SUMMARY of CHANGE

AR 95-1
Flight Regulations

This major revision, dated 11 March 2014--

- Renames United States Army Aviation Warfighter Center to United States Army Aviation Center of Excellence (para 1-11).

- Transfers responsibilities from Chief, National Guard Bureau to Director, Army National Guard (para 1-14).

- Allows nonrated crewmembers to start, runup, and shutdown nonstandard rotary wing aircraft provided that they are trained and integrated in accordance with approved nonstandard rotary wing technical, training, and standardization publications (para 2-2b(2)).

- Incorporates Department of the Army medical evacuation guidance contained in Headquarters, Department of the Army message 190135Z, dated November 2009, and use of Army aeromedical evacuation aircraft contained in Headquarters, Department of the Army message 292252Z, dated January 2009 (para 2-14).

- Establishes requests to use air ambulance aircraft for missions other than in support of the aeromedical or humanitarian relief missions be forwarded to Deputy Chief of Staff, G-3/5/7 (DAMO-AV) for approval (para 3-3n(4)).

- Consolidates orientation flight requirements and procedures into the special mission use section and separates the approval process for flyovers at memorial or funeral services (chap 3).

- Authorizes commanders in the grade of O-6 and above, including state Army aviation officers for Army National Guard, to approve Federal Aviation Administration employees engaged in flight checks or examining rated crew personnel using U.S. Army aircraft. Use of Army aircraft to exclusively obtain or renew an Federal Aviation Administration rating is prohibited (para 3-4f(8)).

- Establishes commanders in the grade of O-6 and above, including state aviation officers for Army National Guard, as the approval authority for Federal Aviation Administration personnel to conduct flight checks or examine rated Army personnel as outlined in DOD 4515.13-R (para 3-4).

- Clarifies individual waiver requirements for aircraft Aircrew Training Program requirements and completion of instrument evaluation within Aircrew Training Program year (para 4-2) and restrictions to aviation duties if an extension is granted (para 4-10).

- Clarifies Department of the Army civilian crewmembers minimum flying hours, task, and iteration requirements and task standards and descriptions will be in accordance with the applicable aircraft aircrew training manual (para 4-5d).
- Updates aircraft and compatibility synthetic flight training systems (table 4-1).
- Updates the aircraft mission survivability training program requirements (para 4-15).
- Clarifies use of commercial and/or non-U.S. instrument procedures and compliance review requirements (chap 5).
- Authorizes the use of approved electronic flight bags and/or flight information publications may also be used (para 5-1h(5)).
- Clarifies comparable weight and balance courses as formal or institutional training from other DOD Service schools, Federal Aviation Administration, and/or National Transportation Safety Board sanctioned or original equipment manufacturer specific training for a particular airframe (para 7-2a).
- Aligns operations with litter support systems removed with seats out operations for approval and requires operation of litter restraining straps according to aircraft technical publications (para 8-11).
- Clarifies authorization requirements for infiltration and exfiltration operations that require removal of troop seats (para 8-11a(4)(d)).
- Prohibits personnel from being tethered or attached to the outside of an aircraft in flight. Exceptions are authorized with an approved Airworthiness Release and per exception guidance (para 8-11f).
- Updates process to determine fixed wing life cycle contractor support contract hours to provide more flexibility and better financial management of the fixed wing flying hour program (para 10-2).
- Makes administrative changes (throughout).
Aviation
Flight Regulations

Proponent and exception authority. The proponent of this regulation is the Deputy Chief of Staff, G–3/5/7. The proponent has the authority to approve exceptions or waivers to this regulation that are consistent with controlling law and regulations. The proponent may delegate this approval authority, in writing, to a division chief within the proponent agency or its direct reporting unit or field operating agency, in the grade of O–6 or the civilian equivalent. Activities may request a waiver to this regulation by providing justification that includes a full analysis of the expected benefits and must include formal review by the activity’s senior legal officer. All waiver requests will be endorsed by the commander or senior leader of the requesting activity and forwarded through their higher headquarters to the policy proponent. Refer to AR 25–30 for specific guidance.

Army internal control process. This regulation contains internal control provisions in accordance with AR 11–2 and identifies key internal controls that must be evaluated (see appendix D).

Supplementation. Supplementation of this regulation and establishment of command and local forms are prohibited without prior approval from the Deputy Chief of Staff, G–3/5/7 (DAMO–AV), 400 Army Pentagon, Washington, DC 20310–0400.

Suggested improvements. Users are invited to send comments and suggested improvements on DA Form 2028 (Recommended Changes to Publications and Blank Forms) directly to the Headquarters, Department of the Army, Deputy Chief of Staff, G–3/5/7, 400 Army Pentagon, Washington, DC 20310–0400.

Committee management. AR 15–1 requires the proponent to justify establishing/continuing committee(s), coordinate draft publications, and coordinate changes in committee status with the U.S. Army Resources and Programs Agency, Department of the Army Committee Management Office (AARP–ZA), 9301 Chapek Road, Building 1458, Fort Belvoir, VA 22060–5527. Further, if it is determined that an established “group” identified within this regulation, later takes on the characteristics of a committee, as found in AR 15–1, then the proponent will follow all AR 15–1 requirements for establishing and continuing the group as a committee.

Distribution. This regulation is available in electronic media only and is intended for command levels A, B, C, D, and E for the Active Army, the Army National Guard/Army National Guard of the United States, and the U.S. Army Reserve.
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Chapter 1
Introduction

Section I
General

1–1. Purpose
This regulation establishes policy and procedures for Army aircraft operations, flight rules, crew requirements, and general aviation provisions. It defines aircrew training and equipment requirements, standardization programs, and management of aviation resources. Also, this regulation covers procedures for safety of flight (SOF) messages, aviation safety action messages (ASAMs), and other aviation safety processes.

1–2. References
Required and related publications and prescribed and referenced forms are listed in appendix A.

1–3. Explanation of abbreviations and terms
Abbreviations and terms used in this regulation are explained in the glossary.

Section II
Responsibilities

1–4. Secretary of the Army
The SA, or authorized representative, unless otherwise stated in this regulation will reserve all authority and final approval for Army aviation and will be responsible for Operational Support Airlift (OSA) management.

1–5. Assistant Secretary of Defense (Public Affairs)
The Assistant Secretary of Defense (Public Affairs) will approve requests to engage in public demonstrations.

1–6. Assistant Secretary of the Army (Financial Management and Comptroller)
The ASA (FM&C) will prepare and publish Army cost comparison rates and Army aircraft reimbursement rates annually and provide cost analysis support to OSA management and other agencies on request.

1–7. Chief of Staff, Army or Vice Chief of Staff of the Army
The CSA or VCSA will approve Army-wide grounding of a majority or an entire mission, type, design, and series fleet of aircraft. This authority is defined in chapter 6.

1–8. Administrative Assistant to the Secretary of the Army
The Administrative Assistant to the Secretary of the Army will provide policy guidance on the use of OSA aircraft, including Service Secretary Controlled Aircraft assigned to the U.S. Army Priority Airlift (USAPAT) Detachment.

1–9. Deputy Chief of Staff, G–3/5/7
The Deputy Chief of Staff (DCS), G–3/5/7 will have staff responsibility for Army aviation, to include the following:

a. Selected waiver authority limited to those items referenced in paragraph 1–23 of this regulation.
b. Aviation operations and management (see chap 2 and chap 3 of this regulation).
c. OSA, including—
   (1) Establishing objective wartime requirements for OSA.
   (2) Reviewing annually the continuing need for OSA aircraft inventory.
   (3) Determining future OSA aircraft stationing and structure.
   (4) Reporting Army OSA Flying Hour Program (FHP) execution during the quarterly Program Performance and Budget Execution Review and overseeing centralized scheduling for Army OSA with the exception of executive jet scheduling. (All OSA procedures are covered in chap 3.)
d. Headquarters, Department of the Army (HQDA)-level staff responsibility for aviation training and flight procedures (see chap 4 and chap 5).
e. The exercise of final approval authority for deviations from the standard Army aircraft baseline configuration (see chap 6).
f. Aviation life support (see chap 8).
g. Nonstandard aircraft (see chap 9).
h. The Army FHP (see chap 10).
1–10. Deputy Chief of Staff, G–4
The DCS, G–4 will—
   a. Have staff responsibility for SOF messages and ASAMs (see chap 6)
   b. Have staff responsibility for weight and balance (see chap 7).
   c. Develop policies and identify responsibilities for the Army Equipment Safety and Maintenance Notification System.
   d. Serve as the Army staff proponent for the Army Equipment Safety and Maintenance Notification System.
   e. Establish responsibility for developing an effective tracking and reporting system or method for appropriate feedback of safety and maintenance issues on fielded systems from the user to the combat and materiel developer and the U.S. Army Combat Readiness Center.
   f. Coordinate, as applicable, with appropriate HQDA staff elements, all safety and maintenance messages.
   g. Provide information on impacts to fleet readiness percentages by Army commands (ACOMs), Army service component commands (ASCCs), direct reporting units (DRUs), or the Army National Guard (ARNG) (data obtained from the Logistics Support Activity or Weapon System Program Managers (PMs)).
   h. Establish responsibility for an internal tracking system for all safety and maintenance messages that record ACOM, ASCC, DRU, or ARNG compliance.
   i. Arbitrate conflicts during message generation through message issue and provide clear guidance.

1–11. Commanding General, U.S. Army Aviation Center of Excellence
The CG, USAACE will serve as—
   a. The agency for submitting changes to selected AR 95-series publications.
   b. The Department of the Army (DA) preparing agency for aviation training and standardization literature.
   c. The proponent agency for the U.S. Army Aviation Standardization Program (see chap 4)

1–12. Commander, Aviation and Missile Command
Commander, AMCOM will—
   a. Report SOF messages and/or ASAM conditions for issuance of SOF and ASAMs (see chap 6 and AR 750–6).
   b. Be the technical proponent for all Army aviation weight and balance (see chap 7).
   c. Designate Program Executive Office (PEO) Aviation to serve as the overall configuration control manager of standard Army aircraft (see chap 6).

1–13. The Surgeon General
The Surgeon General will coordinate health hazard assessment and other medical and nonmedical aspects relating to Aviation Life Support Systems (ALSS) (see chap 8).

1–14. Director, Army National Guard
DARNG will—
   a. Support missions and establish procedures for OSA.
   b. Retransmit SOF and ASAM messages (see chap 6).
   c. Exercise responsibility for the safety and standardization of Army National Guard (ARNG) Aviation in accordance with this regulation.

CG, AMC will—
   a. Supervise the direction of overall command activities involving aviation weight and balance (see chap 7).
   b. Serve as the DA point of contact for all aviation life support equipment (ALSE) management (see chap 8).
   c. Designate PEO Aviation to serve as the platform configuration control manager of the aircraft under the control of their PMs (see chap 6).

1–16. Commanding General, U.S. Training and Doctrine Command
CG, TRADOC, in coordination with other HQDA agencies, will—
   a. Develop and recommend the doctrine, concepts, material requirements, and organization of Army aviation elements.
   b. Develop training, standardization, and evaluation literature for aircrew training programs (see chap 4).
   c. Oversee the overall training of aviation weight and balance (see chap 7).
   d. Oversee the doctrine, training, and material needs for ALSS (see chap 8).
1–17. Commander, Operational Support Airlift Agency
Commander, OSAA will schedule Army requirements for OSA support.

1–18. Commander, U.S. Army Test and Evaluation Command
Commander, U.S. Army Test and Evaluation Command will—
   a. Serve as the DA point of contact for engineering and or experimental test pilot issues.
   b. Assist the Commander, USAACE with the development of experimental test pilot training and standardization.

1–19. Commander, U.S. Special Operations Command
Commander, U.S. Special Operations Command will serve as the proponent responsible for the development of training and operational requirements for special purpose insertion and extraction operations such as Fast Rope Insertion Extraction System (FRIES), Special Patrol Insertion Extraction System (SPIES), and Short Tactical Airborne Operations (STABO) with the U.S. Army Special Operations Command acting as the lead agent for these operations. Qualification and sustainment training will be in accordance with their publications for ground forces and aviation operations will be per specific aircraft aircrew training manuals (ATMs).

1–20. Commanders of Army commands, Army service component commands, and direct reporting units
The commanders of ACOMs, ASCCs, and DRUs will—
   a. Maintain individual flight records (see chap 2).
   b. Oversee OSA (see chap 3).
   c. Monitor the Army Aviation Standardization Program (see chap 4).
   d. Oversee SOF and/or ASAMs (see chap 6).
   e. Implement ALSS policies and procedures (see chap 8).
   f. Be responsible for their nonstandard aircraft (see chap 9).
   g. Manage and report their FHP (see chap 10).

1–21. Internal control review checklist
   a. The regulation that prescribes policy, standards, responsibilities, and accountability for establishing and maintaining effective internal controls is AR 11–2. It also provides guidelines for the execution of the Army Internal Control Program.
   b. Appendix D is the applicable internal control evaluation checklist. Managers will use the checklist as daily guidance and will formally complete the checklist as scheduled by the HQDA functional proponents in the annually updated internal control plan. The checklist will be used following the guidance in AR 11–2. Specifically, it will—
      (1) Test whether prescribed controls are in place, operational, and effective. Analytical techniques, such as statistical sampling, should be used when appropriate to conserve resources.
      (2) Identify areas where additions or reductions to existing controls are needed.
      (3) Select corrective actions when deficiencies have been found that can be corrected locally.
      (4) Refer deficiencies that cannot be corrected locally to higher command levels for assistance in correcting.
      (5) Provide support for the commander’s annual statement on how adequate internal controls are within the organization.

1–22. Deviations
   a. Individuals may deviate from provisions of this regulation during emergencies.
   b. Individuals who deviate from the provisions of this regulation, Federal Aviation Administration (FAA), or host country regulations must report details of the incident directly to their unit commander. The incident must be reported within 24 hours after it occurs.
   c. Violations of Title 14, Code of Federal Regulations (CFR), International Civil Aviation Organization (ICAO), host country, and military aviation regulations will be treated per paragraph 2–13 of this regulation.

1–23. Waivers and delegation of authority
   a. Authority to grant waivers is stated in specific paragraphs of this regulation. Authority granted in this regulation to ACOM, ASCC, DRU commanders, and the ARNG may be further delegated by that commander or component Chief, except when expressly prohibited. All other commanders may not further delegate waiver authority unless authorized in the specific paragraph.
   b. When waiver authority is not specified in specific paragraphs, waivers may be granted to provisions in chapters 2, 3, 4, 5, 8, 9, and 10 only by the DCS, G–3/5/7 (DAMO–AV), 400 Army Pentagon, Washington, DC 20310–0400; and
Chapter 2
Aviation Management

2–1. Personnel authorized to fly Army aircraft
   a. The following personnel may fly Army aircraft:
      (1) Army aviators who—
         (a) Are members of the active components (ACs) and reserve components (RCs).
         (b) Are part of the rated inventory or are rated acquisition corps officers with a pilot status code of 1 in a valid FA 51*15Z position.
      (c) Have complied with qualification, training, evaluation, and currency requirements of this regulation (see chap 4), for the aircraft to be flown or, are performing pilot duties per paragraphs 2–4 or 3–4b(2) of this regulation.
      (2) Civilian employees of government agencies and government contractors who have satisfied all of the following:
         (a) Appropriate certifications or ratings.
         (b) Written authorization from the appropriate ACOM, ASCC, DRU commanders, or their delegated approval authority; the CG, USAACE for units assigned to USAACE; or the DARNG for ARNG units, or their delegated approval authority.
      (c) Complied with qualification training, evaluation, and currency requirements of this regulation (see chap 4) and/or the provisions of AR 95–20 (contractor personnel), the contract, and/or statement of work for the aircraft to be flown.
      (3) Aviators in other U.S. Services who—
         (a) Are in aviation service.
         (b) Have complied with qualification, training, evaluation, and currency requirements of their Service or of this regulation (see chap 4), for the aircraft to be flown or, are performing pilot duties in accordance with paragraph 3–4b(2) of this regulation.
      (c) Aviators of foreign services who—
         (a) Have completed the course of instruction prescribed by their service and have been awarded an aeronautical designation of aviator.
         (b) Complied with qualification training, evaluation, and currency requirements of their service or of this regulation (see chap 4), for the aircraft to be flown or, are performing pilot duties in accordance with paragraph 3–4b(2) of this regulation.
      (c) Have written authorization, including a disclaimer absolving the U.S. Government from liability (unless a disclaimer is included under the provisions of an approved exchange program) from their government. The appropriate host ACOM, ASCC, DRU, or ARNG must provide written authorization that will include, as a minimum, the purpose and duration of the authorization. If authorized to fly, they will be restricted from performing pilot-in-command duties unless serving in approved exchange officer positions established specifically for flying purposes.
      (5) Personnel listed in paragraphs 2–1a(1) through 2–1a(4) of this regulation, who are not qualified or current to operate the aircraft to be flown when receiving training or performing limited cockpit duties per paragraph 2–4 of this regulation or pilot duties per paragraph 3–4b(2) of this regulation must be directly supervised by an instructor pilot (IP), a standardization instructor pilot (SP), or instrument flight examiner (IE) who is qualified and current in the aircraft being flown and is at one set of flight controls.
      (6) Individuals receiving aviator instruction authorized by the DCS, G–3/5/7 (DAMO–AV). These people may operate Army aircraft when training under an approved program of instruction (POI) or Aircrew Training Program (ATP) with instructors designated by the Directorate of Evaluation and Standardization (DES).
      (7) Flight surgeons or aeromedical physician assistants in aviation service when in an aircraft not requiring more than one pilot as a minimum crew. In addition an IP must be at one set of flight controls.
   b. All Army aviators who are in aviation service per AR 600–105 must meet the annual physical requirements of AR 40–501, regardless of assignment.
   c. Procedures for award of aeronautical designations are stated in AR 600–105 and AR 600–106.

2–2. Personnel authorized to start, runup, and taxi Army aircraft
   a. The following personnel are authorized to start, runup, and taxi fixed wing (FW) aircraft:
      (1) Personnel listed in paragraphs 2–1a(1) through 2–1a(6) of this regulation.
      (2) Other personnel who meet the requirements of paragraph 3–20 of this regulation.
   b. The following personnel are authorized to start, runup, and shutdown helicopters:
(1) Personnel listed in paragraph 2–1a(1) through paragraph 2–1a(6) of this regulation.

(2) The nonrated crew members (NCMs) may start, runup, and shutdown nonstandard rotary wing (RW) aircraft provided they are trained in accordance with approved POIs and are integrated in accordance with approved nonstandard technical, training, and standardization publications.

c. Contractor personnel operating per AR 95–20 are authorized to start and runup aircraft under the provisions of the contract using procedures in accordance with the operator’s manual.

d. The chain of command must approve all aviation operations. Aviation operations are defined as any operation with intent to start the main aircraft engines. Contractor aviation operations will be approved per AR 95–20.

2–3. Crewmembers prohibited from performing aircrew duty

The following crewmembers are prohibited from performing aircrew duties:

a. Commissioned officers (other than warrant officers) in nonoperational aviation positions, except per paragraph 2–4 of this regulation and AR 570–4 or per paragraph 3–4b(2) of this regulation.

b. All crewmembers while attending nonflying courses of instruction of more than 90 days.

c. Those disqualified, temporarily suspended, or whose aviation service is administratively terminated (see AR 600–105 or AR 600–106).

d. Military aviators in an authorized leave status when employed by a contractor to serve as a crewmember.

e. Officers of other government agencies while on terminal leave from that agency and employed by a contractor to serve as a crewmember.

2–4. Aviators restricted to limited cockpit duty

a. Aviators ranked O–6 in nonoperational aviation positions and general officers who hold a U.S. military aeronautical designation may perform cockpit duties on a limited basis provided requirements specified in AR 570–4 are met. Officers performing such duties will—

(1) Maintain a current flight physical per AR 40–501.

(2) Fly with an IP qualified and current in that aircraft at one set of flight controls.

(3) Submit an annual request to the appropriate ACOM, ASCC, or DRU commander, head of Joint or Defense activity, Director of the Army Staff, head of the Army Staff agency, or ARNG as appropriate for approval. Information copies of the approved request will be sent to the DCS, G–1 (DAPE–PRP), 300 Army Pentagon, Washington DC 20310–0300, and the DCS, G–3/5/7 (DAMO–AV), 400 Army Pentagon, Washington, DC 20310–0400, and Human Resources Command (AHRC–O–A–V), 1600 Spearhead Division Avenue, Fort Knox, KY 40122–5407.

b. Other ATP, Synthetic Flight Training Systems (SFTS), and annual proficiency and readiness test (APART) requirements do not apply to officers performing duties per this paragraph.

2–5. Aircrew and maintenance checklists

a. The publications and forms required by DA Pam 738–751 will be in each aircraft.

b. Operator and crewmember checklists will be used for preflight through before leaving aircraft checks. While airborne, when time does not permit use of the checklist or when its use would cause a safety hazard, required checks may be accomplished from memory.

c. Checklists will be used while making maintenance operational checks, maintenance test flights, and preventive maintenance inspections.

d. Only DA-approved operator’s manuals and checklists will be used, except as specified in paragraph 9–5 of this regulation.

2–6. Logging flying time

An entry will be made on DA Form 2408–12 (Army Aviator’s Flight Record) for each flight in aircraft and flight simulators by all crewmembers indicating duties performed, mission, and flight condition.

a. Aircrew duty. Use the following symbols to record flight time in aircraft and flight simulators when qualified per chapter 4, section II of this regulation and for flights in the aircraft when designated on the mission brief sheet to perform the duties specified by the symbol. Crew members instructing or evaluating without access to the flight controls will use the symbol for the duty being performed.

(1) Rated crewmembers.

(a) Pilot (PI).

(b) Co-pilot (CP). When briefed, this symbol may be used by more than one aviator performing co-pilot duties.

(c) Pilot-in-command (PC). The symbols maintenance test pilot (MP), maintenance test pilot evaluator (ME), experimental test pilot (XP), unit trainer (UT), IE, IP, or SP may also be used to designate the pilot-in-command (PC). If any of these additional symbols are mixed or duplicated on the same aircraft, the mission brief sheet must clearly indicate which aviator is the pilot-in-command. The PC may only be logged by one aviator at the controls.
(d) **Maintenance test pilot (MP).** This symbol may be used by both aviators, if qualified, on functional test flights when authorized by the mission brief sheet.

(e) **Experimental test pilot (XP).** This symbol may be used by both aviators on experimental test flights when assigned to a designated testing organization or activity and authorized by the mission brief sheet.

(f) **Unit trainer (UT).**

(g) **Instrument examiner (IE).** When briefed, this symbol may be used by more than one aviator performing IE duties.

(h) **Instructor pilot (IP).** When briefed, this symbol may be used by more than one aviator performing IP duties.

(i) **Maintenance test pilot evaluator (ME).** This symbol may be used by both MEs on functional test flights when authorized by the mission brief sheet.

(j) **Standardization instructor pilot (SP).** When briefed, this symbol may be used by more than one aviator performing SP duties.

(2) **Nonrated crewmembers.** NCMs use the following symbols to record flight time when qualified and designated on the mission brief sheet to perform the duties specified by the symbol.

(a) **Crew chief (CE), aircraft mechanic, and noncrewmembers specified below, and in the unit’s ATP.**

(b) **Flight medic (MO), aeromedical physician assistant, flight surgeon, or other medical personnel (MO).**

(c) **Flight engineer (FE).**

(d) **Unit trainer (UT).**

(e) **Nonrated crewmember instructor (FI).**

(f) **Nonrated crewmember standardization instructor (SI).**

(g) **Door gunner (DG).**

(3) Noncrewmembers use the duty symbol “OR” to record flight time when qualified and designated on the mission brief sheet to perform duties as aircraft maintenance personnel not performing other qualified aircrew duties, technical observer, firefighter, aerial photographer, crewmember training course students, crash rescue specialists, and other crew duties not meeting the requirements of rated or nonrated duty and as approved on the mission brief sheet.

b. **Mission.**

(1) **A-acceptance test flight.**

(2) **C-combat mission directly against the enemy within a designated combat zone.**

(3) **F-maintenance test flight.**

(4) **Service missions, other than A, C, F, T, or experimental test flight.**

(5) **T-training flight for individual qualification, refresher, mission, or continuation.**

(6) **X–Experimental test flight.**

(7) **D-imminent danger applies when it is authorized per Department of Defense (DOD) Pay Manual.**

C. **Flight condition.** Each crewmember will use only one of the following symbols to identify the condition or mode of flight for any time period.

(1) **D-day.** Between the hours of official sunrise and sunset.

(2) **H-hood and/or simulated instrument meteorological conditions.** Vision of the person flying the aircraft is artificially limited from viewing the horizon or earth surface. Aircraft attitude must be controlled using aircraft instruments. An observer is required for all hooded flights.

(3) **Night (N).** Between the hours of official sunset and sunrise.

(4) **Night goggles (NG).** Night vision goggles used during night to include use of head up display.

(5) **Night systems (NS).** Night vision systems installed on aircraft used during night; also logged when two or more devices are used simultaneously.

(6) **Weather (W).** Actual weather conditions that do not permit visual contact with the natural horizon or the earth’s surface. Aircraft attitude must be determined and controlled using aircraft instruments.

(7) **Day System (DS).** Attack helicopter (AH)–64 only when night vision system installed on the aircraft is used during the day. Back seat must be equipped with black out curtains.

2–7. **Computation of flying time.**

Flying time starts when an airplane begins to move forward on the takeoff roll or when a helicopter lifts off the ground. Flying time ends when the aircraft has landed and the engines are stopped or the flying crew changes.

2–8. **Individual flight records.**

a. Each crewmember will hand carry between assignments and must present their individual flight records folder (IFRF) and individual aircrew training folder (IATF) to the new unit to which assigned and/or attached for ATP purposes within 14 calendar days after reporting for duty or placement on flying status orders per AR 600–106.

b. The flying experience and qualification data for each rated crewmember and flight surgeon in aviation service and each nonrated crewmember (AR 600–105 and AR 600–106) will be documented in the DA Form 3513 (Individual
Flight Records Folder, U.S. Army) and IATF in accordance with FM 3–04.300 and TC 3–04.11. DA Form 759 (Individual Flight Record and Flight Certificate-Army); DA Form 759–1 (Individual Flight Record and Flight Certificate-Army, Aircraft Closeout Summary); DA Form 759–2 (Individual Flight Record and Flight Certificate-Army, Flying Hour Work Sheet); and DA Form 759–3 (Individual Flight Record and Flight Certificate-Army, Flight Record and Flight Pay Work Sheet) are used to develop data for the permanent record. DA Form 7120–R (Commanders Task List), DA Form 7120–1–R (Crew Member Task Performance and Evaluation Requirements), DA Form 7120–2–R (Crew Member Task Performance and Evaluation Requirements Continuation Sheet), DA Form 7120–3–R (Crew Member Task Performance and Evaluation Requirements Remarks and Certification), DA Form 7122–R (Crew Member Training Record), DA Form 4507–R (Crew Member Grade Slip), DA Form 4507–1–R (Maneuver/Procedure Grade Slip), DA Form 4507–2–R (Maneuver/Procedure Grade Slip Continuation Comment Slip) are used to indicate training and qualification data on crewmembers.

c. Commanders will maintain, close out, and distribute required individual flight records and individual aircrew training records for persons assigned or attached to their organization in accordance with FM 3–04.300 and TC 3–04.11. These records will be prepared and kept on file for—

(1) Aviators and flight surgeons in operational aviation positions.
(2) Aviators in nonoperational aviation positions and those restricted or prohibited by statute from flying Army aircraft. These records will be kept by an aviation entity in an inactive file either with operational aviator files or with military personnel records as specified by the ACOM, ASCC, DRU, or the ARNG.
(3) Other personnel on flight status and authorized to log flight time per AR 600–106 and this regulation.
(4) Persons attending initial entry flight training.

d. Upon separation and final closeout, the unit flight records custodian will complete a synchronization with the Centralized Aviation Flight Records System (CAFRS) Central Database to deactivate and permanently store the record. A copy of the latest DA Form 759 (Individual Flight Record and Flight Certificate) and the remainder of the IFRF along with the IATF will be given to the Soldier.

e. Contractors will maintain records in accordance with AR 95–20 and the statement of work or contract.

