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***Flying Operations***

***TACTICS DEVELOPMENT PROGRAM***

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(Lt Col Joseph L. Clavin)  
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This instruction implements policy in Air Force Policy Directive (AFPD) 11-2, *Aircraft Rules and Procedures*, and establishes responsibilities and procedures for conducting the Tactics Development Program. This instruction applies to all units involved with the employment of Combat Air Forces (CAF), Special Operations Forces (SOF), Space, and Mobility Air Forces (MAF). All subordinate organizations, including individual units, may supplement this instruction to cover unique requirements. Forward approved supplements to Headquarters Air Combat Command, Weapons and Tactics Branch (HQ ACC/DOTW). Send comments and suggested improvements to this publication on an AF Form 847, **Recommendation for Change of Publication**, through channels, to HQ ACC/DOTW, 205 Blvd, Suite 101, Langley Air Force Base, VA 23665-2789. E-mail address is <mailto:acc.dotw@langley.af.mil>. This instruction applies to Air National Guard (ANG) units when published in ANGIND2; and applies to Air Force Reserve Command (AFRC) units when published in AFRCIND2.

***SUMMARY OF REVISIONS***

**This document is substantially revised and must be completely reviewed.**

Major areas updated include: adjusting Tactics Review Board (TRB) timing to align with major command (MAJCOM) budget processes; implementing standard practices instituted after the 1999 Combat Air Forces Weapons and Tactics Conference; and, incorporates portions of Air Force Space Command Instruction (AFSPCI) 10-169, *Tactics Development Program for Operational Systems*; Air Mobility Command Instruction (AMCI) 11-207, *AMC Tactics Program*; and Air Force Special Operations Command Instruction (AFSOCI) 11-207, *AFSOC Tactics Program*.

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## 1. General Policy:

1.1. The Tactics Development Program is designed to develop, document and disseminate tactics for the Air Force. The program's broad goals are to:

1.1.1. Identify tactical employment opportunities in all areas of fighter, bomber, rescue, command and control, airlift, air refueling, special ops, air operations center, information warfare, air defense sector operations, space control, and space integration.

1.1.2. Conduct formal Tactics Development and Evaluations (TD&E) to determine new tactics that correct identified tactical deficiencies and pursue new/improved Tactics, Techniques, and Procedures (TTP).

1.1.3. Continually validate existing tactics against emerging threats and new technologies.

1.1.4. Consolidate and rapidly disseminate tactical information.

1.1.5. Develop tactics for new or modified weapons systems entering the AF inventory.

1.2. Tactics incorporate all facets involved with accomplishing assigned tactical missions and are not limited to airborne assets. Any participants actively involved in engagement of the enemy while executing the mission should be involved in the tactics development process. This includes planning, rehearsal, takeoff, departure, intelligence preparation of the battlefield, command and control, ingress to the target, weapons employment, egress procedures, arrival, and any additional support assets required for mission success.

1.2.1. The Tactics Development Program is not intended for hardware/software acquisition, Technical Order (T.O.) modifications or requests to changes in training. Use AF Form 1067, **Modification Proposal**, to request changes to hardware configuration of less than \$10 million; T.O. 00-35D-54, *USAF Deficiency and Investigation System*, to identify equipment shortfalls and software changes; AF Form 847, to request changes to Instructions or Publications and AFTO Form 22 for T.O.s.

### 1.3. MAJCOM Responsibilities:

1.3.1. ACC is tasked by Air Force Instruction (AFI) 11-415, *Weapons and Tactics Program*, to serve as the lead command in developing, documenting and disseminating tactics for the Combat Air Forces (CAF). CAF, as used in this AFI, refers to units within ACC, United States Air Forces in Europe (USAFE), Pacific Air Forces (PACAF), Air Force Information Warfare Center (AFIWC), AFSPC, AFRC, and ANG.

1.3.2. Air Mobility Command (AMC) serves as the lead command in developing, documenting and issuing tactics for the MAF in accordance with (IAW) Air Force Policy Directive (AFPD) 10-21, *Air Mobility Lead Command Roles And Responsibilities*. MAF, as used in this AFI, refers to mobility units within AMC, USAFE, PACAF, AFRC, and ANG.

1.3.3. Air Force Special Operations Command (AFSOC) serves as the lead command in developing, documenting, and issuing tactics for AFSOF IAW Air Force Mission Directive (AFMD) 6, *Air Force Special Operations Command*. In addition, AFSOC will serve as a tactics development focal for the Combat Search and Rescue Forces (CSARF).

1.3.4. Air Force Space Command (AFSPC) serves as the lead command in developing, documenting, and issuing tactics for space weapons systems IAW AFMD 5, *Air Force Space Command*.

#### 1.4. Tactics Development Integration:

1.4.1. Air Force personnel who identify a non-material solution to a tactical deficiency should submit an AF Information Management Tool (IMT) 4326, **Tactic Improvement Proposal (TIP)** (formerly MC Form 1007), to the unit tactics shop (see [Attachment 2](#)). The unit tactics shops will forward the TIP via the appropriate chain of command. MAJCOMs will assign control numbers for all received TIPs. TIPs will be referred to by the MAJCOM control number until they are approved for test. Numbering begins with the calendar year of TIP receipt followed by a MAJCOM reference number. The reference scheme in [Table 1](#). will be used. **EXAMPLE:** HQ ACC/DOTW receives the first TIP in Aug 03—the TIP will be assigned control number 03-101.

**Table 1. MAJCOM Control Numbers.**

MAJCOM	CONTROL NUMBER
ACC	(CY)-1XX
PACAF	(CY)-2XX
USAFE	(CY)-3XX
ANG/AFRC	(CY)-4XX
AMC	(CY)-5XX
AFSOC	(CY)-6XX
AFSPC	(CY)-7XX
AETC	(CY)-8XX

1.4.2. CAF, MAF and AFSOF have parallel tactics development processes aligned to support an integrated tactics development program. CAF, MAF, and AFSOF will conduct separate Tactics Review Boards (TRB) to review applicable TIPs from USAFE, PACAF, AFSPC, AETC, ANG/AFRC and owned units. MAJCOMs will forward MAF and AFSOF specific TIPs to the appropriate MAF or AFSOF OPRs in time for MAF and AFSOF TRB processing. The MAF and AFSOF TRB will be conducted prior to the CAF TRB. Any CAF-related TIPs identified during these boards will be made available for the CAF TRB. AMC and AFSOC will forward the CAF-related TIPs to HQ ACC/DOTW by 30 Nov each year for the CAF TRB. Appropriate MAF and AFSOF representatives will be present at the CAF TRB to ensure proper TIP integration. Refer to [Table 2](#). for recommended dates for each TRB level.

**Table 2. TRB Timetable.**

TRB LEVEL	NLT DATE
Squadron	15 Sep
Group/Wing/Direct Reporting Units (DRU)/ Primary Support Units (PSU)/Centers	1 Oct
MAJCOM	15 Oct
MAF and AFSOF	15 Nov
CAF	15 Jan

1.4.3. Tactics development will start as early in the equipment acquisition cycle as possible. Tactical objectives should be incorporated during Initial Operational Test and Evaluation (IOT&E), Qualification Operational Test and Evaluation (QOT&E), and Force Development Evaluation (FDE) as much as practical. For aircraft modifications, such as Operational Flight Program (OFP) upgrades, the FDE may be the only opportunity to evaluate the impact on tactics. MAJCOM will provide a concept of operation for operational test objectives to ensure tactics development starts as early as possible in the acquisition cycle.

1.5. Each level of command will evaluate tactics for the following areas and submit the TIP where appropriate.

1.5.1. MAJCOM/Numbered Air Force (NAF). Deployment, combat planning, rehearsal, combat operations, tasking of combat forces, and command and control of forces. If a NAF convenes a TRB, it is still responsible for making the MAJCOM deadline (see [Table 2.](#)). NAFs are also responsible for any adjustments in the timelines so that subordinate units can achieve the MAJCOM suspense (per [Table 2.](#)).

1.5.2. Centers. Weapons and tactics issues that evolve from the respective center activities.

1.5.3. Wing/Group/Air Defense Sectors. Weapons and tactics issues related to Designed Operational Capability (DOC) statement, local tasking, or Air Expeditionary Force (AEF) tasking.

1.5.4. Squadron. Weapons and tactics issues related to any aspect of mission planning through execution.

## **2. CAF Tactics Development Procedures:**

### **2.1. General Policy:**

2.1.1. HQ ACC/DO is HQ ACC's focal point for the CAF Tactics Development Program. HQ ACC/DOT serves as the office of primary responsibility (OPR) and program manager. HQ ACC/DOT will coordinate with MAJCOM/DOT, ANG/XO, and HQ AFRC/DOT on programs affecting their respective activities.

2.1.2. The Air Warfare Center (AWFC), Air Force Information Warfare Center (AFIWC), the Space Warfare Center (SWC), and Air National Guard Air Force Reserve Command Test Center (AATC) are the primary units for conducting TD&Es for the CAF. Selected operational units may also be solicited/tasked via the Consolidated Planning Order (CPO) to assist or participate in testing. Centers will be selected to conduct specific TD&E projects based on unique capabilities, resource availability, and projected workload.

**2.2. Tactics Development Process.** The tactics development process consists of four phases: Identification of Tactics Deficiencies; Planning and Tasking; Execution; Reporting and Dissemination.

2.2.1. Identification of Tactics Deficiencies:

2.2.1.1. Commanders and supervisors at all levels will continually review their areas of responsibilities for tactical deficiencies, report those discovered, and recommend improvements. The designated unit weapons and tactics organization is the focal point for this effort.

2.2.1.2. Intelligence units at all levels of command will continually evaluate information on enemy capabilities, doctrine, tactics, and will provide updates to the unit weapons and tactics organization.

