.
<b>5</b>	<b>Full Characterization</b>	Full mathematical rigor with predictive capability and robust design. Executed to achieve all planned confidence, power and/or strength goals.

<sup>1</sup> Often the lack of required confidence, power and strength goals may be due to time constraints, limited number of test assets, or limited resources (funding, range availability, or support assets). Other scientifically defensible methods of risk estimation may be used to reach TSL 3 (for example; using learning curve theory to calculate sample size for a TD&E).

**A3.2. Reliability Assessment Limitation.** TSLs applied to the test are normally reported as the highest TSL level for a critical requirement or Key Performance Parameter. However, decision makers should be aware that certain specific objectives or measures within a test may be well below the overall TSL. For example, three missions were used to collect adequate data points to complete a full characterization of the effectiveness of a new radar warning receiver (RWR). However, the total flight time of 18 hours is not adequate to fully assess the 2,000 hour mean time between failure (MTBF) requirement of the RWR. In the case the overall TSL 5 for effectiveness

should be appropriately caveated with the reliability assessment limitation to provide decision makers and stakeholders with a complete picture of the assessment adequacy.