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AIR MOBILITY COMMAND (AMC)

AMC INSTRUCTION 11-301

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Flying Operations

AIRCREW LIFE SUPPORT (ALS) PROGRAM

COMPLIANCE WITH THIS PUBLICATION IS MANDATORY

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This instruction implements Air Force Policy Directive (AFPD) 11-3, *Life Support*, Air Force Instruction (AFI) 11-301, *Life Support Program*, and AFI 36-2209, *Survival and Code of Conduct Training*. It establishes and defines ALS program policy and objectives, clarifies responsibilities, defines ALS continuation training (ALSCT), and standardizes equipment control procedures. It defines general life support equipment (LSE) maintenance and inspection requirements, establishes equipment security procedures, and prescribes minimum equipment requirements for AMC ALS operations. It applies to all AMC aircrew and personnel when flying in aircraft assigned or attached to organizations of this command. This publication applies to the Air National Guard (ANG) when published in the ANGIND 2, and the Air Force Reserve Command (AFRC) when published in the AFRC Index 2. Supplements to this instruction must be approved in accordance with (IAW) this instruction (see paragraph **1.2.**). ***NOTE***: The reporting requirements in this publication are exempt from licensing in accordance with paragraph 2.11.12 of AFI 37-124, *The Information Collections and Reports Management Program; Controlling Internal, Public, and Interagency Air Force Information Collections.* The use of the name or mark of any specific manufacturer, commercial product, commodity, or service in this instruction does not imply endorsement by the United States Air Force.

SUMMARY OF REVISIONS

This instruction has changed significantly in both content and organization. These changes include: removal of Chapter 3, Life Support Awards Program; removal of aircraft-installed LSE configuration tables and inspection procedures; addition of the Composite Tool Kit (CTK) Program and AMC ALS Rapid Global Mobility Concept of Operations. This instruction should be carefully reviewed by those responsible for complying with the guidance provided in it.

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Chapter 1

GENERAL INFORMATION

1.1. General:

1.1.1. This chapter establishes minimum program fundamental, administrative, and managerial requirements for all AMC and AMC-gained Air Reserve Component (ARC) organizations. Individuals having ALS administration and program responsibilities will ensure compliance with AFIs, AMCIs, and respective major command (MAJCOM) supplements thereto.

1.2. Supplements:

1.2.1. AMC and AMC-gained ARC units will supplement this instruction within 6 months of the publication date IAW AFI 37-160, Volume 1, *The Air Force Publications and Forms Management Programs--Developing and Processing Publications*, as required. Supplements can be made more, but not less, restrictive than Air Force guidance and this instruction.

1.2.2. Supplements will address the wing's mission specific policies that are peculiar to peacetime and wartime operations.

1.2.3. Active duty units will submit proposed supplements to HQ AMC/DOTL for approval after unit coordination, prior to publication.

1.2.4. ANG units will forward supplement through the appropriate Weapon System Team Chief (WSTC) for review to ANGRC/XOOSF. After publication, send one information copy to the appropriate MAJCOM ALS office.

1.2.5. AFRC units will forward supplement through the appropriate Numbered Air Force (NAF) to HQ AFRC/DOTSL for approval. After publication, send one information copy to the appropriate MAJCOM ALS office.

1.3. Changes:

1.3.1. Units are encouraged to propose amendments and recommend policy and procedural improvements to this instruction.

1.3.2. Send suggested improvements to this instruction on AF Form 847, **Recommendation for Change of Publication**, through appropriate channels, IAW AFI 37-160, Volume 1. Send AF Form 847 to HQ AMC/DOTL, 402 Scott Drive, Unit 3A1, Scott AFB, IL 62225-5302.

1.3.3. Intervening levels will evaluate all recommendations and forward the AF Form 847 to the next higher echelon.

1.4. Waivers:

1.4.1. Deviations from this instruction are not authorized without the prior written approval from the applicable approving authority.

1.4.2. Units may request waivers to requirements of this instruction when unique or unusual circumstances or requirements affect the unit's ability to implement stated policy or procedure IAW AFI 37-160, Volume 1 (i.e., compliance with this instruction is creating a hazard, an emergency or special

circumstance exists or for the protection of lives, or when necessary to comply with MAJCOM training publications).

1.4.3. Units will forward their request for a waiver to this instruction through their chain of command and applicable MAJCOM channels to HQ AMC/DOT. Send an information copy to HQ AMC/DOTL. The unit must include a detailed package supporting the request. Describe the requirements that are creating one or more problems/shortfalls and explain why a waiver is needed.

1.4.4. HQ AMC/DOTL will conduct a review of request and respond in writing to the submitting unit. All approvals will include an expiration date. Waivers stay in effect for the life of this instruction unless HQ AMC/DOTL specifies a shorter period of time, cancels it in writing, or issues a change that alters the basis for waiver.

1.4.5. The requesting unit office of primary responsibility (OPR) must contact the base publication manager who will process the approved waiver as a base supplement.

1.4.6. ANG units will forward waiver requests through their appropriate WSTC to ANGRC/XOOSF. AFRC units will forward waiver requests through their appropriate NAF to HQ AFRC/DOTSL.

1.5. Communications:

1.5.1. Direct telephone or E-mail communication with air logistics centers, item managers, contractors, system program offices, depots, or other MAJCOM staff agencies concerning policy or equipment requirements are unauthorized. Prior approval and coordination with HQ AMC/DOTL, ANG WSTC, ANGRC/XOOSF, NAF, or HQ AFRC/DOTSL is required, as applicable.

1.5.1.1. If an emergency arises and requires immediate contact with the above agencies, advise the appropriate higher headquarters ALS office as soon as possible.

1.5.1.2. Superintendents/Noncommissioned Officers In Charge (NCOIC) are authorized to inquire about the status of requisitions and stock availability by using the Defense Logistics Agency (DLA) automated system. Use the DLA customer assistance handbook available from the base supply customer service element.

1.5.2. The Life Support Officer (LSO)/superintendent or designated individual will make all phone calls to HQ AMC/DOTL. ANG units will channel communications to this office through their respective WSTC and ANGRC/XOOSF. AFRC units will channel communications to this office through their respective NAF and HQ AFRC/DOTSL.

1.5.2.1. Associate reserve unit liaisons will communicate with the host LSO/superintendent, NAF, and HQ AFRC/DOTSL to resolve ALS issues pertaining to their units.

1.5.3. All active duty units will ensure ALS matters, including requests for waivers, are channeled through the appropriate Operations Group LSO/Superintendent to HQ AMC/DOTL.

1.5.4. ALS sections will ensure deficiency reports, hazard reports, and other correspondence relating to LSE and ALS procedures are coordinated through the Operations Group LSO/Superintendent.

1.6. Messages:

1.6.1. HQ AMC/DOTL is responsible for ensuring address indicating group (AIG) 8322 is updated annually or modified when required IAW AMCI 37-104, *Address Indicating Groups (AIG)*.

1.6.2. Addressees of this AIG must immediately provide their servicing base communications center (BCC) with any modifications, recapitulations, or cancellations and HQ AMC/DOTL with any address/office symbol changes IAW AMCI 37-104.

1.6.3. When sending messages requiring action by higher headquarters or other ALS units, provide information copies to all MAJCOM agencies involved.

1.6.4. Active duty units will send information copies of all ALS related product quality deficiency reports (PQDR) to HQ AMC/DOTL. ARC units will send information copies through their respective chain of command.

1.7. E-Mail Procedures:

1.7.1. Units should pursue permanent hook-up to Defense Switched Network (DSN) or Internet computer terminals to facilitate E-mail correspondence with HQ AMC/DOTL.

1.7.2. Use E-mail to the maximum extent possible to forward communications between AMC ALS functions and headquarters when response is not of a critical nature or an immediate response is not required. This will limit the number of phone calls going to headquarters. Units must follow the guidance in this instruction when using e-mail (see paragraph **1.5.**).

1.8. World Wide Web (WWW) Home Page:

1.8.1. Access to the HQ AMC/DOTL's WWW home page is unrestricted. Units can access the web page using the following Internet address: http://www.safb.af.mil:81/hqamc/directorates/amcdo/dot/dotl.htm.

1.8.2. Units are encouraged to suggest items for inclusion on the web page.

1.9. Reference Materials:

1.9.1. A listing of ALS publications, technical orders, abbreviations and acronyms, and definitions for terms used in this instruction are available in **Attachment 1**.

Chapter 2

AIRCREW LIFE SUPPORT (ALS) PROGRAM ADMINISTRATION

2.1. General:

2.1.1. This chapter outlines core management requirements and responsibilities for administering AMC ALS programs.

2.2. Organization:

2.2.1. HQ AMC. ALS is a staff function of the Directorate of Operations (DO), Aircrew Operations and Training Division (DOT), Life Support Branch (DOTL).

2.2.1.1. HQ AMC/DOTL is responsible for the overall management and administration of AMC ALS operations IAW AFPD 11-3 and AFI 11-301.

2.2.2. Wing-Level. ALS function is the responsibility of the Operations Group commander or ARC-equivalent IAW AFI 11-301.

2.2.2.1. The management and administration of the wing/group ALS function is the responsibility of the LSO/superintendent assigned to the Operations Support Squadron (OSS). In the ANG, the ALS superintendent is assigned to the flying squadron.

2.2.3. Squadron-Level. ALS function is an integral element of the squadron and is managed by the squadron LSO and Flight Chief/NCOIC and functionally aligned under the operations officer.

2.2.4. ANGRC/XOOSF and HQ AFRC/DOTSL. These offices are responsible for the overall management and administration of AMC-gained ALS operations within their respective MAJCOM.

2.3. AMC Aircrew Life Support Mission:

2.3.1. The mission of the AMC Aircrew Life Support Program is to provide mission-ready aircraft-installed life support equipment (LSE) and aircrew with fail-proof LSE and survival continuation training to enhance survival capability.

2.4. Responsibilities:

2.4.1. HQ AMC/DOTL:

2.4.1.1. Provide management oversight of MAJCOM ALS requirements and comply with responsibilities as outlined in AFI 11-301. Specific responsibilities are as follows:

2.4.1.1.1. Provide MAJCOM guidance and standardized procedures for the use, care, control, inspection, maintenance, and safeguarding of LSE.

2.4.1.1.2. After evaluation, provide submitting unit feedback on the status of Technical Order (TO) improvement reports and USAF suggestions.

2.4.1.1.3. Retransmit interim safety and operational supplements, interim time compliance technical orders, and interim technical orders IAW TO 00-5-2, *Technical Order Distribution System*.

2.4.1.1.4. Coordinate and resolve operational ALSCT and Code of Conduct Continuation Training (CoCCT)/Survival, Evasion, Resistance, and Escape (SERE) matters within the AMC staff, between other MAJCOMs, logistics centers, and contractors.