2–9. Use of airports, heliports, and other landing areas

a. Aviators may operate Army aircraft at airports and heliports classified as military, Federal Government, or public use in DOD and/or U.S. Government flight information publications (FLIP). Private, closed, or otherwise restricted airports and heliports will be used only with prior permission of appropriate authorities and if the facility is suitable for operations.

b. Commanders may authorize the use of temporary landing areas (other than airports or heliports) off military reservations and government-leased training areas. They must obtain approval of the landowner or the approving authority and comply with the landing area requirements of the state or host country. Commanders will consult with the appropriate Department of the Army Representative (DAR) or host nation aviation agency (see AR 95–2).

c. The installation or field training exercise commander will set policies on the use of aircraft landing sites on military reservations and field training areas.

d. Aviators may select landing and takeoff areas when on lifesaving missions or when further flight is inadvisable.

e. Aviators should be aware that they may be charged for the use of private facilities on public airports. The PC should report unexpected airport fees to the chain of command.

2–10. Local flying rules

a. Installation and/or garrison commanders having Army aircraft assigned, attached, or tenant to their installation will prepare and publish local flying rules in coordination with the senior aviation mission commander on the installation. Rules will include the use of tactical training and maintenance test flight areas, arrival and departure routes, and airspace restrictions as appropriate to help control air operations.

b. Traffic pattern altitudes at Army airfields for airplanes should be set at 1,500 feet above ground level (AGL). Helicopter traffic pattern altitudes should be at least 700 feet AGL.

c. Installation and/or garrison commanders may set different altitudes based on noise abatement, fly-neighborly policies, or other safety considerations. These will be displayed in flight operations and provided to the U.S. Army Aeronautical Services Agency (USAASA) for publication in the DOD and/or U.S. Government FLIP.

2–11. Special use airspace

a. AR 95–2 sets Army policy and procedures for handling special use airspace matters.

b. Operations in special use airspace will be conducted per instructions in the CFR, DOD and/or U.S. Government FLIP, host nation procedures, per letters of procedures, letters of agreements, FAA certificates of authorization, and local air traffic control measures.
2–12. Aircraft lighting requirements
   a. Army aircraft shall be illuminated to at least the minimum standards required by the country in which the flight operation occurs.
   b. Anticollision lights will be on when aircraft engines are operating except when conditions may cause vertigo or other hazards to safety.
   c. Position lights will be on bright between official sunset and sunrise.
   d. Commanders may authorize exemptions to lighting requirements in threat environments or for night vision device (NVD) flights when operating per AR 95–2. Exemption must be clearly defined and authorized by the unit commander in standard operating procedures or mission orders.

2–13. Flight violations
Policies and procedures for reporting and investigating alleged flight rules violations follow:
   a. Violations. Any violation of FAA, ICAO, host country, and/or any other pertinent aviation regulation will be reported. Any person witnessing or involved in a flight violation involving civil or military aircraft will report it as soon as possible.
      (1) Violations by military aircraft should be reported to one of the following:
         (a) The commander of the unit, activity, or installation if known, to which the aircraft belongs.
         (b) The DAR of the FAA service area in which the alleged violation took place (see AR 95–2 for addresses).
         (c) The Commander, USAASA, Fort Belvoir, VA 22060–5582.
         (d) The U.S. Army Aeronautical Services Detachment-Europe, if the incident took place in its area of responsibility (see AR 95–2 for address).
      (2) Violations by civil aircraft should be reported to one of the following:
         (a) The Flight Standards District Office for the FAA region in which the alleged violation took place.
         (b) The Federal Aviation Administration, 800 Independence Avenue, SW, Washington, DC 20591 or their 24-hour Safety Hotline (800) 255–1111.
         (c) The DAR of the FAA service area in which the alleged violation took place (see AR 95–2 for addresses).
         (d) The Commander, USAASA, Fort Belvoir, Virginia 22060–5582.
         (e) The U.S. Army Aeronautical Services Detachment-Europe, if the incident took place in its area of responsibility (see AR 95–2 for address).
   b. Information reported. To report an alleged violation, use a letter or memorandum format. DA Form 2696 (Operational Hazard Report) is not normally used to report flight violations. When reporting an alleged violation, provide as much information as possible. This should include the following:
      (1) Type and make of aircraft.
      (2) Tail number.
      (3) Name of pilot in command (see para 2–13d in this regulation).
      (4) Unit assigned, if military.
      (5) Location where aircraft is based.
      (6) Description of alleged violation, to include the following:
         (a) Specific reference to regulations violated.
         (b) What happened.
         (c) Time and date the alleged violation occurred.
         (d) Where the alleged violation occurred.
      (7) Name and phone number of the individual reporting the alleged violation.
      (8) Names, addresses, and phone numbers of additional witnesses, if any.
      (9) Other pertinent information.
   c. Investigation.
      (1) Reports of alleged violations received from the FAA, ICAO, or a host country will be investigated under the provisions of AR 15–6.
      (2) Commanders receiving a report of violations from sources other than those listed in paragraph 2–13c(1) of this regulation will first determine if it involves personnel or aircraft under their command and initiate an investigation under AR 15–6, if necessary.
      (3) If warranted by available evidence, commanders may convene a flight evaluation board (see AR 600–105) instead of conducting a separate investigation.
      (4) Based on the outcome of the investigation, commanders may take appropriate administrative, judicial, or nonjudicial action.
      (5) Results of investigations conducted per AR 15–6 or AR 600–105, will be reported through channels to the Commander, USAASA, Fort Belvoir, VA 22060–5582. The report will include the findings of the investigation, the corrective action taken or proposed, any conclusions derived, the nature of disciplinary action taken (if any), and any
other pertinent information. This report must reach USAASA within 60 days of the commander receiving notification of the alleged violation, unless—

(a) The immediate commander cannot complete the investigation or the administrative or disciplinary action within this time. In this case, an interim report will be forwarded detailing the reasons for the delay.

(b) A flight evaluation board is convened. USAASA should be notified when the board is convened and of the expected completion date.

(6) Under no circumstance will a report of investigation prepared under the provisions of this regulation be released outside of the DOD except in accordance with the Freedom of Information Act (Title 5, United States Code, Section 552 (5 USC 552)) and the Privacy Act (5 USC 552a), as implemented by AR 25–55 and AR 340–21. All requests for information under 5 USC 552 and 5 USC 552a will be referred to the installation or unit operations security coordinator for processing according to AR 25–55 or AR 340–21.

d. Names of crewmembers of military aircraft involved in actual or alleged violations will be treated as restricted information and not be released to the public or any agency outside the DOD except by proper authority. Any person receiving requests for names of crewmembers of Army aircraft should direct such inquiries to the Commander, USAASA.

2–14. Mission approval process

Commanders in the grade of O–5 and above will develop and publish policies and procedures for the mission approval process for those units under their command. When the chain of command lacks a commander in the grade of O–5, the ACOM, ASCC, DRU, or ARNG may adjust this requirement. Adjustment authorities granted throughout this paragraph will not be delegated below the general officer level. Approval authorities and procedures established for tactical and combat operations may differ from those utilized for garrison operations. Commanders will establish a training and certification program to ensure standardization and understanding of the mission approval and risk management process for personnel defined in paragraph 2–14a, of this regulation.

a. Definitions.

(1) Initial mission approval authority. Commanders or their designated representatives (operations officer, S–3, and so forth) determine the mission feasibility and either accept or reject the mission for the command.

(2) Briefing officer. Commander or their designated representative that interacts with the mission crew or air mission commander to identify, assess, and mitigate risk for the specific mission. Commanders will select briefing officers based on their experience, maturity, judgment, and ability to effectively mitigate risk to the aircrew and designate them by name and in writing. Mission briefers are authorized to brief regardless of risk level. Briefing officers must be a qualified and current pilot-in-command in the mission profile as determined and designated by the commander.

(3) Final mission approval authority. Members of the chain of command who are responsible for accepting risk and approving all aviation operations (ground and air) within their unit. They approve missions for a specific risk level. Final mission approval authorities may only approve those missions whose assessed risk level is commensurate with their command level. Commanders in the grade of O–5 and above will select final mission approval authorities from the chain of command and designate them in writing along with the level of risk (low, moderate, high, extremely high) they are authorized to approve. At a minimum, company commanders and below are the final mission approval authority for low-risk missions, battalion commanders and above for moderate-risk missions, brigade commanders, and above for high-risk missions, and the first general officer in the chain of command for extremely-high-risk missions. Approval authorities are based upon levels of command authority and not rank.

(a) For units lacking these positions, ACOM, ASCC, DRU, or ARNG may adjust them within these guidelines.

(b) For urgent and urgent surgical aeromedical evacuation missions, brigade commanders are authorized to delegate high-risk final mission approval authority to battalion commanders in the grade of O–5 and moderate-risk final mission approval authority to air ambulance company commanders in the grade of O–4. Additionally, brigade commanders will implement the policies outlined in AR 40–3 (see chap 16) when developing their urgent and urgent surgical aeromedical evacuation mission approval procedures. This authority may not be further delegated.

(c) During bonafide absences, battalion and brigade commanders may authorize their field grade executive officer, S–3, or air ambulance company commander (O–4) to accept the risk and approve the operation on their behalf provided they are properly trained and notify the commander as soon as possible.

(4) Risk assessment worksheets. Commanders will develop local briefing checklists and risk assessment worksheets (RAWs) for use in assessing aircrew mission planning and risk. The RAWs will be constructed using the concepts outlined in FM 5–19. The commander will combine guidance from higher commanders with personal knowledge of the unit and experience to assign levels of risk to particular parameters. Risk levels are used to elevate items of interest to successive levels of command for visibility and acceptance.

(5) DA Form 5484 instructions. Instructions for completing DA Form 5484 (Mission Schedule/Brief) are located at appendix C of this regulation. Copies of the DA Form 5484 will be retained in unit files with the corresponding RAWs for at least 30 days.

(6) Ground and/or strip alert. Missions that require aircrews and or teams of aircraft to maintain a state of readiness to takeoff within a short period of time after receipt of a mission order; for example, aeromedical evacuation, and quick
reaction force missions. Commanders will develop alert/prelaunch mission planning, single-ship operating procedures, launch authorities, en route linkup procedures, and change of mission procedures for ground and/or alert missions their units perform. These procedures will assist pilots-in-command, air mission commanders, briefing officers, and approval authorities to assess and mitigate the hazards associated with each phase of ground and/or strip alert missions.

b. Mission approval process. The mission approval process for aviation operations is completed in three steps that must be completed prior to mission execution.

(1) Step 1—initial mission approval. The initial mission approval authority approves the mission in accordance with the commander’s policies and procedures by considering some of the following factors: alignment with the unit’s mission essential task list, aircraft required and availability, availability of required special mission equipment, trained aircrew availability, other training and mission impacts, tactical and threat considerations, and so on. This step is not a detailed hazard and risk analysis for specific flight operations, but rather an assessment of the unit’s capability to accomplish the mission. Initial approval may occur at different levels of command depending on how the mission is generated. For example, a mission generated at the brigade level might be accepted by the battalion operations officer while a platoon training mission might be accepted by the company commander.

(2) Step 2—mission planning and briefing. This step involves detailed planning, risk assessment and risk mitigation by the aircrew, and review by the briefing officer. Briefing officers are authorized to brief missions regardless of the level of mitigated risk. Self-briefing is not authorized unless approved by the first officer in the grade of O–5 or above in the chain of command. Interaction between crew and briefer is paramount to identify, assess, and mitigate risk for the specific flight or mission. Briefing officers are responsible for ensuring key mission elements are evaluated, briefed, and understood by the mission pilot-in-command or air mission commander. Mission briefing officers will, at a minimum, review and assess the following key areas in the mission planning process:

(a) The flight is in support of an operational unit mission and has obtained initial mission approval (step 1).
(b) The crew understands the mission and possesses situational awareness of all tactical, technical, and administrative mission details.
(c) Assigned flight crews have been allocated adequate pre-mission planning time and the mission is adequately planned to include performance planning, notices to airmen (NOTAMs), and coordination with supported units.
(d) Assigned flight crews are qualified and current for the mission in accordance with this regulation and the commander’s flight crew qualification and selection program per paragraph 4–18 of this regulation, to include ALSE with current inspections, aircrew reading file currency, and crew experience appropriate for the mission.
(e) Forecast weather conditions for the mission, including departure, en route and arrival weather, meet the requirements of this regulation and local directives.
(f) Flight crews meet unit crew endurance requirements.
(g) Procedures in the commander’s risk management program are completed and mitigated to the lowest level possible.
(h) Required special mission equipment is operational.
(i) Review ground and/or strip alert mission analyses and risk reduction procedures.

(3) Step 3—final mission approval. Based on the resulting mitigated risk, the appropriate final approval authority reviews the mission validity, planning, risk mitigation, and authorizes the flight and/or operation in accordance with the commander’s policy. Initialing, signing, or documenting oral approval on the DA Form 5484 and/or RAW are all acceptable methods of recording approval of the appropriate authority in the mission approval process. Briefing officers and final approval authorities may give oral approval if necessary. If a crewmember changes or a mission parameter changes which increases the resultant risk, the mission pilot-in-command or air mission commander will be re-briefed, and the mission will be reapproved as required.

2–15. Noise abatement

a. Noise abatement policies will be disseminated by the Commander, USAASA. Installations will develop and publish local noise abatement programs that minimize aircraft noise footprint on and near the installation and within the local flying area and establish good public relations programs to educate and inform the public.

b. Aviators will participate in noise abatement and fly neighborly programs to minimize annoyance to persons on the ground when missions and safety are not adversely affected.

c. For noise sensitive areas, unless required by the mission, all Army aircraft will maintain a minimum of 2000 feet above the surface of the following: national parks, monuments, recreation areas, and scenic river ways administered by the National Parks Service, national wildlife refuges, big game refuges, or wildlife ranges administered by the U.S. Fish and Wildlife Service, and wilderness and primitive areas administered by the U.S. Forest Service.

d. Army aviation activities which normally operate in or adjacent to those areas listed in paragraph 2–15c of this regulation may enter into local agreements with the controlling agency to modify procedures required for mission accomplishment.
Chapter 3
Operations and Safety

Section I
Use of Army Aircraft

3–1. Use of Army aircraft-general
Army aircraft will be used for authorized purposes only. Army-owned, -operated, or -controlled aircraft will only be
used to transport Army personnel, government property, other official government passengers, or other passengers and
cargo as authorized by statute and DOD issuances, or Army Directives, regulations, or policies. Specifically, use of
Army aircraft must comply with paragraphs 3–2, 3–3, 3–4, or 3–5 of this chapter and must not otherwise be prohibited
by paragraph 3–6 of this regulation. In addition, air travel must be the most economical mode of transportation
consistent with the accomplishment of the military mission, and the particular aircraft to be utilized must be the least
costly one available that is capable of satisfying the transportation requirement. Travel by military aircraft that is
mission essential, regardless of cost or availability of commercial service, will require complete documentation signed
by the senior passenger. This authority cannot be delegated. The classes of missions Army aircraft may be authorized
to perform are—
   a. Required use.
   b. Operational use.
   c. Special mission use.
   d. Other official use.

3–2. Required use
Required use includes those missions with a designated required use traveler per DODD 4500.56 and Army Directive
2007–01 where the use of military aircraft is required due to continuous requirement for secure communications,
security, or for responsive transportation to satisfy exceptional scheduling requirements. Within the DA, the SA and the
CSA are required to use military aircraft travel (MILAIR) for all air travel when in a duty status.

3–3. Operational use
Operational use includes those missions required to accomplish the Army’s mission and to maintain the combat
readiness of aviation and ground units. Operational use missions include, but are not limited to, the following:
   a. Actual or simulated tactical and combat operations.
   b. Aircrew training.
   c. Intelligence.
   d. Counter-narcotics activities.
   e. Search and rescue.
   f. Transportation of prisoners.
   g. Use of defense attaché controlled aircraft.
   h. Research and development.
   i. Maintenance flights.
   j. Flight tests.
   k. Repositioning or reassignment of aircraft.
   l. Transport of troops and/or equipment.
   m. Special use (humanitarian, disaster relief, and deployments).
   n. Aeromedical evacuation by aeromedical units.
      (1) Aeromedical evacuation is applicable to eligible personnel described in DOD 4515.13–R.
      (2) Army aircraft may be used to transport U.S. Armed Forces patients when deemed necessary by competent
medical authority (see DOD 4515.13–R). Aircraft, FW, and RW aircraft not equipped to handle litters or patients
requiring special medical attention en route will only transport ambulatory patients who require no en route medical
treatment, except in an emergency situation.
      (3) Civilian personnel and those personnel not covered in paragraphs 3–3n(1) and 3–3n(2) of this regulation may be
provided aeromedical transportation to the nearest medical facility where immediate treatment is available. This will be
done only when there is an emergency involving immediate threat to life, limb, or sight, and when suitable commercial
services (air taxi, charter air ambulance, or aeromedical evacuation configured commercial air) are not available,
feasible, or are inadequate. Installation and/or senior mission commanders in coordination with aviation brigade or
separate Army aeromedical evacuation unit commanders will develop written policies that establish specific procedures
for notification, mission acceptance, and launch authority.
      (4) Army air ambulance aircraft are dedicated evacuation platforms in support of aeromedical missions described in
AR 40–3. All requests to utilize air ambulance aircraft for missions other than in support of the aeromedical or

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humanitarian relief missions defined in this paragraph will be forwarded to the DCS, G–3/5/7 (DAMO–AV), 400 Army
Pentagon, Washington, DC 20310–0400 for approval.

a. Aeronautical research and space and science applications.

p. Exercising command and/or supervision authority at adjacent and local installations.

3–4. Special mission use

Unless specified, the commander of the ACOM, ASCC, DRU, or the DARNG owning the aircraft must approve of
missions authorized in this paragraph. They may delegate approval authority as specified in the paragraphs below and
no lower than the first general officer in the chain of command if not clearly specified. Army aircraft may be used for
the following purposes:

a. Public affairs. Army aircraft may be used for public affairs missions and public affairs travel in accordance with
DOD 4515.13–R, DODI 5410.19, AR 360–1, and Army Directive 2010–08. These publications will be consulted
before these missions are approved. Approval of an aerial request by the Office of the Chief of Public Affairs does not
authorize the flight nor constitute acceptance of the mission. These missions are still subject to paragraph 2–14 of this
regulation and must serve an aviation purpose. Public affairs missions include, but are not limited to, the following:

(1) Performances by DOD demonstration teams.
(2) Flyovers of public affairs events.
(3) Tactical demonstrations.
(4) Aerial reviews.
(5) Static displays not on a military installation.
(6) Aerial activities defined as all other aerial demonstrations not listed in paragraph 3–4a(1)–(5) of this regulation
designed to portray performance techniques by a single aircraft or group of aircraft or personnel. Such demonstrations
include but are not limited to, air to air refueling, helicopter flight techniques, maximum performance takeoff,
performance record demonstrations, mass parachute jumps, air delivery of equipment, assault aircraft demonstrations,
tactical helicopter troop landings, air rescue demonstrations, and aircraft rappelling, fast rope, or STABO
demonstrations.

(7) Units assigned an aerial demonstration mission will comply with 14 CFR 91. If parachuting is involved, 14 CFR
105 will also apply. Aerial demonstrations off a military installation will not be conducted until coordinated with the
appropriate DAR. The DARs are listed in AR 95–2.

(8) Overseas units assigned an aerial demonstration mission will comply with published ACOM, ASCC, DRU, and
host nation regulations.

b. Orientation flight. Army aircraft may be used for orientation flights in accordance with DOD 4515.13–R, DOD
4515.12–R, and subparagraphs, below.

(1) Aviation unit commanders in the grade of O–5 or above and their corresponding aviation standardization officer
in the grade of W–4 or above who are not qualified in aircraft within their unit are authorized to conduct an orientation
flight when all of the following conditions met:

(a) Flight is for demonstrating or determining the capabilities and/or combat effectiveness of the aircraft.
(b) Commander and their standardization officer must be assigned to that documented position.
(c) Aircraft and crew must be under their command or responsibility for standardization.
(d) If simulated emergency procedures will be conducted, the flight will be designated high-risk.
(e) Must be qualified in the category of aircraft to be flown.
(f) Must be current per paragraph 4–21d of this regulation for flights in forecast instrument meteorological condi-
tions (IMC).

(g) Flights in a designated combat or imminent danger zone must be approved by the first two-star level commander
in the chain of command. Approval authority for flights outside of a designated combat or imminent danger zone may
be delegated down to commanders in the grade of O–6.

(2) Nonrated personnel and rated personnel not qualified in the aircraft occupying a pilot station when the operator’s
manual or mission requires two pilots as minimum crew—

(a) Flight is for demonstrating or determining the capabilities and/or combat effectiveness of the aircraft.
(b) NVD or nap of the earth flight must be specifically authorized.
(c) Flight will be in visual meteorological condition (VMC).
(d) Specific simulated emergency procedures to be conducted will be briefed and approved.
(e) Flight is approved by the commander of the ACOM, ASCC, DRU, or the DARNG providing the aircraft or the
Commander, U.S. Army Aviation Center of Excellence for flights at USAACE. Authority granted to approve these
orientation flights will not be further delegated below the first general officer in the chain of command.

(f) Flights in a designated combat or imminent danger zone must be approved by the first O–8 level commander in
the chain of command.

(g) If any of the above conditions cannot be complied with, a waiver may be requested per paragraph 1–6 of this
regulation.
(h) Members of Congress and their staffs may be provided orientation flights only with the approval of the Office of the Congressional Legislative Liaison, Support Operations Division, 1600 Army Pentagon, Washington, DC 20310–1600. State and local officials may participate in orientation flights in direct support of Homeland Defense missions.

c. Evacuation or aeromedical evacuation by nonaeromedical units. Aeromedical evacuation only with the requirements listed in paragraph 3–3n of this regulation met and the commander determines it necessary for a casualty evacuation.

d. Other emergency situations. The ACOM, ASCC, DRU, or ARNG will notify the DCS, G–3/5/7 (DAMO–AV), 400 Army Pentagon, Washington, DC 20310–0400, when decisions are made to use Army aircraft for emergency situations and full details provided as soon as possible. When danger to public health or safety prevents prior approval, Army aircraft will transport civilian personnel in the following situations:

1. Personnel engaged in search and rescue.

2. When severely injured or seriously ill patients in continental U.S. (CONUS) require immediate lifesaving aeromedical evacuation. This applies in major fires, earthquakes, flood, industrial or transportation accidents, epidemics, or similar natural or man-caused catastrophes.

3. Volunteers with special search and rescue equipment who volunteer to help and have no other means of transportation. Their services must be requested by the Aerospace Rescue and Recovery Service.

e. Security assistance missions. Chiefs of military assistance advisory groups and Defense attaches may approve missions for transportation of all personnel under their control. They may do this for their aircraft only in accordance with DOD 4515.13–R and Army Directive 2007–01.

f. Other. Army aircraft may also be used for—

1. Travel per Army Directive 2007–01 to events such as memorial services, retirements, graduations, public ceremonies, field demonstrations, patient visitation, or parades for military personnel who are participating or representing the Army or DOD in an official capacity only. Military air transportation requests will not be approved for the sole purpose of attending such activities in a personal capacity.

2. Transportation for other authorized activities such as sponsored athletic teams, bands, or other welfare, morale, recreation, and chaplains programs in accordance with DOD 4515.13–R.


4. Military spouse orientation flight programs under the following conditions:

(a) Flights are to satisfy specific retention or motivation objectives and will be conducted in the safest and most efficient manner possible.

(b) Flights will be accommodated within the command flying hour program.

(c) Flights will be conducted in the local area only.

(d) Flights will not be conducted above 10,000 feet pressure altitude except in pressurized aircraft.

(e) Flight crewmember seats (with access to flight controls) will not be occupied by passengers.

(f) Passenger restrictions in paragraph 3–8 of this regulation will apply.

(g) Accompanied Spouse travel will be in accordance with DOD 4515.13–R and applicable Secretary of the Army guidance.

(h) An ACOM, ASCC, DRU commander, or the DARNG desiring to establish a spouse orientation program will submit a copy of the proposed plan to the DCS, G–3/5/7 (DAMO–AV), 400 Army Pentagon, Washington, DC 20310–0400 for approval. When approved, the plan will be published in the ACOM, ASCC, DRU, or ARNG supplement to this regulation.

(i) When ACOMs, ASCCs, DRUs, or ARNG have approved plans, they have approval authority for subordinate unit requests for orientation flights.

5. Aircraft support of community relations and public information will comply with AR 360–1 and DOD 4515.13–R.

6. Transportation of members of Congress and accompanying staff members (when approved by the Office of the Chief of Legislative Liaison) in accordance with DOD 4515.12.

7. Flyovers, including the missing man formation at memorial or funeral services in honor of rated and/or designated aviation personnel or dignitaries, will comply with DODI 5410.19 and DOD 5410.18.

8. Commanders in the grade of O–6 and above, including state Army aviation officers for ARNG, will approve FAA employees engaged in flight checks or examining rated crew personnel using U.S. Army aircraft. Use of Army aircraft to exclusively obtain or renew an FAA rating is prohibited.

9. All requests for transportation not provided for above and requests for waiver to the provisions of this paragraph will be forwarded to the DCS, G–3/5/7 (DAMO–AV), 400 Army Pentagon, Washington, DC 20310–0400.

3–5. Other official travel

Administrative travel, also called “other official travel,” includes travel to give speeches; attend conferences, meetings or training courses; make routine site visits; and other similar uses. Justification for the use of FW MILAIR for
administrative travel usually requires showing that MILAIR is essential versus commercial air. Justification for the use of RW aircraft for administrative travel usually involves showing that MILAIR is essential versus ground transportation, unless commercial air transportation is also available between the general departure and destination locations. All travel will comply with Army Directive 2007–01.

3–6. Prohibited missions
   a. Army aircraft will not be used to conduct flights for personal use. They will not be used for transportation of personnel or equipment to any place or event in an unofficial capacity.
   b. Army aircraft will not be used for domicile (place of residence) to duty, or duty to domicile, transportation unless authorized under Title 31, United States Code, Section 1344 (31 USC 1344), or 10 USC 18505, or as approved by the SA.
   c. Requests for exceptions to travel policies will be forwarded through DCS, G–3/5/7 (DAMO–AV), 400 Army Pentagon, Washington, DC 20310–0400, through the Army Headquarters Services, Director of Executive Travel (OAASA–AHS–ZT), 9301 Chapek Road, Building 1458, Fort Belvoir, VA 22060, to the Administrative Assistant to the Secretary of the Army, 105 Army Pentagon, Washington, DC 20310–0105.
   d. Use of Army aircraft exclusively to obtain or renew an FAA rating is prohibited.

3–7. Passenger policy
   a. Service personnel are authorized to fly as passengers in Army aircraft while on duty and when authorized by their commander. Verbal authority is permitted. “Service personnel” are defined as—
      (1) Active duty members of the Army, Navy, Air Force, Marine Corps, and Coast Guard.
      (2) Active status member of RC as defined in DODD 4515.12.
      (3) DOD civilians when on official business.
      (4) Employees of other U.S. Government agencies and technical advisors to DOD component authorities when traveling on official business for DOD.
   b. Army personnel traveling on OSA flights on permanent change of station orders, temporary duty, emergency leave, space availability, or official business are authorized to wear appropriate civilian clothing. Personnel must ensure that their dress and personal appearance are appropriate for the occasion and reflect positively on the Army.
   c. Personnel will not make an aerial flight if determined medically unfit by competent medical authority, or if they are handicapped and not physically capable of caring for themselves while enplaning, deplaning, or while in flight in accordance with DOD 4515.13–R.
   d. Personnel specified as eligible passengers in DOD 4515.13–R, are authorized as passengers in Army aircraft. Authorized travelers (other than Spouse and Family member travel) must have travel orders or transportation authorization published by the installation travel authority. Spouse and Family member travel must have travel or transportation authorization published by the DCS, G–3/5/7 (DACS–DMC–A) or the authority specified in DOD 4515.13–R or Army Directive 2007–01 and meet the requirements established therein. The orders must specify if travel is reimbursable or nonreimbursable. Travel for other Executive Departments or Government agencies, or for the judicial or legislative branches of the Federal Government, have unique requirements defined in DOD 4515.13–R that must be met. Coordinate these requirements with the Office of the Congressional Legislative Liaison, Support Operations Division, 1600 Army Pentagon, Washington, DC 20310–1600.
   e. Dependents authorized travel under this or other paragraphs are defined in DOD 4515.13–R.
   f. Aircraft will not deviate from mission flight plans to accommodate space available passengers.
   g. Policies for transportation of foreign personnel and approval authorities are specified in DOD 4515.13–R.
   h. Contractor employees when performing duties specified in their contract or statement of work and on an official contractor identification memorandum or letter of authorization in accordance with Army Directive 2007–01 or DOD 4515.13–R are authorized passengers.
   i. Questions or requests for waiver concerning passenger eligibility as outlined in this paragraph will be submitted to the DCS, G–3/5/7 (DACS–DMC–A), 202 Army Pentagon, Washington, DC 20310–0202.

