



**BY ORDER OF COMMANDER  
AIR FORCE SPACE COMMAND**

**AFI11-403AFSPC1**

**2 January 1996**

**Flying Operations**

**19980121 083**

**AIR FORCE PHYSIOLOGICAL TRAINING PROGRAM**

AFI11-403, 19 July 1994, is supplemented as follow and applies to HQ Air Force Space Command (AFSPC), its subordinate units, active duty and reserve aircrews from all services, NATO allies and all organizations supported by the Headquarters Publications Management Division (IMP), 150 Vandenburg St, Ste 1105, Peterson AFB CO 80914-4100. This supplement does apply to Air Force Reserve and Air National Guard.

**1.1.** The Directorate of Medical Services and training HQ AFSPC, Peterson AFB CO (HQ AFSPC/SG) provides medical, technical, fiscal, and administrative supervision needed to carry out the Aerospace Physiology Training Program.

**1.1.2.** The Chief, Aerospace Physiology Training Flight (APTF), is designated as the Command Coordinator for AFSPC's Aerospace Physiology Training Program.

**2.1.** The Air Force Academy (AFA) Cadet training program is designed to familiarize 3rd classmen with hazards of the flying environment, while preparing them for incentive flights at their assigned bases.

**2.1.2.** The AFA course is a modified Operational Support course and includes additional familiarization instruction on Spatial Disorientation and Acceleration. The chamber flight is a standard Type III flight to FL 350 that includes a mass hypoxia demonstration at FL 250. Students will be required to go back on oxygen after 10 minutes to ensure safety and to prevent decompression sickness. They will also receive a standard Air Force RD to FL 220. Upon completion of this training, cadets are authorized to take refresher training specific to their weapon system.

**2.1.3.** All cadets accepted into a Undergraduate Pilot Training (UPT) or Undergraduate Navigator Training (UNT) program, must meet that program's requirements.

**3.1.** Army helicopter aircrews will be scheduled in one of the following courses: Operational Support (OPS) or Low and Slow (L&S) Refresher course.

**3.1.1.** OPS: Rated and non-rated crewmembers that have never attended physiological training, to include an altitude chamber flight, must be scheduled in this course.

**3.1.2.** L&S Refresher: All crewmembers that can show proof of previous physiological training will be scheduled in this course.

**4.1.** Training of US Forest Service Personnel: Personnel from the forestry service are authorized physiological training IAW the Colorado Air Force Reserve (Peterson AFB, CO) and the US

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**DTIC QUALITY INSPECTED 3**

Department of Agriculture (USDA) Forest Service, Region 2, amended 15 April 1991.

**4.1.1.** If forestry service personnel have not attended physiological training, they should be scheduled in an OPS course to include a Type III chamber flight and RD. If personnel can provide proof of previous training, they may be scheduled in a TTB refresher course.

**5.1.** Chamber Positions/Duties: This APTF is authorized to conduct chamber flights with a minimum of three aerospace physiology technicians manning outside positions. Their duties are as follow:

**5.1.1.** Flight Supervisors: conducts O2 equipment lectures/equipment issue, pre-flight briefings, flight lecture, post-flight briefings and serve as lock operator on RD's

**5.1.2.** Chamber Operator: operates the chamber during flights, starts denitrogenation time, and keeps times for all demonstrations at altitude.

**5.1.3.** Crew Chief: Pre-flights chamber, records and maintains all times on flight sheet, and post-flights the chamber.

**6.1.** MAJCOM Exemptions: AFSPC aircrews no longer require the Type 37 chamber flight to complete L&S refresher training.

**7.1.** Standard Evaluation Program: Physiological training officers will be evaluated in a refresher course and in one subject from an Air Force Academy, Original or Operational Support course on a rotating basis.

**7.1.1.** Every enlisted physiological training instructor will have an initial qualification for every subject taught. Instructors will be evaluated annually as a flight supervisor and in one other subject on a rotating basis.

**7.1.2.** Any current qualified instructor will be able to evaluate an instructor in the courses necessary.

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