2.4.1.1.5. Coordinate AMC attendance and conduct an ALS workshop during the Multi-Command Aircrew Life Support Workshop/Seminar or conduct a MAJCOM-wide ALS workshop at least every 24 months.

2.4.1.1.6. Conduct periodic site visits at AMC units IAW AFI 11-301 (see paragraph **2.5.2.3.6.**). Conduct visits at least every 18 months to evaluate ALS's technician training, quality improvement, self-assessment, and ALSCT programs (ARC units if requested).

2.4.1.1.7. Forward annual AMC ALS Award winners for Air Force-level consideration IAW AFI 36-2807, *Headquarters United States Air Force Deputy Chief of Staff Plans and Operations Annual Awards Program.*

2.4.1.1.8. Review and validate AMC Forms 1008, **Statement of Integrated Unfunded Requirements**, to substantiate requirements submitted by AMC wings.

2.4.1.1.9. Manage 1T0X1/1T1X1 career fields IAW AFI 36-2101, *Classifying Military Personnel (Officer and Airman)*, AFMAN 36-2108, *Airman Classification*, AFI 36-2201, *Developing, Managing, and Conducting Training*, and AFMAN 36-2245, *Managing Career Field Education and Training*.

2.4.1.1.9.1. Establish standardized training requirements for AMC aircrew, technician, and SERE personnel.

2.4.1.1.9.2. Review/approve upgrade training (UGT) waiver requests IAW AFI 36-2101 and AFMAN 36-2245.

2.4.1.1.9.3. Report Career Field Education and Training Plan (CFETP) inadequacies IAW AFI 36-2201.

2.4.1.1.9.4. Develop requirements, implement, and manage career field on-the-job training (OJT) programs. Establish MAJCOM priorities and identify position (wartime and peacetime) qualification and skill-level UGT requirements.

2.4.1.1.10. Publish the AMCRP 11-11, *AMC Life Support Newsletter*, quarterly. Newsletter provides AMC and AMC-gained ARC units updated information concerning AMC's ALS programs and ongoing initiatives.

2.4.1.1.11. Develop ALS instructor guides (see paragraph **2.4.7.1.1.**). ANG units will use instructor guides developed by the 436 TS/FSS, Dyess AFB TX, to enhance ALSCT.

2.4.1.1.12. Publish the AMC Aircrew Life Support (ALS) Technical Order (TO) Options List. Provide guidance and direction concerning AMC's position on MAJCOM and unit options in applicable LSE related TOs (see paragraph **2.5.2.1.2.**).

2.4.1.1.13. Publish the AMC Aircrew Life Support (ALS) Program Unit Self-Assessment (USA) Guide. Provide guidance and direction on how to conduct the Unit Self-Assessment (USA) program (see paragraph **2.5.2.3.**).

2.4.1.1.14. Publish the AMC Aircrew Life Support (ALS) Quality Improvement (QI) Checklist. Provide guidance and direction on how to conduct the QI program (see paragraph **2.5.2.4.**).

2.4.1.1.15. Coordinate equipment shortages requiring coordination outside AMC channels through HQ AMC/DOTL, ANGRC, or AFRC, as applicable (see paragraph **3.3.5.2.**).

2.4.1.1.16. Coordinate active duty ACDE/AERP equipment requirements with HQ AMC/CEOX to identify D-bag requirements prior to releasing O&M funding from program element (PE) 27593. AFRC/DOTSL and ANG/XOOSF will coordinate ACDE/AERP equipment requirements within their respective commands.

2.4.1.1.17. Assist units to redistribute excess and requisition shortages of LSE (see paragraph **3.5.**). If required, assist units to transfer aircraft (see paragraph **3.6.**).

2.4.1.1.18. Review/validate allowance standards (AS) quarterly for accuracy and adequacy.

2.4.1.1.19. Compile and forward AMC's time-change requirements to appropriate Air Logistic Centers and Defense Supply Centers IAW TO 00-20-9, *Forecasting Replacement Requirements for Selected Calendar and Hourly Time-Change Items* (see paragraph **3.7.**).

2.4.1.1.20. Responsible for standardizing LSE configurations for mission design series (MDS) aircraft which AMC is lead command of and for publishing and coordinating AFI 11-302, Volume 1, *C-5, C-9, C-17, C-20, C-21, C-27, C-130, C-141, KC-10 and C/KC-135, Maintenance and Configuration Requirements for Aircrew and Aircraft-Installed Life Support Equipment* (*LSE*) (forthcoming).

2.4.2. HQ AMC/IGIO:

2.4.2.1. Conducts Operational Readiness Inspections (ORI) of AMC and AMC-gained ARC units.

2.4.2.1.1. Assesses and evaluates subordinate units' management and process effectiveness and determines mission performance capability.

2.4.2.1.2. Informs HQ AMC/DOTL's functional area managers of any observations, shortfalls, or recommended actions identified during ORIs (not previously identified in official reports) which effect guidance and AMC's ALS program.

2.4.2.1.3. Updates the AMC Inspector General (IG) Rules of Engagement (ROE) effecting ALS operations on the AMC IG WWW site at: http://weblord:81/hqamc/directorates/ig2/ig1.htm, *ORI Information*, as appropriate.

2.4.3. Wing/Operations Group Commander or ARC-Equivalent:

2.4.3.1. Comply with the responsibilities listed in AFI 11-301, and this instruction. Ensure ALS programs meet the requirements of AFI 11-301, AFI 11-302, Volume 1 and AMC Supplement 1 (AMC1) (forthcoming) thereto, and this instruction. Specific responsibilities are as follows:

2.4.3.1.1. Ensure a wing/group LSO, senior Noncommissioned Officer (NCO) superintendent (Air Force Specialty Code (AFSC) 1T191/71), and an ALS training NCOIC (two for Strategic Airlift and Air Mobility Wings) are assigned and functionally aligned under the OSS IAW AFI 11-301, AFI 38-101, *Air Force Organization*, and Air Force Manpower Standard (AFMS) 13C1, *Current Operations Flight*.

2.4.3.1.1.1. LSOs are appointed as additional duty personnel and should remain in this position for a minimum of 24 months.

2.4.3.1.1.2. LSOs must be rated and currently flying the unit assigned aircraft. If commanders elect not to appoint a full time LSO, the next highest ranking rated officer within the chain of command will serve as wing LSO. The assignment of LSOs within the ANG is optional; when not assigned, the duties and responsibilities of the LSO are performed by the superintendent.

2.4.3.1.1.3. AFRC units will appoint LSOs IAW AFI 11-301/AFRC1.

2.4.3.1.2. Ensure ALS personnel only perform duties as specified in AFMS 13C1 and AFMS 31C1, *Life Support Section* (see paragraph **2.4.4.1.3.**). ALS personnel are considered critical in preparation of and during contingencies.

2.4.3.1.3. Ensure sufficient funding is allocated for the continued management of ALS programs, purchase of life-sustaining (time-change) items, and support of contingency plans.

2.4.3.1.4. Forward ALS's integrated unfunded requirements (IUR) effecting mission readiness for higher headquarters' approval.

2.4.3.1.5. Ensure ALS is advised of applicable contingency plans to ensure proper LSE and support equipment is available for deployment operations.

2.4.3.1.6. Evaluate and forward waiver requests (see paragraph **1.4.**).

2.4.3.1.7. Ensure adequate training facilities and/or sites are available to conduct all ALSCT events.

2.4.3.1.8. Ensure squadron operations and centralized ALS facilities meet the standards in AFH 32-1084, *Facility Requirements*, and AMC facility design guides.

2.4.3.1.9. Ensure risk management principles in AFI 91-213, *Operational Risk Management Program*, and AFPAM 91-214, *Managing Risk and Operational Decision Making* (forthcoming), are applied by all levels of management to reduce the potential for loss of personnel, equipment, and property.

2.4.4. Squadron Commanders:

2.4.4.1. Comply with the responsibilities listed in AFI 11-301, AFI 11-302, Volume 1 and AMC1 (forthcoming) thereto, and this instruction. Specific responsibilities are as follows:

2.4.4.1.1. Appoint a rated LSO who has completed requirements IAW AFI 11-301.

2.4.4.1.1.1. LSOs are appointed as additional duty personnel and should remain in this position for a minimum of 24 months.

2.4.4.1.1.2. If a primary or additional duty LSO is not assigned, the responsibilities will be assumed by the squadron commander, operations officer, or branch/flight chief.

2.4.4.1.1.3. The assignment of LSOs within the ANG is optional; when not assigned, the duties and responsibilities of the LSO are performed by the superintendent.

2.4.4.1.2. Commanders will ensure crew members return all previously signed out equipment to the ALS facility at the end of each flying day or upon returning from alert, temporary duty (TDY), deployments, exercises, etc. Also, commanders will establish procedures to:

2.4.4.1.2.1. Ensure designated crew members sign the AFTO Form 46, **Prepositioned Life Support Equipment**, or computer generated AFTO Form 46 (EF) indicating aircraft inventory was completed prior and equipment discrepancies were properly documented (see paragraphs **2.4.9.2.** and **2.4.9.8.**).

2.4.4.1.2.2. Ensure crew members who are arriving into or departing from squadron (permanent change of station (PCS) or permanent change of assignment (PCA)) process through the ALS section to initiate or terminate required service or support from ALS.

2.4.4.1.2.3. Ensure crew members who are deployable to threat environments have completed required ALSCT and possess all required equipment in AMCI 10-403, *Air Mobility Command (AMC) Force Deployment* (formerly AFI 10-406), AMC OMNIBUS OPLAN, Annex C, as well as other applicable flying publications.

2.4.4.1.3. Ensure ALS/SERE personnel (AFSC 1T0X1/1T1X1) are not assigned additional duties, details, or permanent assignments that interfere with their primary ALS or instructor duties (i.e., first sergeant, resource advisor, quality manager, mobility NCO, shelter monitor, aircrew transportation (shuttle), etc.).

2.4.4.1.3.1. During wartime, contingencies, ORIs, Operational Readiness Exercises (ORE), Mobility Exercises (MOBEX), and generation exercises, ALS personnel must be available to perform mission-essential duties to sustain ALS operations (i.e., aircrew LSE issue, fitting and inspection, aircraft-installed LSE configurations, predeployment ALS briefings, aircrew contamination control area (ACCA) operations, aircrew LSE decontamination, etc.).

2.4.4.1.3.2. ALS personnel assigned additional duties (i.e., used outside of Control AFSC (CAFSC)) will not exceed 130 days without written MAJCOM approval IAW AFI 36-2101. Group/squadron commanders will accomplish proper classification action in order for headquarters to track personnel performing duties outside of their CAFSC (i.e., AF Form 2096, **Classification/On-the-Job Training Action**, or PC-III generated AFSC action notice).