3–8. Passenger restrictions
   a. Passengers are restricted from the following types of flights:
      (1) Maintenance, engineering, functional, or experimental test flights.
      (2) Aerobatics flights.
      (3) Aerial demonstrations (only mission essential personnel authorized) as defined by DODI 5410.19 and AR 360–1.
      (4) Flight crew emergency procedures training.
      (5) NVD qualification or refresher training in accordance with the appropriate ATM.
      (6) Aeronautical record attempts.
      (7) Aircraft acceptance flights.

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Personnel on the aircraft during the above operations will be limited to the minimum essential and those making evaluations or performing required maintenance checks. Army aircraft will be used for authorized purposes only.

Section II
Operational Support Airlift

3–9. Operational support airlift missions
The OSA missions are movement of high-priority passengers and cargo with time, place, or mission-sensitive requirements. DODI 4500.43 provides OSA policy guidance, definitions, procedures, and responsibilities. DOD 4515.13–R provides transportation eligibility policy and procedures for military aircraft, and Army Directive 2007–01 provides Secretary of the Army policy for travel by DA officials.

3–10. Operational support airlift management responsibilities

a. The Secretary of the Army is responsible for—
   (1) Establishing clear accountability for aircraft management at a senior management level.
   (2) Developing and implementing policies that specify validating requirements and procedures for scheduling assets in support of Army OSA requirements.

b. The Administrative Assistant to the Secretary of the Army on behalf of the Secretary of the Army, will provide management and policy oversight for the use and scheduling of the Army executive jets that have been specifically designated as Service Secretary Controlled Aircraft (SSCA).

c. The Assistant Secretary of the Army (Financial Management and Comptroller), in coordination with the DCS, G–4, will prepare and publish an annual cost per flying hour message that includes DOD and non-DOD costs per flying hour rates by aircraft mission, type, design, and series for all Army aircraft. The Assistant Secretary of the Army (Financial Management and Comptroller) will also publish annually the gross hourly salary for military and civilians to be used for cost effectiveness analysis.

d. The DCS, G–3/5/7 has management responsibility for the following areas:
   (1) Establish objective wartime requirements for Army OSA aircraft.
   (2) Review annually the continuing need for aircraft appropriated based solely on wartime readiness requirements and for reasons other than wartime requirements as well as the cost-effectiveness of aircraft operations. When not fully justified, the Army will release aircraft determined to be excess.
   (3) Review, analyze, and evaluate Army OSA and/or non-OSA utilization data to determine future aircraft stationing and changes to the aviation structure.
   (4) Report Army OSA flying hour program execution during the quarterly program performance and/or budget execution review.

e. Unified, specified, ACOM, ASCC, or DRU commander, or the DARNG will—
   (1) Ensure that procedures are developed within each subordinate unit to allow for the OSAA to capture all OSA travel requirements.
   (2) Designate helicopter scheduling authorities for the purpose of scheduling Army helicopter assets to support OSA mission requirements.
   (3) Establish internal control procedures to ensure subordinate units comply with OSA program requirements.

f. Operational relationships are established in consonance with the Administrative Assistant to the Army, Director of the Army Staff, and DCS, G–3/5/7.

g. The Commander, OSAA, under the direction of the DARNG, is the lead agent for developing, implementing, and executing the Army OSA Program as the OSA Field Operating Agency (FOA) Commander in accordance with DA General Order 1995–11.

h. ACOM, ASCC, and DRU commanders of owning and/or attached units, ARNG adjutant generals, and U.S. Army Reserve (USAR) general officer commands will—
   (1) Validate all OSA requests generated from subordinate units, tenant activities, and designated agencies. Validator duties may be delegated to an individual within the chain of command. Validator duties and mandatory training will be conducted in accordance with the OSA Remote User’s Guide.
   (2) Develop internal control procedures to ensure compliance with appropriate DOD issuances, this regulation, and the OSA Remote User’s Guide.
   (3) Ensure accurate record keeping and timely submission of OSA requests.
   (4) Ensure designated officials, CONUS airplane flight units, and RW OSA support units are networked to OSA automated remote users’ system.
   (5) Ensure FW OSA CONUS flight requests are submitted to OSAA using Joint Operational Support Airlift Center (JOSAC) operating procedures.
   (6) Ensure flight activities submit post mission reports for all missions flown.
   (7) Provide notification to requesters of travel support, nonsupport, or schedule deviations.
(8) Brief users on procedures for initiation, cancellation, or modification of airlift requests.
(9) Designate a centralized point of contact for receiving space available travel requests and maintain space available roster.
(10) Assign appropriate priority, urgency, justification, and category (PUJC) codes for each OSA request in accordance with DODI 4500.43. The OSA validators will retain specific justifications for PUJC codes assigned for each airlift request for two years subject to periodic review by appropriate agencies.
(11) Review and approve all senior federal travelers (all general officer and civilian equivalent) travel requests. Validation for senior federal travel may not be delegated below the grade of O–8.
   i. Commander, OSAA, will—
      (1) Serve as scheduling authority for Army FW outside the continental U.S. (OCONUS) and operational use missions.
      (2) Serve as reviewing authority for all Army FW OSA requests.
      (3) Provide a semiannual report of the use of operational support airlift by DA Presidential appointees to U.S. Transportation Command (TRANSCOM).
      (4) Conduct cost analysis computations of OSA military cost versus commercial cost on each OSA mission request submitted to the OSAA and/or JOSAC.
      (5) Maintain current listing of designated Army OSA validators.
      (6) Provide all designated OSA validators with access codes, user identification, and program manuals for OSAA remote user’s system.
      (7) Retain all requests for aircraft support and post-mission data for a period not less than two years after completion of the fiscal year (FY).
   j. Aviation units performing OSA mission support will conform to the reporting requirements contained in the OSA Remote User’s Guide and this regulation.
      (1) The aviation unit commander will appoint an airlift coordinator. The airlift coordinator will perform duties in accordance with the OSA Remote User’s Guide.
      (2) All training flights will be reported in Logistics Flight Records (LFRs) in accordance with OSA Remote User’s Guide.
      (3) Training missions may be scheduled by the aviation unit. Aviation units are strictly prohibited from scheduling training missions for the sole purpose of carrying passengers and or cargo.
      (4) Will retain all post-mission data, including non-OSA missions, for a period of not less than two years after completion of the FY.

3–11. Operational support airlift justification
Within the policy guidance prescribed by DODI 4500.43 and this regulation, scheduling authorities schedule the use of aircraft for OSA missions based on the following criteria:
   a. Cost analysis procedures are based on the OSA scheduling system. Commercial cost comparisons for FW OSA are accomplished by incorporating cost elements specified in DOD issuances and ARs.
   b. For airlift requests meeting the criteria prescribed above, each OSA flight request will be assigned an appropriate PUJC code by the OSA validator that is established in the OSA Remote User’s Guide and DODI 4500.43.

3–12. Operational support airlift procedures
   a. The OSA validators will publicize transportation requests and aircraft scheduling procedures within their areas of responsibility. Procedures will include requirements for units or individuals to request OSA in advance and to accept variations in departure or arrival times and will be reviewed by the authorizing official. Urgent operational demands will be considered when determining if a spread is possible in departure and arrival times. Validators will establish the PUJC codes for all OSA requests in accordance with the OSA Remote User’s Guide and DODI 4500.43. Rank or grade alone is not sufficient to justify support of airlift requests or placement in any particular PUJC.
   b. Army personnel will submit requirements for official travel to the authorizing official within their chain of command.
   c. Authorizing officials will state requirements for official government travel and forward all approved requests to OSA validators a minimum of four duty days prior to the date of intended travel and in sufficient detail to allow the validator to assign the airlift requests with the appropriate PUJC. Signature of the senior traveling passenger is required and cannot be delegated. In addition, senior federal travelers (all general officer and civilian equivalent) will have their travel requests reviewed and approved no lower than the grade of O–8.
   d. Operational support airlift validators will ensure that requests are received from a proper authorizing official with appropriate signature of the senior passenger. They will submit approved requests for Army FW OSA within CONUS and OCONUS to OSAA. Rotary wing OSA requests within the National Capital Region will be submitted to the Military District of Washington Air Operations Group for scheduling.
e. The Joint Air Logistics Information System (JALIS) automated remote user’s system will be used to submit OSA requests. Requests will be submitted to OSAA within the time frames outlined below.

(1) Flight requests will normally be submitted to OSAA not later than four duty days prior to the departure or as soon as an OSA mission requirement is identified. Priority “1” requests may be submitted telephonically and confirmed by message.

(2) Team or group travel request (as defined in DOD 4515.13–R) for 15 or more individuals for Army OSA flights will be submitted not later than 30 days prior to departure date. This does not include requests for special air mission support. A team consisting of 14 or less individuals traveling as a group, or part of a group, may be submitted not later than four duty days in advance of the date of desired travel or as soon as the requirement is identified.

f. Cancellations or changes to CONUS OSA flights will be transmitted to JOSAC in accordance with OSA Remote User’s Guide.

g. Passenger reporting time for OSA flights is not later than 30 minutes prior to scheduled departure time.

h. Approved requests for non-National Capital Region Army helicopter OSA will be submitted to the validator and forwarded to the helicopter scheduling authority in accordance with local procedures. Installations will forward annual helicopter OSA utilization data to ACOMs, ASCCs, or DRUs for consolidation and forwarding to OSAA. Because of the extensive costs associated with RW operations, their use for OSA should be closely monitored and approved only when other modes of travel will not fulfill requirements.

i. Validators will not submit requests for FW backup support for approved helicopter requests.

3–13. Operational support airlift data collection and use

a. Army OSA and/or non-OSA FW utilization data will be collected by OSAA for the purpose of—

(1) Justifying use of government aircraft in lieu of commercially available aircraft or the use of one government aircraft in lieu of another.

(2) Recovering the costs of operating government aircraft when appropriate.

(3) Determining the cost effectiveness of various aspects of aircraft programs.

(4) Analyzing trends in inventory and seat utilization for each mission, type, design, and series OSA aircraft, by priority of travel, to include opportune airlift.

(5) Comparing OSA and/or non-OSA flying hours actually flown to those budgeted in the annual flying hour program. This will be accomplished by the automated post mission reports and flight hours entered in the Corporate Management System compiled by OSAA.

(6) Summarizing the number of OSA and/or non-OSA missions flown.

(7) Summarizing passenger requests and total passengers moved by priority.

b. Operational Support Airlift Agency will retain all requests for aircraft support and post mission data for a period of not less than two years after completion of the FY. The OSA validator will retain a copy of all requests for OSA support for a period of not less than two years after completion of the FY. The aviation unit will retain all post mission data, including reports on all training flights, for a period of not less than two years after completion of the FY.

Section III

Safety

3–14. Extended range fuel systems

a. Army policy for the use of the external noncrashworthy, nonballistically-tolerant fueled Extended Range Fuel System (ERFS) on AH–64, EH–60, and utility helicopter (UH)–60 aircraft is stated in SOF messages AH–64–98–01 and UH–60–98–01 and remains in effect. The use of these systems remains restricted to long range missions where the mission cannot be accomplished using en route refueling facilities and training to support such missions.

b. Aircraft modified with crashworthy external fuel systems or internal crashworthy ERFS will be operated in accordance with the applicable Airworthiness Releases, Interim Statements of Airworthiness Qualification, aircraft operator’s manuals, applicable supplemental operator’s manuals, and aircraft specific ATMs and are not subject to the additional restrictions of SOF messages AH–64–98–01 and UH–60–98–01.

c. Flight with any external ERFS is restricted to those aircraft with the capability to provide fuel quantity and fuel flow indications on each individual external tank.

d. Army policy for the use of the external noncrashworthy, nonballistically-tolerant fueled ERFS during combat operations follows:

(1) Restricted to ferry flights where the probability of encountering hostile forces during the intended mission is minimal. Approval procedures will be incorporated into the unit’s ERFS standard operating procedures. Blanket approvals are prohibited and will be approved on a mission by mission basis.

(2) The theater Army commander is designated as the decision authority for approval of missions that require the long range capability of external noncrashworthy, nonballistically-tolerant fueled ERFS. Blanket approvals are prohibited and will be approved on a mission by mission basis.
3–15. Safety functions, mishap reports, investigations, and release of information
   a. Procedures for investigating and reporting aircraft mishaps are prescribed in AR 385–10.
   b. Policy and procedures for reporting casualties and notifying next of kin of personnel involved in aircraft accidents are prescribed in AR 600–8–1.
   c. Requests about aircraft mishap reports will be answered per AR 385–10.
   d. Requests for information under the Freedom of Information Act will be processed per AR 25–55.
   e. In all instances of an aviation Class A accident, the first general officer in the chain of command is required to accept the out brief from the accident investigation team.
   f. Commanders will implement the aviation accident prevention program per AR 385–10.

3–16. Composite risk management
   a. Commanders will integrate composite risk management into aviation mission planning and execution at every level. Guidance on composite risk management is contained in TC 3–04.11, ADP 5–0, FM 5–19, and AR 385–10.
   b. Commanders or comparable authority for organizations lacking a military commander will develop local checklists and RAWs for briefing officers to use in assessing aircrew mission planning and risk in accordance with paragraph 2–14 of this regulation. The RAW will be filed with the mission briefing sheet per FM 3–04.300.

3–17. Crew endurance
   a. Commanders will design a crew endurance program tailored to their unit mission and include it in their standard operating procedures. DA Pam 385–90 is available at http://armypubs.army.mil and the leader’s guide to crew endurance is available at https://safety.army.mil/atf/GeneralResources/tabid/1583/Default.aspx.
   b. Crew endurance is an integral part of the overall risk management program. It is used to control risks due to sleep deprivation or fatigue and to prescribe thresholds to trigger command decisions whether to accept those risks.
   c. Commanders should consider the advice of the flight surgeon and aviation safety officer in designing their programs.

3–18. Department of the Army Form 2696
DA Form 2696 will be used to notify commanders and safety councils of anything affecting the safety of Army aircraft or related personnel and equipment. The commander will have reported hazards investigated immediately and will correct unsafe conditions (see AR 385–10 for instructions on completing DA Form 2696).

Section IV
Aircraft Maintenance

3–19. Maintenance test flights and functional ground and flight checks
   a. Maintenance test flights (MTFs) will be conducted per TM 1–1500–328–23 for Army aircraft having AMCOM-approved MTF manuals. Army aircraft lacking an AMCOM-approved MTF manual will have functional ground and/or flight checks/maintenance flights conducted to conform to the airworthiness authority’s approved procedures.
   b. Army and contract maintenance pilots performing maintenance test flights for Army aircraft having AMCOM-approved MTF manuals must be qualified and current per paragraphs 4–27 or 4–28 of this regulation. Army and contract pilots performing functional ground and/or flight checks and/or maintenance flights conducted per the airworthiness authority’s approved procedures must be qualified and current per paragraph 4–27e of this regulation.
   c. The MTFs or functional ground or flight checks/maintenance flights for Army aircraft under bailment to contractors will be conducted per paragraph 3–19a of this regulation unless changed by the terms of the contract.

3–20. Maintenance operational check
   a. Authorized personnel will perform maintenance operational checks per TM 1–1500–328–23, DA Pam 738–751, and/or applicable aircraft technical manual/master service manual.
   b. Personnel who are authorized to start, run up, and taxi airplanes for the purpose of maintenance operational checks and are not qualified per paragraph 2–1a(1) through 2–1a(6) of this regulation will—
      (1) Undergo appropriate normal and emergency procedures training conducted by a maintenance trained airplane IP/SP/ME in the specific mission, type, design, and series aircraft.
      (2) Be evaluated semiannually by a maintenance trained airplane IP/SP/ME on all functions they are required to perform.
      (3) Have written authorization from the commander. This authorization must specify the operations and checks permitted and be posted in the maintenance office.
   c. Personnel who are not qualified per paragraph 2–1a(1) through 2–1a(6) of this regulation and paragraph 2–2b(2) of this regulation are prohibited from starting, running up, or shutting down helicopters.
   d. Commanders may authorize nonrated personnel to start, operate, and stop aircraft auxiliary power units. These persons will—
Undergo appropriate normal and emergency procedures training conducted by an IP, SP, ME, FI, or SI in the specific mission, type, design, and series aircraft.

Be evaluated annually by an IP, SP, ME, FI, or SI on all functions he or she is required to perform.

Have written authorization from the commander. This authorization must specify the operations and checks permitted.

e. Contractor personnel performing maintenance operational checks and/or operating aircraft auxiliary power units will utilize requirements listed in AR 95–20 or government flight representative approved contractor ground and flight operating procedures utilizing this paragraph as service guidance.

Section V
Army Aircraft Performance Records

3–21. Requests for performance records
The policy for handling requests from the Services for authority to establish performance records by military aircraft is prescribed in DODI 5410.19 and AR 360–1. It authorizes periodic official demonstrations of military aircraft for the purpose of establishing new performance such as speed and endurance records.

3–22. Purpose of performance records
The following policies apply to the use of Army aircraft for the purpose of performance records:

a. Only Service aircraft will become eligible to establish new performance records. These aircraft will be eligible six months after the first aircraft is delivered to an operational unit.

b. Service requests to engage in public demonstrations to establish performance records and release information on new performance records will be submitted to the Office of the Assistant Secretary of Defense (Public Affairs), for approval or disapproval, after coordination—

(1) By the Office of the Assistant Secretary of Defense (Public Affairs) within DOD.

(2) With other appropriate departments of the Government.

(3) With the National Aeronautic Association.

c. Requests in paragraph 3–22b of this regulation will be accompanied with a description of the specific aircraft, full justification of the purpose of the record attempt, flight plans, and information supporting the attempt.

d. Requests by ACOM, ASCC, DRU, or the ARNG for authority to establish performance records by military aircraft will be submitted to the DCS, G–3/5/7 (DAMO–AV), Washington, DC 20310–0400, at least 60 days prior to any proposed record attempt.

Chapter 4
Training

Section I
Training Program and Literature

4–1. General
The ATP will be in accordance with TC 3–04.11 and the appropriate aircraft ATM.

4–2. Aircrew Training Program waivers and extensions

a. Unit waivers and/or extensions to aircraft ATP requirements may be granted by these authorities to units under their authority—

(1) Commanders of Army commands, Army service component commands, and direct reporting units. This authority will not be delegated below the first general officer in the chain of command.

(2) Director, Army National Guard. This authority will not be delegated below the ARNG Aviation and Safety Division (ARNG–AV).

(3) Commanders, O–6 and above, and the state Army aviation officer. This authority will be delegated only during an operational deployment. After redeployment, these leaders will establish a start training date and may grant unit ATP extensions for up to 180 days from that date.

b. Individual waivers to aircraft ATP requirements may be granted by the first commander, O–6 or above, in the individual’s chain of command or the state Army aviation officer for ARNG aviators.

c. Waivers and/or extensions will state the specific requirement that is waived and/or extended and for what period.

d. Any crewmembers affected by a waiver or extension that have not completed all components of the APART (written examination and hands on performance tests) within the preceding 24 months will be designated readiness level (RL) 3 pending completion of the missing component. This is not waiverable.
e. The aviator requirement in paragraph 4–21d of this regulation to successfully complete an APART instrument evaluation within the preceding ATP year before flying into forecast IMC cannot be waived.

4–3. Publications
Aircraft operator’s manuals and checklists are the primary references governing the operation of a specific aircraft. Aircrew training manuals, field manuals, technical manuals, and training circulars will be used as required. When differences exist between other publications and this regulation, this regulation has precedence. DA Forms 2028 (Recommended Changes to Publications and Blank Forms), recommending changes to these publications, will be submitted through the aviation unit commander to the proponent of the manuals.

4–4. Aircrew information reading files
Aviation units will establish and maintain aircrew training and information reading files per FM 3–04.300 and TC 3–04.11. Assigned aircrew personnel will read and remain familiar with these files.

4–5. Aircrew Training Program
a. The ATP standardizes training and evaluation to ensure combat readiness.

b. The ATP outlined in the ATM is mandatory for all military aviators assigned to operational aviation positions and all other crewmembers specified in ATMs. ATP requirements include hours, tasks, and iterations identified in the appropriate ATMs; SFTS requirements; RL progression; and APART.

c. Army aviators assigned or attached to another Service will meet the requirements of that Service.

d. Department of the Army civilian (DAC) crewmembers will be trained and evaluated as specified in writing by the commander. DAC crewmembers will complete the minimum flying hour, task, and iteration requirements as determined by the commander/hiring authority. The task standards and descriptions will be in accordance with the applicable aircraft ATM.

e. The DAC and contractor instructor pilot and instrument flight examiner personnel serving in flight simulator only positions will be trained and evaluated as necessary to meet the requirements of the job description or statement of work. They will—

   (1) Be qualified as instructor pilots in accordance with paragraph 4–24 of this regulation, in the aircraft related to the flight simulator in which they provide flight instruction or evaluations.

   (2) Be qualified as instrument flight examiners in accordance with paragraph 4–25 of this regulation, in the category of aircraft related to the flight simulator in which they provide instrument instruction and evaluations.

   (3) Be evaluated annually by an SP or IE, as appropriate, who is current in the aircraft related to the flight simulator in which they primarily provide flight and or instrument instruction or evaluations.

f. Instruction or evaluations received from individuals not qualified per paragraphs 4–5e(1) through 4–5e(3) of this regulation, will not be used to satisfy ATP requirements.

g. The commander may excuse an aviator scheduled for separation or retirement from active duty from all ATP requirements. The aviator may be excused beginning no sooner than six months before scheduled retirement or separation date. This does not apply to those who have initiated action to join a RC aviation unit or aviators that have applied to work for the Army as an aviation contractor or DAC. Aviators who are excused from ATP requirements are prohibited from performing crewmember duties.

4–6. Aircraft qualification training
a. Qualification training.

   (1) Formal training at other DA-designated training bases may be conducted upon receipt of approval by the DCS, G–3/5/7 (DAMO–AV). The ARNG specific requests will be routed through ARNG, Aviation and Safety Division (ARNG–AV) to DCS, G–3/5/7 (DAMO–AV).

   (2) Unless otherwise approved by DCS, G–3/5/7 (DAMO–AV), local transition training will not be conducted when a formal DA qualification course or an appropriate USAACE approved POI exists. Exceptions may be granted on an as required basis by DCS, G–3/5/7 (DAMO–AV). Local qualification training in observation helicopter–58A/C and UH–1 helicopters is authorized provided that the unit has qualified IPs/SPs current and designated by DES to conduct touchdown emergency procedure maneuvers, and training is conducted using USAACE-approved training materials. Local qualification training in H–6 helicopters will be managed by the 160th Special Operations Aviation Regiment (A) with oversight from DES and Directorate of Training and Doctrine.

   (3) To ensure standardization throughout Army aviation, flight training will be conducted using the training and evaluation requirements prescribed in the appropriate ATM. Flight training guides (FTGs) are authorized at USAACE and other DA-designated training bases to describe unique tasks, conditions, standards, policies, procedures, and syllabus information that are not in the ATM.

   (4) Training an aviator in an aircraft category other than that in which they are qualified to fly is permitted only in a formal school course (Army Training Requirements and Resources System Course Catalog). An Army aviator qualified
in an aircraft category by another U.S. Military Service is authorized local qualification training in that category. Local qualifications will be conducted under the auspices of an official course utilizing a DA-approved POI.

(5) Aviator and instructor pilot qualification training in nonstandard aircraft will be conducted per chapter 9 of this regulation.

(6) Those aviators who successfully complete qualification training conducted by the active Army, ARNG, USAR, or other U.S. Military Service will be awarded an additional military occupational specialty (MOS) or additional skill identifier (AR 611–1).

(7) A statement of completed aircraft or aircraft system qualification training will be entered in the remarks section of DA Form 759.

b. Additional helicopter qualifications. Active Army, ARNG, and USAR aviators will not receive multiple advanced helicopter qualification courses. Aviators requesting additional advanced helicopter qualification courses will submit a waiver request through their chain of command (O–5 level), through the Aviation Branch of Human Resources Command, to the DCS, G–3/5/7 (DAMO–AV), 400 Army Pentagon, Washington, DC 20310–0400. Individuals will not be enrolled in the Army Training Requirements and Resources System until the waiver is approved. Waiver requests will contain the following information:

(1) Requesting aviator’s name and rank.
(2) Social security number.
(3) Unit.
(4) Current advanced aircraft qualification.
(5) Justification for multiple advanced helicopter qualifications.

c. Exceptions to paragraph 4–6b of this regulation.

(1) Aviators involved in new equipment fielding.
(2) Aviators who are qualified in aircraft scheduled for divestiture by the DCS, G–8 and who are required to train on a replacement advanced aircraft.
(3) Aviators selected for battalion or brigade command but not qualified in at least one of the gaining command’s helicopters.
(4) Aviators selected for the experimental test pilot program.
(5) Aviators assigned to the U.S. Army Special Operations Command.

4–7. Annual proficiency and readiness test

a. The APART will be conducted per TC 3–04.11 and appropriate ATM. The APART is given to each RL 1 and DAC crewmember within the APART period. For DAC crewmembers, individual components of the APART may be accomplished in any calendar quarter designated by the commander.

b. The APART results will be recorded in accordance with FM 3–04.300 and TC 3–04.11.

4–8. Emergency procedures training

Training in emergency procedures will be conducted per ATMs. Training will be in dual controlled aircraft. A qualified IP or SP who is current in that mission, type, design, and series will be at one set of the controls.

a. Airplanes.

(1) Engine failure and/or malfunction training in multi-engine airplanes may only be conducted under the following conditions:

(a) Complete engine stoppage and/or shutdown (propeller or turbine stopped) will be in visual flight rule (VFR) conditions at least 4,000 feet AGL and limited to not more than one engine at any one time.

(b) Simulated engine shutdown on climbout after takeoff may be accomplished, if indicated airspeed is at or above the prescribed velocity of safe single engine operation for that airplane. Exceptions are granted for those aircraft which are specifically authorized V1 engine cuts.

(c) The useable length of the runway used for landing must be at least 4,000 feet long.

(2) Touch-and-go landings may be performed under the following conditions:

(a) Aircraft must have two sets of controls.

(b) An IP or SP must be at one set of controls.

(c) Runway used must meet accelerate and stop distance requirements plus 2,000 feet.

(d) Training involving touch-and-go landings will be done according to the appropriate ATM.

b. Helicopters—single engine.

(1) Hydraulics-off, autorotations (except from a hover), and antitorque touchdown emergency procedures training will be conducted only during aviator and instructor pilot qualification and transition training per formal POI at DA-designated training bases. Touchdown emergency procedures are also authorized for—

(a) Instructor pilots and standardization instructor pilots designated by the commander to conduct touchdown emergency procedures at DA-designated training bases.

(b) The DES IPs and SPs.
(c) Local qualification training in observation helicopter–58A/C and UH–1 helicopters with DES designated IP.
(d) Experimental test pilots while conducting authorized flight testing or training.
(2) Unannounced touchdown autorotations will not be made except for IP and SP training or evaluations.
(3) Touchdown emergency procedures specified above must be conducted in commander designated training locations free from obstructions. There must be air-to-ground communications and crash and fire rescue equipment available. Night training areas will be designated.
(4) Autorotations with power recoveries and terminations with power will be conducted per the ATM.

**c. Helicopters–multi-engine.**

(1) In multi-engine helicopters touchdown autorotations and antitorque touchdown emergency procedure training is prohibited. Autorotations with power recoveries and terminations with power will be conducted per the ATM.
(2) Training emergency procedures conducted to the ground, must be conducted in training locations designated by the commander.