2.2.1.3. Tactic Improvement Proposal (TIP). Tactical improvements addressing identified tactical deficiencies will be documented on the AF IMT 4326 (formerly MC Form 1007). The TIP form can be found on the Air Force Publication website. TIPs must be reviewed by OG/CC, AOG/CC or WG/CC in order to be accepted by MAJCOM. Accepted TIPs will be reviewed by appropriate MAJCOM weapons and tactics organization. PACAF, USAFE, 19 AF (for Air Education and Training Command [AETC]), ANG, and AFRC will review the TIPs for concurrence. Non-ACC MAJCOM weapons and tactics organizations will make a recommendation on each TIP before it is forwarded to ACC/DOTW. TIPs should not be used to request modification or acquisition of hardware or software, nor for requesting changes in training procedures. A proposed change to operations/training procedures, as contained in the 11-series publications, should be submitted by message to HQ ACC/DOTW as a subject for discussion at the next scheduled Realistic Training Review Board (RTRB). For proposed changes to operations/training procedures impacting space operations, as contained in the 10-series publications, should be submitted by message to HQ AFSPC/XOT.

2.2.1.3.1. TIPs must be as specific as possible and contain the appropriate classification markings. The TIP must include a detailed description of the tactical problem or deficiency and a recommended solution or tactical improvement. The TIP should include the desired objectives for the recommended testing. The more detailed the information and objectives are in the TIP, the better the likelihood that the TIP will be tested and provide the desired answers. Objectives must be clear, obtainable, and measurable. TIPs with insufficient or unclear information in the description or objectives section should be returned to the originator for expansion of data and resubmission.

2.2.1.3.2. TIPs can be submitted at any time of the year. TIPs do not have to wait for the annual TRB conference to be considered or tested. If the TIP is of immediate concern and will affect current operations or testing, the TIP should follow the established routing but at an accelerated pace. This accelerated pace cannot be readily defined and will be dictated by the circumstances requiring tactics development. All TIPs requiring accelerated review and time sensitive testing will be forwarded to HQ ACC/DOTW as soon as practical.

2.2.1.3.3. All TIPs approved for formal evaluation and requiring ACC test involvement will be forwarded to HQ ACC/DRPT for inclusion on the ACC Test Priority List (TPL). HQ ACC/DOTW will provide the TIP to the respective test center for incorporation into the respective test plan. The appropriate test center may initiate planning after approval by HQ ACC/DR.

2.2.1.3.4. Within 30 days of the CAF TRB, HQ ACC/DOTW will report the disposition of TIPs on the HQ ACC/DOTW SIPRNET website. Individuals and organizations submitting TIPs will be able to check the status of their TIPs by checking the website.

2.2.1.4. Tactics Review Board. The purpose of the TRB is to review tactics and suggest changes to correct deficiencies in those tactics. Squadron TRBs should formulate and forward TIPs in the areas identified by paragraph 2.2.1. Group/wing/wing equivalent TRBs will review squadron TIPS, formulate any additional required TIPs, and forward to their MAJCOMs. The CAF TRB may formulate new TIPs, but should focus on reviewing TIPs submitted by subordinate units. TRBs should concur/non-concur with TIPs and make a recommendation for the disposition of the TIP. TRBs should ensure that the TIP objectives and description provide the necessary information to create a draft of the test plan.

2.2.1.4.1. TRB Timelines. Annual TRBs will be conducted by unit weapons and tactics organizations. TRB Timeline recommendations are in **Table 2.** All TIPs must be forwarded to ACC/DOTW by 30 Nov for processing. Prior to conducting TRBs at any level, units should review the current and completed TD&Es to avoid redundancy in reporting tactics deficiencies.

2.2.1.5. TRB Attendance.

2.2.1.5.1. The appropriate commander for that TRB level will select the attendees. The intent is for squadrons to conduct their own TRBs, followed by the operations group/wing TRB which consolidates squadron TRB inputs. Single Mission Design Series (MDS) wings/Air Operations Centers (AOC) may not need to conduct a TRB above the operations group level before submitting TIPs to the MAJCOM weapons and tactics organization.

2.2.1.5.2. The CAF TRB will consist of experts from several test centers and MAJCOMs. The CAF TRB will review all CAF-related TIPs submitted to HQ ACC/DOTW. In order to review the TIPs, the CAF TRB will consist of MDS working groups and mission area (MA) working groups. A chairman will lead each MDS or MA working group. The test group commander responsible for conducting the TD&Es for that MDS or MA will normally appoint the chairman. For example, the 53rd Test and Evaluation Group (TEG) Commander will appoint the working group chairman for the B-52 working group. The intent is that the same test personnel involved in evaluating the TIPs be directly involved with the test planning and execution. If the test group commander does not have personnel with the appropriate experience, he may coordinate with HQ ACC/DOTW to find a working group chairman with appropriate experience (e.g., USAF Weapons School). The Information Warfare (IW) mission area chairman should be from HQ ACC/DOZ or their selected representative.

2.2.1.5.3. The CAF TRB attendance is by invitation only. Attendance is determined by each working group chairman and must be coordinated with HQ ACC/DOTW. The intent is to keep the TRB participation to a manageable size while ensuring the correct representation is available for the latest tactical challenges. Working groups should normally be between four to six people. The representatives for the MA working groups will be chosen from those attending MDS working groups. Each working group should consist of experts from staff, test, and operations community. MAJCOMs should provide representatives for each applicable MDS or MA working group. These representatives should be able to

address theater specific employment issues, if applicable, for the CAF TRB forum. PACAF and USAFE have the option to send, or not to send, representatives for aircraft that are not permanently assigned (e.g., B-52). The HQ AETC/DO may also send a representative to the CAF TRB if they train aircrew in that particular MDS. MAJCOM representatives may be chosen from the MAJCOM staff, subordinate NAF, wings, or squadrons. Working group test representation should be supported by anticipated test agencies to include AATC (if the working group is applicable to the ANG or AFRC). Operations representation should be experienced experts from the CAF. Usually, a graduate of the USAF Weapons School is the expected representative. (**IW ONLY:** Representative will be from 346 TS.) For example, in an A-10 working group the chairman should be from 53 TEG and the working group should consist of ACC, PACAF, USAFE, AATC, and USAFWS representatives.

#### 2.2.1.6. CAF TRB Actions.

2.2.1.6.1. The CAF TRB will review all CAF TIPs and make a recommendation for each. Recommendations may be to delete, test, or forward to an OPR. The CAF TRB will funnel directly into CAF Weapons and Tactics Conference (WEPTAC). The TRB Working Group Chairman will also chair and lead the MDS or MA Working Group at the WEPTAC. The TRB working group chairmen will present the TRB results. CAF WEPTAC Working Groups will validate all TIP recommendations made at the CAF TRB. The reason for the WEPTAC validation is to obtain consensus from an increased number of warfighters. The number of attendees at the CAF TRB is limited, while attendance at the CAF WEPTAC is not.

2.2.1.6.2. The CAF TRB working groups will ensure each TIP forwarded for test has a detailed description of the tactical deficiency and has clear, obtainable and measurable objectives. For each recommended test, the working groups will also develop a rough order of magnitude (ROM), including scope (cost, number of sorties, type aircraft, etc.) to complete the test. The working group should also identify phases of testing (if required) to essentially outline how the test should be executed. HQ ACC/DOTW will, using this information, initiate test requests from appropriate MAJCOMs. For tests requiring ACC involvement, HQ ACC/DOTW will forward the TD&E nominations to HQ ACC/DRPT to meet the ACC annual call for test suspense. The appropriate MAJCOM test center will use information provided by the CAF TRB as part of test planning and approval processes.

#### 2.2.2. Tasking and Planning:

##### 2.2.2.1. Air Combat Command:

2.2.2.1.1. A test resulting from a TIP approved by the CAF will become a candidate TD&E. Any TD&E requiring ACC involvement must be placed on the ACC TPL and have an approved Electronic Project Order (EPO). The ACC TPL combines and prioritizes all ACC related testing requirements. HQ ACC/DR is responsible for developing the ACC TPL in coordination with HQ ACC/DO. Coordination and approval of the EPO constitutes approval to conduct test planning. A TD&E test plan signed by the applicable commander constitutes approval for test execution.

2.2.2.1.2. If ACC assets external to the responsible test center are required, that responsible test center contacts HQ ACC/DOO to request scheduling of assets via the Consolidated

Planning Order (CPO). The tasked operational unit's MAJCOM/DO and HQ ACC/DO must approve participation in any MAJCOM testing. Operational units tasked in an approved EPO or on the CPO for test support sorties do not require additional HQ ACC/DR/DO approval.

2.2.2.1.3. When practical, TD&E objectives should be accomplished in conjunction with other test missions that replicate the required testing environment.

2.2.2.1.4. IW requires a flexible test capability to remain responsive to rapid changes in current and emerging weapon systems. In coordination with HQ ACC/DO/DR, centers have the discretion to plan and conduct tactics evaluations limited in scope. These evaluations are designed to examine threats, vulnerabilities and achievable effects, using in-house and locally coordinated assets. HQ ACC/DO and HQ ACC/DR approval will be provided via a blanket EPO. **NOTE:** IW Tactics Development Initiatives (TDI) are not TD&E and are conducted under a separate, dedicated blanket EPO.

2.2.2.1.5. Test centers should coordinate test requirements and objectives with the US Army, US Navy, and US Marine Corps test/doctrine organizations to ensure commonality and joint applications and to prevent duplication of effort.

#### 2.2.2.2. Air Force Space Command:

2.2.2.2.1. For tactics that are approved by the AFSPC TRB and require AFSPC-conducted tests, HQ AFSPC/XOTW will forward TD&E nominations via a Test Request (TR) to HQ AFSPC/XOT. These TRs are generally completed prior to the AFSPC annual call for tests; however, HQ AFSPC/XOTW may also generate an out-of-cycle TR for tactics with urgent development needs. The TR is the vehicle to identify test requirements, determine command prioritization and 595<sup>th</sup> Space Group (SG) resources, and request authority to use operational assets to support a test. **NOTE:** For non-CAF-related TIPs, those TIPs could be coordinated within AFSPC only and not be sent to ACC/DOTW for the CAF TRB.

2.2.2.2.2. Any agency external to AFSPC wishing to conduct testing on or using operational AFSPC assets must obtain HQ AFSPC/XO test-plan approval prior to test execution. An operational asset is any AFSPC system, component or unit used to conduct or support an AFSPC or Air Force mission. External agencies should develop their test plan IAW the recommended test plan format in AFI 99-102, *Operational Test and Evaluation* (will be replaced by AFI 99-103, *Air Force Test and Evaluation*) (abbreviations and acronyms may be placed in the back). To ensure adequate time for approval, the originator should submit their test plan to HQ AFSPC/XOT no later than 60 days prior to the test's scheduled start date. Air Force Operational Test and Evaluation Center (AFOTEC)-conducted and Major Range & Test Facility Base (MRTFB) testing is exempt from this policy.