2.4.4.1.4. Monitor assigned crew members' ALSCT currency in all aspects of and use of applicable LSE. Ensure crew members demonstrate "hands-on" proficiency IAW AFI 11-301.

2.4.4.1.5. Commanders of associate reserve flying and aeromedical evacuation squadrons will assign a crew member to serve as the ALS liaison officer. This individual will work with the host active duty or reserve LSO and superintendent to establish a line of communications and address issues related to the squadron's flying needs.

2.4.5. LSO and Superintendent:

2.4.5.1. The overall functional and management responsibility for each wing ALS program is the responsibility of the appointed wing/group LSO/superintendent. In the ANG, the ALS superintendent is assigned to the flying squadron.

2.4.5.1.1. This complete OSS team, assigned to the Current Operations Flight IAW AFI 38-101 and AFMS 13C1, consists of the LSO, superintendent, and training NCOIC.

2.4.5.1.2. They are the wing/group's focal point for all ALS matters dealing with higher headquarters.

2.4.5.1.3. This office is part of the group's management staff carrying the responsibility for integrating the wing's ALS program into the flying operations of Air Mobility Wings (AMW), Airlift Wings (AW), and Air Refueling Wings (ARW) as identified in this instruction.

2.4.5.1.4. This team is responsible for planning and managing the organizational structure for ALS functions, including functional responsibilities, staffing requirements, and assignment of ALS and SERE personnel to and within the wing.

2.4.5.1.5. Subordinate ALS sections and flying squadrons will channel all ALS matters pertaining to centralized strategic (Strat) airlift and decentralized aerial refueling (tanker), combat delivery airlift, and operational support airlift (OSA) operations through the LSO/superintendent.

2.4.5.2. Responsibilities include but are not limited to the following functions:

2.4.5.2.1. Implement higher headquarters and local publications, policies, guidance, directives, and procedures to ensure ALS personnel qualifications, equipment, training, and staffing meet mission requirements.

2.4.5.2.2. Ensure AFMS 13C1 and 31C1 are fully implemented, supported, and adhered to. Ensure ALS personnel are not assigned additional duties (see paragraph **2.4.4.1.3.**).

2.4.5.2.3. Perform a wing-wide ALS program USA annually. Document assessment (see paragraph **2.5.2.3.**). AFRC units will perform USAs IAW AFI 11-301/AFRC1.

2.4.5.2.4. Develop and publish a wing supplement to AFI 11-302, Volume 1/AMC1 (forthcoming) and this instruction (see paragraph **1.2.**).

2.4.5.2.5. Establish communications among operations, medical, and logistics groups, and operational support agencies to ensure appropriate issues are elevated and addressed and LSE is adequately maintained (see paragraph **2.6.**).

2.4.5.2.6. Evaluate or assess ALS combat capability during local exercises (see paragraph **6.2.3.1.15.**). The evaluation or assessment will specifically address equipment combat configuration, facilities at deployed locations, ACCA processing, ACDE or Aircrew Eye/Respiratory Protection (AERP) equipment donning and doffing proficiency, equipment decontamination, emergency "bug-out" and equipment dispersal procedures, and sustainment of ALS operations at home-station and deployed locations.

2.4.5.2.7. Develop standardized guidance to the maximum extent possible for ALS operations within the wing to meet the objectives of Air Force and AMC directives, and this instruction.

2.4.5.2.8. Direct and monitor ALSCT programs IAW this instruction (see **Chapter 5**). Certify those individuals responsible for providing ALSCT (see paragraph **5.2.3.**).

2.4.5.2.9. Ensure availability of sufficient LSE to support mission requirements IAW AFMAN 23-110, Vol 2, Part 13, *Standard Base Supply Customer's Procedures*, and related chapters (see paragraph **3.3.**).

2.4.5.2.10. Conduct operational test-and-evaluation (OT&E) of LSE as directed by higher headquarters.

2.4.5.2.11. Initiate, evaluate, and monitor all ALS systems equipment deficiency reports IAW TO 00-35D-54, *USAF Material Deficiency Reporting and Investigating System*, and AFMAN 23-110, Vol 2, Part 13 (see paragraph **3.8.**).

2.4.5.2.12. Prepare and submit operational requirements to higher headquarters for evaluation and action IAW DoDI 5000.2/AF1, *Defense Acquisition Management Policies and Procedures*, and AFI 10-601, *Mission Needs and Operational Requirements Guidance and Procedures*.

2.4.5.2.13. Assist the flight surgeon in completing AF Form 711GA, **Life Sciences Report of an Individual Involved in an AF Flight/Flight Related Mishap**, IAW AFI 91-204, *Safety Investigations and Reports*. LSOs and NCOs who have attended the Life Sciences Equipment Investigation Course may perform these duties.

2.4.5.2.14. Validate and forward annual munitions forecast and out-of-cycle requests IAW AFI 21-208, *Munitions Forecast, Allocation, and Buy Budget Process*. Ensure time-change forecasts are reported (see paragraph **3.7.**).

2.4.5.2.15. Submit messages regarding LSE and ACDE/AERP excesses and shortages for MAJCOM-wide redistribution (see paragraph **3.5.**).

2.4.5.2.16. Establish AFTO Form 22, **Technical Order Improvement Report and Reply**, and AF Form 1000, **United States Air Force Suggestion**, approval procedures (see paragraph **2.5.2.1.3.**).

2.4.5.2.17. Assist the operations/logistics group commander or ARC-equivalent to monitor the Time Compliance Technical Order (TCTO) control program IAW AFI 11-301 and TO 00-5-15, *Air Force Time Compliance Technical Order System*. Provide HQ AMC/DOTL information on status and completion of required modifications.

2.4.5.2.18. Submit LSO, ALS personnel, SERE training instructors, and team awards for HQ AMC-level consideration IAW AMCI 36-2806, *Directorate of Operations Award Program Management*. Wings should establish a local ALS awards program (i.e., quarterly and annual) to recognize outstanding performers, and foster teamwork and esprit de corps within the organization. ANG nomination folders are submitted to ANGRC/DPA IAW AFI 36-2807.

2.4.5.2.19. Identify and keep wing/operations group commanders or ARC-equivalents informed of funding/equipment shortfalls. Submit IURs on AMC Form 1008 IAW AMCI 65-601, *AMC Budget Management for Operations*, and provide mission impact letters to wing/group commanders or ARC-equivalents to substantiate the need for funds.

2.4.5.2.20. Ensure all wing ALS personnel are knowledgeable and familiar with operation plans (OPLAN), designed operational capability (DOC) statements, and unit type codes (UTC) as they relate to ALS operations and maintenance of LSE at deployed locations, and AMCI 10-403 (formerly AFI 10-406).

2.4.5.2.21. Ensure unit crew members have the appropriate LSE as specified in AMCI 10-403 (formerly AFI 10-406).

2.4.5.2.22. Review support agreements IAW AFI 25-201, *Support Agreements Procedures* (formerly AFR 11-4).

2.4.5.2.23. Validate and identify ALS facility shortfalls not meeting requirements IAW AFH 32-1084 and AMC facility design guides.

2.4.6. Flight Chief/NCOIC:

2.4.6.1. Strat airlift ALS sections are aligned under the OSS ALS office with operational and administrative control responsibilities assigned and exercised by the Flight Chief/NCOIC.

2.4.6.2. Within aerial refueling (tanker), combat delivery airlift, and OSA squadron ALS sections, the NCOIC holds primary responsibility for day-to-day operations through the squadron commander, operations officer, and LSO.

2.4.6.3. Responsibilities include but are not limited to the following functions:

2.4.6.3.1. Ensure qualified ALS technicians are available and trained IAW AFI 36-2201, and this instruction. Report CFETP inadequacies IAW AFI 36-2201 (see paragraph **2.5.2.2.14.**).

2.4.6.3.2. Ensure an appropriate number of ALS personnel are Red X certified to support wartime and peacetime operations and certification documented IAW AFI 36-2201, TO 00-20-1, *Preventive Maintenance Program General Policy Requirements and Procedures*, and AMC1 thereto. As a minimum, the NCOIC and an appropriate number of 7-skill level personnel will be Red X certified to support flight line operations. Technically-qualified 5-skill-level (SSgt/SrA) may be Red X certified. Enter, upgrade, and clear data entries for LSE discrepancies in aircraft forms IAW TOs 00-20-1 and 00-20-5, *Aircraft, Drone, Aircrew Training Devices, Engines, and Air-Launched Missile Inspections, Flight Reports, and Supporting Maintenance Documents*.

2.4.6.3.3. Maintain accountability of all LSE transactions (see paragraph **3.4.**). Ensure LSE is routed through the appropriate maintenance activities for inspection or repair.

2.4.6.3.4. Ensure proper care, use, inspection, and maintenance of LSE IAW applicable Air Force and commercial TOs and higher headquarters publications.

2.4.6.3.5. Ensure LSE inspection records maintained in the Automated Life Support Management System (ALSMS) are accurate and data entered are correct (see paragraph **2.12.**).

2.4.6.3.6. Ensure a file plan is established and training is accomplished IAW AFI 37-122, *Air Force Records Management Program*. Maintain records IAW AFI 37-138, *Records Disposition--Procedures and Responsibilities*, and AFMAN 37-139, *Records Disposition Schedule*.

2.4.6.3.7. Budget for funds for the continued management of ALS operations in the unit's annual financial plan. Identify and forward unfunded requests to the squadron commander/resource advisor. Provide information copies of IURs and mission impact letters to the wing/group LSO/superintendent to keep them informed of funds needed to support unit's ALS operations.

2.4.6.3.8. Maintain a current file of applicable publications and TOs pertaining to safety of personnel, and issue, inspection, maintenance, security, and use of assigned LSE. Ensure compliance with guidance contained therein. Units using the electronic publications library are not required to have printed copies of Air Force and AMC publications as long as all personnel have access to and know how to use these programs. AMC's publication library is available digitally on HQ AMC's WWW sites at: http://www.safb.af.mil:81/hqamc/amchome/ or http://www.safb.af.mil:80/ hqamc/pa/pubs/hqamc.htm.

2.4.6.3.9. Ensure TOs listed in the Weighted Airmen Promotion System (WAPS) Catalog are available for individuals (SrA through TSgt) testing under the WAPS program, as required.

2.4.6.3.10. Requisition, store, inspect, maintain, and configure aircraft with required LSE IAW AFI 11-302, Volume 1 and AMC1 (forthcoming) thereto, and this instruction. ALS will prepare AFTO Forms 46 or computer generated AFTO Form 46 (EF) in duplicate. Maintain a file of the original and completed AFTO Forms 46 by aircraft tail number for all assigned aircraft for historical purposes. File the AFTO Forms 46 removed from aircraft and signed by crew members. These signed forms will assist ALS during the investigation of missing LSE. Purge copies of AFTO Forms 46 quarterly or when no longer required.