**4–9. Hands-on performance test**

Each crewmember must successfully complete periodic hands-on performance tests by an IP, SP, IE, ME, FI, or SI per the appropriate ATM and/or ATP. Hands-on tests are—

**a. Standardization flight evaluation.** This flight consists of visual flight maneuvers and/or procedures conducted in each primary, additional (only if a different mission, type, design then the primary) and alternate aircraft a crewmember is assigned to operate. The evaluation is conducted to determine the examinee’s ability to perform assigned flight duties. The evaluation will—

(1) Consist of the flight evaluation described in the appropriate ATM.
(2) Be conducted by a designated IP, SP, FI, or SI once each year.

**b. Instrument flight evaluation.** An instrument flight evaluation will determine examinee’s ability to perform assigned flight duties under IMC.

(1) The evaluation will be conducted—
(a) Per TC 3–04.11 and the appropriate ATM.
(b) Annually, in an aircraft equipped with dual controls, by an IE qualified and current in aircraft category or in a compatible simulator by an IE qualified in the aircraft category. Simultaneous evaluations of two aviators may be conducted if both perform the tasks and procedures required by the ATM.
(c) Annually in the examinee’s primary and alternate aircraft if dual rated and required to fly both categories.
(2) The commander may authorize use of a compatible flight simulator if circumstances preclude safe, affordable, or timely evaluation in the aircraft.

(3) Unusual attitudes, simulated engine shutdown, or engine failures, and autorotations will not be initiated while under IMC. An IE, IP, or SP qualified and current in the aircraft being flown must be at one set of the flight controls when performing these maneuvers. If the IE is not also an IP or SP, the IE must be evaluated and authorized by the commander to perform these maneuvers. Airplane IEs who are not airplane IPs may only perform simulated engine failures and unusual attitude recoveries in cruise flight conditions (simulated engine failures may not be performed on an instrument approach or in the traffic pattern). In addition, airplane IEs who are not airplane IPs may not perform single-engine go-arounds, single-engine landings, or touch-and-go landings.

**c. Proficiency flight evaluation.** This evaluation is administered to any rated or nonrated crewmember in any aircraft or compatible flight simulator they are required to operate. No notice proficiency evaluations may be written examinations, oral evaluations, aircraft flight evaluations, or compatible flight simulator evaluations. The proficiency flight evaluation will be conducted—

(1) At the discretion of the commander.
(2) At the direction of HQDA.
(3) By an IP, SP, IE, ME, FI, or SI per the appropriate ATM and/or ATP.
(4) To determine an individual’s proficiency and/or currency.
(5) To determine which phase of training is appropriate for entry into or continuing in the ATP (including RL progression evaluations).

**d. Post-mishap flight evaluation.** This flight evaluation is administered to an aviator or nonrated crewmember to determine their ability to perform required duties following an aircraft mishap. Aviators or NCMs performing crew duties involved in a Class A or B mishap will be suspended from flight duties until successful completion of a flight evaluation. The evaluation will be conducted in the same mission, type, design, and series aircraft in which the mishap occurred. Aviators or NCMs performing crew duties involved in a Class C mishap may be suspended from flight duties and required to successfully complete a flight evaluation at the discretion of the commander. An IP, SP, ME, FI, or SI will conduct the evaluation as per a proficiency flight evaluation in accordance with the appropriate ATM (see AR 40–501 for medical release requirements prior to flight).

**e. Medical flight evaluation.** This flight evaluation measures an aviator’s or nonrated crewmember’s ability to
perform required duties after incurring a medical disability. The evaluation will be administered on the recommenda-
tion of the flight surgeon. The evaluation of flight duties will be conducted by an IP, IE, SP, FI, or SI as per a
proficiency flight evaluation in accordance with the appropriate ATM.

f. Maintenance test pilot evaluator and maintenance test pilot evaluation. This evaluation encompasses maintenance
test flight maneuvers and is conducted in each aircraft the aviator is required to test fly. The evaluation will be
conducted—

(1) To establish MP or ME qualification per the appropriate ATM.

(2) By a designated ME (or commander designated maintenance IP and/or SP in FW) qualified and current in the
aircraft flown.

(3) During the APART in the primary aircraft and during each training year in alternate and additional aircraft.

4–10. Failure to meet the Aircrew Training Program requirements

a. When ATP requirements other than the pilot-in-command requirements for certain company commanders and
warrant officer positions are not met, the commander will investigate. This investigation will take no longer than 30
days from the date of notification. After investigation, the commander will—

(1) Take one of the following actions:

(a) Authorize the crewmember up to a 30-day extension to complete the requirements. The 30-day extension will
start after the commander completes his investigation. Commanders are not authorized to grant themselves an
extension.

(b) Request a waiver of requirements per paragraph 4–2 of this regulation.

(c) Recommend or convene a flying evaluation board per AR 600–105 for the officer crewmember.

(2) If an extension is granted, restrict aviators from performing pilot-in-command duties in the aircraft (primary,
additional, or alternate) and if applicable, briefing officer duties, until the missed ATP requirements are met.

(3) Enter restrictions imposed and extensions granted in an IATF.

(4) Enter extensions and waivers granted to the crewmember on DA Form 759.

b. For primary aircraft, if additional time or waiver is not granted, or if requirements are not met within the
authorized period, the commander will—

(1) For a military aviator, impose a nonmedical suspension per AR 600–105 and either—

(a) Request a waiver of ATP requirements from the appropriate authority per paragraph 4–2 of this regulation.

(b) Recommend or convene a flying evaluation board per AR 600–105 for the officer crewmember.

(2) Terminate flying status order, for a nonrated crewmember, per AR 600–106.

(3) Process per the appropriate Federal Civil Service regulations, for a DAC crewmember.

(4) Enter suspensions imposed and/or waivers granted in the IATF.

(5) Enter suspensions imposed and/or waivers granted to the crewmember on DA Form 759.

c. When the pilot-in-command ATP requirements for specific company commander and warrant officer positions are
not met, the commander will impose a nonmedical suspension per AR 600–105 and investigate. This investigation will
take no longer than 30 days from the date of notification. After investigation, the commander will take one of the
following actions—

(1) Request a 30-day extension from the first O–6 in the chain of command. If approved, the approval will be
reported to the first general officer in the chain of command.

(2) If an extension is not granted or the requirement is not met at the end of the extension, the commander will
either—

(a) Place the officer before a flying evaluation board per AR 600–105.

(b) Request a waiver from this requirement from DCS, G–3/5/7 (DAMO–AV), 400 Army Pentagon, Washington,
DC, 20310–0400.

(c) Remove the officer from the position.

(d) Additionally, a crewmember who fails a hands-on performance test will be restricted from performing the flying
duty (see para 2–6 of this regulation) for which evaluated. The restriction will apply to all aircraft with similar
operating and handling characteristics as listed in the appropriate ATM. Restrictions will be listed in the IATF on DA
Form 7122 and will remain in effect until successful completion of a reevaluation.

(1) When the failure is in the crewmember’s primary aircraft, the commander—

(a) Must reclassify the individual to the appropriate RL.

(b) Must authorize additional training, if necessary.

(c) Reevaluate aviators or impose a temporary suspension from flying duties. If suspension is imposed, flying
evaluation board provisions of AR 600–105 apply.

(d) Reevaluate, provide additional training to, or remove NCMs from flight status per AR 600–106.

(2) When the failure is in a crewmember’s additional or alternate aircraft, the commander must—

(a) Reclassify the individual to the appropriate RL.
(b) Authorize additional training if necessary.
(c) Reevaluate or restrict the crewmember from performing flight duties in that aircraft.

e. Results from flying evaluation boards will be provided to the DCS, G–3/5/7 (DAMO–AV), 400 Army Pentagon, Washington, DC 20310–0400.

4–11. Synthetic flight training system requirements

a. AC and RC RW aviators must use the compatible SFTS for their primary aircraft.
b. Annual training requirements are outlined in the appropriate ATM.
c. Synthetic flight training system requirements may be prorated per the TC 3–04.11 and applicable ATM.
d. For aviators whose primary aircraft does not have a compatible simulator, annual SFTS requirements will be determined by the commander. A maximum of six hours semiannually may be credited toward an aviator’s aircraft flying hour minimums in a noncompatible SFTS device. Helicopter SFTS simulators are listed in table 4–1 in this regulation and DES, in coordination with OSAA and the U. S. Army Reserve Command, will publish and maintain a current list of compatible and noncompatible FW simulators that meet FW requirements.
e. For Army aviation simulators, ACOMs, ASCCs, DRUs, and the ARNG having aviation simulator management authority and senior aviation commanders within their geographical area, working in coordination with Installation Management Command where applicable will—
   1. Establish instructor/operator (I/O) responsibilities, competencies, and requirements in order to support the aviation mission of the units designated to utilize the facilities.
   2. Develop policies and procedures to ensure I/Os have the training, skills, knowledge, and experience to provide effective aviation training.
   3. Develop and implement a viable standardization/quality assurance program within their command to ensure I/O proficiency.

| Designation: UH–60 Operational Flight Trainer, SFTS device 2B38 |
| Compatible Aircraft: UH–60A/L                             |
| Designation: UH–60 Transportable Black Hawk Operations Simulator 2B60M |
| Compatible Aircraft: UH–60L/M, HH–60M                         |
| Designation: MH–60K Combat Mission Simulator, SFTS Device 2B46 |
| Compatible Aircraft: MH–60K                                  |
| Designation: UH–72 Cockpit Procedural Trainer, Device 2C72A  |
| Compatible Aircraft: UH–72                                   |
| Designation: CH–47 Operational Flight Trainer, SFTS Device 2B31 |
| Compatible Aircraft: CH–47D                                  |
| Designation: CH–47 Transportable Flight Proficiency System 2B47F |
| Compatible Aircraft: CH–47F                                  |
| Designation: MH–47 Combat Mission Simulator, SFTS Device 2B47G |
| Compatible Aircraft: MH–47                                  |
| Designation: AH–64D Longbow Crew Trainer 2B64D              |
| Compatible Aircraft: AH–64D                                 |
| Designation: AH–64E Longbow Crew Trainer 2B64E              |
| Compatible Aircraft: AH–64E, AH-64D BLK II                  |
| Designation: AH–64E Longbow Modernized TADS Selectable Task Trainer (MTSTT) |
| Compatible Aircraft: AH–64E                                 |
| Designation: A/MH–6M Combat Mission Simulator, LASAR Light Attack/Assault Reconfigurable |
| Compatible Aircraft: A/MH–6M                                |
| Designation: MH–60M Combat Mission Simulator, SFTS Device 2B60M |
| Compatible Aircraft: MH–60M                                |
| Designation: Aviation Combined Arms Tactical Trainer |
| Compatible Aircraft: None. Commanders may authorize a maximum of six hours semiannually to be credited toward RW aviator’s aircraft flying hour minimums but not compatible simulator minimums. |
4–12. Civilian flight time for reserve component aviators
Flight time or tasks flown in a civilian capacity may be credited toward the ATM requirements of RC crewmembers at the commander’s discretion and will be documented in the IATF.
   a. Tasks performed in Army aircraft by civilians will be credited toward applicable ATM requirements.
   b. Commanders may give credit for tasks performed in civilian aircraft if the aircraft and tasks are similar in all respects to the ATM task requirements.
   c. Flight time acquired in Army aircraft by RC crewmembers while employed by the Government, or flight time acquired in civilian aircraft will not be used as the following:
      1) Training instead of unit training assemblies.
      2) Additional flight training periods.
      3) Entitlement to aviation career incentive pay, total operational flying duty credit, or retirement points.

4–13. Aeromedical training
Flight crewmembers will receive aeromedical and low pressure/high altitude training per TC 3–04.11 and TC 3–04.93.

4–14. Deck-landing operations training
Deck landing operations, including qualification, currency, procedures, and requirements, will be completed as outlined in FM 3–04.564 and the current memorandum of understanding with the Navy.

4–15. Aircraft mission survivability training
   a. An aviation mission survivability training program will be established in tactical units to train flight crew members on the capabilities and employment of Aircraft Survivability Systems. Additional training will include, but is not limited to, threat capabilities, airspace de-confliction and control measures, combined or Joint operations, aviation tactics, techniques, and procedures, and tactical deployment of aviation assets. The training will be administered and evaluated per the appropriate ATM and TC 3–04.11.
   b. A unit without assigned aircraft survivability equipment (ASE) and Army Special Operations aviation units may utilize alternate ASE training programs and devices approved by its ACOM, ASCC, DRU, or the ARNG.
   c. Units will establish and maintain accounts with the Army Reprogramming Analysis Team-Software Engineering to receive and process classified ASE mission data per AR 525–15. Accounts are required to download mission data sets and operational flight programs for ASE.

4–16. Currency
   a. If 60 days have elapsed since the last flight as pilot or pilot-in-command in the aircraft mission, type, design, and series (or series, group, per the applicable ATM) to be flown, the aviator will be administered a proficiency flight evaluation in the aircraft per the ATM.
   b. The NVD and/or systems currency will be per TC 3–04.11 and appropriate ATM. The NVD and/or night vision system proficiency flight evaluations for the purpose of establishing currency will be conducted in the aircraft.
   c. If 90 days have elapsed since the last flight as a nonrated crewmember in the aircraft mission, type, design, and series (or series, group, per the applicable ATM) to be flown, the crewmember will receive a proficiency flight evaluation in the aircraft per the appropriate ATM.

4–17. Similar aircraft
Aircraft with similar operating and handling characteristics will be determined by the applicable aircraft ATM. Currency requirements in any one series aircraft will satisfy the currency requirement for all aircraft with similar operating and handling characteristics (series/group) as determined in the applicable ATM. Separate currency is required for all other aircraft.

Section II
Flight Crew Members

4–18. Flight crews
Unit commanders must establish, in writing, formal flight crew qualification and selection programs. Programs will contain qualification and selection criteria and evaluation requirements. Instructor pilots and safety officers will aid commanders in the selection process. Flight crewmembers will be designated, in writing, by the commander, specifying the duties and flight crew stations that they are authorized to occupy per TC 3–04.11.

4–19. Pilot-in-command
The PC will be—
   a. The individual responsible and having final authority for operating, servicing, and securing the aircraft he or she pilots.
b. Selected per paragraph 4–18 of this regulation for each flight or series of flights.
c. Qualified, current, and designated RL1 in the aircraft mission, type, design, and series.
d. Listed in the flight plan or unit operations log.
e. Responsible for crew and passenger briefings.
f. At a crew station with access to the flight controls.
g. The UTs, IPs, SPs, MEs, or IEs, when evaluating or instructing from a cockpit station with access to the flight controls of the aircraft. In single pilot aircraft with an IE evaluating or instructing from a cockpit station with access to the flight controls that does not meet the requirements of paragraph 4–19c of this regulation, a current and qualified PC will be at the other set of controls.
h. Approved per the mission approval process before each mission. UTs, IPs, SPs, MEs, or IEs, when performing duties from other than the pilot or co-pilot station will participate in the mission approval process.

4–20. Air mission commander
When two or more aircraft are operating as one flight, the unit commander will designate one of the rated crewmembers of the flight as an air mission commander to be in command of all aircraft in the flight. The designation of air mission commander is an assignment of command responsibility and is not an aircrew duty assignment. Air mission commanders will be chosen based upon recent aviation experience, maturity, judgment, their abilities for mission situational awareness, the understanding of the commander’s intent, and not necessarily upon rank or grade. Air mission commanders will participate in the mission approval process along with each PC of each aircraft and may receive the final mission approval for all crews in the flight.

4–21. Pilot
a. The pilot, when designated, will be—
   (1) At a crew station with access to the flight controls.
   (2) Qualified and current in the aircraft mission, type, design, and series.
   (3) Briefed by the PC.
   (4) Listed on the flight plan or unit operations log.

   b. Flight trainees undergoing training and personnel performing limited cockpit duties per paragraph 2–4 of this regulation may perform pilot duties when an IP is at one set of controls. The IP must be qualified and current in the mission, type, design, and series aircraft being flown.

   c. When the operators manual or mission requires two pilots as minimum crew, two pilots qualified and current in the mission, type, design, and series aircraft to be flown are required. When an IP qualified in the mission, type, design, and series aircraft being flown is at one set of controls, the following additional personnel meet this requirement:
      (1) Persons undergoing authorized training.
      (2) Personnel performing limited cockpit duties per paragraph 2–4 of this regulation.
      (3) Personnel receiving orientation flights per paragraph 3–4b of this regulation.

   d. Two aviators that meet the requirements of paragraph 4–9b of this regulation and current in the aircraft category being flown, are required for flights in forecast IMC. Flight trainees meet this requirement when undergoing instrument training and an IP or IE is at one set of controls. Officers performing limited cockpit duty per paragraph 2–4 of this regulation do not meet this requirement unless they have undergone an instrument flight evaluation per paragraph 4–9b of this regulation in the aircraft category being flown within the previous ATP year or are undergoing instrument training.

4–22. Co-pilot
The co-pilot will assist in the performance of tasks as directed by the PC and is an aviator who—
   a. Is at a crew station with access to the flight controls but is not qualified or current in the aircraft being flown.
   b. Is at a crew station without access to the flight controls and performing crewmember duties required for the mission.
   c. Is performing co-pilot duties at other than a flight crew station and is undergoing training or evaluation conducted by an IP, SP, IE, UT, or ME.

4–23. Unit trainer
The unit commander may appoint UTs to conduct specialized training to assist in unit training programs. Rated UTs are prohibited from conducting emergency procedures training in aircraft. UTs are also prohibited from evaluating ATM individual, crew, and maintenance tasks. Commanders may authorize rated UTs to conduct duties from any crew station. They may also authorize UTs to validate successful completion of required training; for example, border and corridor qualifications, local area orientation, and other locally directed requirements. When performing UT duties, the UT must be qualified per the appropriate ATM and current in the aircraft being flown.
4–24. Instructor pilot

a. The IP will train and evaluate aviators, NCMs, and other personnel in designated aircraft per the ATM.

b. To become qualified as an IP for helicopters or airplanes, an aviator must be qualified as a PC and must successfully complete one of the following:

1) Helicopters.
   a. A course of instruction for IPs at an authorized Aviation Proponent School in the mission, type, and design aircraft in which IP duties are to be performed.
   b. An IP equivalency evaluation administered by a SP selected by DES in the mission, type, and design aircraft in which IP duties are to be performed. Commanders will coordinate with DES (ATZQ–ES), Fort Rucker, AL 36362–5214 prior to submitting request for equivalency evaluation to DCS, G–3/5/7 (DAMO–AV), for approval.
   c. Additional IP qualifications within series group (per the appropriate ATM) may be accomplished locally.
   d. In the absence of a course of instruction for IPs at an authorized Aviation Proponent School for the aircraft, ACOM, ASCC, DRU commanders or the DARNG may approve an additional IP qualification to be conducted locally for helicopter IPs who are qualified per paragraph 4–24b1(a) or 4–24b1(b) of this regulation.

2) Airplanes.
   a. A course of instruction for IPs at an authorized Aviation Proponent School in the aircraft category in which IP duties are to be performed.
   b. An IP equivalency evaluation administered by an SP selected by DES in the aircraft category in which IP duties are to be performed. Commanders will coordinate with DES (ATZQ–ES), Fort Rucker, AL 36362–5214 prior to submitting a request for equivalency evaluation to DCS, G–3/5/7 (DAMO–AV), for approval.
   c. In the absence of a course of instruction for IPs at an authorized Aviation Proponent School for the aircraft, an additional IP qualification may be conducted locally for airplane IPs who are already qualified per paragraphs 4–24b2(a) or 4–24b2(b) of this regulation.

4–25. Instrument examiner

a. The IE will conduct instrument training and instrument flight evaluations per the ATM.

b. To become qualified as an IE, an aviator must—
   1) Be an IP in either aircraft category.
   2) Successfully complete a course of instruction for IEs at an authorized Aviation Proponent School.
   3) Successfully complete an IE equivalency evaluation administered by an IE selected by DES. The examinee must be an IP in the aircraft category in which evaluation is conducted. Commanders will coordinate with DES prior to submitting a request for equivalency evaluation to DCS, G–3/5/7 (DAMO–AV) for approval.
   c. Be designated, in writing, by the commander for each category aircraft performing IE duty.
   d. Simulator only IEs not current in the aircraft category must be evaluated annually in the simulation device by an IE who is current in the aircraft represented by the simulator.

4–26. Standardization instructor pilot

a. The SP will evaluate IPs and SPs during all APART and Proficiency Flight Evaluations (PFEs) other than aircraft and NVD currency. They may train and evaluate all rated and nonrated crewmembers as well as other personnel in the designated aircraft per the ATM. SPs have technical supervision of the unit aviation standardization program as specified by the unit commander. They advise the commander at all levels of aviation standardization within the command.

b. Qualified IPs will be designated in writing as SPs by unit commanders and be qualified and current in at least one of the aircraft assigned to the unit. Commanders may authorize SPs to instruct and evaluate from pilot, co-pilot, and/or nonflight crew station.

b. Commanders with multiple aircraft types under their command can designate qualified IPs to serve as the unit SP having technical supervision of the unit aviation standardization program as specified by the commander, without regard for aircraft qualification or currency.

4–27. Maintenance test pilot and/or functional check pilot

Maintenance test pilots perform maintenance test flights and maintenance operational checks to evaluate the airworthiness of the aircraft as established in applicable Army publications (for example, TMs, MTFs and ATMs). Functional check pilots perform flights and ground checks to validate airworthiness according to the Federal Aviation Regulations (FARs) and Original Equipment Manufacturer (OEM) requirements.

a. Aircraft with test flight procedures published in the appropriate MTF manual will be test flown by qualified MP and/or MEs only.

b. To become qualified as a helicopter MP, aviators must successfully complete one of the following:
   1) Aviation Maintenance Officers Course (AMOC) and the associated aircraft Maintenance Test Pilot Course.
   2) An equivalency evaluation administered by a ME selected by DES. Commanders will coordinate with DES
(ATZQ–ES) Fort Rucker, AL 36362–5214, prior to submitting a request for equivalency evaluation to DCS, G–3/5/7 (DAMO–AV) for approval. Individual must show successful completion of the AMOC prior to conduct of the equivalency evaluation.

3 Waivers may be granted on a case-by-case basis through the appropriate ACOM, ASCC, DRU, or ARNG Aviation and Safety Division (ARNG–AV) to the DCS, G–3/5/7 (DAMO–AV).

c. Maintenance test pilots must be qualified in the aircraft to be flown and meet the standardization requirements of the appropriate ATM. Maintenance test pilots will comply with procedures in TM 1–1500–328–23 and the appropriate aircraft MTF manual.

d. Helicopter contractor maintenance test pilots required to be an MP will be qualified by either method above but are not required to attend AMOC.

e. Pilots performing functional ground and flight checks and/or maintenance flights conducted per the airworthiness authority’s approved procedures are not required to be graduates of AMOC or any Maintenance Test Pilot Course; however, they must meet the task iteration and initial and/or annual evaluation requirements of the appropriate ATM or other HQDA-approved guidance. Unless otherwise directed by HQDA, unit commanders will train these pilots locally. Contractors performing this function will be qualified per the contract.

4–28. Maintenance test pilot evaluator
The ME will train and evaluate MPs and other MEs in designated aircraft per the appropriate ATM. To become qualified as a ME for helicopters, a MP must meet the following requirements:

a. At least 50 hours of MP time in the aircraft for which ME duties are sought.

b. Training and evaluation in methods and fundamentals of instruction from an IP, SP, or DES designated ME.

c. An initial evaluation, as described in the appropriate ATM, administered by a DES ME or DES designated ME or completion of a USAACE designated course of instruction.

d. Successful completion of the USAACE ME course or the initial ME evaluation will be documented per TC 3–04.11 and FM 3.04.300.

4–29. Experimental test pilot
The experimental test pilots are graduates of the U.S. Naval Test Pilot School or other accredited test pilot schools and are designated by the commander to perform experimental and engineering flight tests.

4–30. Crew chief
The crew chief is a NCM that is required to perform duties aboard an aircraft that are essential to its operation and/or specific flight mission. They will be—

a. In an assigned crewmember flight position by modified table of organization and equipment (MTOE) and/or table of distribution and allowances (TDA) per AR 600–106, or a noncrewmember performing crewmember duties per AR 600–106, or as required by the contract.

b. Selected per paragraph 4–18 of this regulation for each flight and/or series of flights.

c. MOS-qualified.

d. Trained to perform crewmember duties per the commander’s guide (TC 3–04.11) and the appropriate ATM.

e. Listed on the flight briefing and flight plan or unit operations log.

4–31. Flight engineer
The flight engineer is an NCM that is required to perform duties on the aircraft that are essential to its operation and/or specific flight mission. They will be—

a. In an assigned crewmember flight position by MTOE and/or TDA per AR 600–106, or a noncrewmember performing crewmember duties per AR 600–106, or required by the contract.

b. Selected per paragraph 4–18 of this regulation for each flight and/or series of flights.

c. MOS-qualified.

d. Trained to perform crewmember duties per the commander’s guide (TC 3–04.11) and the appropriate ATM.

e. Listed on the flight briefing and flight plan or unit operations log.

4–32. Flight medic
The flight medic (MO) is an NCM that is required to perform duties aboard an aircraft that are essential to its operation and/or specific flight mission. They will be—

a. In an assigned crewmember flight position by MTOE and/or TDA per AR 600–106, or a noncrewmember performing crewmember duties per AR 600–106, or required by the contract.

b. Selected per paragraph 4–18 of this regulation for each flight and/or series of flights.

c. MOS-qualified.

d. Trained to perform crewmember duties per the commander’s guide (TC 3–04.11) and the appropriate ATM.
4–33. Nonrated crewmember instructor
The FI is a NCM that trains and evaluates NCMs in their designated aircraft system or aircraft mission per the appropriate ATM. To become qualified as an FI, the crewmember must be qualified in accordance with paragraphs 4–30 through 4–32 of this regulation, and complete one of the following:
   a. Successfully complete a course of instruction for FIs at an authorized Aviation Proponent School.
   b. Complete an FI equivalency evaluation administered by an SI selected by DES in the type aircraft in which the FI duties are to be performed. Commanders will coordinate with DES for an equivalency evaluation. An equivalency evaluation only applies to MOSs with an authorized Aviation Proponent School.
   c. If an authorized Aviation Proponent School does not exist or is not available for a specific aircraft or MOS, commanders may select a highly experienced nonrated crewmember to perform FI duties. The selected individual will be trained and evaluated by an IP, SP, or an SI per the appropriate ATM and TC 3–04.11.

4–34. Nonrated crewmember standardization instructor
The SI is an NCM that trains and evaluates any NCMs, FIs, and SIs. They also assist the unit SP with supervision and maintenance of the unit aircrew training program. To be designated by the commander as an SI, the FI must—
   a. Successfully complete a course of instruction for SIs at an authorized Aviation Proponent School.
   b. Complete an SI equivalency evaluation administered by an SI selected by DES in the type aircraft in which the SI duties are to be performed. Commanders will coordinate with DES for an equivalency evaluation.
   c. If an authorized Aviation Proponent School does not exist or is not available for a specific aircraft or MOS, commanders may select a highly experienced nonrated crewmember to perform SI duties. The selected individual will be trained and evaluated by an IP, SP, or an SI per the appropriate ATM and TC 3–04.11.

Section III
Standardization

4–35. Aviation standardization program
   a. The aviation standardization program is designed to ensure a high degree of efficiency and safety in accomplishing the combat mission of the aviation force. This is achieved by command supervision, employment of standard aviation tasks, use of standard publications, and maintenance of a disciplined aircrew force by administration of frequent tests and flight evaluations.
   b. Commanders will—
      (1) Appoint a standardization officer.
      (2) Ensure that Army aircraft are operated according to standard procedures in ATMs and operator’s manuals.
      (3) Designate evaluators, instructors, examiners, and trainers in support of the ATP.
      (4) Ensure that required training, tests, and flight evaluations are completed.
      (5) Review, approve, and implement standardization policies and procedures of the standardization programs.