2.2.2.2.3. When practical, and on a non-interference basis, TD&E objectives should be accomplished in conjunction with other tests or training missions that replicate the environment. A TD&E project with an approved test plan can be executed alone or in conjunction with other tests.

### 2.2.3. Execution:

2.2.3.1. TD&Es will only be conducted by designated MAJCOM test organizations (or by operational units tasked directly by the MAJCOM/DO) and only with an approved test project order and signed test plan.

2.2.3.2. TD&E sorties will be flown IAW MAJCOM instructions and directives unless specific waivers are approved by MAJCOM/DO.

2.2.3.3. TD&Es not requiring sorties will be executed IAW MAJCOM guidance and directives unless specific waivers are approved by MAJCOM/DO.

2.2.4. Reporting and Dissemination. Formal results of TD&Es will be documented in interim/final reports and are accessible through the appropriate test centers. The results of the TD&Es can be disseminated through Air Force Tactics, Techniques, and Procedures (AFTTP) 3-1 Volumes, test center "road shows," and/or the USAF Weapons Review. (IW only: TDI will be documented in final reports and are accessible through the AFIWC.)

2.2.4.1. Interim/final report formats will be IAW AFI 99-102 (will be replaced by AFI 99-103). Interim reports will be published anytime information becomes available which has immediate impact on the CAF. Interim reports should also be considered when completion of the TD&E will take longer than 1 year or is delayed/deferred due to unexpected circumstances. Publication of interim reports is at the discretion of the test team and center commander. The center commander must approve these reports. Final reports for TD&E projects will be accomplished and distributed within 60 calendar days after the last test event or as required by the TD&E plan. A copy of the final report, with classification and distribution markings, will be made available for inclusion in the Defense Technical Information Center (DTIC) archives. Unit weapons and tactics shops can go to the 53<sup>rd</sup> WG SIPRNET website and download formal reports. Test reports are available on test center SIPRNET sites. (Web Site addresses are listed in References section)

2.2.4.2. MAJCOM weapons and tactics organizations and responsible test agencies will review final reports on weapons systems for which they have tactics responsibilities and identify and forward information to AWFC for inclusion in the appropriate AFTTP 3-1 volume.

2.2.4.3. AFTTP 3-1 is the primary source of tactics information for the CAF. It contains information that has been validated and has CAF-wide concurrence. Specific procedures and responsibilities for the management of AFTTP 3-1 are contained in AFTTP 3-1.1, *General Planning and Employment Considerations*. HQ ACC/DO will approve all AFTTP 3-1 supplements or changes and will be published on an as needed basis. These supplements/changes will contain executive summaries of interim/final reports, and any other information releasable to the CAF as valid tactics.

2.2.4.4. Test Centers may conduct "road shows" to rapidly disseminate information to the warfighter. The intent of the road show is to provide interaction between the test organizations and the operational units. Road show content may include approved test results and the effect on current tactics.

2.2.4.5. USAF Weapons Review may include information that is not applicable for AFTTP 3-1, but can be warfighter "food for thought."

### 2.3. Responsibilities:

#### 2.3.1. HQ ACC/DO will:

- 2.3.1.1. Coordinate with HQ ACC/DR to ensure all TIPs forwarded for test have EPOs. Ensure TIPs forwarded for test appear on ACC TPL.
- 2.3.1.2. Review for approval CPO taskings for all ACC non-test units tasked to support TD&E projects.
- 2.3.1.3. Coordinate with other MAJCOMs, ANG, AFRC, and NAF tactics office of primary responsibility to ensure program participation.
- 2.3.1.4. Coordinate with HQ ACC/DR on ACC TPL.
- 2.3.1.5. Identify ACC OPR for applicable recommendations in interim/final reports.
- 2.3.1.6. Sponsor the CAF TRB and the CAF WFPTAC.
- 2.3.1.7. Task HQ ACC/DOT to be the HQ ACC focal point for tactics development.
- 2.3.1.8. When necessary, obtain formal coordination on test plans from NGB, AFRC and other MAJCOMs, services, or allied forces.

#### 2.3.2. HQ ACC/DOT will:

- 2.3.2.1. Appoint an ACC tactics officer to act as program manager for the CAF tactics development program.
- 2.3.2.2. Chair the annual ACC WEPTAC and CAF TRB.
- 2.3.2.3. Provide copies of TIPs to Centers and NAFs, when requested.
- 2.3.2.4. Document CAF TRB action on TIPs and report disposition of TIPs on the ACC/DOTW SIPRNET webpage.
- 2.3.2.5. Coordinate all TD&E efforts with HQ ACC/DRP.

#### 2.3.3. HQ ACC/DOZ will:

- 2.3.3.1. Serve as the designated focal point for CAF IW integration, test and evaluation.
- 2.3.3.2. Identify ACC OPRs for applicable recommendations in interim and final reports.
- 2.3.3.3. Obtain formal coordination on project plans from NAFs, NGB, AFRC, and other MAJCOMs, Services, or Allied Forces, when necessary.
- 2.3.3.4. Coordinate all TD&E efforts with HQ ACC/DRP.
- 2.3.3.5. Support ACC/DOT in tactics development and provide expertise for the CAF TRB.

#### 2.3.4. HQ ACC/DR will:

- 2.3.4.1. Maintain liaison with HQ ACC/DO to ensure tactical inputs are available/reviewed throughout the acquisition cycle.
- 2.3.4.2. Coordinate and produce an annual integrated CAF TPL.
- 2.3.4.3. Be the single source of tasking for ACC test centers.

2.3.5. PACAF/DO, USAFE/DO, AFSPC/XO, 19AF/DO (for AETC) will:

- 2.3.5.1. Review for approval applicable waivers to this instruction.
- 2.3.5.2. Identify MAJCOM OPR for applicable recommendations in interim/final reports.
- 2.3.5.3. Review for approval MAJCOM TIPs and forward to HQ ACC/DOTW for assignment.
- 2.3.5.4. Appoint representatives for the working groups at the CAF TRB.
- 2.3.5.5. Recommend AFTTP 3-1 changes and forward to HQ ACC/DO.
- 2.3.5.6. Task any MAJCOM units required to support TD&E projects.

2.3.6. MAJCOM staff agencies will:

- 2.3.6.1. Identify tactical information, suspected tactical deficiencies, or proposed improvements to MAJCOM Deputy of Operations.
- 2.3.6.2. Coordinate all tactics related items through MAJCOM/DO/XO.

2.3.7. MAJCOM/DOT/XOT (DOF for AETC) will:

- 2.3.7.1. Be the focal point for MAJCOM tactics development activities.
- 2.3.7.2. Be MAJCOM OPR for AFTTP 3-1 and other tactics development directives.
- 2.3.7.3. Maintain liaison to ensure tactician participation in applicable phases of equipment acquisition.
- 2.3.7.4. Ensure concepts of operations are published prior to the initiation of test projects.
- 2.3.7.5. Assist in coordinating and/or scheduling munitions, ranges, operational unit support, and waivers for TD&E projects.
- 2.3.7.6. Initiate requests for inputs necessary to meet the CAF TRB timetable.
- 2.3.7.7. Maintain liaison with other MAJCOMs to ensure a timely flow of tactics information.
- 2.3.7.8. Provide MAJCOM recommendation on the proposed course of action, timetables, etc., for all TIPs submitted.
- 2.3.7.9. Disseminate MAJCOM TRB TIP disposition to subordinate operational and training units and NAF/DOs.

2.3.8. MAJCOM/IN will:

- 2.3.8.1. Evaluate intelligence information for possible effect on tactical operations. MAJCOM/DO will be immediately notified of such information.
- 2.3.8.2. Levy appropriate Collection Requirements and Production Requirements to national intelligence agencies to obtain and document required data on enemy capabilities, doctrine, and tactics.
- 2.3.8.3. Disseminate enemy tactics information to subordinate units through appropriate intelligence channels.

2.3.9. Centers tasked to conduct TD&E projects will:

2.3.9.1. Program and accomplish TD&Es by establishing and adhering to suspenses for planning, executing, and reporting TD&Es assigned by electronic project orders.

2.3.9.2. Program for future TD&E projects and required funding during budget submissions.

2.3.9.3. Submit interim and/or final reports IAW AFI 99-102 (will be replaced by AFI 99-103).

2.3.9.4. Identify tactics deficiencies or propose new tactics by submission of a TIP.

2.3.9.5. Screen reports and project results for applicable information, and process that information for dissemination in AFTTP 3-1 and/or changes to AFTTP 3-1.

2.3.9.6. Supply and solicit tactical expertise in their specialized areas to support TD&E efforts by other centers, as tasked by HQ ACC.

2.3.9.7. Provide center representation at CAF TRB, as required.

2.3.9.8. Assign a center project officer to each TD&E.

2.3.9.9. Conduct "road shows" as required to rapidly disseminate information to the warfighter.

2.3.9.10. AATC is responsible to ANG/XO and HQ AFRC/DO for applicable items listed in paragraph 2.3. AATC will host the ANG and AFRC Weapons and Tactics Conference (WEPTAC). The WEPTAC will evaluate ANG and AFRC TIPs. AATC will forward WEPTAC approved TIPs for consideration at the CAF TRB. The CAF TRB will review ANG/AFRC TIPs for applicability and support of active duty units.

2.3.10. NAF/DO will:

2.3.10.1. Review TIPs related to AOC operations and forward to MAJCOM/DO with recommendations.

2.3.10.2. 8 AF will review TIPs related to Air Force Network Operations Security Center (AFNOSC) and forward recommendations to HQ ACC/DOTW and courtesy copying the 23<sup>rd</sup> IOS.

2.3.11. ANG/XO and AFRC/DO will:

2.3.11.1. Sponsor the ANG and AFRC WEPTAC.

2.3.11.2. Task the AATC for TD&E project management involving ANG and AFRC resources.

2.3.11.3. Approve and support ANG and AFRC unit participation in TD&E projects.

2.3.11.4. Budget for and provide funding, flying hours, and man-days for ANG and AFRC unique TD&E projects.

2.3.12. All operational and training units will:

2.3.12.1. Continually evaluate tactical information available to support assigned or expected wartime tasking, specifically analyzing the completeness of information and its validity in today's environment.