2.4.6.3.11. Ensure annual munitions forecast and out-of-cycle requests are coordinated with the munitions accountable systems officer (MASO) IAW AFI 21-208. Identify munitions required for mobility IAW AFI 21-203, *Deployable Ammunition Operations Procedures*, and AFMAN 91-201, *Explosives Safety Standards*.

2.4.6.3.12. Ensure explosives storage facilities and operating locations within ALS have been approved by the host weapon safety office, documented on an AF Form 2047, **Explosives Facility License**, and meets the standards of AFI 31-209, *The Air Force Resource Protection Program* and AFMAN 91-201. Effectively manage munitions accounts (see paragraph **3.2.9.**).

2.4.6.3.12.1. Review each license at least annually IAW AFMAN 91-201.

2.4.6.3.12.2. Ensure a copy of the license and appropriate class/division and fire symbols are displayed at each explosives storage and operating location, as required. If the explosives storage area is separate from the operating location (i.e., munitions are stored in another location from where the inspection of munitions is performed), ensure a separate license is established to identify explosives operations limits for operating locations where munitions are handled (i.e., survival/accessory kits and survival vests inspection areas).

2.4.6.3.13. Ensure lithium batteries are handled and stored properly (see paragraph **2.8.5.**).

2.4.6.3.14. Ensure a CTK program is established (see paragraph **2.11.**).

2.4.6.3.15. Maintain constant surveillance over LSE and initiate deficiency reports or hazard reports IAW applicable directives.

2.4.6.3.16. Ensure that deficiency, hazard, and TO improvement reports, modification proposals, and suggestions are submitted and properly evaluated/processed IAW AFI 91-204, TOs 00-5-1, *AF Technical Order System*, and 00-35D-54, DoDI 5000.2/AF1, and AFI 38-401, *The Air Force Suggestion Program*.

2.4.6.3.17. Ensure a resource protection program is established (see paragraph **2.9.**).

2.4.6.3.18. Establish a written hazard communication program IAW Air Force Occupational, Safety, and Health (AFOSH) STD 48-21, *Hazard Communication* (formerly AFOSH STD 161-21).

2.4.6.3.18.1. Ensure a master file of material safety data sheets (MSDS) is available and personnel have ready access to MSDS IAW AFOSH STD 48-21 (formerly AFOSH STD 161-21).

2.4.6.3.18.2. Ensure personnel receive training IAW AFOSH STD 48-21 (formerly AFOSH STD 161-21).

2.4.6.3.19. Ensure vehicles are maintained and operated IAW AFI 24-301, *Vehicle Operations*, AFI 24-302, *Vehicle Maintenance Management* (formerly AFM 77-310, V2), AFMAN 24-307, *Procedures for Vehicle Maintenance Management* (formerly AFM 77-310, V2), AFMAN 24-309, *Vehicle Operations* (formerly AFM 77-310, Vol 1), and AMCI 24-301, *AMC Vehicle and Equipment Appearance Standards*.

2.4.7. Survival, Evasion, Resistance, and Escape (SERE) Training Instructors (1T0X1):

2.4.7.1. Responsibilities include but are not limited to the following functions:

2.4.7.1.1. The MAJCOM SERE instructor is responsible for developing core ALS instructor guides to standardize the quality of lesson plans within AMC.

2.4.7.1.2. Each Strat AW and AMW will have a minimum of one SERE instructor assigned to the OSS.

2.4.7.1.3. The SERE instructor will work for the LSO/superintendent to develop and conduct combat survival training and CoCCT (SERE) IAW AFI 11-301 and AFI 36-2209. The SERE instructor will assist the superintendent with other tasks, as required.

2.4.7.1.4. SERE instructors may also be responsible for aircrew chemical defense and water survival training as required by the superintendent.

2.4.7.1.5. SERE instructors will provide training for deploying aircrew and other personnel during contingencies, as required.

2.4.8. En Route Support:

2.4.8.1. En route support for LSE is governed by AMC, USAFE, and PACAF intra-service support agreements (SA). USAFE's SA is FB5612-96076-026 and PACAF's SA is FB5209-95124-002. A copy of these documents will be kept in all AMC active duty ALS sections. Also, comply with the instructions in AFM 67-1, Vol IV, Part 1, *Air Force Equipment System Policy and Procedures* (projected to be AFMAN 23-110, Vol 4, Part 1).

2.4.8.2. When and if an en route Continental United States (CONUS) and outside the CONUS (OCONUS) tasking requires additional equipment, the en route location is responsible for providing required support to meet specific mission needs if equipment is available. On return to home-station, ALS supervisors will return equipment to the owning organization.

2.4.8.3. As tasking occurs, en route ALS personnel will make appropriate aircraft form entries and notify the home unit of the tasking, aircraft tail number, mission number, dates, names of flight crew, etc.

2.4.8.4. If the home-station AFTO Form 46 is missing, fill out a new form reflecting the current aircraft configuration. Immediately send copies of changed or replaced AFTO Forms 46 to the owning organization.

2.4.8.5. When reconfigurations occur at en route locations, the owning organization's LSE will remain on the aircraft to the maximum extent possible.

2.4.8.6. If the equipment is stored, the down-loading unit will ensure proper security, control, and accountability and will make arrangements to keep inspections current or return equipment to it's home-station.

2.4.8.7. Direct communication among organizations is highly encouraged prior to, during, and after shipping equipment. Return equipment to the owning unit immediately (see paragraph **3.4.8.**).

2.4.8.8. Air Force configuration publications require all aircraft to have standard quantities of LSE. If aircrew request additional LSE, route the request through the AMC Tanker Airlift Control Center (TACC). The TACC will in-turn verify the requirement.

2.4.8.9. HQ AMC/DOTL, 24 AOS/DOL (HQ USAFE), and HQ PACAF/DOTT have arranged for small quantities of tariff-sized ACDEs to be stored at Ramstein and Yokota Air Bases (AB). This equipment is available primarily for outfitting en route aircrew who may become stranded during a wartime tasking (i.e., channel missions, etc.). These in-place ACDEs are not intended as substitutes for crew members hand-carrying their equipment into theater locations or when higher headquarters provides advanced notice.

2.4.9. Aircraft Commanders (AC):

2.4.9.1. The AC or designated aircrew representative is responsible for the safety of the aircraft and occupants, briefing each crew member and passenger on the location, care, and use of ALS emergency equipment, and briefing emergency procedures before each flight IAW AFI 11-206, *General Flight Rules* (projected to be AFI 11-202, Volume 3, *General Operations Procedures*), TO 14D1-2-1, *Personnel Parachutes*, and TO 14S-1-102, *Maintenance Instructions With Parts Breakdown USAF Flotation Equipment*.

2.4.9.2. The AC or designated aircrew representative will inventory and assume responsibility (by signing and dating the AFTO Form 46) for LSE while in command of the aircraft and throughout the entire mission.

2.4.9.3. Conduct inventory prior to departing home-station and following en route crew changes by reviewing, signing, and dating the AFTO Form 46 IAW AFI 11-2MDS-series, Volume 3.

2.4.9.4. Perform preflight inspections of aircraft-installed LSE IAW appropriate Air Force TOs, aircraft manuals, higher headquarters publications, and local policies.

2.4.9.5. Ensure installed equipment is serviceable and meets mission requirements to support crew complement and passengers (i.e., appropriate types and numbers of life preserver units (LPU), flotation devices, parachutes, survival vests, etc.).

2.4.9.6. Only perform preflight inspection of LPUs and anti-exposure suits for overwater flights, as required.

2.4.9.7. Request additional LSE when required (see paragraph **2.4.8.8.**).

2.4.9.8. The AC or designated aircrew representative will document and ensure missing LSE and en route reconfigurations are annotated on AFTO Form 781A, **Maintenance Discrepancy and Work Document**, and AFTO Form 46. Entries will include as much information as possible to assist ALS locate and recover missing LSE (i.e., station where discovered missing, names, agencies, persons contacted, etc.). When possible, advise HQ AMC/DOTL and TACC (or airport management) before mission continuation.

2.4.9.9. When LSE is missing, initiate a report of survey IAW AFMAN 23-220, *Reports of Survey for Air Force Property* (formerly AFR 68-1), as required.

2.4.10. Organizational Maintenance Squadron Responsibilities:

2.4.10.1. Survival equipment sections will inspect, repair, and pack personnel parachutes, life rafts, life preservers, anti-exposure suits, and organizational equipment IAW AMCI 21-101, applicable Air Force and commercial TOs, and ANG or AFRC publications.

2.4.10.2. During periodic inspections or repack, document and update LSE component information and inspection completion date on the equipment installed forms and/or ALSMS computer generated inspection forms.

2.4.10.3. Provide support for inspection, repacking, and maintenance of TCTO kits and repair flight clothing.

2.4.10.4. Install and remove escape slides and multi-place life rafts installed or attached to the aircraft in wing-wells, overhead cradles, silos, or raft-launching devices.

2.4.10.5. Install, remove, and maintain all emergency egress descent devices, palletized seat kits, and automatic oxygen masks.

2.4.10.6. Provide subassembly replacement items, time-change items, and parts (i.e., parachute components, delay cartridges, and beacon batteries) and obtain serviceable carbon dioxide or compressed air cylinders for life preservers and life rafts. ALS is responsible for providing the initial issue of subassembly items when LSE is initially placed in service.

2.4.10.7. Perform cartridge/propellant actuated devices (CAD/PAD) time-change forecast IAW TO 00-20-9-1, *Forecasting Replacement Requirements for Cartridge/Propellant Actuated Devices (CAD/PAD)*.

2.4.10.8. When required, establish mutually acceptable procedures for removal and pickup or delivery of quick start masks to the ALS facility for inspection or maintenance. The owning maintenance organization is responsible for replacement of condemned masks and canisters.

2.4.10.9. Manage KC-135 single-integrated operations plan (SIOP) alert crew chiefs IAW AMCI 21-101 and unit DOC statements. When helmets or oxygen masks are required for KC-135 SIOP alert crew chiefs, maintenance supervision will work with wing/group ALS staff to establish procedures (see paragraph **4.3.5.**). Monitor KC-135 SIOP alert crew chief ALSCT currencies (see paragraphs **5.4.** and **5.5.**).

2.4.10.10. TMDE flight will calibrate all test equipment used by ALS personnel to maintain LSE and support mobility operations.

2.4.10.11. Plans, Scheduling, and Documentation section will notify ALS upon new aircraft arrivals and transfers so ALS can process documentation records. Contact ALS so that they can perform incoming or outgoing aircraft acceptance inspections, programmed isochronal inspections (ISO), or home-station checks on aircraft-installed LSE.

2.4.10.12. Establish mutually acceptable procedures for the removal, pick-up, and delivery of LSE accessories and kits requiring inspection by ALS personnel (i.e., beacons, life raft accessory kits, etc.).