4–36. Aviation resource management surveys
   a. The Aviation Resource Management Survey (ARMS) Program is designed to assist the commander in assessing the readiness and resource management of all assigned aviation units. The ARMS evaluates the management of unit aviation programs, provides staff assistance, and identifies internal and systemic issues for resolution and not to assign personal or collective blame. The focus of the ARMS includes all aviation components of the combat aviation brigades and as a minimum will be conducted on battalion-sized aviation units. Separate aviation companies, detachments, or aviation units that are geographically separated from their parent organization may be surveyed at the discretion of the commander.
   b. The ARMS teams will be composed of subject matter experts selected based upon their years of experience, judgment, demonstrated knowledge of the subject area, and discretion. They may be drawn from AC, RC, and DAC ranks, or contractors. ACOM, ASCC, DRU, or the ARNG may field their own teams or designate another agency to conduct the ARMS for them. ARMS teams will be augmented by subject matter experts from subordinate units to ensure an effective survey.
   c. The ACOM, ASCC, DRU, or ARNG Aviation Standardization Committees or their designated ARMS agency will maintain an ARMS Guide that outlines all applicable functional areas to be surveyed. As a minimum, the areas to be surveyed will include—flight operations, standardization, tactical operations, Aviation Survivability Equipment–Electronic Warfare (ASE–EW), night vision devices, logistics, maintenance, safety and command support programs, petroleum operations, ALSE, aviation medicine, training, air field, and air traffic services at non-Installation Management Command airfields and heliports.
   d. An ARMS will be conducted for all AC and RC units every 24 to 36 months and should be coordinated with DES for assessment of standardization and proficiency of crewmembers through flight evaluations. Units may be
surveyed more frequently based on location, mission, or as an integral part of the commander's validation of unit
deployment readiness or as directed by HQDA, the branch chief, or the ACOM, ASCC, DRU, or the ARNG.

   e. The ARMS findings are confidential communications between the ARMS team and commanders that are critical
to ensure an open, candid exchange of information. They will be provided to the surveyed units upon completion and an
executive summary of the survey results will be forwarded to the unit through command channels. Results will be
made available upon request for HQDA and the aviation branch chief. Only overall ARMS findings and trends will be
presented during the Aviation Senior Leaders Conference. Specific unit results will not be released without specific
approval of the DCS, G–3/5/7 (DAMO–AV).

4–37. U.S. Army Aviation Senior Leaders Conference
   a. Army aviation senior leaders meet annually to review issues affecting the capability of commanders to perform
missions with aviation assets.

   b. The conference chairman is the CG, USAACE. Membership consists of aviation unit commanders (O–6 and
above), their senior warrant officer, command sergeants major, ACOM, ASCC, DRU, or the ARNG aviation officers,
and other persons designated by the chairman.

   c. For direction and control, senior leaders will meet in formal session at least annually at the call of the chairman.
(1) Approved conference minutes will be forwarded to members for further distribution to subordinate aviation
units.

   (2) Standardization officers will meet in formal session at least annually at the call of the chairman to discuss
standardization issues elevated by the ACOM, ASCC, DRU, or the ARNG standardization meetings for presentation at
the conference. Approved conference minutes will be forwarded to members for further distribution to subordinate
aviation units.

   (3) Funds for travel, per diem, and overtime, if needed, must be approved in accordance with DOD and Army rules
governing Conferences. If funding is approved it will be provided by the member’s parent organization.

   d. Issues to be presented at the annual conference will be addressed to the Commander, U.S. Army Aviation Center
of Excellence (ATZQ–TD), Fort Rucker, AL 36362–5214 (ATZQ–TD@rucker.army.mil). Other standardization and
training issues requiring resolution throughout the year should be sent to Commander, U.S. Army Aviation Center of
Excellence (ATZQ–ES), Fort Rucker, AL 36362–5214, as problems arise.

4–38. Army command, Army service component command, direct reporting unit, and Army National
Guard aviation standardization committees
   a. Commanders monitor the implementation of the U.S. Army Aviation Standardization Program. They provide the
command with a continuing assessment of the program.

   b. Standardization committees will be organized to—
(1) Recommend and review directives, provide guidance, and respond to specific inquiries and requests.

   (2) Coordinate requests for support from subordinate aviation units.

   (3) Prepare and review recommended changes to aviation standardization literature and forward to proponents.

   (4) Develop aviation resource management survey guides for command approval.

   (5) Write and publish supplements to this regulation.

   (6) Meet at the call of the chairman.

   (7) Funds for travel, per diem, and overtime, if required, will be provided by the member’s parent organization.

   c. Members will be designated in writing by the commander as follows:
(1) A chairman and secretary.

   (2) Commander of subordinate aviation units.

   (3) An aviation safety officer, aviation maintenance officer, flight surgeon, aircraft SP, helicopter SP, IE, ME,
tactical operations officer, master gunner, SI, and air traffic services representative.

   d. Standardization and training issues that require action by USAACE or presentation at the Aviation Senior Leaders
Conference will be addressed to Commander, U.S. Army Aviation Center of Excellence (ATZQ–ES), Fort Rucker, AL
36362–5214. Issues that require action by HQDA will be sent to the DCS, G–3/5/7 (DAMO–AV), 400 Army Pentagon,
Washington, DC 20310–0400.

4–39. Installation, theater, or combat aviation brigade standardization committees
Installations or theaters with more than one combat aviation brigade will designate a commander as the committee
chairman and staff the committee equitably from across the brigades. When an installation or theater has one combat
aviation brigade, this requirement can be met by that unit.

   a. Standardization committees will be organized to—
(1) Supervise and coordinate the command implementation of the U.S. Army Aviation Standardization Program.

   (2) Monitor the proficiency of all assigned or attached aviators in operational aviation positions and other crewmem-
bers specified in ATMs.
Coordinate requests for aviation standardization support from assigned or attached aviation units.

Prepare and review recommended changes to aviation standardization literature and forward to proponents.

Monitor ARMS trends.

Prepare installation, theater, or local aviation regulations and policies, as required.

Forward issues to the ACOM, ASCC, DRU, or the ARNG Standardization Committee for resolution.

Meet at the call of the chairman.

Funds for travel, per diem, and overtime, if required, will be provided by the member’s parent organization.

b. Members will be designated in writing by the commander as follows:

(1) A chairman and secretary.

(2) Commanders or chiefs of all aviation units or activities assigned or attached to the installation.

(3) An aviation safety officer, aviation maintenance officer, flight surgeon, aircraft SP, IE, ME, tactical operations officer, master gunner, SI, and air traffic services representative.

4–40. U.S. Army Aviation Center of Excellence

The Aviation Branch is the proponent agency for the U.S. Army Aviation Standardization Program. In addition to the responsibilities listed in paragraph 1–11 of this regulation, the USAACE will—

a. Act as reviewing agency for Army aviation training, standardization, and technical publications to ensure that they are standardized and accurate. This is accomplished by the Director of Evaluation and Standardization (ATZQ–ESL), Fort Rucker, AL 36362–5214, through continuous review and coordination with users and proponents and by developing normal and emergency procedures for aircraft operator’s manuals.

b. Act as approval authority for all aviation POI, initial key personnel training, and new equipment training, and associated training materials to include lesson plans and media. Submit to the Aviation Branch proponent, the Director of Training and Doctrine (ATZQ–TD), Fort Rucker, AL 36362–5214, or by email (ATZQ–TD@rucker.army.mil).

c. In coordination with ACOM, ASCC, DRU, or the ARNG ARMS teams, conduct ARMS for aviation training. Frequency for the conduct of these programs is 24 to 36 months. This includes flight evaluations conducted by DES, to assess standardization and proficiency of crewmembers throughout the Army as directed by the branch chief or HQDA.

d. Advise the branch chief and ACOM, ASCC, DRU, or the ARNG of the status of aviation flight standardization activities. The DES will also provide information about implementing aviation standardization policies and procedures Armywide.

e. Develop and recommend changes to general policy guidance for the U.S. Army Aviation Standardization Program.

Chapter 5
Flight Procedures and Rules

5–1. General

a. Army personnel engaged in the operation of Army aircraft shall comply with applicable—

(1) Federal aviation regulations, laws, and rules.

(2) The ICAO regulations.

(3) Host country regulations, laws, and rules.

(4) Military regulations.

(5) Non-aviation Federal and state laws applicable to Army aviation operations.

(6) DOD FLIP.

(7) Aircraft operator’s manuals and checklists and applicable airworthiness releases.

b. DOD FLIP does not provide procedure charts for all airfields that have instrument approach procedures. Required procedure charts may be added to the DOD FLIP by direct contact with the USAASA, 9325 Gunston Road, Suite N319, Fort Belvoir, VA 22060–5582, or the U.S. Army Aeronautical Services Detachment-Europe. Use of commercial and/or non-U.S. Government aeronautical procedures in Army aircraft is dependent on the source of the procedure and the necessity for a compliance review.

(1) Compliance reviews are not required for commercial and/or non-U.S. Government instrument approach procedures, departure procedures (DPs) and/or standard instrument departures, standard terminal arrival routes, and en route procedures when operating in the U.S., U.S. territories, or at U.S. military facilities overseas.

(2) Compliance reviews are not required for commercial and/or non-U.S. Government standard terminal arrival routes and en route navigational products OCONUS, U.S. territories, or U.S. military facilities.

(3) Compliance reviews are required for all non-U.S. Government Instrument Approach Procedures (IAPs), and DPs/standard instrument departures when operating OCONUS, U.S. territories, or U.S. military facilities. There are no
means to verify area navigation data or Global Positioning System (GPS) procedures for host nation countries. Therefore, compliance reviews cannot be prepared for these procedures.

(4) Units will submit compliance reviews to USAASA at least ten days in advance. The request will include the name and location of the airfield, name, and identification of the procedure, and the date required.

c. Smoking or open flames are prohibited in, or within 50 feet of, Army aircraft.

d. Procedures for packaging, handling, and air transportation of dangerous materials are described in AR 95–27 and FM 38–701. Aircrews assigned to move dangerous materials in Army aircraft will comply with the requirements listed in these publications.

e. Aircraft must be bonded or grounded during fueling, de-fueling, arming, de-arming, oxygen servicing, and loading or unloading of flammable or explosive cargo. Aircraft will be grounded for maintenance in accordance with TM 1–1500–204–23–1, TC 3–04.7, and the applicable aircraft-specific maintenance publication(s).

f. Single pilot operations in IMC are prohibited.

g. When published minimums require conversion between runway visual range (RVR) and miles or metric equivalent, the conversion table in DOD and/or U.S. Government FLIP will be used. The RVR is the controlling visibility factor when published and reported for a runway.

h. The instrument flight rules (IFR) GPS equipment and navigational databases are considered navigation equipment. The GPS is authorized for IFR flight if—

(1) The IFR GPS is authorized in the applicable sovereign airspace. The PC will check prior to use by consulting the DOD FLIP Area Planning.

(2) The installed GPS equipment is certified for IFR operation during the applicable portion of the flight (en route, terminal, and instrument approach use) in accordance with the applicable supplemental type certificate, airworthiness releases, interim statements of airworthiness qualification, aircraft operator’s manual, and/or applicable supplemental operator’s manuals.

(3) The aircraft has installed and operational navigational aid (NAVAID) receiver(s) that can receive available ground-based NAVAID signals for the route of flight, destination and any required alternate airport. If no ground based NAVAIDs are available, the commander must determine the appropriateness of the flight.

(4) During IFR flight with equipment that permits the use of precise positioning service, the GPS will be operated in the precise positioning service mode.

(5) Current DOD and/or U.S. Government FLIP and or approved commercial and/or non-U.S. Government approved products will be carried and accessible at all times when using IFR databases. U.S. Army approved electronic flight bags and/or FLIP may also be used.

(6) The IFR area navigation and/or GPS departure, arrival, en route, and terminal procedures will only be flown using way points retrieved from an approved noncorruptible database. Manual entry or update of the navigation database other than storing user defined data is not authorized (except for approved emergency GPS procedures). Use of commercial IFR databases (for example, Jeppesen) in Army aircraft is only authorized in the U.S. and U.S. territories. Use of commercial databases elsewhere in the world is restricted to en route navigation or to U.S. military facilities overseas unless approved by USAASA and/or U.S. Army Aeronautical Services Detachment-Europe.

5–2. Preflight
Before beginning a flight, the aircrew will acquaint themselves with mission, procedures, and rules.

a. Planning. The aviator will evaluate aircraft performance, departure, en route, and approach data, NOTAMs (including GPS, Digital Aeronautical Flight Information File (DAFIF), temporary flight restrictions (TFR), and local NOTAMs, host country requirements, theater requirements (for example, Air Control Order, Air Tasking Order, special instruction, and so forth)) for the route to be flown, and appropriate DOD and/or U.S. Government FLIP and/or approved commercial and/or non-U.S. Government approved per paragraph 5–1b of this regulation.

b. Fuel requirements. At takeoff, aircraft must have enough fuel to reach the destination and alternate airport (if required) and have a planned fuel reserve of—

(1) Rotary-wing.
   (a) VFR–20 minutes at cruise.
   (b) IFR–30 minutes at cruise.

(2) Fixed-wing.
   (a) VFR (day)—30 minutes at cruise.
   (b) VFR (night)—45 minutes at cruise.
   (c) IFR–45 minutes at cruise.

c. Flight weather planning. Pilots will obtain departure, en route, destination, and alternate (if used) weather information before takeoff. The following weather requirements apply:

(1) Flight into icing conditions. Aircraft will not be flown into known or forecasted severe icing conditions. If a flight is to be made into known or forecasted moderate icing conditions, the aircraft must be equipped with adequate operational deicing or anti-icing equipment.
(2) **Flight into turbulence.** Aircraft will not be intentionally flown into known or forecasted extreme turbulence or into known severe turbulence. Aircraft will not be intentionally flown into forecasted severe turbulence unless ACOM, ASCC, DRU commanders, or the DARNG has established clearance procedures and—

(a) Weather information is based on area forecasts.

(b) Flights will be made in areas where encountering severe turbulence is unlikely.

(c) Flights are for essential training or essential missions only.

(d) Flights are considered extremely high-risk.

(e) Flights are terminated or depart turbulence if severe turbulence is encountered.

(3) **Flight into thunderstorms.** Aircraft will not be intentionally flown into thunderstorms.

(4) **Visual flight rules flight.** Destination weather must be forecast to be equal to or greater than VFR minimums at estimated time of arrival (ETA) through one hour after ETA. When there are intermittent weather conditions, predominant weather will apply. Aviators may file flight plans to a destination within Class B, C, D, and E surface area airspace when weather conditions are forecast to be equal to or greater than known special visual flight rules (SVFR) minima for that airspace at ETA through one hour after ETA. Helicopter SVFR minima is 1/2 mile visibility and clear of cloud unless a higher minimum is required at the airfield. For airspace class, forecast en route weather must permit flight with separation from clouds and flight visibility equal to or greater than minimums stated in table 5–1 in this regulation.

(5) **Instrument flight rules flight.** Destination weather must be forecast to be equal to or greater than the published weather planning minimum for the approach procedure to be flown at ETA through one hour after ETA. When there are intermittent weather conditions, predominant weather will apply. If inoperative components for an approach exist, adjust the weather planning minimums as indicated by the DOD/U.S. Government FLIP and or approved commercial and/or non-U.S. Government approved. Aviators flying helicopters may reduce destination and alternate Category A visibility minimums by 50 percent, but not less than 1/4 mile or metric equivalent. Reduction of visibility for approaches labeled “copter only” is not authorized, and this reduction is applied after all other corrections. Category II approach procedures may not be used in destination or alternate weather planning.

(6) **Area forecast.** If there is no weather reporting service, the aviator may use the area forecast.

(7) **Weather briefing.** Local commanders will establish policies specifying when DD Form 175–1 (Flight Weather Briefing) is required to be filed with DD Form 175 (Military Flight Plan) or DD Form 1801 (DOD International Flight Plan). When a DD Form 175–1 is required, the form will be filled out in its entirety. Weather information will be obtained from a U.S. military weather facility. If U.S. military weather service support is not available, consult DOD and/or U.S. Government FLIP for guidance. Request for exceptions should be submitted through command channels to the Commander, USAASA. For all IFR flights and/or VFR cross country flights, the weather forecast will be void one hour and 30 minutes from the time the forecast is received provided the aircraft has not departed. For airspace class, forecast en route weather must permit flight with separation from clouds and flight visibility equal to or greater than minimums stated in table 5–1 in this regulation.

Local commanders will establish policies specifying when DD Form 175–1 (Flight Weather Briefing) is required to be filed with DD Form 175 (Military Flight Plan) or DD Form 1801 (DOD International Flight Plan). When a DD Form 175–1 is required, the form will be filled out in its entirety. Weather information will be obtained from a U.S. military weather facility. If U.S. military weather service support is not available, consult DOD and/or U.S. Government FLIP for guidance. Request for exceptions should be submitted through command channels to the Commander, USAASA. For all IFR flights and/or VFR cross country flights, the weather forecast will be void one hour and 30 minutes from the time the forecast is received provided the aircraft has not departed. Weather forecast may be extended after coordination with a weather facility. The crew should update weather briefing information on stopover flights.

d. **Flight plan.** Aircraft will not be flown unless a flight plan (military or civil) has been filed or an operation’s log completed. The PC is responsible for the flight plan and has flight plan approval authority. When FAA Form 7233–1 (Flight Plan), DD Form 1801 (DOD International Flight Plan), or DD Form 175 are used, they will be filed per DOD and/or U.S. Government FLIP. The FAA Form 7233–1 is available at the FAA forms Web site (http://forms.faa.gov). Local commanders will establish policies specifying the flight plan or operations log to be used.

(1) All Army aircraft that are instrumented for IFR flight and are flown by an instrument-rated pilot will operate on IFR flight plans except when—

(a) Flight is primarily for VFR training.

(b) Time will not permit mission completion under IFR.

(c) Mission can only be accomplished under VFR.

(d) Excessive air traffic control (ATC) departure, en route, or terminal area delays are encountered.

(e) Hazardous weather conditions must be avoided.

(f) Aircraft is being flown single pilot.

(2) Concerning a stopover flight, if the original manifest does not list passenger or crew changes at stopover points, changes will be filed with military installation base operations, FAA flight service, or other competent authority.

(3) After departing a nonmilitary airfield, the PC will advise flight service station or other competent authority of the departure time.

(4) Locally produced operations logs may be used for local flights.

(5) A crew and passenger manifest is required for all flights. For tactical or tactical training flights, the passenger manifest will be prepared and retained by the supported unit.

**e. Alternate airfield planning.** An alternate airfield is required when filing IFR to a destination under any of the following conditions:

(1) Radar is required to execute the approach procedure to be flown.

(2) The instrument approach navigational aids to be used are unmonitored.
The predominant weather at the destination is forecast at ETA through one hour after ETA to be less than—
(a) Ceiling 400 feet above the weather planning minimum required for the approach to be flown.
(b) Visibility one mile (or metric equivalent) greater than the planning minimum required for the approach to be flown.

An alternate is not required if descent from en route minimum altitude for IFR operation, approach, and landing can be made in VFR conditions.

Alternate airfield selection
(1) An airfield may be selected as an alternate when the worst weather condition for that airfield is forecast for ETA through one hour after ETA to be equal to or greater than—
(a) Ceiling 400 feet above the weather planning minimum required for the approach to be flown and visibility one mile (or metric equivalent) greater than the weather planning minimum required for the approach to be flown.
(b) The VFR minimums and descent from en route minimum altitude for IFR operation, approach, and landing can be made in VFR conditions.

(2) An airfield will not be selected as an alternate except per paragraph 5–2(f)(1)(b) of this regulation—
(a) If the approach procedure to be used at the alternate is shown not authorized in FLIP.
(b) If radar is required for the approach procedure to be used at the alternate.
(c) If the instrument approach navigational aids to be used are unmonitored.
(d) If a Class B, C, D, or E surface area airspace does not exist or is not in effect at the airport to be used.
(e) If the GPS is required for the approach.

Minimum equipment required for flight. The minimum equipment required for flight is shown in table 5–2 in this regulation. Items listed in table 5–2 under the appropriate condition are considered the minimum for flight under that condition. Exceptions—
(1) FW aircraft that have an FW project management office/DES approved required equipment list or minimum equipment list, and/or the configuration deviation list will operate in accordance with those approved documents. These documents will also be used to determine the flight status of the aircraft.
(2) Rotary wing aircraft with a required equipment list or minimum equipment list published in the AMCOM approved aircraft operator’s manual will operate in accordance with that list.
(3) Recognizing rapid fielding of modern equipment, PEO Aviation, in coordination with the Aviation Engineering Directorate, may substitute advanced replacement equipment for the items listed within table 5–2 provided they clearly annotate the item replaced and under what conditions it is required within the AMCOM approved aircraft operator’s manual or by supplemental type certificate flight manual supplement, when required.
(4) In addition to the above, minimum equipment and training requirements for category II Instrument Landing System (ILS) approaches are shown in table 5–3 in this regulation.

Weight and balance. The PC will ensure—
(1) The accuracy of computations on the DD Form 365–4 (Weight and Balance Clearance Form F–Transport/Tactical).
(2) That a completed DD Form 365–4 is aboard the aircraft to verify that the weight and center-of-gravity will remain within allowable limits for the entire flight. Several DD Forms 365–4 completed for other loadings also may be used to satisfy this requirement. In this case, the actual loading being verified must clearly be within the extremes of the loading shown on the DD Forms 365–4 used for verification.

Prior to instrument flight rules Global Positioning System flight—
(1) Pilots will check GPS NOTAMs and/or receiver autonomous integrity monitoring via the DINS Web site, an FAA flight service station, or other approved NOTAM source. For GPS operations in civil European airspace, predictive receiver autonomous integrity monitoring is also available at the Eurocontrol Augur Web site (http://augur.ecacnav.com/augur/app/home). If using DAFIF as a database, DAFIF notices (W series) for the route of flight will be checked via the DINS Web site. If using a commercial database, the vendor’s NOTAMs will be checked prior to flight.
(2) Pilots will ensure all required navigation performance levels can be met when operating in designated required navigation performance airspace. When a designated required navigation performance level cannot be achieved, the pilot will revise the route or delay operation until the appropriate required navigation performance level can be ensured.
(3) The IFR GPS flight will not be conducted with an expired navigational database.
(4) The appropriate suffix for GPS and/or area navigation equipment will be entered on the flight plan. When operating in the U.S. National Airspace System, IFR GPS may be used as a substitute to the automatic direction finder and/or distance measuring equipment receivers subject to the terms and restrictions in the FAA Aeronautical Information Manual. When operating OCONUS, consult DOD FLIP and/or host nation for authorized substitutions.

5–3. Departure procedures
a. All aviators will comply with published nonstandard IFR takeoff minimums and departure procedures in flight information publications.
b. The aviator flying the aircraft on takeoff who has logged 50 hours or more of actual weather time as pilot-in-command has no Army takeoff minimums. Instrument time flown in a simulator does not apply.
c. The aviator flying the aircraft on takeoff that does not meet paragraph 5–3b of this regulation has the following minimums:
   (1) Airplanes—ceiling 200 feet and either visibility 1/2 mile, RVR 2,400, or metric equivalent.
   (2) Helicopters—ceiling 100 feet and either visibility 1/4 mile, RVR 1,200 feet, or metric equivalent.
   (3) The RVR may be used when takeoff is made from the runway for which RVR is reported.
d. SVFR flights within and departures from Class B, C, D, and E airspace are authorized provided the weather requirements of 14 CFR 91 or applicable host country flight regulations are met and an appropriate ATC clearance is obtained. Army helicopter SVFR minima is one-half mile visibility and clear of clouds unless higher minimum is required at the airfield.
e. The IFR GPS departure procedures are as follows:
   (1) The area navigation and/or GPS DP must have terminal receiver autonomous integrity monitoring availability prior to departure.
   (2) The Course Deviation Indicator (CDI) sensitivity will be set to + or - 1nm sensitivity or as published. Cross check of published paper DPs to the database retrieved procedure is required.
   (3) The FAA National Aeronautical Charting Office “copter only” departure procedures will be flown at 70KTS or as published.

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<td><strong>Army visual flight rule weather minimums</strong></td>
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<td>G (Rotary Wing) – more than 1,200 ft above surface but less than 10,000 ft MSL</td>
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<tr>
<td>G (Rotary Wing) – more than 1,200 ft above surface at or above 10,000 ft MSL</td>
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<tr>
<td>G (Fixed Wing) – less than 10,000 ft MSL</td>
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<td>G (Fixed Wing) – at or above 10,000 ft MSL</td>
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<tr>
<td>Required</td>
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<tr>
<td>1. Heading indicator</td>
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<tr>
<td>2. Attitude indicator</td>
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<tr>
<td>3. Turn and slip indicator</td>
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<tr>
<td>4. Airspeed indicator</td>
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<tr>
<td>5. Pressure altimeter</td>
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<tr>
<td>6. Vertical speed indicator²</td>
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<tr>
<td>7. Magnetic compass⁴</td>
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<tr>
<td>8. Fuel quantity indicator system</td>
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<tr>
<td>9. Clock and/or watch with seconds</td>
</tr>
<tr>
<td>10. Free air temp</td>
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<tr>
<td>11. Pilot heater</td>
</tr>
<tr>
<td>12. Radar altimeter(s)</td>
</tr>
<tr>
<td>13. Automatic Flight Control System/DASE/FMC</td>
</tr>
<tr>
<td>14. Vertical gyro and indicators</td>
</tr>
<tr>
<td>15. FCC/AHARS/INS/Heading and Attitude Reference System</td>
</tr>
<tr>
<td>16. Standby flight instruments⁴</td>
</tr>
<tr>
<td>17. Commo equipment</td>
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<tr>
<td>18. Nav equipment</td>
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<tr>
<td>19. Transponder with Mode C or S</td>
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<tr>
<td>20. Anticollison Lighting system</td>
</tr>
<tr>
<td>21. Position/Instrument light(s)</td>
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<tr>
<td>22. Landing/Search light³</td>
</tr>
</tbody>
</table>
Table 5–2
Required equipment—Continued

| 23. Flashlight | X | X |

Notes:
1. Equipment requirements designated in this table for flight in day, night, IMC, or using NVDs, must be operational and is the minimum required by this regulation without any regard for mission requirements. Refer to applicable approved minimum equipment list or REL/configuration deviation list and/or applicable aircraft operator’s manual for additional or alternative requirements.
2. Items 1 through 6 must be operational at the flight station to be occupied by the PC for FW aircraft and operational at both pilot’s stations in RW aircraft where provisions exist. All vacuum and electrical sources for the flight instruments must be operational. Aircraft utilizing Electric Flight Instrument Systems and/or PFDs to display the data required above must have backup system(s) that display and/or feed the required data that will be operational prior to departure. Failure of one of the displays or data feed systems in flight must be evaluated to determine the impact on mission and further flight.
3. The NVD Infrared (IR) light must be installed and operational for all NVD flights except Forward Looking Infrared (FLIR) aircraft. Failure of the light in flight must be evaluated to determine impact on mission and further NVD flight.
4. Installed, it must be operational. All Electronic Flight Instrument Systems-equipped FW aircraft must have an operational Standby Attitude indicator or Electronic Standby Instrument System in order to be dispatched for flight operations. An electronic turn indicator coupled with either an electronic or mechanical inclinometer on any display constitutes an operational turn and slip indicator. Rotary wing aircraft must have a magnetic compass or Electronic Standby Instrument System capable of displaying heading information.
5. Applies only to CH–47 operation on water. A visible horizon and two or more highly visible stationary objects for cues on the waters surface must be present at the landing site.
7. Visible horizon may be substituted for attitude indicator for VFR flight.
8. Navigation systems used for IFR operations must comply with FAA and/or host nation requirements. Operating instructions and limitations defined in applicable operator’s manuals, airworthiness releases, or supplemental type certificates should be used to determine compliance.
9. Applies to AH64E and AH–64D aircraft only.
10. Must be on during operations in the National Airspace System, but only one aircraft must meet this requirement when flying in formation.

Table 5–3
Aircraft equipment requirements for category II approaches

<table>
<thead>
<tr>
<th>Minimum equipment</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rain removal system</td>
<td>None.</td>
</tr>
<tr>
<td>Auto throttle system</td>
<td>Required for all jets if operations based on dual flight directors and for all aircraft using split axis coupling.</td>
</tr>
<tr>
<td>Single flight director with dual displays</td>
<td>Single axis authorized if basic glide slope information is displayed on same instrument.</td>
</tr>
<tr>
<td>Above and single automatic approach coupler</td>
<td>Then split axis authorized.</td>
</tr>
</tbody>
</table>

OR

Two independent flight director systems with Instrument Failure Warning1 system and the following additional equipment:

A radar altimeter or inner marker and an attitude gyro with calibrated pitch markings or Flight director pitch command or Computer pitch command

More modern equipment displaying the same information authorized.