2.3.12.2. Use all available opportunities to exercise validated tactics. Examples: continuation training, Red Flag, Cope Thunder, Weapons System Evaluations Program (WSEP), and 527<sup>th</sup> Space Aggressor Squadron (SAS) vulnerability assessments.

2.3.12.3. Report undocumented tactics or tactical problem areas or propose new tactics by submission of a TIP.

2.3.12.4. Conduct an annual TRB as described in this instruction.

2.3.12.5. Support and send representatives to the CAF WEPTAC.

2.3.12.6. Support and send representatives to applicable AFTTP 3-1 re-write conferences.

### **3. MAF Tactics Development Procedures:**

#### **3.1. General Policy:**

3.1.1. HQ AMC/A3 is the focal point for the MAF Tactics Development Program. HQ AMC/A3K is the OPR and program manager for the MAF Tactics Development Program. HQ AMC/A3K will coordinate with MAJCOM/DOT, ANG/XO, and HQ AFRC/DO on programs that affect their respective activities.

3.1.2. The AMC Test and Evaluation Squadron (TES) and AATC are the primary units for conducting TD&Es. Selected units may also be solicited/tasked via the Test Order to assist or participate in testing. Units will be selected to conduct specific TD&E projects based on unique capabilities, resource availability, and projected workload.

3.2. TD&E Procedures. The TD&E process occurs in four phases: identification of Tactics Deficiencies, tasking/planning, execution, and reporting.

#### **3.2.1. Identification of Tactics Deficiencies:**

3.2.1.1. Commanders and supervisors at all levels will continually review their areas of responsibilities for tactical deficiencies, report those discovered, and recommend improvements. The designated unit weapons and tactics organization is the focal point for this effort.

3.2.1.2. Intelligence units at all levels of command will continually evaluate information on enemy capabilities, doctrine, and tactics, and will provide updates to the unit weapons and tactics organization.

3.2.1.3. Tactic Improvement Proposal (TIP). Identified tactical deficiencies will be documented on the AF IMT 4326 (formerly MC Form 1007). The TIP form can be found on the Air Force Publication website. The Group or Wing must review the TIPs or they will not be accepted by MAJCOM. TIPs will be reviewed by appropriate MAJCOM weapons and tactics organization. MAJCOM weapons and tactics organizations will make a recommendation on each TIP before it is forwarded to the MAF TRB. All TIPs with a Group, Wing, or NAF review will be forwarded to the MAF TRB. The only exceptions to this are TIPs that do not request changes in tactics. TIPs should not be used to request modification or acquisition of hardware or software, nor for requesting changes in training procedures or publications. HQ AMC/A5R is the OPR for hardware/software modifications and acquisition. A proposed change to operations/training procedures, as contained in the 11-series publications, should be submitted by message to HQ AMC/A3T as a subject for discussion at the next scheduled Realistic Training Review Board (RTRB).

3.2.1.3.1. TIPs must be as specific as possible and contain the appropriate classification markings. The TIP must include a detailed description of the tactical problem or deficiency and a recommended solution or tactical improvement. The TIP should include the desired objectives for the recommended testing. The more detailed the information and objectives are in the TIP, the better the likelihood that the TIP will be tested and provide the desired answers. Objectives must be clear, obtainable, and measurable.

3.2.1.3.2. HQ AMC/A3KT will assign a MAJCOM control number IAW paragraph 1.4.1. TIPs will be referred to by the MAJCOM control number until they are approved for test.

3.2.1.3.3. TIPs can be submitted at any time of the year. If the TIP is of immediate concern and will affect current operations/testing, the TIP should be accelerated through the review process and forwarded to HQ AMC/A3KT as soon as possible. TIPs do not have to wait for the formal TRB process to be considered or tested. HQ AMC/A3KT will coordinate MAJCOM approval or disapproval of the TIP.

3.2.1.3.4. All TIPs approved for formal evaluation will be forwarded to HQ AMC/TE for inclusion on the AMC TPL. HQ AMC/A3KT will initiate the test by submitting a test request to AMC/TE. HQ AMC/A3KT will also provide the TIP to the respective test organization for incorporation into the respective test plan. The appropriate test organization will initiate planning for the test after tasking through HQ AMC/TE.

3.2.1.3.5. After the MAF TRB, HQ AMC/A3KT will report the disposition of TIPs using on the appropriate HQ AMC/A3KT secure (SIPRNET) or non-secure (NIPRNET) website. Individuals and organizations submitting TIPs may check the status of their TIPs by checking the website.

3.2.1.4. Tactics Review Boards. The purpose of the TRB is to review tactics and suggest changes to correct deficiencies in those tactics. Squadron TRBs should formulate and forward TIPs in the areas identified by paragraph 1.4. Group/wing TRBs will review squadron TIPS, formulate any additional required TIPs, and forward to HQ AMC/A3KT, while courtesy copying their respective MAJCOM. Center/MAJCOMs and MAF TRB may formulate new TIPs, but should focus on reviewing TIPs submitted by subordinate units. TRBs should concur/non-concur with TIPs and make a recommendation for the disposition of the TIP. TRBs should ensure that the TIP objectives and description provide the necessary information to create a detailed draft test request.

3.2.1.4.1. TRB Timelines. Annual TRBs will be conducted by unit weapons and tactics organizations. Recommend following TRB timelines in Table 2, paragraph 1.4.2. All TIPs must be forwarded to HQ AMC/A3KT by 1 Nov for processing. Prior to conducting TRBs at any level, units should review the current TPL and completed TD&Es to avoid redundancy in reporting tactics deficiencies.

3.2.1.4.2. TRB Attendance:

3.2.1.4.2.1. The commander whose staff is running the TRB will select the TRB attendees. Squadron commanders, operations group commanders, etc., will decide the number of participants and attendees. The intent is for squadrons to conduct their own TRBs, followed by operations group/wing TRB which consolidates squadron TRB inputs. Single MDS wings may not need to conduct a TRB above the operations group level before submitting TIPs to the MAJCOM weapons and tactics organization. NAFs

need not review TIPs submitted by subordinate wings as the MAJCOM weapons and tactics organization and the MAF TRB perform that function.

3.2.1.4.2.2. The MAF TRB will consist of experts from test and MAJCOMs. The MAF TRB will review all TIPs submitted to HQ AMC/A3KT. In order to review the TIPs, the MAF TRB will consist of MDS working groups and/or MA working groups. A chairman will lead each MDS or MA working group. HQ AMC/A3KT will appoint a working group chairman with appropriate MDS or MA experience (e.g., USAF Mobility Weapons School or AMC staff).

3.2.1.4.2.3. Attendance at the MAF TRB is open. MAJCOMs should make every effort to select MDS or MA representatives best able to address theater-specific employment issues for each MDS within the MAF TRB forum. Representatives may be chosen from the MAJCOM staff, subordinate NAF, wing, or squadron. In addition, representatives from the responsible test organization (the AMC TES for active duty and AATC for the AFRC or the ANG), and the USAF Mobility Weapons School should participate in MDS or MA working groups. The HQ AETC/DO may also send a representative to the MAF TRB if they train aircrew in that particular MDS. The representatives for the MA working groups will be chosen from those attending MDS working groups. The intent is to encourage TRB participation from all impacted units.

#### 3.2.1.5. MAF TRB Actions:

3.2.1.5.1. The MAF TRB will review all MAJCOM TIPs and make a recommendation for each. Recommendations may include deletion, testing, or forwarding to an OPR. The MAF TRB provides a final recommendation for TIP disposition. Attendance at the MAF TRB is open ensuring that every TIP disposition has support and validation from the MAF. TIP Disposition is the determination of the HQ AMC/A3.

3.2.1.5.2. MAF TRB Working Group. MAF Working Group convenes to review TIPs and develop MAF TRB agenda. Composed of action officers working tactics issues, the MAF TRB Working Group meets 4 days prior to the TRB to ensure adequate material preparation for the MAF TRB.

3.2.1.5.3. The MAF TRB working groups will ensure that each TIP forwarded for test has a detailed description of the tactical deficiency and the objectives are clear, obtainable, and measurable. For each recommended test, the working groups will also develop the test request.

3.2.2. Tasking and Planning. HQ AMC/TE conducts TD&Es through FDE focusing on research, analysis, development, and T&E of specific employment tactics against anticipated threats. HQ AMC/A3K will determine if the TIP requires a TD&E. If testing is warranted, HQ AMC/A3K will send a test request to HQ AMC/TE and participate in the test plan working group. The TD&E will be prioritized based on command priorities (i.e., need date, mission impact, aircraft availability). HQ AMC/TE will coordinate the test plan and test report with HQ AMC/A3K.

#### 3.2.3. Execution:

3.2.3.1. TD&Es will only be conducted by designated MAJCOM test agencies (or by operational units tasked directly by the HQ AMC/A3) and only with an approved test plan.

3.2.3.2. TD&E sorties will be flown IAW MAJCOM instructions and directives unless specific waivers are approved by MAJCOM/DO.

3.2.3.3. TD&E not requiring sorties will be executed IAW MAJCOM guidance and directives unless specific waivers are approved by MAJCOM/DO.

3.2.4. Reporting and Dissemination. Formal results of TD&E will be documented in interim/final reports and are accessible through appropriate test agencies. The results of the TD&E can be disseminated through AFTTP 3-1, test organizations "road shows," and/or published articles.

3.2.4.1. Interim/final report formats will be IAW AFI 99-102 (will be replaced by AFI 99-103). Interim reports will be published anytime information becomes available which has immediate impact on the MAF. The requirement for an interim report is usually coordinated during the test planning process. Publication and release of AMC test information is approved by AMC/TE. The final report will be distributed within 60 calendar days after the last test event or as required by the TD&E plan. A copy of the final report, with classification and distribution markings, will be made available for inclusion in the DTIC archives. Test reports are available on test center SIPRNET sites. (Web Site addresses are listed in References section)

3.2.4.2. MAJCOM weapons and tactics organizations and responsible test agencies will review final reports on weapons systems for which they have tactics responsibilities and identify and forward information to the appropriate AFTTP 3-1 volume OPR for inclusion.