2.4.11. Munitions Accountable Systems Officer (MASO):

2.4.11.1. The MASO will monitor the status of munitions suspended or restricted by TO 11A-1-1, *Conventional Munitions, Restricted or Suspended*.

2.4.11.2. Provide immediate (oral or written) notice of suspended or restricted lot numbers to all known users of effected national stock numbers (NSN) IAW AFI 21-202, *Combat Ammunition System Procedures*.

2.4.11.3. Forward ALS's annual munitions forecast requirements and coordinate out-of-cycle requests IAW AFI 21-208/AMC1. OPR for submission of the annual ALS munitions forecast is at the unit level.

2.4.11.4. Assist ALS identify deployable munitions requirements, provide munitions custodians training, and courtesy store assets identified for mobility to support deployments IAW AFI 21-203.

2.4.11.5. Forward ALS's CAD/PAD time-change forecast IAW TO 00-20-9-1.

2.5. AMC Aircrew Life Support Key Processes:

2.5.1. All levels of AMC ALS will establish management programs, consisting of, but not limited to: supply procedures and resource management (**Chapter 3**); equipment maintenance and inspection requirements (**Chapter 4**); ALSCT (**Chapter 5**); and deployment and contingency operations (**Chapter 6**).

2.5.2. Implement publication and TO familiarization, technician training, unit self-assessment (USA), and quality improvement (QI) programs as follows:

2.5.2.1. Publication and TO Familiarization Program:

2.5.2.1.1. Recommended publications and TOs are listed in **Attachment 1**. Establish a publication and TO familiarization program to ensure prompt dissemination of task-essential correspondence. This program should also include message traffic, inspector general crosstell, etc.

2.5.2.1.2. HQ AMC/DOTL is responsible for periodically publishing guidance and direction concerning AMC's position on MAJCOM and unit options in applicable LSE related TOs. Mandatory MAJCOM options for AMC units are published and distributed under separate cover letter and contain maintenance practices which supplement applicable technical orders. Wings will implement procedures listed as mandatory and include the wing's position on unit options in their wing supplement to this instruction or separate cover letter, as appropriate.

2.5.2.1.3. Send proposed changes to Air Force TOs (AFTO Forms 22) and suggestions (AF Forms 1000) effecting LSE to HQ AMC/DOTL IAW TO 00-5-1, and AFI 38-401. ANG units will forward AFTO Forms 22 and AF Forms 1000 to ANGRC/XPME. ARFC units will forward AFTO Forms 22 and AF Forms 1000 to AFRC/DOTSL.

2.5.2.1.3.1. Wing/group ALS superintendents are functional OPRs on all related proposed TO changes and will establish procedures within the wing to assign improvement report numbers. As the functional experts, superintendents are responsible for reviewing, evaluating, and processing wing-initiated AFTO Forms 22 dealing with ALS related issues to ensure reports are correct, prior to submitting reports to higher headquarters.

2.5.2.1.3.2. Additionally, their responsibilities include coordination between ALS and survival equipment supervisors when applicable. ALS superintendents will also perform

wing evaluations on LSE related AF Forms 1000 using AF Form 1000-1, **Suggestion Evaluation and Transmittal**.

2.5.2.1.4. Each wing/group ALS office will establish Technical Order Distribution Office (TODO) responsibilities. ALS superintendents must use the Automated Technical Order Management System (ATOMS) program IAW TOs 00-5-2 and 00-5-2-2, *Automated Technical Order Management System (ATOMS) 4.2 User Manual*. Each section, to include the OSS ALS staff, will maintain a current file of applicable TOs. In AFRC/ANG, a separate functional library is not required at the OSS/OSF unit-level.

2.5.2.1.4.1. Establish procedures to make backup copies of all ATOMS database files (*.dbf) at the end of each day's use IAW TO 00-5-2-2.

2.5.2.1.4.2. The following courses as listed in AF Catalog (AFCAT) 36-2223, *USAF Formal Schools*, Air Force Technical Order System (General), J6AZU2E066 038, and Air Force Technical Order System (Advanced), J6AZU2E066 039 are highly recommended for personnel maintaining TOs. These courses will assist individuals to manage and maintain TOs.

2.5.2.1.5. Maintain equipment checklists and work cards IAW TO 00-5-1. Wing/group ALS superintendents will review and send locally prepared checklists and work cards to appropriate offices for approval. Forward a copy of the checklist to HQ AMC/DOTL for possible MAJCOM-wide application IAW TO 00-5-1.

2.5.2.2. Technician Training Program:

2.5.2.2.1. Superintendents/NCOICs will establish an initial upgrade and recurring proficiency training program to ensure technicians become duty position qualified and maintain experience levels commensurate with their skill-level. Complete training required to perform current duty position for AFSCs 1T0X1/1T1X1 IAW AFI 36-2201 and applicable CFETPs.

2.5.2.2.1.1. Upon assignment to an AMC ALS section, initially evaluate, train, and certify all ALS and SERE personnel on all applicable core tasks. As a minimum, accomplish recertification on minimum core task requirements identified in CFETP for 5- and 7-skill level personnel annually.

2.5.2.2.1.2. NCOICs (to include master sergeants) performing technical tasks on LSE in the squadron or shop will maintain an OJT record and will receive initial and annual certification/recertification from the wing/group superintendent. ANG will maintain training records for SNCOs when retraining or as directed by the Air Force Career Field Manager (AFCFM), commanders, or supervisors IAW AFI 36-2201.

2.5.2.2.1.3. As a minimum, composite wings will rotate ALS personnel approximately every 24 months to ensure adequate breadth of experience is available to fulfill positions within the wing.

2.5.2.2.2. Units must process waivers for deferment of core tasks not already identified as waived by MAJCOM functional manager (FM) IAW AFI 36-2101 and AFMAN 36-2245.

2.5.2.2.3. Superintendents, with assistance from NCOICs, will develop and tailor a Master Task Listing (MTL) using the current CFETP IAW AFI 36-2201.

2.5.2.2.3.1. Identify all mission related training requirements to meet MDS-specific and unit needs for wartime and peacetime operations (i.e., survival kits, survival vests, parachutes, helmets, ACDE/AERP equipment tasks, ACCA operations, technical order use, etc.).

2.5.2.2.3.2. Use the MTL to identify core, critical, position qualification, wartime, and unit specific core tasks. Use the MTL to certify skill-level UGT requirements IAW AFI 36-2201.

2.5.2.2.4. Annotate duty position and annual recurring proficiency training requirements for duty position qualification in the individual's AF Form 623, **Individual Training Record**, using current CFETP, AF Form 797, **Job Qualification Standard Continuation/Command JQS**, and AF Form 1098, **Special Task Certification and Recurring Training**, or equivalent authorized computer generated forms.

2.5.2.2.5. Document task evaluations for recurring training requirements on AF Form 803, **Report of Task Evaluation**. Maintain the results of the most current task evaluation for each recurring training event.

2.5.2.2.6. ALS technicians will perform annual chemical defense task qualification training (CDTQT).

2.5.2.2.6.1. Tasks will include the following in addition to core tasks identified in CFETP: aircraft loading, ACCA shelter processing duties (all stations including shelter manager), and the decontamination of LSE.

2.5.2.2.6.2. Ensure assigned ALS personnel demonstrate proficiency in all major tasks while wearing the groundcrew chem-defense ensemble (GCE). ALS technicians will perform ACDE/AERP equipment maintenance inspections using GCE mask and gloves/inserts.

2.5.2.2.6.3. Document initial/annual recurring training requirements on individual's AF Form 1098.

2.5.2.2.7. Aircraft emergency ground egress training is an integral part of ALS personnel's initial and annual technician recurring training. Individuals will receive initial qualification training prior to performing any task aboard unit aircraft IAW AFI 21-112, *Aircraft Egress and Escape Systems*.

2.5.2.2.8. Superintendents/NCOICs will ensure technicians scheduled to attend the formal 7-skill level training course have completed 7-skill level Career Development Course (CDC) before attendance.

2.5.2.2.9. Ensure trainers and task certifiers are qualified and a current letter signed by the squadron commander is available designating these individuals IAW AFI 36-2201.

2.5.2.2.9.1. Trainers are qualified by attending a formal trainer's course. Task certifiers are qualified by attending a formal task certifier's course. Those individuals who have completed a previous field training detachment (FTD) OJT Trainer's and/or Supervisor's Course are not required to attend these courses.

2.5.2.2.9.2. For decentralized ALS sections, the LSO/superintendent will coordinate a letter with flying squadron commanders designating the superintendent as task certifier for NCOICs located within their unit.

2.5.2.2.10. Ensure the unit education and training manager, if applicable, conducts an annual staff assistance visit of the ALS OJT program IAW AFI 36-2201.

2.5.2.2.11. Superintendents will submit wing's USAF formal training course requests for ALS personnel to HQ AMC/DOTL IAW AFCAT 36-2223, to arrive not later than 1 August of each fiscal year. ANG units will submit requests through their local base training office.

2.5.2.2.11.1. The CFETP 1T0X1/1T1X1, lists available courses for broadening and expanding career field knowledge.

2.5.2.2.11.2. This instruction outline the minimum mandatory/desirable training requirements for 1T0X1/1T1X1 personnel assigned to AMC units (see **Table 2.1.** and **Table 2.2.**).

2.5.2.2.12. Superintendents/NCOICs should submit travel requests to send 3-, 5- and 7-skill level technicians TDY to other AMC units so these technicians can receive training on various MDS. This training is unit funded and should be planned for accordingly. Members must hand-carry their OJT records.

2.5.2.2.12.1. This training will enhance technician experience needed during deployments and contingency operations since personnel may be required to support other AMC aircraft (MDS) during wartime.

2.5.2.2.12.2. Superintendents should coordinate with other superintendents to exchange technicians during the same training period to preclude staffing shortfalls.

2.5.2.2.13. Supervisors will evaluate all technical school graduates (AFSC 1T131) to ensure proficiency levels as specified in the approved CFETP.

2.5.2.2.13.1. Report training deficiencies using the Customer Service Information Line (CSIL) IAW AFI 36-2201.

2.5.2.2.13.2. Send information copies of Air Education and Training Command (AETC) questionnaires concerning recent technical school graduates to HQ AMC/DOTL, ANGRC or AFRC, as applicable.

2.5.2.2.14. Supervisors will submit CFETP inadequacy inputs to their respective MAJCOM FM at least 90 days before the CFETP anniversary date as listed in AFIND 8 and the upper left corner of the CFETP IAW AFI 36-2201.

2.5.2.2.15. An overall "snapshot" tour for LSOs and new ALS technicians is very helpful in providing a basic understanding of ALS and how base agencies integrate with the ALS function.