Aviator Evaluation Requirements2 and 3

To be considered current for Cat II approaches, crewmembers at the controls will be evaluated by a qualified and current Cat II instrument flight examiner on their ability to perform the maneuvers listed below at least annually for the specific aircraft being flown.

<table>
<thead>
<tr>
<th>Low Approach System</th>
<th>Maneuvers</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Dual flight director</td>
<td>Two ILS approaches to 100 feet; from one a landing will be accomplished and one to a missed approach.</td>
</tr>
<tr>
<td>2. Flight director and approach coupler</td>
<td>Two ILS approaches to 100 feet; one using flight director and one using auto, coupling from one a landing will be accomplished and from the other a missed approach.</td>
</tr>
</tbody>
</table>

Notes:
1. Flight crew must have assigned crew duties and procedures to provide immediate detection of essential instrument and equipment failures.
2. Either an aircraft or an approach visual simulator may be used. When accomplished in an aircraft, a hood will be used to simulate the weather. When accomplished in an approved visual simulator, the system must simulate the appropriate category of weather, ceiling, and visibility, and be equipped with an appropriate lighting system that depicts the approach and runway lights.
3. Co-pilots will demonstrate their ability to perform assigned copilot functions.
5–4. En route procedures

a. Instrument meteorological conditions. During IMC flight, all instruments and communication equipment in the cockpit will be kept in the “on” position and immediately available for use.

b. Over-the-top flights. Aircraft will not be flown above a cloud or fog layer under VFR for more than 30 minutes unless—
   (1) The aircraft is equipped for IMC flight per table 5–2 in this regulation and not restricted from IMC flight.
   (2) All instrument flight rules and requirements can be met for the remaining flight.

c. Communications.
   (1) Instrument flight rules. Reports and radio phraseology will conform to DOD and/or U.S. Government FLIP.
   (2) Visual flight rules. Aviators will monitor appropriate frequencies and make position reports as required.

d. Holding.
   (1) An aviator may request ATC clearance to hold at any time if fuel and alternate requirements can be met.
   (2) Holding will be in accordance with DOD/U.S. Government FLIP and or approved commercial and/or non-U.S. Government approved procedures.

e. Over flying national security areas. Aviators shall avoid overflight of national security areas below 2,000 feet AGL. Exceptions will be per instructions in DOD and/or U.S. Government FLIP.

5–5. Arrival procedures

a. Approach.
   (1) Acceptance of charted visual approach clearance is not mandatory.
   (2) When an instrument approach is necessary, only approved DOD and/or U.S. Government and or approved commercial/non-U.S. Government approved procedures per paragraph 5–1b in this regulation will be flown. The Secretary of Defense has established limited waiver authority to this requirement for urgent, short notice humanitarian, contingency, medical evacuation, special access, and urgent State Department missions. The first O–8 flag officer in the chain of command with responsibility for mission risk assessment approval may waive the terminal instrument procedure review for use of non-U.S. Government procedures for these missions case by case. When waived, the National Military Command Center, and Commander, USAASA and/or U.S. Army Aeronautical Services Detachment-Europe must be notified immediately.
   (3) When published landing visibility minimums require conversion between RVR and miles or metric equivalent, the conversion table in DOD FLIP will be used. The RVR is the controlling visibility factor when published and reported for a runway. RVR, however, will not be used with a circling approach.
   (4) Dual very high frequency omni range (VOR) equipment requirements specified on approach charts do not apply to Army aircraft. Off-tuning from the approach aid to identify an approach fix is authorized. Dual VOR approach minimums apply.
   (5) An approach may be initiated, regardless of ceiling and visibility.
   (6) Category II ILS approaches in IMC are authorized only when all provisions of table 5–3 in this regulation are met. Descent on category II ILS approaches is restricted to the highest decision height published for the procedure selected.
   (7) Practice hooded approaches may be made to the decision height or minimum descent altitude when the aircraft has dual controls and a pilot is at one set of controls. In all other cases, hooded approaches may not be made lower than 500 feet AGL.
   (8) SVFR flights within Class B, C, D, and E airspace are authorized provided the weather requirements of 14 CFR 91 or applicable host country flight regulations are met and an appropriate ATC clearance is obtained. Army helicopter SVFR minimum is one-half mile visibility and clear of cloud unless higher minimum is required at the airfield.

b. Missed approach. The published missed approach procedure or other procedures as directed by ATC will be flown. Additional approaches may be flown provided fuel, including reserve, is adequate. An ATC clearance must be requested and approved before proceeding to another airfield. A change of flight plan will be made per DOD and/or U.S. Government FLIP if time permits.

c. Traffic patterns.
   (1) Large (above 12,500 lbs) and turbine powered airplanes will be flown at 1,500 feet above the surface of the airport unless deviation required to maintain proper cloud clearance. Exceptions will be as prescribed in DOD and/or U.S. Government FLIP, approved commercial and/or non-U.S. Government approved procedures, or as directed by ATC.
   (2) Helicopter traffic patterns at Army heliports and airfields are normally flown at 700 feet AGL. At other airports, helicopters will avoid the flow of airplane traffic.

d. Landing. An aircraft will not be flown below the published minimum descent altitude (MDA) or an approach continued below the decision altitude/height unless the following exist:
   (1) The approach threshold of the runway, or the approach lights or other markings, identifiable with the approach end of the runway or landing area, must be clearly visible to the pilot.
The aircraft must be in a position from which a safe approach to the runway or landing area can be made. When the flight terminates, the PC will ensure the flight plan is closed as shown in DOD/ U.S. Government FLIP.

Instrument flight rules, Global Positioning System approach, and missed approach procedures.

1. Terminal procedures authorized to be flown are—area navigation and/or GPS procedures and GPS overlay approaches if the title contains “or GPS” and the procedure has a final approach fix and the procedure can be retrieved from the database.

2. Flight management systems may be used for flight guidance when conducting conventional NAVAID terminal procedures (for example, nondirectional beacon, VOR, tactical air navigation), provided primary NAVAIDS are tuned, displayed, and monitored during the approach. Additionally, aircrews will comply with the capabilities and limitations listed in the aircraft operator’s manual and/or airplane flight manual supplements.

3. Pilots will verify the GPS begins to sequence when entering the terminal area and that the approach is armed (or system equivalent) prior to the initial approach fix and that course sensitivity on the CDI changes appropriately.

4. If a receiver autonomous integrity monitoring failure and/or status annunciation occurs or the GPS does not sequence to the “active approach” mode (or system equivalent), the pilot will request an alternate procedure or if already passed the final approach waypoint, the pilot will climb to the missed approach altitude and execute the missed approach.

5. The GPS approach minimums—
   a. Approach minimums listed in the GPS Landing System (GLS) (or Localizer Performance with Vertical Guidance (LPV)), and Lateral navigation (LNAV)–Vertical navigation (VNAV), categories will only be flown if the aircraft is appropriately equipped.
   b. Use of barometric vertical navigation decision altitude is not authorized with a remote altimeter setting. If local altimeter setting is not available, the MDA becomes the published LNAV MDA. Published DOD and/or U.S. Government FLIP minimum cold temperature restrictions apply. Circling from area navigation and/or GPS approaches may be accomplished if circling minimums are published.

6. Upon missed approach, pilots will ensure the missed approach function has been appropriately activated on the GPS.

7. The FAA National Aeronautical Charting Office copter missed approach procedures will be flown at 70 KTS or as published to ensure obstacle protection.

5–6. Emergency recovery procedures

Emergency recovery procedures will be developed as a contingency plan for Inadvertent Instrument Meteorological Conditions (IIMC). Recovery procedures will be developed using approved DOD and/or U.S. Government instrument approaches in the area of operations and should be coordinated with the servicing ATC. In locations without an approved DOD and/or U.S. Government approach or commercially developed approach, an emergency GPS recovery procedure will be developed per the ATM. If used as part of an emergency recovery procedure, non-DOD and/or U.S. Government instrument approaches will be submitted for terminal instrument procedures review and approval through HQ, USAASA or U.S. Army Aeronautical Services Detachment-Europe. Pending approval, these approaches will only be used in VMC or during an actual emergency. The first O–6 in the chain of command with mission risk approval authority must approve the emergency recovery procedure containing a nonapproved instrument approach. This authority will not be further delegated. The risk associated with the recovery procedure will be mitigated through the mission approval process and further defined in unit standard operating procedures. Once DOD approved instrument approach procedures are available, other approach procedures are no longer valid and will only be used in VMC. Planned use of non-DOD and/or U.S. Government instrument procedures for flight in IMC requires approval per paragraph 5–5 of this regulation. Manual entry of waypoint data is permissible when using emergency GPS procedures. Flight in IIMC which violates FAA, host country, or ICAO regulations will be considered deviations per paragraph 1–6 of this regulation and will be treated per paragraph 2–13 of this regulation.

Chapter 6
Safety of use

Section I
Safety of Flight Message and Aviation Safety Action Message

6–1. General
   a. The SOF messages are electronically transmitted high priority notifications where a moderate to high initial risk determination (safety condition) has been made per AR 385–10 or an Army approved risk matrix. These high priority messages require an immediate action prior to the next operation.
b. ASAMs are electrically transmitted messages, which convey aviation maintenance, technical, or general aviation interest information where a low to moderate risk safety condition has been determined per AR 385–10 or an Army approved risk matrix. ASAMs are of a lower priority than SOF messages. These messages will not require immediate action and provide to the full extent possible, mitigation of any operational impacts.

c. For specific information on SOFs, ASAMs, SOF funding, and the safety message process, see AR 750–6.

6–2. Authority

The CSA or VCSA are the high-risk acceptance authorities for all fielded systems within the Army and can accept the risk associated with a materiel defect that causes the Armywide grounding or deadlining (not mission capable) of an entire mission design series equipment fleet or a majority of a fleet. This also applies to a portion of a fleet that if grounded or not mission capable will have negative impacts on mission requirements as determined prior to message release by the DCS, G–3/5/7 or their designated representative.

6–3. Exceptions to provisions of safety message

a. The CSA or VCSA may approve the return to operation for an entire mission design series equipment fleet or a majority of a fleet when the actions specified in a safety message will not reduce the risk level below a high-level.

b. ACOM, ASCC, DRU, or the DARNG may authorize temporary exception from safety and maintenance message requirements. Exceptions may only occur when combat operations or matter of life or death in civil disasters or other emergencies are so urgent that they override the consequences of continued operation.

c. ACOM, ASCC, DRU, DARNG, or the Installation Management Command commander (grade O–8 or higher) may request exceptions (other than temporary for emergency situations as outlined above) from safety or maintenance message requirements from the AMC major subordinate command (MSC) with sufficient justification.

d. The commander of the applicable MSC is the approving authority for exceptions to safety and maintenance message provisions except for safety messages that result in fleet wide or a majority of a fleet grounding or not mission capable.

Section II

The Army Aviation Combat Assessment Program

6–4. Objective

Damage and loss data is used by Army and Joint agencies for development and procurement decisions. The Survivability/Vulnerability Information Analysis Center maintains this data for DOD. This section standardizes the collection of combat damage data for manned and unmanned Army Aviation platforms.

6–5. U.S. Army Aviation Center of Excellence responsibilities

a. The USAACE will maintain the capability to analyze and archive this data. Damage to Army Aviation platforms caused by weapons and weapons effects will be evaluated by USAACE and archived at the Survivability/Vulnerability Information Analysis Center, Defense Technical Information Center.

b. Unit commanders will ensure damage to aircraft from weapons or weapons effects that is incurred during missions is recorded and submitted in accordance with this chapter.

6–6. Procedures

a. The Aviation Intermediate Maintenance Organization will record aircraft damage and required repairs. Photographs of exterior and interior damage and any affected components should be taken prior to repair or removal of components. Estimation of the cost of repairs and the man hours to complete the labor is not required.

b. Unit tactical operations officers or designated personnel will determine the weapon system that caused the damage and submit all weapon assessment data and repair information to Tactics Division, USAACE via secure internet protocol router network. Detailed procedures for threat determination, required format, and security procedures may be found on the USAACE secure internet protocol router network Web site and/or the Aircraft Shoot-Down Assessment Team link available at http://www.usaace.army.smil.mil/asdat/.

6–7. Management

a. The CG, AMCOM will designate PEO Aviation to serve as the overall configuration control manager of the Army fleet of standard Army aircraft. In coordination with the USAACE and the DCS, G–3/5/7, subordinate PMs of PEO Aviation will establish a baseline configuration for each standard Army aircraft and recommend approval for any deviation from the baseline. Approval of deviations from the standard configuration will be made by the DCS, G–3/5/7 (DAMO–AV). Deviations must meet a recognized Army operational requirement.

b. Each PM will serve as the individual configuration control manager of the platform under their control. These individual PMs will work with commands desiring deviations from the approved standard baseline and—

(1) Determine if an approved deviation already exists that would fit the need.
(2) Determine the cost and impact of such deviations and package the recommendation for consideration, after coordinating with the applicable agencies.

(3) For deviations that do not meet a previously approved Army requirement, PEO Aviation will coordinate the request with the USAACE, AMCOM, and the DCS, G–3/5/7 (DAMO–AV) for final approval.

(4) For deviations that meet a previously approved Army requirement, PEO Aviation will coordinate the request with the DCS, G–3/5/7 for final approval.

c. The commanders of ACOMs, ASCCs, DRUs, and the ARNG will maintain their aircraft to the Army standard baseline configuration. Commanders wishing a deviation to the baseline will coordinate with the aircraft PM for technical assistance and forwarding of the request for approval by the DCS, G–3/5/7 (DAMO–AV).

Chapter 7
Weight and Balance

7–1. Weight and balance, general
This chapter provides a weight and balance control system for operation of Army aircraft.

a. The CG, AMC supervises the direction of overall command activities involving aviation weight and balance.

b. The CG, TRADOC will monitor the overall training of aviation weight and balance. The CG, TRADOC will—

(1) Train operational unit weight and balance technicians in the following procedures:

(a) Weighing aircraft.

(b) Computing weight and balance.

(c) Maintaining weight and balance records for Army aircraft.

(2) Train Army aviators and flight engineers in computing weight and balance.

(3) Train personnel to provide weight and balance services at support maintenance facilities.

c. The CG, AMCOM is the technical proponent for all U.S. Army aviation weight and balance. The CG, AMCOM will—

(1) Establish aviation weight and balance requirements and procedures in coordination with other Army agencies.

(2) Assist HQDA and AMC in the development of aviation weight and balance policy.

(3) Prepare and make technical data available on weight and balance.

(4) Procure and deliver weight and balance data for Army aircraft.

(5) Make engineering services available to assist service activities in solving weight and balance problems.

d. Commanders of installations and units that operate, maintain, repair, or modify Army aircraft will—

(1) Ensure effective application of these policies and procedures.

(2) Develop command directives to implement these policies and procedures.

(3) Appoint in writing, weight and balance technicians.

e. PC responsibilities for weight and balance are described in paragraph 5–2h of this regulation.

7–2. Weight and balance technicians

a. To qualify as a weight and balance technician, an individual must satisfactorily complete the 15-series career management field Advanced Leadership Course, AMOC, or comparable weight and balance course approved by TRADOC. Comparable weight and balance courses are defined as formal or institutionalized training from other DOD service schools, FAA, and/or National Transportation Safety Board sanctioned or OEM specific training for a particular airframe.

b. If a weight and balance technician trained in accordance with paragraph 7–2a of this regulation is not available in the unit, commanders may delegate the task.

c. Weight and balance technicians will—

(1) Prepare and maintain up-to-date and accurate individual aircraft weight and balance files as described in paragraph 7–4 of this regulation for all aircraft under their jurisdiction.

(2) Perform required review of individual aircraft weight and balance files as described in paragraph 7–6 of this regulation for all aircraft under their jurisdiction.

(3) Comply with weight and balance provisions of applicable modification work orders or TMs pertaining to aircraft modifications.

(4) Provide training and assistance in the use of weight and balance data and load adjuster devices, when applicable.

(5) Ensure aircraft under their jurisdiction are weighed per paragraph 7–7 of this regulation.

7–3. Aircraft weight and balance classifications

Army aircraft weight and balance classifications are stated in the appropriate operator’s manual and are defined as follows:
a. Class 1 aircraft are those whose weight or center-of-gravity limits can sometimes be exceeded by loading arrangements normally used in tactical operations. Therefore, limited loading control is needed.

b. Class 2 aircraft are those whose weight or center-of-gravity limits can readily be exceeded by loading arrangements normally used in tactical operations or those aircraft designed primarily for transporting troops and other passengers. Therefore, a high degree of loading control is needed. Also, all aircraft whose weight and balance class is not stated in the operator’s manual will be considered Class 2.

7–4. Aircraft weight and balance file

a. This file will contain all of the aircraft’s weight and balance data. The aircraft designation and serial number will be noted on the file folder. Each aircraft will have its own file that will usually be retained in the quality control office when an aircraft will be operated in close proximity to its home station or similar single location. When operating away from home station, the weight and balance file may be placed aboard the aircraft for transient purposes only. The file may be removed from the quality control office at the discretion of the local commander provided the following conditions are met:

(1) The file is located so that it is readily available for update in the event of removal or addition of aircraft equipment or other actions.

(2) Duplicate copies of all DD Forms 365–4 in the file are carried aboard the aircraft.

(3) Local procedures are established to assure that duplicate DD Forms 365–4 carried aboard the aircraft are updated and remain valid.

b. The file will include the following forms and charts, which will be completed and retained in accordance with instructions of TM 55–1500–342–23:

(1) DD Form 365 (Record of Weight and Balance Personnel).

(2) DD Form 365–1 (Chart A–Basic Weight Checklist Record).

(3) DD Form 365–2 (Form B–Aircraft Weighing Record).

(4) DD Form 365–3 (Chart C–Basic Weight and Balance Record).

(5) Chart E (Loading Data and Special Weighing Instructions). The original Chart E placed in the weight and balance file by the aircraft manufacturer will be retained in the file until a revised Chart E is presented in the aircraft maintenance manual. Following publication of the Chart E in the maintenance manual, the Chart E in the aircraft file will no longer be required and will be destroyed locally.

(6) DD Form 365–4. Sufficient completed DD Forms 365–4 will be in the file, enabling the pilot to determine proper aircraft loading for any normal anticipated unit mission and verify that the weight and center-of-gravity will remain within allowable limits for the entire flight.

c. Electronic computer data sheets may be used instead of any of the DD Form 365-series when information is identical to that required on the DD 365-series. Any computer data sheets which meet this requirement may be used. The Army Standard Automated System (Automated Weight and Balance System, (AWBS) Version 9.2 or later) fulfills these requirements. The system program may be obtained from Commander, U.S. Army Research, Development, and Engineering Command (AMSRD–AMR–AE–A), Bldg 4488, Redstone Arsenal, AL 35898–5000 for nonstandard Army aircraft. The commercial equivalent of basic weight checklists, loading data, and weighting instructions may be substituted for DD Forms 365–1 and Chart E. All of the above forms are available through normal publications supply channels.

7–5. Removal, addition, or relocation of aircraft equipment

When aircraft equipment that is part of aircraft basic weight is added to, removed from, or relocated within the aircraft because of maintenance or specific mission requirements, flight in this changed configuration will not be accomplished unless the weight and balance change is documented by one of the following methods:

a. Treating the additions, removals, or relocations as a permanent change by making entries on the DD Form 365–3 and establishing a new basic weight and moment. Also, if the change in basic weight or moment is beyond the limits stated in TM 55–1500–342–23, prepare a new DD Form 365–4 that reflects the new basic weight and moment to replace those in the weight and balance file.

b. If the changes are of a temporary nature, make entries in accordance with DA Pam 738–751 for a period not to exceed 90 days.

7–6. Reviewing weight and balance file

a. All DD Forms 365–4 in the aircraft weight and balance file and all duplicate DD Forms 365–4 in the aircraft will be checked for accuracy in accordance with the criteria established in TM 55–1500–342–23 at least every 90 days. New forms must be prepared if changes are required. If no changes are required, the DD Forms 365–4 will be re-dated and initialed in the date block to certify their currency.

b. In addition, all weight and balance records will, as a minimum, be reviewed every 12 months. The last day of the month is the final day for completing the review. For example, if the previous review was completed on 8 April, the next review must be completed by 30 April of the following year. This review must include a weight and balance
inventory of the aircraft and the following statement entered on the DD Form 365–3: “Calculated weight and moment per inventory completed at.” The date and adjusted basic weight and moment will accompany this entry.

7–7. Aircraft weighing
   a. Each aircraft will be weighed when—
      (1) Overhaul or major airframe repairs are accomplished.
      (2) Modifications of one percent or greater of the aircraft’s basic weight are applied.
      (3) Any modifications or component replacements (including painting) have been made for which the weight and center-of-gravity cannot be accurately computed.
      (4) Weight and center-of-gravity data records are suspected to be in error.
      (5) The period since the previous weighing reaches 36 months for a Class 1 aircraft and 24 months for a Class 2 aircraft. The date due reweigh window shall follow TM 1–1500–328–23 requirements for a reoccurring special inspection.
   b. The weight records supplied with a new aircraft may be used instead of an initial weighing. The technical proponent for weight and balance may approve alternate methods in lieu of weighing every new aircraft to establish the initial weight and center of gravity.
   c. If these weighing requirements are not met, the aircraft status will change to red “x” until they are met.
   d. Any maintenance facility providing weighing service will ensure that all aircraft weighing equipment under its jurisdiction is tested and certified for accuracy, according to specified technical manuals and at the intervals required.
   e. The unit commander may request a 90-day deferment from weighing aircraft when operating in a combat theater. Send the commander’s deferment request with a copy of the aircraft’s weight and balance file to Commander, U.S. Army Research, Development, and Engineering Command (AMSRD–AMR–AE–A), Bldg 4488, Redstone Arsenal, AL 35898–5000 (email: aeromechanics@amrdec.army.mil).

Chapter 8
Aviation Life Support

Section I
Aviation Life Support System

8–1. Aviation Life Support System, general
This chapter establishes responsibilities, policies, and procedures governing ALSS.
   a. The CG, AMC, Project Manager, ALSE, is the DA focal point for all ALSE life cycle management.
   b. The CG, TRADOC is responsible for doctrine and training needs for ALSS.
   c. The Surgeon General will coordinate health hazard assessment for research, development, testing, and evaluation of medical materiel and related items; medical design criteria; and other medical aspects of nonmedical ALSE items.
   d. The ACOM, ASCC, DRU commander, or the DARNG will—
      (1) Implement ALSS policies and procedures.
      (2) Ensure proper training, budgeting, and availability of ALSE.
      (3) Provide trained personnel for ALSE maintenance and inspection.
   e. Commanders at all levels will provide proper ALSE and related training commensurate with the mission and operational environment. Specific equipment requirements are delineated in section II of this chapter. Specific personnel and training requirements are delineated in section III of this chapter. ALSE maintenance requirements are delineated in section IV of this chapter.
   f. Aviation officers will have overall staff supervision of ALSS activities and coordination with staff sections and commanders on matters pertaining to ALSE and training.
   g. Flight surgeons and aeromedical advisors are responsible for—
      (1) Physiological training of aircrew personnel.
      (2) Medical aspects of survival training of aircrew personnel.
      (3) Monitoring the fitting and use of ALSE by aircrew personnel.
   h. Aviation safety officers will monitor all aviation activities for commands to ensure the proper use of protective clothing and ALSE. Lack or misuse of protective clothing and ALSE constitute grounds for an operational hazard report. Operational hazard reports will be submitted on DA Form 2696 under AR 385–10.
   i. Aviation life support officers (ALSOs) will be appointed on orders to assist, advise, and represent commanders in all matters pertaining to the ALSS. The ALSOs will—
      (1) Review, analyze, and develop procedures to ensure the planning, budgeting, and maintenance of an ALSS.
(2) Ensure training of aircrew personnel in the proper operation, use, and operator maintenance of survival equipment and the techniques of survival.

(3) Supervise the life support section and ensure that qualified personnel are available for conducting life support and survival training and maintenance of organizational-level ALSE.

(4) Keep a current file of regulations, procedures, and technical manuals pertaining to inspection, maintenance, and use of assigned life support equipment.

(5) Ensure units have adequate information and training before using new equipment or system changes.

(6) Ensure units encourage life support suggestions and operational hazard reports (OHRs).

(7) Ensure materiel deficiency reports are submitted on life support equipment failing to operate as designed.

(8) Participate as an ALSE member on the unit aviation safety council.

(9) Assist higher headquarters in standardizing the ALSS Program.

j. The ALSE technicians and specialists will be appointed to assist, advise, and represent the ALSO in all matters pertaining to ALSE. Specifically, ALSE technicians and specialists will—

(1) Establish a library of ALSE publications and ensure that the unit’s pinpoint distribution account is updated to include ALSE publications and necessary forms.

(2) Ensure that all ALSE is maintained in a high state of readiness through inspecting, cleaning, fitting, testing, adjusting, and repairing.

(3) Maintain files on inspection, maintenance, expiration dates, and supply pertaining to ALSE.

(4) Participate as enlisted representatives at aviation safety meetings and conferences.

(5) Participate in local ALSE steering council meetings.

(6) Inspect all controlled drugs used in survival kits and vests.

k. Pilots-in-command will ensure that ALSE commensurate with the mission and the operational environment is available on the aircraft and that aircrewmembers and passengers are briefed on its location and use.

8–2. System description

a. The ALSS consists of components, techniques, and training required ensuring aircrews and their passengers’ survival.

b. The ALSS is composed of three subsystems as follows:

(1) The environmental life support and protective subsystem such as oxygen equipment, aircrew support facilities, flight and specialized clothing, and miscellaneous personal accessories and equipment.

(2) The escape and descent life support subsystem components are provided to ensure safe and reliable escape and descent from disabled aircraft.

(3) Survival recovery life support subsystem aids survival, escape, evasion, and recovery of downed aircrews and their passengers in any global environment.

Section II
Aviation Life Support Equipment

8–3. Aviation life support equipment, general

The ALSE will be used per unit standing operating procedures and this section.

8–4. Authorization for aviation life support equipment

Requirements and authorization for ALSE are identified in this regulation and in—

a. AR 71–32.

b. CTAs 8–100, 50–900, 50–909, and 50–970.

c. SBs 8–75 and 700–20.

d. Applicable MTOEs and TDAs.

8–5. Flight data recorders

a. Cockpit voice recorders, flight data recorders, and digital source collectors that are installed on aircraft should be operational for all flights. However, a nonoperational cockpit voice recorder, flight data recorder, or digital source collector should not result in mission cancellation. Information collected by these devices may be classified or sensitive in nature and should be protected as such.

b. The commander will contact the U.S. Army Combat Readiness Center to ascertain appropriate recovery actions whenever an Army aircraft equipped with cockpit voice recorder, flight data recorder, and/or digital source collector to include weapons video systems is involved in a mishap or destroyed as a result of enemy action.

8–6. Aircraft safety equipment

Safety equipment (for example, first aid kits, fire extinguishers, breakout knives, and fire axes) will be installed in
Army aircraft per requirements of the appropriate operator manual. Medical supplies will be updated, deleted, and extended according to SB 8–75.

8–7. Oxygen system
See TC 3–04.93 for restrictions on use of oxygen. Approved oxygen systems will be used as follows:

a. Unpressurized aircraft. Oxygen will be used by aircraft crews and occupants for flights, as shown below—

1. Aircraft crews.
   a. On flights above 10,000 feet pressure altitude for more than one hour.
   b. On flights above 12,000 feet pressure altitude for more than 30 minutes.