3.2.4.3. AFTTP 3-1 is the primary source of tactics information for the MAF. It contains information that has been validated and has MAF-wide concurrence. Specific procedures and responsibilities for the management of AFTTP 3-1 are contained in AFTTP 3-1.1. Supplements/changes and will be published on an as needed basis IAW AFTTP 3-1.1. These supplements/changes will contain executive summaries of interim/final reports, and any other information releasable to the MAF as valid tactics.

3.2.4.4. Test organizations may conduct "road shows" to rapidly disseminate information to the warfighter. The intent of the road show is to provide interaction between the test organizations and the operational units. Road show content may include approved test results and the effect on current tactics.

### 3.3. Responsibilities:

#### 3.3.1. HQ AMC/A3 will:

3.3.1.1. Coordinate with HQ AMC/TE to ensure all TIPs and Special Projects forwarded for test have test orders.

3.3.1.2. Approve tasking for all AMC non-test units required to support TD&E projects.

3.3.1.3. Coordinate with other MAJCOMs, ANG, AFRC, and NAF tactics office of primary responsibility to ensure program participation.

3.3.1.4. Identify AMC OPR for applicable recommendations in interim/final reports.

3.3.1.5. Sponsor the MAF TRB yearly.

3.3.1.6. Task HQ AMC/A3K to be the HQ AMC focal point for tactics development.

3.3.1.7. Obtain formal coordination on test plans, when necessary, NGB, AFRC, and other MAJCOMs, services, or allied forces.

3.3.2. PACAF/USAFE/AETC DO will:

- 3.3.2.1. Task MAJCOM/DOT to be the HQ focal point for tactics development.
- 3.3.2.2. Approve applicable waivers to this instruction.
- 3.3.2.3. Identify MAJCOM OPR for applicable recommendations in interim/final reports or Special Project reports.
- 3.3.2.4. Approve MAJCOM TIPs and forward to HQ AMC/A3K for assignment.
- 3.3.2.5. Appoint representatives for the working groups at the MAF TRB.
- 3.3.2.6. Recommend AFTTP 3-1 changes and forward to HQ AMC/A3K.
- 3.3.2.7. Task MAJCOM/DOT to be the HQ focal point for tactics development.

3.3.3. Task any MAJCOM units required to support TD&E projects.

3.3.4. ANG/XO and HQ AFRC/DO will:

- 3.3.4.1. Task the AATC for TD&E project management involving ANG and AFRC resources.
- 3.3.4.2. Approve and support ANG and AFRC unit participation in TD&E projects.
- 3.3.4.3. Budget for and provide funding, flying hours, and man-days for ANG and AFRC unique TD&E projects.
- 3.3.4.4. Sponsor the ANG and AFRC WEPTAC.

3.3.5. MAJCOM/IN will:

- 3.3.5.1. Evaluate intelligence information for possible effect on tactical operations. MAJCOM/DO will be immediately notified of such information.
- 3.3.5.2. Levy appropriate Collection Requirements and Production Requirements to national intelligence agencies to obtain and document required data on enemy capabilities, doctrine, and tactics.
- 3.3.5.3. Disseminate enemy tactics information to subordinate units through appropriate intelligence channels.

3.3.6. HQ AMC/A5 will:

- 3.3.6.1. Maintain liaison with HQ AMC/A3 to ensure tactical inputs are available/reviewed throughout the acquisition cycle.

3.3.7. HQ AMC/TE will:

- 3.3.7.1. Support the planning, execution, and reporting for all TD&Es, as requested.

3.3.8. MAJCOM staff agencies will:

- 3.3.8.1. Identify tactical information, suspected tactical deficiencies, or proposed improvements to MAJCOM/DO.
- 3.3.8.2. Coordinate all tactics related items through MAJCOM/DO.

3.3.9. MAJCOM/DOT/XOT (DOF for AETC) will:

- 3.3.9.1. Be the MAJCOM focal point for tactics development activities.

- 3.3.9.2. Be MAJCOM OPR for AFTTP 3-1 and other tactics development directives.
- 3.3.9.3. Maintain liaison to ensure tactician participation in applicable phases of equipment acquisition.
- 3.3.9.4. Ensure concepts of employment are published prior to the initiation of test projects and provide early identification of development projects that require tactician involvement.
- 3.3.9.5. Assist in coordinating and/or scheduling munitions, ranges, operational unit support, and waivers for TD&E projects.
- 3.3.9.6. Initiate requests for inputs necessary to meet the MAF TRB timetable.
- 3.3.9.7. Maintain liaison with other MAJCOMs to ensure a timely flow of tactics information.
- 3.3.9.8. Provide MAJCOM recommendation on the proposed course of action, timetables, etc., for all TIPs submitted.
- 3.3.10. HQ AMC/A3K will:
  - 3.3.10.1. Appoint an AMC tactics officer to act as program manager for the MAF tactics development program.
  - 3.3.10.2. Chair the annual MAF TRB.
  - 3.3.10.3. Provide copies of TIPs to Centers and NAFs when requested.
  - 3.3.10.4. Document MAF TRB action on TIPs and return all TIPs to MAJCOMs, NAFs, centers, or wings.
  - 3.3.10.5. Coordinate all TD&E efforts with HQ AMC/TE.
- 3.3.11. Test Organizations tasked to conduct TD&E projects will:
  - 3.3.11.1. Program and accomplish TD&Es by establishing and adhering to suspenses for planning, executing, and reporting TD&Es assigned by test orders.
  - 3.3.11.2. Program for future TD&E projects and required funding during budget submissions.
  - 3.3.11.3. Test organization commanders will sign test plans before test execution begins.
  - 3.3.11.4. Submit interim and/or final reports IAW AFI 99-102 (will be replaced by AFI 99-103).
  - 3.3.11.5. Identify tactics deficiencies or propose new tactics by submission of a TIP.
  - 3.3.11.6. Screen reports and project results for applicable information, and process that information for dissemination in AFTTP 3-1 and/or changes to AFTTP 3-1.
  - 3.3.11.7. Supply and solicit tactical expertise in their specialized areas to support TD&E efforts by other centers, as tasked by HQ AMC.
  - 3.3.11.8. Provide representation at MAF TRB, as required.
  - 3.3.11.9. Assign a project officer to each TD&E and FDE project.
  - 3.3.11.10. AATC is responsible to ANG/XO and HQ AFRC/DO for applicable items listed in paragraph 3.3. AATC will host the WEPTAC. The WEPTAC will evaluate ANG and AFRC TIPs. AATC will forward TIPs approved at the WEPTAC for consideration at the MAF TRB.

The MAF TRB will review ANG/AFRC TIPs for applicability and support of active duty units.

3.3.12. All operational and training units will:

3.3.12.1. Continually evaluate tactical information available to support the conduct of assigned or expected wartime tasking, specifically analyzing the completeness of information, its validity in today's environment, and usability of format.

3.3.12.2. Use all available opportunities to exercise validated tactics, i.e., continuation training, Red Flag, Joint Readiness Training Center and Cope Thunder.

3.3.12.3. Report undocumented tactics or tactical problem areas or propose new tactics by submission of a TIP.

3.3.12.4. Support and send representatives to applicable AFTTP 3-1 re-write conference.

3.3.12.5. Support and send representatives to the MAF TRB.

#### **4. AFSOF and CSARF Tactics Development Procedures.**

4.1. General Policy:

4.1.1. HQ AFSOC/DO is HQ AFSOC focal point for AFSOF and CSARF Tactics Development Program. HQ AFSOC/DOTW serves as the OPR and program manager. HQ AFSOC/DOTW will coordinate with MAJCOM/DOTW, and HQ AFSOC/CCR concerning ANG/XO and HQ AFRC/DO on programs that affect their respective activities.

4.1.2. The 18 Flight Test Squadron is the primary unit for conducting TD&Es for AFSOF/CSARF units. Selected operational units will be solicited/tasked to assist or participate in testing.

4.2. TD&E Procedures. The TD&E process occurs in four phases: identification of Tactics Deficiencies, tasking/planning, execution, and reporting.

4.2.1. Identification of Tactics Deficiencies:

4.2.1.1. Commanders and supervisors at all levels will continually review their areas of responsibilities for tactical deficiencies, report those discovered, and recommend improvements. The designated unit weapons and tactics organization is the focal point for this effort.

4.2.1.2. Intelligence units at all levels of command will continually evaluate information on enemy capabilities, doctrine, and tactics, and will provide updates to the unit weapons and tactics organization.

4.2.1.3. Tactic Improvement Proposal (TIP). Identified tactical deficiencies will be documented on the AF IMT 4326 (formerly MC Form 1007). The TIP form can be found on the Air Force Publication website. TIPs must be reviewed by OG/CC or WG/CC in order to be accepted by HQ AFSOC. HQ AFSOC/DOTW will review accepted TIPs. TIPs should not be used to request modification or acquisition of hardware or software, nor for requesting changes in training procedures. A proposed change to operations or training procedures should be submitted by message to HQ AFSOC/DOT.

4.2.1.3.1. TIPs must be as specific as possible and contain the appropriate classification markings. The TIP must include a detailed description of the tactical problem or deficiency and a recommended solution or tactical improvement. The TIP should include the desired

objectives for the recommended testing. The more detailed the information and objectives are in the TIP, the better the likelihood that the TIP will be tested and provide the desired answers. Objectives must be clear, obtainable, and measurable. TIPs with insufficient or unclear information in the description or objectives section should be returned to the originator for expansion of data and resubmission.

4.2.1.3.2. HQ AFSOC/DOTW will assign a MAJCOM control number IAW paragraph 1.4.1. TIPs will be referred to by the MAJCOM control number until they are approved for test.

4.2.1.3.3. TIPs can be submitted at any time of the year. If the TIP is of immediate concern and will affect current operations/testing, the TIP should follow an accelerated review process and forwarded to HQ AFSOC/DOTW as soon as possible. TIPs do not have to wait for the annual TRB conference to be considered or tested. HQ AFSOC/DOTW will coordinate HQ AFSOC/DO approval/disapproval of the TIP.

4.2.1.3.4. All TIPs approved for formal evaluation and requiring AFSOC test involvement will be forwarded to HQ AFSOC/XPT in the form of a test request. The 18 FLTS will initiate planning for the test after tasking through HQ AFSOC/XPT.