2.5.2.2.15.1. As a training tool, units should arrange for LSOs and ALS technicians to attend a one-time orientation session within 60 days of arrival on station with appropriate base agencies (i.e., the local survival equipment section, individual equipment element (IEE), medical supply, etc.).

2.5.2.2.15.2. Recommended emphasis should include inspections, care, and handling of personnel parachutes, flotation equipment, automatic releases, procedures for locating and terminating false beacon transmissions, etc.

2.5.2.2.15.3. Review AMC mission, organization, and MAJCOM relationships with emphasis on ALS's role. Also, examine the unit's mission; emphasizing ALS's involvement and coordination with other units and operations group functions.

2.5.2.2.15.4. Review unit's ALS organization, functions, publications, and local directives, tour of unit aircraft, familiarization with the unit's tasked UTCs, DOC statements, OPLANs, and mobility plans.

Table 2.1. ALS PERSONNEL TRAINING REQUIREMENTS

Course Description	Course Number	ALS Apprentice (3-Level)	ALS Journeyman (5-Level)	ALS Craftsman (7-Level)	ALS Superintendent (9-Level)	ALS Instructor	Life Support Officer
USAF Aircrew Life Support Officer Course	S-V8G-A						M
Aircrew Life Support Apprentice (3-level)	J3ABR1T131 001	M	M	M	M	M	
Aircrew Life Support Craftsman (7-level) **1**	J3ACR1T171 000			M	M		
Maintenance of Aircrew Night Vision Systems **2**	J4AST1T151 002 J4AZT1T151 002		D	D	D	D	
Combat Survival-Training Course	S-V80-A	D	D	M	M	M	M
US Navy Underwater Egress Training (UET) **3**	S-V84-A					D	D
Water Survival-Training - Parachuting **4**	S-V86-A	D	D	M	M	M	M

Course Description	Course Number	ALS Apprentice (3-Level)	ALS Journeyman (5-Level)	ALS Craftsman (7-Level)	ALS Superinten-dent (9-Level)	ALS Instructor	Life Support Officer
Arctic Survival Training **5**	S-V87-A	D	D	D	D	D	D
Airborne (Para-chutist) **6**	L5AZA1T231 001					D	D
Academic Instruc-tor School **7**	MAIS001	D	D	D		M	D
Life Sciences Equipment Investi-gation Course				D	M		
Operations Sup-port Physiological Training **8**		D	D	D	D	M	
Emergency Medi-cal Technician **9**						D	
Water Safety Instructor Train-ing **10**						M	

NOTES:

M = Mandatory; D = Desirable, but highly encouraged.

1. HQ AFPC is responsible for scheduling 7-skill level trainees/attendees for training; not HQ AMC/DOTL.
2. These mobile training team courses are for personnel performing maintenance on night vision systems (NVS). As a minimum, one technician will be trained/certified through an AETC approved course, by an AETC certified instructor, or directly by manufacturer or their certified instructor, and will train other personnel upon completion.
3. This course only applies to instructors who train aircrew operating helicopters.
4. This course may be substituted with course S-V90-A, Water Survival Training, Nonparachuting.

5. This course is mandatory for an instructor assigned to instruct the unit's ALSCT program when aircrew consistently fly into an arctic environment (above the 50th parallel).
6. This course may be substituted with Basic Parachute Free Fall Course (AM-490) or Army Free Fall Course.
7. It is mandatory for ALS instructors (1T1X1) filling aircrew training or core instructor positions to attend any one of the following courses: Academic Instructor School (AIS) (MAIS001, AIS Mobile Course, (MAIS014), or Basic AIS Mobile Course, (MAIS020)), ACC Life Support Instructor Course (Y120006), or Principles of Instruction Course (J3AIR3S200 002).
8. Instructors require refresher training IAW AFI 11-403, *Aerospace Physiological Training Program*.
9. Basic First-Aid Course and Cardiopulmonary Resuscitation (CPR) certification is mandatory for all ALS instructors to teach Combat Survival, Underwater Egress, and Water Survival Training courses of instruction.
10. Water Safety Instructor Training is only mandatory based on local Morale, Welfare, Recreation, and Services (MWRS) requirements. If MWRS provides lifeguard support, this training is not required.

Table 2.2. SERE INSTRUCTORS TRAINING REQUIREMENTS

Course Description	Course Number	SERE Journeyman (5-Level)	SERE Craftsman (7-Level)
Combat Survival Training Course **1, 4**	S-V80-A	M	M
SERE Training Instructor Course	S-V81-A	M	M
SERE Instructor Indoctrination Course	S-V81-B	D	D
Resistance Training Orientation	S-V81-C	D	D
US Navy Underwater Egress Training (UET) **2**	S-V84-A	D	D
Water Survival Training-Parachuting **3**	S-V86-A	M	M
Arctic Survival Training **4**	S-V87-A	M	M
SERE Training Instructor 7-Level Upgrade Course	J3ACP1T071 000		M
Airborne (Parachutist) **5**	L5AZA1T231 001	D	D
Academic Instructor School	MAIS001	D	D
ACC Life Support Instructor Course	Y120006	D	D
Operations Support Physiological Training **6**		D	D
Emergency Medical Technician **7**		D	D

Course Description	Course Number	SERE Journeyman (5-Level)	SERE Craftsman (7-Level)
Water Safety Instructor Training **8**		M	M
Cross-Functional Communications (CCC)	AFSOC 146002	D	D
Dynamics of International Terrorism (DIT)	AFSOC 147002	D	D
Pararescue Medical Operations	1T231-01	D	D
Pararescue Field Operations	1T231-02	D	D

NOTES:

M = Mandatory; D = Desirable, but highly encouraged.

1. SERE High Risk Level C course, J5AZA1T251 001, is desirable.
2. This course only applies to instructors who train aircrew operating helicopters.
3. This course may be substituted with course S-V90-A, Water Survival Training, Nonparachuting.
4. Unit SERE instructors are authorized return to S-V80-A and S-V87-A on a triennial basis IAW AFI 36-2209/AMC1.
5. This course may be substituted with Basic Parachute Free Fall Course (AM-490) or Army Free Fall Course.
6. Instructors require refresher training IAW AFI 11-403, *Aerospace Physiological Training Program*.
7. Basic First-Aid Course and Cardiopulmonary Resuscitation (CPR) certification is mandatory for SERE instructors to teach Combat Survival, Underwater Egress, and Water Survival Training courses of instruction.
8. Water Safety Instructor Training is only mandatory based on local Morale, Welfare, Recreation, and Services (MWRS) requirements. If MWRS provides lifeguard support, this training is not required.

2.5.2.3. Unit Self-Assessment (USA) Program:

2.5.2.3.1. The USA program is established for the purpose of reviewing key processes and to provide an overall objective assessment of the ALS program. Superintendents will conduct a USA of the wing ALS program annually using the AMC ALS Program USA Guide.

2.5.2.3.2. The written report will outline quality trends (positive and negative), strengths, problem areas and solutions, funding and equipment shortfalls, LSE quality, customer satisfaction, internal and external agency support, personnel qualifications, publications and TO familiarization, MAJCOM policy implementation, future requirements, etc.

2.5.2.3.3. The wing USA will include visits to all sections within each squadron. Visits by any outside agency do not take the place of USA responsibilities.

2.5.2.3.4. The report should be consistent with AFI 90-501, *Criteria for Air Force Assessments*, and support overall squadron, group, and wing Quality plans. The superintendent will coordinate reports through the Operations Group commander or ARC-equivalent to identify strengths/shortfalls within the wing/group's ALS program.

2.5.2.3.5. Units should actively seek and implement applicable benchmark processes, best practices, and compare data with wings/units with similar missions/operations. This will help identify opportunities for process improvement and strengthen units' processes.

2.5.2.3.6. Site visits conducted by HQ AMC/DOTL will use the USA approach and reporting procedures. Purpose of the site visit is to promote an exchange of information and to assess established policy and procedures. HQ AMC/DOTL will use AMC ALS Program USA Guide, AMC ALS QI Checklist, and AMC ALS TO Options List.

2.5.2.3.6.1. In preparation for these visits, units will prepare a folder containing the last USA, supplements to AFI 11-302, Volume 1/AMC1 (forthcoming) and this instruction, metrics, flow charts, a list of recent awards and recognition (individual and unit), and include unit issues/concerns with supporting documentation.

2.5.2.4. Quality Improvement (QI) Program:

2.5.2.4.1. The ALS QI program is designed to measure the effectiveness of ALS's products, technician training programs, and services. It also provides a means to achieve a statistical analysis and continuous improvement of the overall ALS program.

2.5.2.4.2. Unit NCOICs are responsible for the development, implementation, and effectiveness of the QI program.

2.5.2.4.2.1. Unit and section-levels will establish a QI program to detect trends or deficiencies in LSE maintenance, serviceability, technician training, etc.

2.5.2.4.2.2. Use the AMC ALS QI Checklist to conduct semi-annual USAs.

2.5.2.4.3. This program assessment will not be conducted concurrently with higher headquarters or operations group site visits.

2.5.2.4.4. Each unit NCOIC will develop a QI program to objectively review LSE inspection processes and outside agency processes to evaluate products received from suppliers. This includes equipment maintenance and inspections, aircrew and technician training, etc.

2.5.2.4.5. Accomplish reviews during the process of the inspection or maintenance action. Annotate discrepancies/findings on an AF Form 2419, **Routing and Review of Quality Control Reports**, or equivalent.

2.5.2.4.6. Establish statistical analysis (metrics) of discrepancy data to monitor out of control processes and to identify opportunities for improvement. Use customer surveys and task evaluations to determine customer support requirements and training needs.

2.5.2.4.7. Once identified, the ALS superintendent should form a QI team to analyze data and recommend actions to improve processes.

2.5.2.4.8. When issues are identified dealing with cross-functional organizations (i.e., survival equipment, medical supply, etc.), send a copy of the AF Form 2419 to the appropriate agency.

2.6. ALS Quality Council:

2.6.1. This council is designed to review and take courses of action on problems associated with ALS operations and introduction of new or modified LSE. Also, form the council to identify customer and supplier requirements.

2.6.2. A council meeting may be convened at any level and may task appropriate agencies to correct deficiencies effecting the ALS program. Regularly scheduled meetings are highly encouraged to maintain a positive cross-flow of information and take action on customer support issues associated with LSE inspection, modification, or control procedures. Conduct meetings as required.

2.6.3. Council membership should consist of cross-functional organizations, but not limited to LSOs, ALS superintendent, training and unit NCOICs, survival equipment, flight safety, flight medicine, medical supply, a liaison from associate reserve flying squadrons (where applicable), as well as applicable support agencies.

2.6.4. The wing/group LSO or ALS superintendent will chair the meeting. Minutes will reflect the problem (observation), impact (if not resolved), recommendation (solution), and establish an OPR for action or suspense/follow-up. If required, forward minutes to the appropriate levels for final resolution/coordination.