2. Aircraft crews and all other occupants.
   a. On flights above 14,000 feet pressure altitude for any period of time.
   b. For flights above 18,000 feet pressure altitude, oxygen prebreathing will be accomplished by aircrew members. Prebreathing may utilize either 100 percent gaseous aviator’s oxygen from a high pressure source, or an onboard oxygen generating system that supplies at least 90 percent oxygen. Prebreathing will be for not less than 30 minutes at ground level and will continue while en route to altitude. In those extraordinary cases where mission requirements dictate rapid ascent, commanders may authorize shorter prebreathing times on a case-by-case basis, with the realization that such practice increases the risk for developing altitude decompression illness. Return to NORMAL OXYGEN (pressure demand regulator, gaseous oxygen-equipped aircraft) is authorized on descent below 18,000 feet pressure altitude, provided continued flight will not exceed this altitude.

b. Pressurized aircraft.
   1. In flight, if the cabin altitude exceeds 10,000 feet pressure altitude the provisions of paragraph 8–7a of this regulation apply.
   2. As a minimum, a ten-minute emergency supply of oxygen will be available to all occupants when the aircraft is above 14,000 feet pressure altitude. Additional emergency oxygen will be on board when factors such as terrain, weather, or fuel consumption prevent descent to 10,000 feet cabin pressure altitude, in the event of depressurization.
   3. Above 25,000 feet pressure altitude, oxygen masks will be connected and readily available. Above flight level (FL) 350 the pilot flying will wear and use oxygen if the other pilot must leave the flight deck for any period of time. Above FL 410, one pilot will wear and use oxygen for the entire time period spent above FL 410.
   4. If pressurization is lost in flight above 14,000 feet pressure altitude, descent will be made immediately to a cabin pressure altitude of 10,000 feet or below. Thereafter, the provisions of paragraph 8–7a of this regulation apply.

8–8. Parachute requirements

a. Crewmembers will wear parachutes on flights involving aerobatics.

b. Commanders will determine if occupants need to wear parachutes in all other cases and publish policies in unit standing operating procedures.

c. The provisions of 14 CFR 105 apply to all Army flights (except emergencies) where parachute drops of persons or things are made from an Army aircraft.

d. If there is an accident involving the use of parachutes, reports must be submitted per AR 385–10 and TM 10–1670–201–23.

8–9. Protective clothing and equipment

a. Proper wearing of fire-resistant flight clothing includes collars up, pant legs unbloused, sleeves rolled down, and the use of fire resistant flying gloves.

b. Items of clothing for specific geographic areas as listed in the appropriate CTAs are also authorized when required by climatic conditions and approved by the appropriate ACOM, ASCC, DRU commander, or the DARN.

c. The following U.S. Army-approved clothing and equipment will be worn by all crewmembers when performing crew duties:
   1. Leather boots and boots approved for aviation use in accordance with CTA 50–900.
   2. Flight helmet.
   3. Flight suit approved for aviation use in CTA 50–900 and/or AR 670–1.
   5. Under layer clothing made of cotton, wool, nomex, or materials approved for aviation use in CTA 50–900.
   6. Identification tags.

d. The ACOM, ASCC, DRU commander, DARN, or the CG, USAACE for flights at USAACE, may waive the requirements in paragraphs 8–9c(1) through 8–9c(4) of this regulation for crewmembers assigned to flights that require other uniforms.

e. All passengers will wear approved hearing protection devices, and passengers on tactical helicopter flights will wear protective military headgear (combat vehicle crewman approved ballistic helmet or flight helmet) as appropriate.
8–10. Protective masks
   a. At least one pilot seated at the controls must wear a protective mask when fuzed items filled with toxic chemicals are carried in aircraft. Other crewmembers will have protective masks readily available.
   b. When incapacitating or toxic chemicals with no arming or fuzing systems are carried in an aircraft, the pilots need not wear a mask. It will be readily available.
   c. All personnel aboard will wear a protective mask when incapacitating or toxic chemicals are dispensed and until the chemical safety officer or other crewmember reports the aircraft is clear of the dispensed agent.
   d. Personnel who are not essential to the mission will not be carried in an aircraft with incapacitating or toxic chemicals on board.

8–11. Seat belts and restraints
   a. The PC will ensure that—
      (1) There are seats and seat belts installed for each person on the aircraft.
      (2) Passengers can operate seat belts and, if installed, shoulder harnesses.
      (3) Passengers are in seats and restrained by seat belts and, if installed, shoulder harnesses during takeoffs, landings, and turbulence.
      (4) Patients on litters will be restrained by litter restraining straps during takeoffs, landings, and turbulence in accordance with the aircraft’s operators manual and approved Airworthiness Release (AWR).
   b. The crewmembers will wear a properly adjusted seat belt and shoulder harness when at the controls.
   c. Other crewmembers will wear an approved restraining harness instead of seat belts when required by mission.
   d. Units conducting infiltration (Infil)/Exfiltration (Exfil) operations that require removal of seats will—
      (2) Be approved per subparagraph 8–11f of this regulation.
   e. Personnel are prohibited from being tethered or attached to the outside of an aircraft in flight. Exceptions are authorized with an approved AWR and per paragraph 8–11f of this regulation.
   f. Exceptions to paragraphs 8–11a and 8–11e of this regulation are authorized but must be considered higher risk to personnel. These exceptions will be approved using the following procedures:
      (1) The ACOM, ASCC, DRU commander, or DARNG, or first four-star general in the chain of command of the passengers riding without seats and/or seatbelts is the exception approval authority and must accept the additional risk to their personnel. This authority will not be delegated below the O–8 level. Once this risk has been accepted, the aviation mission approval process is completed per paragraph 2–14 in this regulation.
      (2) During combat operations and other contingency operations, the exception authority may authorize these operations for a specific period of time. Blanket exceptions are not authorized for training except for POIs approved by the appropriate proponent.

8–12. Survival equipment
The commander will ensure that personnel are equipped with ALSE appropriate for the mission, topography, and climate in the area of operations.
   a. Commanders, O–6 or above, will identify the minimum survival equipment each crewmember will wear for the mission, topography, and climate in the area of operations. The following items are the mandatory minimum required personal ALSE for RW crewmembers: first aid kit, extraction device, approved survival knife, fire starter, and signaling device. For all other additional supplemental equipment, the commander, at his discretion, may choose from those items listed in EM 0250 or EM 0131.
   b. Each helicopter crewmember will be equipped with a survival radio. For airplanes, a minimum of two survival radios will be carried at all times on board the aircraft. Emergency Locator Transmitter on Army aircraft should be operational prior to conducting flight operations.
   c. Army aircraft will carry survival kits for all crewmembers for the mission, topography, and climate in the area of operations.
   d. Commanders will provide the essential protective clothing and equipment required.
   e. Ferry flight equipment will be per AMCOM ferry flight packet instructions. The command providing delivery aircrews must provide the proper ALSE.
   f. Aircraft engaged in over-water flight will adhere to the following requirements:
      (1) Life preservers. All personnel aboard Army single engine or multi-engine aircraft that do not have single engine flight capability that are flown beyond gliding distance of land, will wear life preservers. All other aircraft will have life preservers readily available. Water activated life preservers are prohibited.
      (2) Life rafts. Life rafts sufficient for all persons on board (see TM 1–1500–204–23–1) are required on all Army aircraft during flights made in excess of 30 minutes flying time or 100 nautical miles from the nearest shoreline.
(3) **Shallow water egress trainer, modular egress training simulator commonly referred to as dunkers, and Emergency Breathing System.** Helicopter aircrews performing over water operations that are required to wear life preservers per paragraph 8–12(f) of this regulation or performing deck landing operations should be shallow water egress trainer or modular egress training simulator qualified, current, and carry an approved Emergency Breathing System. Initial qualification will be entered on DA Form 759 and currency will be entered in the crewmember’s IATF. Currency is defined as four years for this training and this training should be completed at USAACE, U.S. Navy, U.S. Air Force, or U.S. Coast Guard accredited or certified facility.

(4) **Anti-exposure suits.** Aviation unit commanders will develop a policy for the wear of appropriate anti-exposure suits based on environmental conditions when any portion of the flight is over water and ambient water temperature for any portion of the flight is 60 degrees Fahrenheit or below. This policy will be reflected in the risk assessment performed for the flight and will include as a minimum—
   (a) Type and number of aircraft being flown.
   (b) Altitudes to be flown.
   (c) Availability of search and rescue.
   (d) Types of anti-exposure suits available.

**Section III**

**Personnel and Training Requirements**

8–13. **Aviation life support equipment maintenance personnel**

Commanders having operational control of Army aircraft will provide personnel to perform required maintenance on ALSE. Commanders using personnel in a part-time capacity must adjust the number required to ensure that all required inspections and maintenance on ALSE is performed.

8–14. **Training of aviation life support equipment maintenance personnel**

   a. Maintenance of ALSE will be performed only by trained, qualified personnel, either military or civilian.
   b. ALSE maintenance personnel will be graduates of the U.S. Air Force C3AABR92230–000, U.S. Navy LSE C–602–2010, U.S. Army 860–ASIQ2, or other courses of instruction approved by the USAACE.
   c. Contract ALSE maintenance personnel maintaining commercial FW survival equipment must comply with paragraph 8–14a of this regulation but are exempt from the school requirement in paragraph 8–14b of this regulation.

8–15. **Training for aircrews**

Prior to initial flight training and at least once annually, commanders will ensure that all aircrew personnel are adequately trained in the operation, use, and operator maintenance of ALSS.

**Section IV**

**Aviation life support equipment maintenance requirements**

8–16. **Maintenance requirements**

   a. Commanders are required to establish and equip ALSE maintenance shops, staffed by qualified ALSE maintenance personnel on a full-time or part-time basis.
   b. ALSE maintenance shops will be tailored to the needs of the aviation unit, activity, or facility based on the number of aircrewmembers serviced and the density and type of ALSE.
   c. ALSE maintenance shops may be consolidated where the pooling of personnel and equipment of resident units, activities, or flight facilities would be advantageous.
   d. Oxygen equipment maintenance shops will be established per TM 55–1660–245–13.

8–17. **Inspection, maintenance, and repair**

   a. Inspection, maintenance, and repair of ALSE will be accomplished by qualified ALSE maintenance personnel in accordance with either one or both of the following:
      (1) The applicable TM, technical order, or Naval Air publication for the item of equipment involved.
      (2) The procedures prescribed by responsible AMC agencies and USAACE.
   b. Deficiencies found in ALSE should be reported expeditiously under the Army Equipment Improvement Report and Quality Deficiency Report Program. Instructions for completing these reports are in DA Pam 738–751.

8–18. **Storage and work areas**

Criteria for ALSE storage and work areas will ensure that—

   a. ALSE maintenance shops provide adequate, clean, well-lighted work areas with proper storage, shelving, and security provisions.
   b. Shop storage areas possess the following features for survival equipment:
A well ventilated, cool, and dry area that provides protection from pilferage, fire, dust, insects, rodents, and direct sunlight. Recommended temperature for storage is approximately 75 degrees Fahrenheit.

(2) Adequate air space between the floor and the equipment.

c. Inspection and test areas for flotation equipment are smooth, nonabrasive, and free of sharp projections, oil stains, and spills.


Chapter 9
Nonstandard Aircraft

Section I
Acquisition and Use

9–1. Nonstandard aircraft acquisition and use, general
This chapter details classification, acquisition, and use of nonstandard aircraft.

a. Aircraft classified as nonstandard by the Army are normally acquired from other Services or Federal agencies and generally are not listed in AR 700–138, or were previously standard but no longer adhere to established criteria. These aircraft are used to fill operational requirements instead of standard Army aircraft. Army standard aircraft reconfigured or altered for special use (for example, testing, special mission, and modification) are not normally classified as nonstandard aircraft within the context of this regulation.

b. Acquisition and use of nonstandard aircraft within the Army will occur when sufficient standard aircraft are not available to accomplish specific missions or operations. All other aircraft in the Army inventory, including aircraft obtained through the confiscated or excessed aircraft program, are nonstandard aircraft. Selected maintenance trainers, prototype, test bed, and aircraft procured in such a low density that treating them as standard aircraft would present a burden to the system, may be accounted for as nonstandard aircraft.

9–2. Policy
The following is DA policy concerning nonstandard aircraft:

a. Requests for nonstandard aircraft will normally be approved only against a DA-approved aircraft authorization when standard Army aircraft are not available. Nonstandard aircraft will be replaced when standard Army aircraft become available. When requests for nonstandard aircraft are approved by DA, AMCOM will take the necessary acquisition action. Requests for nonstandard aircraft will be forwarded through the ACOM, ASCC, DRU commander, or the DARN to Commander, AMCOM (AMSAM–OPS), Redstone Arsenal, Huntsville, AL 35898 for processing to HQDA.

b. Requests for authorization to obtain nonstandard aircraft will be transmitted through channels to the DCS, G–4 (DALO–ORS–A), 500 Army Pentagon, Washington, DC, 20310–0500, and include the following:

(1) Mission, type, design, and series of aircraft desired or type and requirements of missions to be fulfilled.

(2) Terms of request; transfer or loan, nonreimbursable or reimbursable.

(3) Budget program funds to be used for support of the aircraft and affirmation that funds will be made available in current and subsequent FY funding programs.

(4) Any modification requirements, including minimum required equipment listed in table 5–2 of this regulation.

(5) Full justification based on essentiality of the aircraft to accomplish missions of the requesting command or activity.

c. All operating costs, less depot maintenance and procurement of spare parts associated with the acquisition of nonstandard aircraft, will be borne by the gaining command. The AMC, USAR, and ARNG are responsible for programming and budgeting for depot maintenance of nonstandard aircraft. Modification of nonstandard aircraft (in a nondevelopmental program) will normally be funded by the Army Procurement Appropriation (for acquisition of modification kits) and by the Active Army’s depot maintenance program (for the installation of the kits.)

d. Requests for disposition instructions for nonstandard aircraft will be forwarded through command channels to DA. Serviceable and unserviceable, economically reparable aircraft will be reassigned against other requirements or disposed of per AR 750–1 and Technical Bulletin 43–0002–3. Commands and activities relinquishing these aircraft will not normally be provided a replacement nonstandard aircraft. Aircraft considered uneconomically repairable will be reported to DA per TB 43–0002–3. Redistribution of nonstandard aircraft is not authorized unless approved by DA.

e. Commands and activities acquiring nonstandard aircraft will be required to provide support from their own operating funds. Repair parts that are available in the DOD supply system may be procured through normal Army supply channels or through cross-service agreements with other military Services. All other repair parts will be procured locally. All nonstandard aircraft maintenance requirements that are beyond the capability of the owning or
supporting commands and activities will be accomplished by contract. (This paragraph is not applicable to aircraft
maintained under the existing contractor logistics support contract administered by AMCOM.)

f. Commanders having nonstandard aircraft will be responsible for assuring continued aircraft airworthiness through
scheduled maintenance programs that meet all DOD or, as required, FAA published standards. Aircraft obtained
through the confiscated or excessed aircraft program will be maintained per FAA standards only. Commercial
operator’s manuals, service letters, and bulletins published by the aircraft manufacturer and FAA Airworthiness
Directives Service bulletins will be ordered and maintained by the unit. When an Airworthiness Directive note is issued
by the FAA that is required to be completed prior to further flight, a corresponding message per chapter 6 of this
regulation will be released. Compliance with emergency Airworthiness Directive notes will be reported directly to
Commander, AMCOM (AMSAM–OPS), Redstone Arsenal, Huntsville, AL 35898.

g. When upgrade modifications are made to a confiscated or excessed aircraft with a military equivalent, the
modification will conform as closely as possible to its standard military counterpart provided an FAA type certificate
or supplemental type certificate exists for that modification and AMCOM approval is obtained. Equivalent nonstandard
aircraft may be included with their standard counterpart when a Product Improvement Program is applied to the
standard aircraft.

h. Expenditures in funds and man-hours for alterations or reconfiguration will be held to a minimum. Initial requests
to alter or reconfigure nonstandard aircraft when first delivered will be compiled into a single package and submitted
through command channels to AMCOM for approval; they will contain detailed justification including scope of work
to be performed. Subsequent requests will be treated in the same manner. Alteration or reconfiguration of loaned
nonstandard aircraft must be consistent with any requirements in the specific loan agreement regarding restoration of
the aircraft to its original configuration.

i. All nonstandard aircraft will be reported on DA Form 1352 (Army Aircraft Inventory, Status and Flying Time)
per AR 700–138. Maintenance forms authorized by DA Pam 738–751 will be used as prescribed in the published
Logistical Support Plan. Other forms may be used for local management purposes as desired.

j. A DA flying hour program will not be published for nonstandard aircraft. Commanders will establish an annual
Fiscal Year Flying Hour Program based on requirements and capability to support such a program. Utilization criteria
prescribed in AR 71–32 will be the basis for justifying retention of nonstandard aircraft.

k. When more than one command owns a type of nonstandard aircraft, DCS, G–3/5/7 (DAMO–AV) will designate a
proponent. The proponent will ensure compliance with the requirements outlined in this paragraph and ensure
standardization of publications and training for the platform.

9–3. Logistical support
AMCOM will retain responsibility and designate a central point of contact for logistical support guidance, SOF
matters, and technical guidance, including configuration control and equipment improvement report. AMCOM has
fiscal and operational responsibility for aircraft obtained through the confiscated or excessed aircraft program from
transfer from the courts and General Services Administration until delivery to the gaining unit. They will publish
operating and maintenance guidance for these aircraft. The requirement for ACOM, ASCC, DRU, or the ARNG to
furnish delivery crews does not apply to the initial delivery of confiscated or excessed aircraft.

Section II
Training and Standardization

9–4. Waiver authority
Nonstandard aircraft training and standardization requests for waivers will be forwarded through the appropriate
ACOM, ASCC, DRU, or the ARNG to DCS, G–3/5/7 (DAMO–AV), for approval on paragraphs 9–5 through 9–9 of
this regulation.

9–5. Technical publications

a. Technical literature for specific nonstandard aircraft will be made available through normal publications channels
to the units using the aircraft. Operator’s manuals, checklists, maintenance manuals, and related publications for
nonstandard aircraft will be obtained from existing factory stocks or from the military Service supplying the aircraft.
The using unit will update these publications with changes from manufacturer or the military service supplying the
aircraft.

b. Commands will also prepare new or revised technical literature for nonstandard aircraft not supported by official
publications or when they wish to modify official publications. These publications will be coordinated with AMCOM,
where possible, and submitted through the ACOM, ASCC, DRU, or the ARNG to DCS G–3/5/7 (DAMO–AV), 400
Army Pentagon, Washington, DC 20310–0400, for approval.

9–6. Training and standardization publications

a. Training and aviation flight standardization literature for specific nonstandard aircraft will be made available
through normal publications supply channels to the units using the aircraft. If possible, the training and aviation flight
standardization program will apply to the operation of nonstandard aircraft. The policy in this paragraph applies except when established procedures cannot be followed because of extremely low aircraft density or short duration of aircraft use (less than six months).

b. The POI and FTG will be approved by USAACE before they can be used. Organizations will submit POIs through the ACOM, ASCC, DRU, or the ARNG to USAACE (ATZQ–TD (DOTD)), Fort Rucker, AL 36362–5211 (email: usarmy.rucker.avncoe.mbx.atzq-td@mail.mil). ATMs will be submitted through the ACOM, ASCC, DRU, or the ARNG to USAACE (ATZQ–ES (DES)), Fort Rucker, AL 36362–5211, for review, then submitted to DCS G–3/5/7 (DAMO–AV), 400 Army Pentagon, Washington, DC 20310–0400, for approval.

9–7. Qualification training
The ACOM, ASCC, DRU, or the ARNG aviation standardization committee will develop nonstandard aircraft training in accordance with AR 350–1. The POI and FTG will be approved by USAACE before they can be used. Organizations will submit POIs and FTGs through the ACOM, ASCC, DRU, or the ARNG to USAACE (ATZQ–TD (DOTD)), Fort Rucker, AL 36362–5211 (email: usarmy.rucker.avncoe.mbx.atzq-td@mail.mil).

9–8. Flight evaluations
When IPs or SPs are not available to administer flight evaluations in nonstandard aircraft, the installation or area aviation standardization committee will request support. The ACOM, ASCC, DRU, or the ARNG aviation standardization committee, other installation area committees, or the Commander, USAACE, may provide support. If support cannot be provided, the area commander, whose installation aviation standardization committee has jurisdiction, may authorize the flight evaluation to be made in an aircraft of similar design, operation, and flight characteristics. The commander may request a waiver of the evaluation requirements.

9–9. Qualification requirements for instructor pilots
a. The ACOM, ASCC, DRU, or the ARNG aviation standardization committee, in coordination with the Commander, USAACE (ATZQ–ES), will help establish the content of IP training in nonstandard aircraft for which no IP training program exists in the ATMs. The proposed POI and FTG will be approved by USAACE before they can be used. Organizations will submit through the ACOM, ASCC, DRU, or the ARNG to USAACE (ATZQ–TD (DOTD)), Fort Rucker, AL 36362–5211 (email: usarmy.rucker.avncoe.mbx.atzq-td@mail.mil).

b. When an SP is not available to administer a flight evaluation in the aircraft in which an IP designation is sought, the evaluation may be conducted in another aircraft in the same category. The examinee must be qualified and current in the aircraft used for the evaluation.

Chapter 10
The Army Flying Hour Program

10–1. The Army Flying Hour Program, general
The Army FHP defines the resource requirements to operate standard aircraft in combat, combat support, and support aviation units in the ARNG, USAR, and ACs. The Army FHP Manager, DCS, G–3/5/7 (DAMO–TRC), Collective Training Division is the action officer for the Army FHP.

10–2. Development of flying hour program requirements
The DCS, G–3/5/7 (DAMO–TRC) uses flying hour requirements provided by the Training Resource Model to build the program in the Flying Hour Management System. Cost rate data provided by the Office of the Deputy Assistant Secretary of the Army (Cost and Economics) are used to calculate the FHP costs.

a. Operational tempo requirements. The operational tempo (OPTEMPO) is an index that measures RW aircraft operations in MTOE aviation units. Crew OPTEMPO (hours per crew per month) is the metric that HQDA uses to establish and measure aviation training levels.

(1) Training strategy. The Army programs MTOE unit RW flying hour requirements according to a Combined Arms Training Strategy derived average crew OPTEMPO. The OPTEMPO training strategy enables Active Army MTOE units to achieve and maintain a specified readiness level. The number of authorized pilots, categorized by Flight Activity Category estimates, determines the specific requirements for each unit. Due to the mix of aircraft and pilots within each command, the training strategy OPTEMPO varies by the ACOM, ASCC, DRU, ARNG, and component.

(2) Simulator offsets. Crew OPTEMPO training strategies include authorized SFTS offsets to live hour training requirements.

b. Non-operational tempo rotary wing requirements. Crew training and mission support operations determine the flying hour requirements for RW operations in TDA units. The Army FHP Manager reviews RW TDA execution and emerging operational requirements annually to determine future requirements.
c. Flight School requirements. The flying hours required to fully implement the student curriculum and programmed student loads determine the USAACE requirements.

d. Fixed wing requirements. The life cycle contractor support contract hours established by PEO Aviation in coordination with DCS, G–3/5/7 (DAMO–TRC) to determine FW flying hour program requirements.

e. Aircraft cost factors. The Office of the Deputy Assistant Secretary of the Army (Cost and Economics) develops aircraft costing data (cost factors) in support of the FHP. Cost factors for aircraft without contractor logistic support contracts include cost projections for petroleum, oil, and lubricants, consumable repair parts, and depot level repairable parts. Cost factors for aircraft with contractor logistic support contracts only include petroleum, oil, and lubricants costs.

10–3. Flying hour program management

a. Army Flying Hour Program Manager. The Army FHP Manager, DCS, G–3/5/7 (DAMO–TRC), centrally manages the Army FHP, and will issue specific management guidance to the ACOM, ASCC, DRU, and ARNG FHP managers during the year of execution. The annual ACOM, ASCC, DRU, ARNG, and FHP Management and Quarterly Execution Guidance memorandum issued by the Army FHP Manager, the OPTEMPO, and/or the FHP management instructions memorandum issued by the DCS G–3/5/7 augment this regulation.

b. Funding migration and/or flying hour adjustments within the Army command, Army service component command, direct reporting unit, or Army National Guard. Flying hours are managed by budget activity. During the year of execution, the ACOM, ASCC, DRU, or ARNG FHP managers may adjust the OPTEMPO flying hour allocation and funding as needed between aircraft within the sub-activity groups in Activity Group 11, and may submit requests to adjust allocations between sub-activity groups in Activity Group 11 to the Army FHP Manager. Additionally, they may adjust the non-OPTEMPO flying hour allocation and funding within each budget activity. The ACOM, ASCC, DRU, or ARNG FHP managers must report any flying hour and/or funding realignments between the sub-activity groups to the Army FHP Manager. No adjustments are permitted to the total FW aircraft life cycle contractor support hours generated by the allocations specified in paragraph 10–2d of this regulation. The annual OPTEMPO and/or FHP management instructions memorandum will contain additional guidance on flying hour adjustments.

c. Unprogrammed unit and/or aircraft transfers between an Army command, Army service component command, or direct reporting unit. When an unprogrammed transfer of aircraft occurs between an ACOM, ASCC, or DRU during the year of execution, the losing ACOM, ASCC, or DRU will transfer to the gaining command flight hours and/or funding equivalent to the number of full months the aircraft are lost to the command. The FHP manager of the losing command must notify the DCS, G–3/5/7 (DAMO–TRC) when a transfer occurs, identify the unit (UIC), and specify the number of hours and amount of funding transferred to the gaining command.

d. Exception to migration policy. The VCVA is the approval authority for FHP migrations outside the above policy. The VCVA may delegate approval authority to the DCS, G–3/5/7. Requests for exception to this policy must include the source of the funds to be migrated, the impact of the migration on the approved training strategy, and how the migrated funds will be used. The ACOMs, ASCCs, or DRUs may submit requests for exception to policy to DCS, G–3/5/7 (DAMO–TRC). The Commander, AMCOM must approve increases to the total FW aircraft life cycle contractor support hours.

e. Monthly execution projections. In accordance with the OPTEMPO and/or FHP management instructions, the ACOM, ASCC, DRU, or ARNG FHP managers will submit monthly execution projections to DCS, G–3/5/7 (DAMO–TRC) no later than 10 October annually. The TRADOC projection must include and identify reimbursable flying hours. Unless the Army FHP Manager has authorized a deviation due to an approved migration requests or other action that reduces the total number of hours allocated to the ACOM, ASCC, DRU, or ARNG FHP, the execution strategy must project the execution of the total ACOM, ASCC, DRU, or ARNG FHP.

f. Execution reports, monthly Army performance review. DCS, G–3/5/7 (DAMO–TRC) processes and compiles monthly execution data reported through the Logistics Support Agency into the monthly Army performance review (MAPR). The MAPR is the primary execution data used by the DCS, G–3/5/7 to gauge aviation execution throughout each FY. ACOM, ASCC, DRU, and ARNG FHP managers can view MAPR execution data through the Training Resource Management Information System. FHP managers are responsible for ensuring the accuracy of monthly execution feeder data reported to Logistics Support Agency and notifying the Army FHP Manager if there is a discrepancy in the processed MAPR data. The MAPR period begins on the 16th calendar day of each month and ends on the 15th calendar day of the following month (for example, October MAPR includes hours executed from 16 September to 15 October).
Appendix A

References

Section I
Required Publications

AR 15–6

AR 25–55
The Department of the Army Freedom of Information Act Program (Cited in paras 2–13c(6), 3–15d.)

AR 40–501
Standards of Medical Fitness (Cited in paras 2–1b, 2–4a(1), 4–9d.)

AR 71–32
Force Development and Documentation-Consolidated Policies (Cited in paras 8–4a, 9–2j.)

AR 95–2

AR 95–20
Contractor’s Flight and Ground Operations (Cited in paras 2–1a(2)(c), 2–2d, 2–2e, 2–8e, 3–20e.)

AR 340–21
The Army Privacy Program (Cited in para 2–13c(6).)

AR 385–10
The Army Safety Program (Cited in paras 3–15f, 3–15c, 3–15a, 3–16a, 3–18, 6–1b, 6–1a, 8–1h, 8–8d.)

AR 570–4
Manpower Management (Cited in paras 2–3a, 2–4a.)

AR 600–105
Aviation Service of Rated Army Officers (Cited in paras 2–1c, 2–1b, 2–3c, 2–8b, 2–13c(3), 2–13c(5), 4–10d(1)(d), 4–10c, 4–10d(1)(c), 4–10b(1), 4–10b(1)(b), 4–10a(1)(c), 4–10c(2)(a).)