4.2.1.3.5. After the AFSOC TRB, HQ AFSOC/DOTW will report the disposition of TIPs on the HQ AFSOC/DOTW SIPRNET website. Individuals and organizations submitting TIPs will be able to check the status of their TIPs by checking the website.

4.2.1.4. Tactics Review Board (TRB). The purpose of the TRB is to review tactics and suggest changes to correct deficiencies in those tactics. Squadron TRBs should formulate and forward TIPs in the areas identified by paragraph 1.4. Group/wing/wing-equivalent TRBs will review squadron TIPS, formulate any additional required TIPs, and forward to HQ AFSOC/DOTW. The AFSOC TRB may formulate new TIPs, but should focus on reviewing TIPs submitted by subordinate units. TRBs should concur/non-concur with TIPs and make a recommendation for the disposition of the TIP. TRBs should ensure that the TIP objectives and description provide the necessary information to create a draft of the test plan as required.

4.2.1.4.1. TRB Timelines. Annual TRBs will be conducted by unit weapons and tactics organizations. Recommend the following TRB timelines in **Table 2**. Comply with the NLT times in **Table 2**. All TIPS must be forwarded to HQ AFSOC/DOTW by 1 Nov for processing. Prior to conducting TRBs at any level, units should review the current and completed TD&Es to avoid redundancy in reporting tactics deficiencies.

4.2.1.5. TRB Attendance:

4.2.1.5.1. The commander will select the TRB attendees. The intent is for squadrons to conduct their own TRBs, followed by operations group/wing TRB which consolidates squadron TRB inputs.

4.2.1.5.2. The AFSOF/CSARF TRB will consist of experts from AFSOC and other MAJCOMS. The TRB will review all TIPs submitted to HQ AFSOC/DOTW. In order to review the TIPs, the TRB will consist of MDS and mission area (MA) working groups. A chairman will lead each MDS and MA working group. Chief, HQ AFSOC/DOTW will normally appoint the chairman.

4.2.1.5.3. Attendance at the AFSOF/CSARF TRB should include squadron, group weapons officers/tacticians, and enlisted Subject Matter Experts (SME). MAJCOMs should select a representative for each applicable MDS or MA working group. MAJCOMs should make every effort to select MDS representatives best able to address theater specific employment issues for each MDS within the AFSOF/CSARF TRB forum. These representatives may be chosen from the MAJCOM staff, subordinate NAF, wing, or squadron. In addition, each working group should have a representative from the 18 FLTS and the USAF Weapons School. For example, the HH-60 working group should consist of AFSOC, PACAF, USAFE, and USAFWS representatives. Working groups should normally be between four to six people. The HQ AETC/DO may also send a representative to the AFSOF/CSARF TRB if they train aircrew in that particular MDS. The representatives for the MA working groups will be chosen from those attending MDS working groups. The intent is to keep the TRB participation to a manageable size.

4.2.1.5.4. AFSOF/CSARF TRB Actions:

4.2.1.5.4.1. The AFSOF/CSARF TRB will review all TIPs and make a recommendation for each. Recommendations may include deletion, testing, or forwarding to an OPR. The MDS or MA working groups at the AFSOF/CSARF Weapons and Tactics Conference (WEPTAC) must validate all recommendations made at the AFSOF/CSARF TRB. While attendance to the AFSOF/CSARF TRB is limited, attendance at the SOF/CSARF WEPTAC is not. This ensures that every TIP recommendation has support and validation from the TRB & the WEPTAC. The TRB Working Group Chairman will also chair and lead the MDS or MA Working Group at the WEPTAC. The TRB working group chairman will present the TRB results for validation in WEPTAC MDS or MA working groups.

4.2.1.5.4.2. The AFSOF/CSARF TRB working groups will ensure that each TIP forwarded for test has a detailed description of the tactical deficiency and has clear, obtainable and measurable objectives. For each recommended test, the working groups will ensure adequate TIP information is captured and forwarded to HQ AFSOC/XPT.

4.2.2. Tasking and Planning:

4.2.2.1. HQ AFSOC/XPT is responsible for ensuring test priorities are aligned with the AFSOC Council approved prioritized needs. With the limited AFSOF/CSARF assets available, most tests are executed when assets become available.

4.2.2.2. When practical and on a non-interference basis, TD&E objectives should be accomplished in conjunction with other test or training missions that replicate the environment. A TD&E project with an approved test plan can be done alone or in conjunction with another test sortie.

4.2.2.3. The 18 FLTS must coordinate test requirements and objectives with U.S. Special Operations Command (USSOCOM), US Army, US Navy, and US Marine Corps test/doctrine organizations to ensure commonality and joint applications and to prevent duplication of effort.

#### 4.2.3. Execution:

4.2.3.1. TD&Es will only be conducted by designated MAJCOM test organizations and only with an approved, signed test plan.

4.2.3.2. TD&E sorties will be flown IAW MAJCOM instructions and directives unless specific waivers are approved by MAJCOM/DO.

4.2.4. Reporting and Dissemination. Formal results of TD&E will be documented in interim/final reports and are accessible through appropriate test organizations. The results of the TD&E can be disseminated through AFTTP 3-1, and/or the USAF Weapons Review and the 18 FLTS SIPRNET webpage.

4.2.4.1. Interim/final report formats will be IAW AFI 99-102 (will be replaced by AFI 99-103). Interim reports will be published anytime information becomes available which has immediate impact on the AFSOF/CSARF. Interim reports should be considered when completion of the TD&E will take longer than 1 year or is delayed/deferred due to unexpected circumstances. Publication of interim reports is at the discretion of HQ AFSOC/XPT. Final reports for TD&E projects will be accomplished and approved by the 18 FLTS/CC. The final report will be distributed within 60 calendar days after the last test event or as required by the TD&E plan. A copy of the final report, with classification and distribution markings, will be made available for inclusion in the DTIC archives. Test reports are available on test center SIPRNET sites. (Web Site addresses are listed in References section)

4.2.4.2. MAJCOM weapons and tactics organizations and responsible test agencies will review final reports on weapons systems for which they have tactics responsibilities and identify and forward information to the appropriate AFTTP 3-1 volume OPR for inclusion.

4.2.4.3. AFTTP 3-1 is the primary source of tactics information and contains information that has been validated and has AF-wide concurrence. Specific procedures and responsibilities for the management of AFTTP 3-1 are contained in AFTTP 3-1.1. HQ AFSOC/DO will submit any supplements/changes to the HQ ACC/DO for approval and will be published on an as needed basis. These supplements/changes will contain executive summaries of interim/final reports, and any other information releasable to the SOF/CSARF as valid tactics.

4.2.4.4. The 18 FLTS may conduct "road shows" to rapidly disseminate information to the warfighter. The intent of the road show is to provide interaction between the test organizations and the operational units. Road show content may include approved test results and the effect on current tactics.

4.2.4.5. USAF Weapons Review may include information that is not applicable for AFTTP 3-1, but can be warfighter "food for thought."

#### 4.3. Responsibilities:

4.3.1. PACAF/USAFE/19AF (for AETC) DO will:

4.3.1.1. Task MAJCOM/DOT (19AF/DOT for AETC) to be the HQ focal point for tactics development.

4.3.1.2. Approve applicable waivers to this instruction.

- 4.3.1.3. Identify MAJCOM office of primary responsibility (OPR) for applicable recommendations in interim/final reports or Special Project reports.
  - 4.3.1.4. Approve MAJCOM TIPs and forward to HQ AFSOC/DOTW for assignment.
  - 4.3.1.5. Appoint representatives for the working groups at the AFSOF/CSAR TRB.
  - 4.3.1.6. Recommend AFTTP 3-1/3-3 changes and forward to HQ AFSOC/DO.
  - 4.3.1.7. Task any MAJCOM units required to support TD&E projects.
- 4.3.2. HQ AFSOC/DO will:
- 4.3.2.1. Coordinate availability and task the appropriate units to provide required aircraft and aircrew resources identified in the AFSOC approved TD&E test plan.
  - 4.3.2.2. Coordinate with other MAJCOMs, ANG, and AFRC tactics office of primary responsibility to ensure program participation.
  - 4.3.2.3. Identify HQ AFSOC/DO OPR for applicable recommendations provided in interim/final TD&E test reports.
  - 4.3.2.4. Sponsor the AFSOF/CSAR Tactics Review Board and the AFSOF/CSAR Weapons and Tactics Conference yearly.
  - 4.3.2.5. Task HQ AFSOC/DOTW to be the HQ AFSOC focal point for tactics development.
  - 4.3.2.6. Provide HQ AFSOC/XPT tactics objectives for FDE projects.
- 4.3.3. ANG/XO and AFRC/DO will:
- 4.3.3.1. Task the AATC for TD&E project management involving ANG and AFRC resources.
  - 4.3.3.2. Approve and support ANG and AFRC unit participation in TD&E projects.
  - 4.3.3.3. Budget for and provide funding, flying hours, and man-days for ANG and AFRC unique TD&E projects.
- 4.3.4. MAJCOM/IN will:
- 4.3.4.1. Evaluate intelligence information for possible effect on tactical operations. MAJCOM/DO will be immediately notified of such information.
  - 4.3.4.2. Levy appropriate Collection Requirements and Production Requirements to national intelligence agencies to obtain and document required data on enemy capabilities, doctrine, and tactics.
  - 4.3.4.3. Disseminate enemy tactics information to subordinate units through appropriate intelligence channels.
- 4.3.5. HQ AFSOC/XP will:
- 4.3.5.1. Ensure test management responsibilities are executed through HQ AFSOC/XPT IAW applicable test directives.
  - 4.3.5.2. Be the single source of tasking for AFSOC tests.

4.3.6. MAJCOM staff agencies will:

4.3.6.1. Identify tactical information, suspected tactical deficiencies, or proposed improvements to MAJCOM/DO.

4.3.6.2. Coordinate all tactics related items through MAJCOM/DO.

4.3.7. MAJCOM/DOT (DOF for AETC) will:

4.3.7.1. Be the MAJCOM focal point for tactics development activities.

4.3.7.2. Be MAJCOM OPR for AFTTP 3-1 and other tactics development directives.

4.3.7.3. Maintain liaison to ensure tactician participation in applicable phases of equipment acquisition.

4.3.7.4. Maintain liaison with HQ AFSOC/XPT or MAJCOM/DOT point of contact to ensure concepts of employment are published prior to the initiation of FDE projects and provide early identification of development projects that require tactician involvement.