2.6.5. Customer support issues that cannot be resolved at unit-level should be elevated to the appropriate MAJCOM for resolution. ANG units will direct their issues through the WSTC to ANGRC/XOOSF. AFRC units will direct their issues through the appropriate NAF to HQ AFRC/DOTSL.

2.7. Administration and Local Directives:

2.7.1. The wing/group ALS superintendent serves as the focal point for all wing ALS administrative actions involving locally written policy and procedures.

2.7.2. Unit NCOICs are responsible for preparing and maintaining correspondence, locally written policy, and directives.

2.7.3. Local directives will address issues to meet local mission requirements for wartime and peacetime operations (i.e., response to emergency action (recall), flight line operations, radio operation, vehicle control and use, fire protection, explosive safety, resource protection procedures, missing LSE procedures, TO familiarization, etc.).

2.7.4. NCOICs will review and send local directives annually to the wing/group superintendent for review, coordination, and approval. Superintendents must ensure standardized procedures are established to the maximum extent possible within the wing. All ALS personnel are required to review local directives annually.

2.8. ALS Facilities and Hygiene:

2.8.1. Maintain facilities IAW applicable AFOSH Standards and TO 15X-1-1, *Maintenance Instructions, Oxygen Equipment*. The sensitivity of LSE requires environmental and climatic controls for storage.

2.8.2. Store equipment neatly and separate into areas to prevent commingling of serviceable, unserviceable, unserviceable/repairable, and "ready-for-repair" equipment categories. Use supply condition tags to identify LSE in storage, as required.

2.8.3. Make provisions to store shelf-stock components in such a way as to protect from dust or impurities when not assigned for use (i.e., store breathing hoses, oxygen masks, valves, connectors, etc. in plastic or Ziploc® bags or keep in original packaging).

2.8.4. Ensure sufficient work and storage areas are available for inspections and storage. Pad and cover work benches with material to provide a smooth surface and edge to protect LSE (i.e., helmets) during inspections IAW 14P-series TOs.

2.8.5. Ensure compliance with all safety standards to include, but not limited to, AFOSH training, documentation, and increased precautions for storage and turn-in of lithium batteries IAW AFM 67-1, Vol I, Part 1, Chapter 4, Section C, *Storage and Handling of Lithium Batteries* (projected to be AFMAN 23-110, Vol 1, Part 1, Chapter 4, Section C), and other applicable instructions. Ensure the base fire protection agency approves storage locations and an appropriate fire extinguisher (class D) is located in battery storage area.

2.8.6. Personnel will wear lint-free clothing (i.e., smocks) while performing duties in the oxygen section IAW TO 15X-1-1. Do not wear smocks outside the section and clean using in-house washers or the base/commercial cleaners. Personnel will wear smocks IAW AFI 36-2903, *Dress and Personal Appearance of Air Force Personnel*, or as directed by the installation commander.

2.8.7. ALS personnel are required to use latex gloves IAW AFOSH STD 127-31, *Personal Protective Equipment*, and applicable Air Force TOs. The following infection control guidelines are intended to minimize the risk of contacting or transmitting infectious diseases:

2.8.7.1. Use latex gloves, NSN 6515-01-2978 or equivalent during post flight/periodic inspections and cleaning of oxygen masks.

2.8.7.2. Gloves will be removed and replaced after each periodic inspection. Wash hands thoroughly with soap and water after removing gloves, and immediately after contact with blood or other potentially infectious material.

2.8.7.3. Follow general guidelines for sterilizing, disinfecting, housekeeping, and waste disposal.

2.8.7.4. Direct questions concerning local disposal of hazardous material to bioenvironmental engineers and hazardous materials pharmacy (i.e., isopropyl alcohol pads, etc.).

2.8.7.5. Contact local medical treatment facility and schedule Hepatitis B vaccinations for all ALS personnel.

2.8.8. Personnel should follow infection control guidelines from Public Health IAW AFI 91-301, *Air Force Occupational and Environmental Safety, Fire Prevention, and Health* (*AFOSH*) *Program* (formerly AFI 127-12), and AFI 48-101, *Aerospace Medical Operations,* when working on LSE.

2.8.9. Post a copy of safety guidelines in equipment maintenance and post-flight areas.

2.8.10. A flight surgeon or designated medical representative will inspect each ALS section at a minimum of every 90 days to ensure compliance with AFI 48-101, TO 15X-1-1, and AFOSH standards. Maintain a record of the most recent inspection in file plan and post one copy in the oxygen section.

2.9. Resource Protection:

2.9.1. Installation commanders designate controlled areas and storage facilities IAW AFI 31-209. Units will establish a resource protection program that meets Department of Defense (DoD) and Air Force protection criteria IAW AFH 31-223, *The Air Force Resource Protection Program*.

2.9.2. Maintain storage facilities within ALS sections IAW DoD 5100.76-M, *Physical Security of Sensitive Conventional Arms, Ammunition, and Explosives*, AFI 31-101, Volume 1, *The Air Force Physical Security Program*, AFI 31-209, AFH 31-223, and AFMAN 91-201.

2.9.3. ALS sections storing firearms will ensure facilities are maintained IAW AFI 31-209 and AFH 31-223.

2.9.4. ALS maintains and stores equipment that is mission essential and highly pilferable. This equipment requires inventory, accountability, and control over because of its high value and items are mission essential during peacetime/wartime (i.e., night vision goggles, aircrew body armor/survival vests, ACDE/AERP equipment, survival radios, munitions, helmets, etc.). As a minimum, ensure the ALS sections are designated as limited access areas to protect individual crew member's LSE and prevent unauthorized removal of LSE.

2.9.5. Ensure adequate positive internal circulation control procedures are established to control visitors and safeguard and monitor LSE IAW AFI 31-209, AFH 31-223, and TO 15X-1-1. Upgrade visitor flow control procedures during heightened threat conditions (THREATCON) as necessary to ensure LSE security.

2.9.6. Use an AF Form 1109, **Visitor Register Log**, for unrecognizable individuals to sign in on during times of heightened awareness.

2.10. Mishap Prevention and Operational Risk Management Program:

2.10.1. Safety is paramount to ensure safe operations within ALS. Administer mishap prevention, AFOSH, and operational risk management programs tailored to the needs of ALS personnel. Refer to AFI 91-202, *The US Air Force Mishap Prevention Program*, AFI 91-213, AFPAM 91-214 (forthcoming), and AFI 91-301 for application into the ALS program.

2.10.2. Supervisors must attend Supervisor Safety Training IAW AFI 91-301.

2.10.3. Contact local wing or group safety staff, bioenvironmental engineering services, and fire department to ensure all section hazards are addressed and procedures are established.

2.10.4. Supervisors must develop a safety, fire protection, and health on-the-job training program as outlined in AFI 91-301, **Attachment 5** (formerly AFR 127-12).

2.10.4.1. As a minimum, local procedures will address hazards associated with present duties to include: mandatory items on AF Form 55, **Employee Safety and Health Record**, required personal protective equipment (i.e., equipment required in applicable AFOSH STDs, TOs, occupational health instructions, or Air Force, MAJCOM, or local regulations, etc.), AFOSH STD 127-31, fire extinguisher training, explosive safety, proper lifting techniques, and the wear of head and ear protection and jewelry when in, on, or around aircraft.

2.10.4.2. Document training and maintain a copy of AF Form 55 for each individual assigned to ALS IAW AFI 91-301. Active duty enlisted AF Forms 55 may be filed in individual OJT records; ARC personnel file as designated by supervisor IAW AFI 91-301.

2.10.5. Conduct periodic self-inspections for hazards or deficiencies and conduct job safety analyses IAW AFI 91-301.

2.10.6. Establish and develop an explosive and munitions storage safety program IAW AFMAN 91-201. Develop a local directive and review annually. Document review on individual's AF Form 1098.

2.10.7. Establish fire evacuation procedures, and conduct and document fire drills every six months IAW AFMAN 91-201.

2.11. Composite Tool Kit (CTK) Program:

2.11.1. The objectives of the CTK program are elimination of foreign object damage (FOD) to aircraft and to reduce tool cost through effective control of assets. Establish a CTK and lost tool procedure program to control and account for tools utilized by ALS in each ALS and flight line section IAW AFI 21-101, *Maintenance Management of Aircraft*, AFMAN 23-110, Vol 2, Part 13, Chapter 8, and AMCI 21-101, *Maintenance Management Policy*. Additional unit procedures or methods of tool control are published in wing's supplement to this instruction. Assign a primary/alternate CTK (tool control) custodian for each section. CTK custodians are responsible for tool accountability and control in their respective areas.

2.11.2. CTK monitor will locally produce a content list for each CTK assigned. Flight Chief/NCOICs approve CTK contents by signing the CTK contents list. A copy of the CTK contents list remains in each CTK at all times for inventory purposes. The master copy is filed by the CTK custodian. Contents lists are broken down by drawer/section indicating the total number of items in each drawer/section of the CTK.

2.11.3. CTKs are either shelves or a system of drawers (i.e., Stanley Vidmar,® Lista,® etc.) or small tool boxes for flight line CTKs. CTKs should be arranged to ensure contents are visible and easy to inventory. Units will assign each tool a location in the CTK, either inlays cut in the shape of tool or shadowed layout to aid in identifying missing tools. All tools/equipment issued individually are silhouetted or shadowed.

2.11.4. Marking of tools provides an effective means of identifying tool ownership and serves as a deterrent to pilferage. Individually number each CTK. Units with multiple cabinets/drawers may elect to identify all cabinets/drawers as one CTK. Etch the letters "ALS" or "LS" on each tool with assigned CTK and local control number to identify tools belonging to ALS. Small tools or items that cannot be marked (i.e., drill bits, Allen wrench sets, etc.) are maintained in a container marked with the CTK identification number and the number of tools contained. Remove clips from tools with removable pocket clips attached (i.e., flashlights, small screw drivers, etc.), prior to placement in flight line CTKs. Consumable items may be placed in CTKs and are added to CTK contents listing (e.g., strap fasteners, alcohol pads (towelettes), tape, etc.). Ensure strict control of these items is enforced.

2.11.5. Inventory tools at the beginning of each shift/duty day and at the end of each shift/duty day. Whenever CTKs are used on the flight line, inventory CTK prior to leaving ALS shop, upon leaving each aircraft after job completion, and upon returning to the ALS section. This process will reduce the chance of leaving tools/equipment on an aircraft and will assist in locating missing tools. At least every 6 months (annually for mobility equipment), or when the CTK custodian changes, an inventory

is conducted on all CTKs. The CTK custodian/alternate performs the inventory. When CTK custodians change, the outgoing and incoming CTK custodian perform the inventory together.