AR 600–106
Flying Status for Nonrated Army Aviation Personnel (Cited in paras 2–1c, 2–3c, 2–8c(3), 2–8b, 2–8a, 4–10b(2), 4–30a, 4–31a, 4–32a.)

AR 611–1
Military Occupational Classification Structure Development and Implementation (Cited in para 4–6a(6).)

AR 700–138
Army Logistics Readiness and Sustainability (Cited in paras 9–1a, 9–2j.)

AR 750–1
Army Materiel Maintenance Policy (Cited in para 9–2d.)

AR 750–6
Army Equipment Safety and Maintenance Notification System (Cited in paras 1–12a, 6–1c.)

ADP 5–0
The Operations Process (Cited in para 3–16a.)

CTA 8–100
Army Medical Department Expendable/Durable Items (Cited in para 8–4b.)
CTA 50–900
Clothing and Individual Equipment (Cited in paras 8–4b, 8–9c(1), 8–9c(3), 8–9c(5).) (Available at https://webtaads.belvoir.army.mil/USAFMSA.)

CTA 50–909
Field and Garrison Furnishings and Equipment (Cited in para 8–4b.) (Available at https://webtaads.belvoir.army.mil/USAFMSA.)

CTA 50–970
Expendable/Durable Items (Except Medical, Class V, Repair Parts, and Heraldic Items) (Cited in para 8–4b.)

DA Pam 738–751
Functional Users Manual for the Army Maintenance Management System-Aviation (TAMMS–A) (Cited in paras 2–5a, 3–20a, 7–5b, 8–17b, 9–2l.)

FM 3–04.300
Airfield and Flight Operations Procedures (Cited in paras 2–8c, 2–8b, 3–16b, 4–4, 4–7a, 4–28d.)

FM 3–21.220
Static Line Parachuting Techniques and Training (Cited in para 8–11d(1).)

FM 38–701
Packaging of Materiel: Packing (Cited in para 5–1d.)

SB 8–75
Series Army Medical Department Supply Information (Cited in paras 8–4c, 8–6.)

SB 700–20
Army Adopted/Other Items Selected for Authorization/List of Reportable Items (Cited in para 8–4c.) (Available at https://www.logsa.army.mil/index.cfm.)

TB 43–0002–3
Maintenance Expenditure Limits for Army Aircraft (Cited in para 9–2d.)

TC 3–04.72
Aviation Life Support System Management Program (Cited in para 8–18d.)

TC 3–04.93
Aeromedical Training for Flight Personnel (Cited in paras 4–13, 8–7.)

TM 1–1500–204–23–1
Aviation Unit Maintenance (AVUM) and Aviation Intermediate Maintenance (AVIM) Manual for General Aircraft Maintenance (General Maintenance and Practices), Volume 1 (Cited in paras 5–1e, 8–12f(2).)

TM 10–1670–201–23
General Maintenance of Parachutes and Other Airdrop Equipment (Cited in para 8–8d.)

TM 55–1500–342–23
Army Aviation Maintenance Engineering Manual Weight and Balance (Cited in paras 7–4b, 7–5a, 7–6a.)

TM 55–1660–245–13
Maintenance Instructions Oxygen Equipment, (ATOS) {TO 15X–1–1} (Cited in paras 8–16d, 8–18d.)

14 CFR 91
General Operating and Flight Rules (Cited in paras 3–4a(7), 5–3d, 5–5a(8).)

14 CFR 105
Parachute Operations (Cited in paras 3–4a(7), 8–8c.)

Section II
Related Publications
A related publication is a source of additional information. The user does not have to read it to understand this regulation.

AR 11–2
Managers’ Internal Control Program

AR 15–1
Committee Management

AR 25–30
The Army Publishing Program

AR 40–3
Medical, Dental, and Veterinary Care

AR 40–50
Standards of Medical Fitness

AR 95–27
Operational Procedures for Aircraft Carrying Hazardous Materials

AR 215–1
Military Morale, Welfare, and Recreation Programs and Nonappropriated Fund Instrumentalities

AR 350–1
Army Training and Leader Development

AR 360–1
The Army Public Affairs Program

AR 525–15
Software Reprogramming Policy for Electronic Warfare and Target Sensing Systems

AR 600–8–1
Army Casualty Program

AR 670–1
Wear and Appearance of Army Uniforms and Insignia

Army Directive 2007–01
Policy for Travel by Department of the Army Officials

Army Directive 2010–08
Army Aircraft Use for Public Affairs Missions

DA General Order 1995–11
Organization of the Operational Support Airlift Command

DA Pam 385–90
Army Aviation Accident Prevention Program

DOD 4515.13–R
Air Transportation Eligibility (Available at http://www.dtic.mil/whs/directives.)

DODD 4500.56
Department of Defense Policy on the Use of Government Aircraft and Air Travel

DODD 4515.12
Department of Defense Support for Travel of Members and Employees of Congress (Available at http://www.dtic.mil/whs/directives.)
DODD 5030.61
DOD Airworthiness Policy

DODD 5410.18
Public Affairs Community Relations Policy

DODI 4500.43
Operational Support Airlift

DODI 5410.19
Public Affairs Community Relations Policy Implementation (Available at http://www.dtic.mil/whs/directives.)

EM 0131
Clothing and Individual Equipment (Available at https://www.logsa.army.mil/etms.)

EM 0250

FM 1–564
Shipboard Operations

FM 5–19
Composite Risk Management

TC 3–04.11
Commander’s Aircrew Training Program for Individual, Crew, and Collective Training

TC 3–04.7
Army Aviation Maintenance

TM 1–1500–328–23
Aeronautical Equipment Maintenance Management Policies and Procedures

TM 55–1680–317–23 and P
Aviation Unit and Aviation Intermediate Maintenance Manual with Repair Parts and Special Tools List for Army Aircraft Survival

14 CFR
Aeronautics and Space

5 USC 552
Freedom of Information Act

5 USC 552a
Privacy Act

10 USC 18505
Reserves traveling for inactive-duty training: space-required travel on military aircraft

31 USC 1344
Passenger carrier use

Section III
Prescribed Forms
The following forms are available on the APD Web site (www.apd.army.mil) unless otherwise stated. DD forms are available from the Office of the Secretary of Defense Web site (www.dtic.mil/whs/directives/infomgt/forms/formsprogram.htm).

DA Form 759
Individual Flight Record and Flight Certificate-Army (Prescribed in para 2–8.)
DA Form 759–1
Individual Flight Record and Certificate-Army, Aircraft Closeout Summary (Prescribed in para 2–8.)

DA Form 759–2
Individual Flight Record and Certificate-Army Flying Hour Work Sheet (Prescribed in para 2–8.)

DA Form 759–3
Individual Flight Record and Certificate-Army Flight Record and Flight Pay Work Sheet (Prescribed in para 2–8.)

DA Form 3513
Individual Flight Records Folder, U.S. Army (Prescribed in para 2–8.)

DA Form 5484
Mission Schedule/Brief (Prescribed in para 2–14.)

DD Form 175
Military Flight Plan (Prescribed in para 5–2.)

DD Form 175–1
Flight Weather Briefing (Prescribed in para 5–2.)

DD Form 1801
Department of Defense International Flight Plan (Prescribed in para 5–2.)

Section IV
Referenced Forms
DA Forms are available on the Army Publishing Directorate Web site (https://www.apd.army.mil); DD Forms are
formsprogram.htm). Federal Aviation Administration forms can be obtained at http://forms.faa.gov.

DA Form 11–2
Internal Control Evaluation Certificate Statement

DA Form 1352
Army Aircraft Inventory, Status, and Flying Time

DA Form 2028
Recommended Changes to Publications and Blank Forms

DA Form 2408–12
Army Aviator’s Flight Record

DA Form 2696
Operational Hazard Report

DA Form 4507–R
Crew Member Grade Slip

DA Form 4507–1–R
Maneuver/Procedure Grade Slip

DA Form 4507–2–R
Continuation Comment Slip

DA Form 7120–R
Commander’s Task List

DA Form 7120–1–R
Crew Member Task Performance and Evaluation Requirements
Appendix B
Risk Assessment Worksheets

Use of RAW is required during the mission approval process and is used by the commander to identify elements of a mission that could or should be mitigated or must be elevated to the next higher level of command for their visibility and acceptance. Commanders will develop RAWs that meet their specific unit’s requirements using the guidelines below and in FM 5–19. Risk Assessment Worksheets do not internalize the entire risk management process but provide a systematic and tangible representation of the risk. However, do not allow the tools to become the overriding concern of the risk management process.

B–1. Development

No matrix can include all of the hazards of every mission, nor does a single matrix apply to all units. Army aviation strives for standardization, but risk assessment is unique to every command and every mission set.

a. Commanders must determine the content and associated risk levels on their RAW based upon their knowledge of the unit’s mission essential task list, assigned personnel and equipment, and balance this against their personal experience, guidance from their commander, and the Army’s standard risk assessment matrix (see table B–1 of this regulation). Simply adding the numbers up and finding the right level of command to accept the risk based upon paragraph 2–14 of this regulation is not risk management.

b. Commanders must consider a number of basic principles when they develop their RAW—

(1) The Army standard risk assessment matrix includes four levels of risk—low, moderate, high, and extremely high along with the severity and probability an event will occur. Paragraph 2–14 of this regulation establishes minimum risk acceptance levels that are used as tools to elevate certain factors to certain levels of command for visibility of these factors and the decision to accept or require mitigation and/or reduction.

(2) Each element of the RAW represents a specific hazard which in the assessment process is translated into a risk. Use caution because one element of the RAW may be assessed at a higher value then diluted or overlooked if the overall mission assessment is a lower value. Also, accident data shows that there are a number of critical elements called crew-error accelerator profiles such as when lunar illumination is less than 23 percent and less than 30 degrees above the horizon, visibility is obscured, total flight time of the crew is less than 500 or more than 2,500 hours, or the aircrew duty day is longer than 12 hours with four hours of flight time. Independently these factors on the RAW may
indicate one level of risk but because of the combined effect of these crew-error accelerator profiles, they should be added together to elevate overall risk to a higher level or appropriately mitigated.

(3) As they develop their RAW, commanders should review the unit mission essential task lists and consider the factors that affect their unit’s ability to conduct those mission essential task list tasks. Then they can decide which of these factors they personally want to initiate risk reduction and/or acceptance and which they feel should be approved above or below them. The battalion or brigade commander may retain risk reduction or acceptance for certain accelerator factors by simply marking these items causing the overall risk to become moderate or high; for example, if the battalion commander wants visibility on every urgent medical evaluation, the commander has the RAW to indicate these missions as moderate. However, if the commander feels the field grade company commander should be able to approve these in the case of life or limb, the commander grants a mitigator that only the field grade commander can apply that allows the commander to reduce the risk to low, if he contacts the battalion commander as soon as possible.

(4) Finally, all factors placed on the RAW must be judged against the Army standard risk assessment gauge to ensure the commander’s specified level of risk matches a given probability and severity using the standard risk assessment matrix (see table B–1 of this regulation). For example, if the battalion commander has designated all urgent medical evaluations as moderate to retain oversight of these missions at their level but moves to a new area where the severity becomes critical and likely to happen, the commander must adjust the RAW to reflect a high level of risk and elevate approval to the brigade commander or determine a way to mitigate this risk back to moderate.

B–2. Final mission approval

Initialing, signing, or documenting oral approval on the DA Form 5484 and/or RAW are all acceptable methods of recording approval of the appropriate authority in the mission approval process. Additionally, during bonafide absences of the battalion or higher commander, this commander may authorize their field grade executive officer, S–3, or air ambulance company commander (O–4) to provide final mission approval as long as they meet the training requirements of paragraph 2–14 of this regulation and notify the commander as soon as possible.

<table>
<thead>
<tr>
<th>Severity</th>
<th>Frequent</th>
<th>Likely</th>
<th>Occasional</th>
<th>Seldom</th>
<th>Unlikely</th>
</tr>
</thead>
<tbody>
<tr>
<td>Catastrophic</td>
<td>E</td>
<td>E</td>
<td>H</td>
<td>H</td>
<td>M</td>
</tr>
<tr>
<td>Critical</td>
<td>E</td>
<td>H</td>
<td>H</td>
<td>M</td>
<td>L</td>
</tr>
<tr>
<td>Marginal</td>
<td>H</td>
<td>M</td>
<td>M</td>
<td>L</td>
<td>L</td>
</tr>
<tr>
<td>Negligible</td>
<td>M</td>
<td>L</td>
<td>L</td>
<td>L</td>
<td>L</td>
</tr>
</tbody>
</table>

E = Extremely High, H = High, M = Moderate, L = Low

Appendix C

Instructions for Completing Department of the Army Form 5484

C–1. Mission schedule/brief

The briefer is responsible for ensuring that all key mission elements noted on the mission schedule/brief have been briefed per paragraph 2–14 of this regulation, and documenting completion of the briefing on the mission schedule/brief. Mission briefings may be in the form of an air mission commander’s brief, a detailed operations order, or locally developed briefing formats, as long as all the minimum mandatory items are covered. The mission brief may be accomplished by telephonic or other means, provided all key elements are addressed and recorded by both parties to the brief front side.

a. Front side.

   (1) Item 1: Date.
   (2) Item 2: AC number—enter aircraft tail number.
   (3) Item 3: Enter the name of the PC, seat designation, and if appropriate, designation as air mission commander.
   (4) Item 4: Enter the name of the pilot and seat designation.
   (5) Item 5: Crew members—enter the names of NCMs.
   (6) Item 6: Enter authorized flight condition codes for the mission as described in paragraph 2–6 of this regulation.
(7) Item 7: Mission—enter the assigned mission number and/or title (that is, 3–02–01/air assault, maintenance test flight, contact APART, and so forth).

(8) Item 8: Enter estimated time of departure and estimated time en route.

(9) Item 9: PC’s initials. (Initials are the PC’s acknowledgment that he has been briefed by the qualified briefing officer on key elements of the mission.)

(10) Item 10: Initials of a qualified briefing officer. (Initials of the briefing officer along with the air mission commander or PC, indicates that step two of the briefing process has been completed per paragraph 2–14b(2) of this regulation.)

(11) Item 11: Risk assessment value—calculated risk level for mission based on unit risk management program.

(12) Item 12: Mission status, to be completed by the PC at the end of the mission using the following codes:

   a. Mission completed as briefed (MC).
   b. Mission not completed as briefed, see remarks on the back of the schedule (NC).
   c. Cancelled (CXL).

(13) Remarks—for local use as desired, continue on back, if required.

   b. Back side. The back side of the mission schedule will be used to document necessary mission status remarks (for example, 9 Nov 93, Msn 03–09–04, mission canceled by S–3, 1/20 Arty, initials M.S.).

C–2. Configuration of briefing

The mission schedule/brief will be used to document the completion of required briefings. As a minimum, it will be maintained on file for the time period specified in this regulation.

C–3. Use

The mission schedule/brief is provided for the commander’s use. Unit developed forms may be used as long as all mandatory items are covered.

C–4. Regulations, standard operating procedures, and policies

Information contained on the mission schedule/brief does not relieve aircrew members from the requirement to know and adhere to applicable regulations, standard operating procedures, and policies.

C–5. Command relationships

Supporting and supported unit commanders will coordinate and designate command relationships to execute mission briefings when aircrews are separated from their parent unit. Note: Mandatory for all flights.

Appendix D

Internal Control Evaluation

D–1. Function

The function covered by this checklist is the administration of the internal control process.

D–2. Purpose

The purpose of this checklist is to assist assessable unit managers and internal control administrators in evaluating the key internal controls outlined below. It is not intended to cover all controls.

D–3. Instructions

Answers must be based on the actual testing of key internal controls (for example, document analysis, direct observation, sampling, simulation, other). Answers that indicate deficiencies must be explained and corrective action indicated in supporting documentation. These key internal controls must be evaluated at least once every five years. Certification that this evaluation has been conducted must be accomplished on DA Form 11–2 (Internal Control Evaluation Certification Statement).

D–4. Test questions

These test questions are for HQDA only, unless otherwise stated.

   a. Are standardized aviation safety, standardization, and utilization regulations and procedures published by a DA proponent?
   b. Is safety-of-flight information prepared and sent to the field in a timely manner? (User.)
   c. Are airports, heliports, and landing areas approved for flight operations?
   d. Are local flying rules in agreement with Federal, DOD, and DA policies?
   e. Are applicable safety regulations and special-use airspace operation guidance followed?
f. Are violations of safety and special-use airspace guidance reported and investigated by appropriate personnel per Federal, DOD, and DA guidance?

g. Are the policies, procedures, and transportation eligibility requirements for operational support airlift established in DOD 4500.43 and DODD 4515.13–R being followed?

h. Are the procedures for operational support airlift prescribed in AR 95–1 and the Operational Support Airlift Command OSA Guide being adhered?

i. Are aircrew training programs carried out per applicable Army guidance to include flying hours and synthetic flight training?

j. Are personnel who do not meet proficiency requirements restricted from flight duty?

k. Is nonstandard aircraft acquisition, training, standardization, and use conducted according to appropriate Federal, DOD, Army, and local guidance?

l. Is ALSE available and maintained in accordance with applicable guidance?

m. Are additional flight training periods managed per applicable policies and regulations? (RC only.)

D–5. Supersession

This evaluation replaces the checklist for administration of the internal control process previously published in AR 95–1, dated 4 January 2010.

D–6. Comments

Help to make this a better tool for evaluation of internal controls. Submit comments to the DCS, G–3/5/7 (DAMO–AV), 400 Army Pentagon, Washington, DC 20310–0400.
Glossary

Section I
Abbreviations

ACOM
Army command

AGL
above ground level

ALSE
aviation life support equipment

ALSO
aviation life support officer

ALSS
Aviation Life Support Systems

AMC
Army Materiel Command

AMOC
aviation maintenance officers course

AMCOM
Aviation and Missile Command

APART
annual proficiency and readiness test

AR
Army Regulation

ARMS
Aviation Resource Management Survey

ARNG
Army National Guard

ASA (FM&C)
Assistant Secretary of the Army (Financial Management & Comptroller)

ASAM
aviation safety action message

ASCC
Army service component command

ASE–EW
Aircraft Survivability Equipment-Electronic Warfare

ATC
air traffic control

ATM
aircrew training manual

ATP
Aircrew Training Program
DP
departure procedure

DRU
direct reporting unit

ERFS
Extended Range Fuel System

ETA
estimated time of arrival

FAA
Federal Aviation Administration

FAR
Federal Aviation Regulation

FHP
flying hour program

FI
nonrated crewmember instructor

FLIP
flight information publications

FLIR
Forward Looking Infrared

FM
field manual

FOA
Field Operating Agency

FOIA
Freedom of Information Act

FRIES
Fast Rope Insertion Extraction System

FTG
flight training guide

FW
fixed wing

FY
fiscal year

GLS
GPS Landing System

GPS
Global Positioning System

HQDA
Headquarters, Department of the Army
IAP
Instrument Approach Procedure

IATF
individual aircrew training folder

ICAO
International Civil Aviation Organization

IE
instrument flight examiner

IFR
instrument flight rules

IFRF
individual flight records folder

IMC
Inadvertent Instrument Meteorological Conditions

ILS
Instrument Landing System

IMA
Installation Management Agency

IMC
instrument meteorological conditions

I/O
instructor/operator

IP
instructor pilot

IR
Infrared

JALIS
Joint Air Logistics Information System

JOSAC
Joint Operational Support Airlift Center

LFR
Logistics Flight Record

LNAV
Lateral Navigation

MAPR
monthly Army performance review

MDA
minimum descent altitude

ME
maintenance test pilot evaluator
PEO
Program Executive Office

PFE
Proficiency Flight Evaluation

PM
Program Manager

POI
program of instruction

PUJC
priority, urgency, justification, and category

RAW
risk assessment worksheet

RC
reserve component

RL
readiness level

RVR
runway visual range

RW
rotary wing

SA
Secretary of the Army

SB
supply bulletin

SFTS
Synthetic Flight Training Systems

SI
standardization instructor

SOF
safety of flight

SP
standardization instructor pilot

SPIES
Special Patrol Insertion Extraction System

SSCA
Service Secretary Controlled Aircraft

STABO
short tactical airborne operations

SVFR
special visual flight rules
Acceptance flight
A flight made to accept a contractor-produced aircraft, or one on which a contractor or Army depot has performed maintenance or contract modification before return to the operational inventory. It can also be a flight made by the receiving unit upon transfer of aircraft between components and/or units.

Active Duty Guard and/or Reserve
Guard members and Reservists on full-time active duty for periods of 180 days or more to provide full-time support to the Reserve Components.
Aerobatic flight
Intentional maneuvers involving an abrupt change in an aircraft’s altitude, and abnormal attitude, or abnormal acceleration not needed for normal flight. This does not include a maneuver that conforms to the aircraft flight manual such as combat maneuvering or a tactical or training maneuver when part of an approved training exercise.

Aircrew duty
Any duty related to the operation of an aircraft and defined by the duty symbols of paragraph 2–6a of this regulation.

Aircrew training manual
A publication that contains Army training requirements for Army flight crewmembers and programs for qualification, refresher, mission, and continuation training in support of the ATP.

Aircrew Training Program
Army aviation aircrew standardized training and evaluation program.

Airplane
An engine-driven FW aircraft heavier than air that is supported in flight by the dynamic reaction of the air against its wings.

Alleged violations
Those infractions of applicable FAA, ICAO, and host country flight regulations that create an unsafe condition or result in an incident or accident.

Armed Forces
The Army, Navy, Air Force, Marine Corps, and Coast Guard, including their ACs, RCs, and members serving without component status.

Army aviation disaster, search, and rescue unit
A temporarily organized unit employed during an emergency. The unit equips, supplies, safeguards, maintains, and operates Army aircraft during a disaster, an air search, or rescue.

Army aviation standardization
The use of uniform established procedures and techniques to attain a high level of readiness and professionalism in the operation and employment of Army aircraft. This is achieved through standardized publications and training literature, a disciplined instructor pilot force, written tests, flight checks, and command supervision. Standardization includes aviator cockpit performance, aircrew teamwork, tactics, maintenance, and safety.

Army aviator
An aeronautical designation awarded to members of the U.S. Army by the Secretary of the Army or designated officers.

Aviation officer
An Army or DA civilian aviator who commands an aviation unit or is a member of a commander’s staff and advises or supervises Army aviation functions.

Casualty evacuation
This can apply to injured Soldiers or civilians, and is used to denote the emergency evacuation of injured personnel from a war zone. The casualty evacuation aircraft are not equipped with specific life saving equipment or specially trained medical personnel. Their primary purpose is to ferry personnel from the battlefield to the nearest appropriate medical facility available as quickly as possible. They are allowed to be armed and the pilots and crews will assume much more risk to their aircraft and crew in order to evacuate wounded personnel.

Category (of aircraft)
Aircraft designated as either airplane or helicopter synonymous with type.

Category II operations
With respect to the operation of aircraft, means a straight-in ILS approach to the runway of an airport under a Category II ILS instrument approach procedure issued by the administrator or other appropriate authority.
Civil aircraft
Aircraft other than public aircraft.

Chain of command
Personnel in documented leadership positions with responsibility for the health and welfare of assigned personnel, control and accountability of Army equipment and for mission accomplishment. When used for Final Mission Approval Authority, it includes such positions as platoon leaders, commanders, directors, supervisors, and so on that meet the definition.

Code of Federal Regulations
14 CFR 91 contains Federal Air Regulations Part 91.

Command/staff aviation officer
A special staff aviator designated by the commander to provide advice or manage aviation assets, aviation standardization, and aviation safety.

Crewmember
The term includes all aviators (rated crewmembers), NCMs, and others who perform aircrew duties.

Cross-country flight
A flight extending beyond the local flying area or within the local flying area which is planned to terminate at a place other than the place of origin.

Department of the Army civilian pilot (Department of the Army civilian aviator)
A civil service employee who holds appropriate qualifications and who must comply with this regulation and other DA aviation-related regulations.

Dunker
A simulation device used to train aircrews, which can be abruptly lowered into the water in a controlled environment, to replicate an aircraft ditching emergency. These devices provide the capability of easy cockpit or cabin reconfigured that replicates various army aircraft. Also referred to as a shallow water egress trainer or modular egress trainer.

Emergency Breathing System
Device such as a helicopter emergency egress device used to supply oxygen to a person after ditching.

Flight crew station
A station in aircraft at which flight crewmember occupies to perform their flight duty; for example, pilot stations specified in operator’s manuals.

Flight surgeon
Medical officer who has graduated from an approved military course in aviation medicine. References to flight surgeons include aeromedical physician’s assistant.

Helicopter
A rotorcraft that, for its horizontal motion, depends principally on its engine-driven rotors.

Installation
For Army Aviation Standardization Program purposes, the term includes AC forts, posts, camps, or stations with Army aircraft resident; ARNG is individual States; Army Reserve commands. For other than standardization purposes, includes RC facilities.

Large aircraft
Aircraft of more than 12,500 pounds, maximum certificated takeoff weight.

Maintenance operational check
Systems check made on the ground through engine run-up and taxiing. Checks made using auxiliary power or testing equipment to simulate, in so far as possible, actual conditions under which the system is to operate. These checks are made to ensure that aircraft systems or components disturbed during an inspection or maintenance have been repaired or adjusted satisfactorily.
Modular Egress Training Simulator
A simulation device used to train aircrews, which can be abruptly lowered into the water in a controlled environment, to replicate an aircraft ditching emergency. These devices provide the capability of easy cockpit or cabin re-configured that replicates various Army aircraft. Also referred to as a dunker or Shallow Water Egress Trainer.

National Airspace System
All of the airspace above the surface of the earth over the U.S. and its possessions.

Nonrated crewmember
Crewmembers who are not rated aviators and are placed on orders by the commander as authorized to perform aircrew duties in accordance with AR 600–106. Nonrated noncrewmembers become nonrated crewmembers when they are selected by the commander and integrated into the ATP.

Nonstandard aircraft
Army aircraft not classified standard or aircraft obtained from other DOD activities or commercial sources.

Operational flying
Flying performed by rated personnel primarily for mission support or training, while serving in assignments in which basic flying skills normally are kept current while performing assigned duties. All flying by rated members of the RC not on extended active duty is operational flying.

Operational tempo
Hours flown per crew per month in MTOE RW aircraft assigned in Forces Command, U.S. Army Europe, U.S. Army Pacific, Eighth U.S. Army, U.S. Army South, ARNG, and USAR.

Parachute
A device used or intended to be used to retard the fall of a body or object through the air.

Passenger
A passenger is any occupant on the aircraft not performing an aircrew duty and logging flying time in accordance with paragraph 2–6. Passengers on Army aircraft must be authorized in accordance with chapter 3. Passenger names should not be entered on the DA Form 2408–12.

Patient
A sick, injured, wounded, or other person requiring medical and/or dental care or treatment.

Public aircraft
Aircraft operated by or on behalf of the United States Government, a State, the District of Columbia, a territory or possession of the United States, or a political subdivision of one of these governments, except when it is used for commercial purposes, used to carry an individual other than a crewmember or a qualified non-crewmember, or not used exclusively for the Government.

Qualified for aviation service
A volunteer aviation status requisite to entitlement for operational flying.

Rated Crew member
Aviators described in this regulation and AR 600–105.

Shallow Water Egress Trainer
A simulation device used to train aircrews, which can be abruptly lowered into the water in a controlled environment, to replicate an aircraft ditching emergency. These devices provide the capability of easy cockpit or cabin re-configured that replicates various Army aircraft. Also referred to as a dunker or modular egress training simulator.

Standardization instructor pilot
A qualified IP designated by the commander, in writing, to perform standardization duties.

Synthetic Flight Training Systems
A group of high-fidelity instrument and visual flight simulators capable of providing basic, advanced, and tactical training in either manual or automated modes.
**Tactical environment (actual)**
An active theater or area of combat operations.

**Tactical environment (simulated)**
An operational area established for training and in which combat operations are simulated.

**Training mission**
Missions flown for flight qualification or refresher training. ATP requirements, and authorized training exercises.

**Unit Trainer**
A crewmember designated to instruct in areas of special training to assist in unit training programs and achieve established training goals.

**Weather forecaster**
Any person approved by the U.S. Air Force, U.S. Navy Air Weather Services, or by the National Weather Service to forecast aviation weather for flight planning.

**Section III**
**Special Abbreviations and Terms**
This section contains no entries.