4.3.7.5. Assist in coordinating and/or scheduling munitions, ranges, operational unit support, and waivers for TD&E projects.

4.3.7.6. Initiate requests for inputs necessary to meet the AFSOF/CSAR TRB timetable.

4.3.7.7. Maintain liaison with other MAJCOMs to ensure a timely flow of tactics information.

4.3.7.8. Provide MAJCOM recommendation on the proposed course of action, timetables, etc., for all TIPs submitted.

4.3.8. HQ AFSOC/DOT will:

4.3.8.1. Appoint an AFSOC tactics officer to act as program manager for the AFSOF/CSAR tactics development program.

4.3.8.2. Chair the annual AFSOC Weapons and Tactics Conference and AFSOF/CSAR TRB.

4.3.8.3. Provide copies of TIPs to 18 FLTS when requested.

4.3.8.4. Document AFSOF/CSAR TRB action on TIPs and return all TIPs to MAJCOMs, wings, or groups.

4.3.8.5. Coordinate all TD&E efforts with HQ AFSOC/XPT.

4.3.8.6. Coordinate aircrew training needs, budget for training device modifications, and courseware development when implementing new tactics.

4.3.9. 18 FLTS will:

4.3.9.1. Program and accomplish TD&Es by establishing and adhering to suspense for planning, executing, and reporting TD&Es assigned by electronic project orders.

4.3.9.2. Program for future TD&E projects and required funding during budget submissions.

4.3.9.3. Submit TD&E interim and/or final reports IAW AFI 99-102 (will be replaced by AFI 99-103).

4.3.9.4. Identify tactics deficiencies or propose new tactics by submission of a TIP.

- 4.3.9.5. Screen reports and project results for applicable information, and process that information for dissemination in AFTTP 3-1 and/or changes to AFTTP 3-1.
- 4.3.9.6. Supply and solicit tactical expertise in their specialized areas to support TD&E efforts by other test units, as tasked by HQ AFSOC.
- 4.3.9.7. Provide representation at the AFSOF/CSAR TRB, as required.
- 4.3.9.8. Assign a project officer to each TD&E and FDE project.
- 4.3.10. AATC Responsibilities. AATC is responsible to ANG/XO and HQ AFRC/DO for applicable items listed in paragraph 4.3. ANG/XO and HQ AFRC/DO will sponsor the ANG and AFRC WEPTAC. AATC will host the WEPTAC. The WEPTAC will evaluate ANG and AFRC TIPs. AATC will forward TIPs approved at the WEPTAC for consideration at the AFSOF/CSAR TRB. The AFSOF/CSAR TRB will review ANG/AFRC TIPs for applicability and support of active duty units.
- 4.3.11. All operational and training units will:
  - 4.3.11.1. Continually evaluate tactical information available to support the conduct of assigned or expected wartime tasking, specifically analyzing the completeness of information, its validity in today's environment, and usability of format.
  - 4.3.11.2. Use all available opportunities to exercise validated tactics, i.e., continuation training, Red Flag, Joint Readiness Exercises, and Weapons School Mission Employment.
  - 4.3.11.3. Report undocumented tactics or tactical problem areas or propose new tactics by submission of a TIP.
  - 4.3.11.4. Support and send representatives to applicable AFTTP 3-1/3 re-write conference.
  - 4.3.11.5. Support and send representatives for AFSOF/CSAR Weapons and Tactics Conference.
  - 4.3.11.6. Conduct an annual Tactics Review Board as described in paragraph 1.4.2. of this instruction.
- 4.3.12. MAJCOM Project Monitors. Will work closely with project managers to ensure headquarters support for the project and timely coordination/approval of support requests.

## 5. Information Collections, Records, and Forms:

- 5.1. Information Collections. The reporting requirement in this publication is exempt from licensing in accordance with AFI 33-324, The Information Collections and Reports Management Program; Controlling Internal, Public, and Interagency Air Force Information Collections, para 2.11.5.
- 5.2. Records. Disposition of records will be in accordance with AFMAN 37-139, Table 61-5, Rules 2, 2.02 – 2.04, and 3.
- 5.3. Forms:
  - 5.3.1. Prescribed Forms. AF Information Management Tool (IMT) 4326, **Tactic Improvement Proposal** (formerly MC Form 1007).

5.3.2. Adopted Forms. AF Form 847, **Recommendation for Change of Publication**; AF Form 1067, **Modification Proposal**; and AFTO Form 22, **Technical Manual (TM) Change Recommendation and Reply**.

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

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

- AFDD 1-2 (<http://www.e-publishing.af.mil/pubfiles/af/dd/afdd1-2/afdd1-2.pdf>), *Air Force Glossary*
- AFTTP 3-1.1, *General Planning and Employment Considerations* (Classified)
- AFMD 5 (<http://www.e-publishing.af.mil/pubfiles/af/md/afmd5/afmd5.pdf>), *Air Force Space Command*
- AFMD 6 (<http://www.e-publishing.af.mil/pubfiles/af/md/afmd6/afmd6.pdf>), *Air Force Special Operations Command*
- AFSPCI 10-169, (<http://www.e-publishing.af.mil/pubfiles/afspc/10/afspci10-169/afspci10-169.pdf>), *Tactics Development Program For Operational Systems*
- AFPD 10-9 (<http://www.e-publishing.af.mil/pubfiles/af/10/afpd10-9/afpd10-9.pdf>), *Lead Operating Command Weapon Systems Management*
- AFI 10-601 (<http://www.e-publishing.af.mil/pubfiles/af/10/afi10-601/afi10-601.pdf>), *Mission Needs and Operational Requirements Guidance and Procedures*
- AFPD 11-2 (<http://www.e-publishing.af.mil/pubfiles/af/11/afpd11-2/afpd11-2.pdf>), *Aircraft Rules and Procedures*
- AMCI 11-207, (<http://www.e-publishing.af.mil/pubfiles/amc/11/amci11-207/amci11-207.pdf>), *AMC Tactics Program*
- AFSOCI 11-207, (<https://www.afsoc.af.mil/milonly/library1/afsoc/11/AFSOCI11-207.pdf>), *AFSOC Tactics Program*
- AFI 11-415 (<http://www.e-publishing.af.mil/pubfiles/af/11/afi11-415/afi11-415.pdf>), *Weapons and Tactics Program*
- AFMD 21 (<http://www.e-publishing.af.mil/pubfiles/af/md/afmd21/afmd21.pdf>), *Air Force Intelligence Analysis Agency (AFIAA)*
- AFPD 21-3 (<http://www.e-publishing.af.mil/pubfiles/af/21/afpd21-3/afpd21-3.pdf>), *Technical Orders*
- AFI 33-324 (<http://www.e-publishing.af.mil/pubfiles/af/33/afi33-324/afi33-324.pdf>), *The Information Collections and Reports Management Program; Controlling Internal, Public, and Interagency Air Force Information Collections*
- AFI 36-2217 (<http://www.e-publishing.af.mil/pubfiles/af/36/afi36-2217/afi36-2217.pdf>), *Munitions Requirements for Aircrew Training*
- AFI 61-201 (<http://www.e-publishing.af.mil/pubfiles/af/61/afi61-201/afi61-201.pdf>), *The Local Scientific and Technical Information Process*
- AFI 61-202 (<http://www.e-publishing.af.mil/pubfiles/af/61/afi61-202/afi61-202.pdf>), *United States Air Force Technical Publications Program*

AFI 61-204 (<http://www.e-publishing.af.mil/pubfiles/af/61/afi61-204/afi61-204.pdf>), *Disseminating Scientific and Technical Information*

AFI 63-114 (<http://www.e-publishing.af.mil/pubfiles/af/63/afi63-114/afi63-114.pdf>), *Rapid Response Process*

AFI 91-205 (<http://www.e-publishing.af.mil/pubfiles/af/91/afi91-205/afi91-205.pdf>), *Non-Nuclear Munitions Safety Board*

AFPD 99-1 (<http://www.e-publishing.af.mil/pubfiles/af/99/afpd99-1/afpd99-1.pdf>), *Test and Evaluation Process*

AFI 99-102 (<http://www.e-publishing.af.mil/pubfiles/af/99/afi99-102/afi99-102.pdf>), *Operational Test and Evaluation* (will be replaced by AFI 99-103).

AFI 99-103, *Air Force Test and Evaluation* (under development [OPR: HQ USAF/TEP])

AFI 99-106 (<http://www.e-publishing.af.mil/pubfiles/af/99/afi99-106/afi99-106.pdf>), *Joint Test and Evaluation*

T.O. 00-5-1 ([https://wpafbres34.wpafb.af.mil/aftox/AFTOX\\_DOCUMENTS/index.cfm](https://wpafbres34.wpafb.af.mil/aftox/AFTOX_DOCUMENTS/index.cfm)), *Air Force Technical Order System*

T.O. 00-35D-54 ([https://wpafbres34.wpafb.af.mil/aftox/AFTOX\\_DOCUMENTS/index.cfm](https://wpafbres34.wpafb.af.mil/aftox/AFTOX_DOCUMENTS/index.cfm)), *USAF Deficiency Reporting and Investigating System*

Test Reports Web Site Addresses:

53 WG: <http://www.53wg.eglin.af.smil.mil>

AATC: <http://fstqkd98.orport.ang.af.smil.mil/aatc>

AMC/TES: <http://amtase.fort-dix.af.smil.mil>

18 FLTS: <http://www.afsoc.af.smil.mil/18flts>

### *Abbreviations and Acronyms*

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

**ACC**—Air Combat Command

**ACTD**—Advanced Concept Technology Demonstration

**AETC**—Air Education and Training Command

**AF**—Air Force

**AFB**—Air Force Base

**AFC2ISRC**—Air Force Command and Control and Intelligence, Surveillance, Reconnaissance Center

**AFDD**—Air Force Doctrine Document

**AFI**—Air Force Instruction

**AFIWC**—Air Force Information Warfare Center

**AFMD**—Air Force Mission Directive

**AFOTEC**—Air Force Operational Test and Evaluation Center  
**AFPD**—Air Force Policy Directive  
**AFRC**—Air Force Reserve Command  
**AFSOC**—Air Force Special Operations Command  
**AFSPC**—Air Force Space Command  
**AFTTP**—Air Force Tactics, Techniques, and Procedures  
**AMC**—Air Mobility Command  
**ANG**—Air National Guard  
**ATD**—Advanced Technology Demonstration  
**AWFC**—Air Warfare Center  
**CAF**—Combat Air Forces  
**CFACC**—Combined Forces Air and Space Component Commander  
**CSARF**—Combat Search and Rescue Forces  
**C-MNS**—Combat Mission Needs Statement  
**COMACC**—Commander, Air Combat Command  
**CPO**—Consolidated Planning Order  
**CT**—Continuation Training  
**CY**—Calendar Year  
**DO**—Director of Operations  
**DOD**—Department of Defense  
**DR**—Director of Requirements  
**DRP**—Policy and Resources Division  
**DRU**—Direct Reporting Unit  
**DT&E**—Developmental Test and Evaluation  
**DTIC**—Defense Technical Information Center  
**EPO**—Electronic Project Order  
**FCT**—Foreign Comparative Test  
**FDE**—Force Development Evaluation  
**FME**—Foreign Material Exploitation  
**FOT&E**—Follow-on Operational Test and Evaluation  
**FY**—Fiscal Year  
**HQ**—Headquarters

**IAW**—In Accordance With  
**IMT**—Information Management Tool  
**IOT&E**—Initial Operational Test and Evaluation  
**IPT**—Integrated Process Team  
**JT&E**—Joint Test and Evaluation  
**MAJCOM**—Major Command  
**MA**—Mission Area  
**MAF**—Mobility Air Forces  
**MDS**—Mission Design Series  
**MNS**—Mission Needs Statement  
**NAF**—Numbered Air Force  
**NGB**—National Guard Bureau  
**NIPRNET**—Non-Secure Internet Protocol Router Network  
**NLT**—No Later Than  
**OA**—Operational Assessment  
**OFP**—Operational Flight Program  
**OG**—Operations Group  
**OPR**—Office of Primary Responsibility  
**OT&E**—Operational Test and Evaluation  
**OUE**—Operational Utility Evaluation  
**PACAF**—Pacific Air Forces  
**PE**—Program Element  
**PMD**—Program Management Directive  
**POC**—Point of Contact  
**POM**—Program Objective Memorandum  
**PSU**—Primary Subordinate Unit  
**QOT&E**—Qualification Operational Test and Evaluation  
**QT&E**—Qualification Test and Evaluation  
**RDS**—Records Disposition Schedule  
**ROM**—Rough Order of Magnitude  
**STINFO**—Scientific and Technical Information Program  
**SIPRNET**—Secret Internet Protocol Router Network

**TD&E**—Tactics Development and Evaluation

**T&E**—Test and Evaluation

**TEG**—Test Evaluation Group

**TIP**—Tactic Improvement Proposal

**T.O.**—Technical Order

**TPL**—Test Priority List

**TPO**—Test Program Outline

**TRB**—Tactics Review Board

**USAFE**—United States Air Forces in Europe

**WEPTAC**—Weapons and Tactics Conference

**WG**—Wing

**WR**—Weapons Review

**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.

**CAF Test Priority List**—An annual list approved by the HQ ACC/DR that identifies the relative priority of all active and projected FY “XX” T&E projects for a given fiscal year. HQ ACC/DRPT is the OPR for producing the priority list.

**Electronic Project Order**—A formal headquarters document, hosted in a web-based system that authorizes the test center to participate in a project. EPOs are issued for all T&E projects.

**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. FDE may also support full-rate production or fielding decisions for new systems acquisition when AFOTEC-conducted OT&E is not done.

**Initial Operational Test and Evaluation (IOT&E)**—**1.** The field test, under realistic combat conditions, of any item of (or key component of) weapons, equipment, or munitions for the purpose of determining the effectiveness and suitability of the weapons, equipment, or munitions for use in combat by typical military users; and the evaluation of the results of such test. (Title 10 §139(a)(2)) **2.** Testing and evaluation conducted in as realistic an operational environment as possible to estimate the prospective system's operational effectiveness and operational suitability. In addition, OT&E provides information on organization, personnel requirements, doctrine, and tactics. It may also provide data to support or verify material in operating instructions, publications, and handbooks. (Air Force Doctrine Document [AFDD] 1-2, *Air Force Glossary*) **NOTE:** This definition may be used for OT&E.

**National Guard Bureau (NGB) and Air Force Reserve Command (AFRC) Project Officer**—An individual assigned to the NGB 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.

**Project Manager**—An individual assigned to the Air Warfare Center (AWFC), the Aerospace Command and Control Intelligence, Surveillance and Reconnaissance Center (AC2ISRC), the Air Force Information Warfare Center (AFIWC), or the Air National Guard Air Force Reserve Test Center (AATC) who is directly responsible for the management and coordination of all activities associated with the planning, conducting, and reporting for the assigned project.

**Qualification Operational Test and Evaluation (QOT&E)**—A tailored type of IOT&E performed on systems for which there is little to no RDT&E-funded development effort. Commercial-off-the-shelf (COTS), non-developmental items (NDI), and government furnished equipment (GFE) are tested in this manner. (AFPD 99-1)

**Tactics Development and Evaluation (TD&E)**—TD&E is the formal portion of a CAF tactics development program designed to fully exploit a system's capability. It includes research, analysis, development, test, and evaluation of a specific employment tactic against anticipated threats.

**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. T&E refers to testing directed by the MAJCOM to conduct primarily, but not necessarily limited to, 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. OT&E-related activities include operational assessments (OA), operational utility evaluations (OUE), foreign material exploitation (FME), and test support for technology transition mechanisms. Technology transition mechanisms include advanced technology demonstrations (ATD), battlelab initiatives (BI), advanced concept technology demonstrations (ACTD), and exercises and experiments.

**Test Director**—An individual assigned to Air Force Operational Test and Evaluation Center (AFOTEC) or AFMC 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.

**Unit Project Officer**—An individual assigned to AWFC, AC2ISRC, AFIWC, or AATC that directs a test team in the execution of OT&E.

**Attachment 2**

**AF INFORMATION MANAGEMENT TOOL 4326 INSTRUCTIONS**

**A2.1. Instructions for completion of AF Information Management Tool (IMT) 4326 (Formerly MC Form 1007).**

**Figure A2.1. Sample AF IMT 4326 With Instructions.**

<b>TACTIC IMPROVEMENT PROPOSAL</b>		<b>MAJCOM ASSIGNED CONTROL NUMBER</b> CY-XXX (for MAJCOM use)
<b>TO (MAJCOM Tactics Organization):</b> MAJCOM/DOTW (or equivalent)	<b>FROM (Unit/Organization):</b> Submitter's unit/organization	<b>DATE</b> Day/Month/Year
<b>SYSTEM-MDS</b> Aircraft/Systems, etc.	<b>OTHER AFFECTED SYSTEMS</b> Aircraft/Systems, etc.	
<b>TITLE</b> Provide short title of TIP		
<b>DESCRIPTION OF TACTIC DEFICIENCY/PROBLEM</b> Provide details on the problem so that the reader can understand/evaluate the validity of the proposed solution.		
<b>DESCRIPTION OF TACTICAL SOLUTION</b> Provide details on the proposed solution. This paragraph should contain a logical answer to solving the problem/tactical deficiency identified in the previous paragraph.		
<b>OBJECTIVES</b> Provide specific objectives as it relates to the performance on the proposed solution. Objectives should be measurable and describe the purpose of the test.		
NAME (Last, First MI. Rank) AND ORGANIZATION	E-mail Address	Phone

<b>SQUADRON</b> <input type="checkbox"/> <b>CONCUR</b> <input type="checkbox"/> <b>CONCUR w/ INTENT</b> <input type="checkbox"/> <b>DO NOT CONCUR</b>	
Mandatory remarks are required if TRB selects "concur w/intent" or "do not concur".	
REVIEWED BY (Name/Rank) Squadron TRB Chair	DATE
<b>GROUP RECOMMENDATION</b> <input type="checkbox"/> <b>CONCUR</b> <input type="checkbox"/> <b>CONCUR w/ INTENT</b> <input type="checkbox"/> <b>DO NOT CONCUR</b>	
Mandatory remarks are required if TRB selects "concur w/intent" or "do not concur".	
REVIEWED BY (Name/Rank) Group TRB Chair	DATE
<b>WING RECOMMENDATION</b> <input type="checkbox"/> <b>CONCUR</b> <input type="checkbox"/> <b>CONCUR w/ INTENT</b> <input type="checkbox"/> <b>DO NOT CONCUR</b>	
Mandatory remarks are required if TRB selects "concur w/intent" or "do not concur".	
REVIEWED BY (Name/Rank) Wing TRB Chair	DATE
<b>MAJCOM/NAF RECOMMENDATION</b> <input type="checkbox"/> <b>CONCUR</b> <input type="checkbox"/> <b>CONCUR w/ INTENT</b> <input type="checkbox"/> <b>DO NOT CONCUR</b>	
Mandatory remarks are required if TRB selects "concur w/intent" or "do not concur".	
REVIEWED BY (Name/Rank) MAJCOM/NAF TRB Chair	DATE

<b>AFSOF/MAF RECOMMENDATION</b> <input type="checkbox"/> CONCUR <input type="checkbox"/> CONCUR w/ INTENT <input type="checkbox"/> DO NOT CONCUR <input type="checkbox"/> N/A Mandatory remarks are required if TRB selects “concur w/intent” or “do not concur”. N/A will be used when a TIP is deemed CAF-related and therefore is not routed through the AFSOF/MAF TRB.	
REVIEWED BY (Name/Rank) AFSOF/MAF Working Group Chair	DATE
<b>CAF TRB ACTION</b> <input type="checkbox"/> CONCUR <input type="checkbox"/> CONCUR w/ INTENT <input type="checkbox"/> DO NOT CONCUR <input type="checkbox"/> N/A Mandatory remarks are required if TRB selects “concur w/intent” or “do not concur”. N/A will be used when a TIP is deemed AFSOF or MAF-related and is not routed through the CAF TRB.	
REVIEWED BY (Name/Rank) CAF Working Group Chair	DATE