2.11.6. Use the CTK Inventory and Control Log for CTK/equipment accountability (check in/check out) to document beginning and end-of-shift inventories (see **Attachment 2**). Whenever the CTK is opened/closed, it is inventoried. CTKs used in ALS shops may be left open for all personnel to use during a shift. All CTKs used on the flight line will be signed in/out, prior to departing ALS shop.

2.11.7. Document all removed/missing tools and equipment (Test, Measurement, and Diagnostic Equipment (TMDE), broken, lost, etc.) on Missing/Removed Tools and Equipment log to annotate action taken on these items (see **Attachment 3**). When front and reverse sides of form are full, initiate a new form and transfer all open entries to the new form.

2.11.8. Lost Tool Procedures. NCOICs will ensure all assigned personnel are familiar with lost tool control procedures. The following procedures apply for flight line CTKs:

2.11.8.1. If a tool/item or a portion of a broken tool is discovered missing, the person issued the CTK searches the immediate work area for the item (e.g., flight deck, cargo area, passenger area, etc.). If not found, immediately notify maintenance (crew chief, quality assurance, etc.), ALS superintendent, NCOIC, and CTK custodian. If a tool is lost on an aircraft, notify appropriate maintenance personnel.

2.11.8.2. Complete a Lost Tool/Object Report for each tool/object unless the item is immediately recovered (see **Attachment 4**). The CTK custodian initiates the form and gives a copy to the individual's supervisor to initiate the investigation. The CTK custodian maintains this form on suspense. Destroy suspense report when item is recovered or not found within 1 year. Arrange copies either chronologically or numerically by CTK number.

2.11.9. Designate a secure area to store CTKs when not in use. Areas must be capable of being locked and provide protective measures, such as monitoring or controlled key access, to preclude access by unauthorized personnel. If area used to store CTKs must be accessed by personnel during non-duty hours, use a lock to provide a physical restraint against opening container's lid/door and to prevent unauthorized removal of tools.

2.12. Automated Life Support Management System (ALSMS):

2.12.1. ALSMS is a tool used by ALS personnel. Units are authorized to use ALSMS to best suit their needs.

2.12.2. Units tracking equipment inspections using ALSMS are not required to duplicate the data maintained in the computer on status boards or AFTO Form inspection cards and forms, but are required to maintain computer generated inspection documents IAW this instruction.

2.12.2.1. Units are authorized to replace AFTO Form inspection cards and forms with ALSMS-generated inspection forms to document inspections or inventories. Retain AFTO Forms replaced by ALSMS-generated inspection forms for 12 months for historical purposes. Maintain copies of AFTO Forms 46 (see paragraph **2.4.6.3.10.**).

2.12.2.2. ALS sections will maintain a master copy of each applicable database file using either a tape or disk backup system, prior to deleting status boards or applicable AFTO Forms.

2.12.2.3. Maintain a separate copy of each LSE ALSMS master database file (*.dbf). Secure disks and inspection records to ensure current/updated information is available in case of computer malfunctions or aircraft mishaps.

2.12.2.4. As a minimum, ALS will accomplish a complete backup of database files (*.dbf) weekly.

2.12.3. Units will maintain computer generated equipment inspection documents containing the current inspection information. Maintain these forms in a file as the source document and retain until the next inspection is completed for historical purposes.

2.12.4. Use permanent ink (not magic marker or pencil) to annotate individual's initials who performed inspection and quality check of LSE on inspection documents.

2.12.5. Update/input information in ALSMS for each LSE data files as necessary.

2.12.6. Continue to use and maintain the applicable DD and AFTO Form inspection tags as required in applicable TOs for survival kits, accessory kits, life rafts, life preservers, etc.

Chapter 3

SUPPLY PROCEDURES AND RESOURCE MANAGEMENT

3.1. General:

3.1.1. Supply discipline is paramount. This chapter is designed to establish AMC ALS program guidance for coordinating equipment and supply related procedures, not specifically addressed in other publications.

3.2. Supply Accounts:

3.2.1. Each ALS section, to include the OSS ALS staff supporting training functions, will budget for and establish their own supply account as specified by AFMAN 23-110, Vol 2, Part 13.

3.2.2. Commanders or ARC-equivalents will appoint trained primary and alternate supply custodians and ensure a new primary or alternate custodian is assigned when primary or alternate custodian is absent IAW AFMAN 23-110, Vol 2, Part 2, Chapter 22, *Equipment Management*, and AFMAN 23-110, Vol 2, Part 13.

3.2.3. Ensure custodians receive base supply customer training as needed IAW AFMAN 23-110, Vol 2, Part 13, and AFCAT 36-2223, Chapter 13.

3.2.4. When appropriate, local contingency plans will include qualified ALS technicians who will assume custodial responsibilities at deployed ALS sections IAW AFMAN 23-110, Vol 2, Part 2, Chapter 22, and AFI 23-111, *Management of Government Property in Possession of the Air Force* (formerly AFR 20-14).

3.2.5. Maintain custodian accounts files IAW AFMAN 23-110, Vol 2, Part 2, Chapter 22, and AFMAN 23-110, Vol 2, Part 13, Chapter 8.

3.2.6. Ensure a Configuration Data File is maintained with each supply account to show a breakdown of how each equipment item's authorization was determined (i.e., number of personnel assigned, number of aircraft (primary aircraft inventory (PAI)) assigned, number of crew members supported, DOC statements, OPLANs, and UTCs tasked to support). Continuous emphasis is needed to properly control equipment.

3.2.6.1. Based on configuration data, each ALS supply custodian and NCOIC will justify LSE requirements by detail number, noun, NSN, authorizing AS, number authorized, number on-hand, and basis of issue. Coordinate completed assessments with superintendent/LSO through the squadron commander responsible for the account. Superintendent/LSO will validate the assessment and direct adjustments, as required. This process will keep equipment authorizations to minimum (authorized) levels to meet mission requirements. Perform this assessment quarterly (Jan/Apr/Jul/Oct).

3.2.6.2. Written documentation of the quarterly assessments will be maintained in the supply folder with customer authorization/custody receipt listings (CA/CRL).

3.2.7. Units should establish their own project funds management record (PFMR) to ensure funds are available and only utilized for ALS operations. Supply custodians should become familiar with AFP 170-1, *Resource Manager's Handbook* (projected to be AFPAM 65-605).

3.2.8. Each supply account custodian must work with supply to ensure force activity designators (FAD) code 2 is used when requisitioning LSE. This will ensure mission essential LSE and mobility equipment that is backordered and required for direct support of flying operations is available. When ordering time-change items, use advice code "2G" to ensure assets are received with the most service-life remaining on item.

3.2.9. Establish and manage munitions accounts IAW AFI 21-202.

3.2.9.1. Along with required inventories, munitions custodians and users must monitor and perform additional inventories to control accountability and ensure on-hand quantities (serviceable/unserviceable) do not exceed explosive safety license limits for each munitions type.

3.2.9.2. Establish procedures to inventory storage facility (e.g., daily, weekly, or every time storage facility is entered).

3.2.9.3. Ensure an adequate amount of munitions are on-hand and forecasted for aircrew training IAW AFI 36-2217, *Munitions Requirements for Aircrew Training* (formerly AFR 50-21).

3.2.9.4. Ensure AF Form 68, **Munitions Authorization Record**, is updated IAW AFI 21-202, as required. Submit a new AF Form 68 within 30 days of the new organization commander's assignment as stated in section IV of AF Form 68.

3.2.9.5. Post a current list of suspended lot numbers listed in TO 11A-1-1 in the survival vest/life raft accessory kit inspection sections for technicians to verify suspended lot numbers of flares during inspections.

3.2.9.6. ALS sections are not authorized to store pyrotechnics for other support agencies (i.e., survival equipment, etc.).

3.3. Equipment Authorizations:

3.3.1. Use AS 016, *Special Purpose Clothing and Personal Equipment*, and AS 450, *Personal/Life Support Equipment*, aircraft configuration publications, mission requirements, logistics detail (LOGDET), and this instruction to determine authorizations and the basis of equipment required IAW AFMAN 23-110, Vol 2, Part 2, Chapter 22, AFMAN 23-110, Vol 2, Part 13, Chapter 8, and AFM 67-1, Vol IV, Part 1 (projected to be AFMAN 23-110, Vol 4, Part 1).

3.3.2. To minimize aircraft down-times, some equipment is required to be designated in sets. Conversely, additional authorizations may be required in order to maintain equipment as whole sets, but will not exceed the next whole set. Sets are defined as the minimum equipment loads listed by the MDS tables in AFI 11-302, Volume 1 (forthcoming), and applicable aircraft configuration publications.

3.3.3. Units should regularly review the appropriate ASs and ensure they establish current and updated authorizations for unit specific mission requirements IAW AFMAN 23-110, Vol 2, Part 13, Chapter 8. LSE in excess of ASs is not authorized.

3.3.4. In order to ensure an appropriate state of readiness and to meet AMC mission response times, units will maintain, as a minimum, LSE to support maximum passenger loads for 75 percent of PAI. KC-135 aerial refueling (tanker) units will maintain LSE to support maximum passenger loads for 100 percent of PAI. Maximum passenger loads are the maximum amount of aircrew and passengers

allowed to fly aboard aircraft over land and over water on unit assigned aircraft. Wings will address unit requirements in their supplement to this instruction.

3.3.5. Units are expected to budget/forecast for funds to maintain adequate amounts of equipment to meet all probable peacetime/wartime missions in their annual financial plan.

3.3.5.1. By exception, units experiencing an equipment shortage as a result of a one-time mission tasking, may work with units with similar MDS aircraft within AMC to satisfy this requirement after receiving approval from HQ AMC DOTL/LGSWSE (see AFMAN 23-110, Vol 2, Part 2, Chapter 22/AMC1). Prior coordination with HQ AMC/DOTL is required for active duty units.

3.3.5.2. Coordinate equipment requirements requiring coordination outside AMC channels through HQ AMC/DOTL, ANGRC/XOOSF, or AFRC/DOTSL, as appropriate. Upon completion of the mission, return equipment to the owning unit by shipping priority designator 02 (SPD-02). Give careful consideration to establish local unit equipment authorizations to support similar follow-up taskings before they occur.

3.4. Equipment Control:

3.4.1. ALS personnel will perform a mission termination inspection (MTI) on unit aircraft-installed LSE for accountability and serviceability following the final mission of the day or upon return to home-station. If the aircraft returns after normal duty hours, perform MTIs prior to the next scheduled flight to ensure proper equipment accountability and serviceability.

3.4.2. In the event of equipment discrepancy or loss is discovered, and missing LSE was not documented on AFTO Forms 46 and AFTO Forms 781A, contact the AC or designated aircrew representative to verify if equipment was removed during the mission. If LSE was removed at an en route location, contact the ALS personnel at location where LSE was removed to coordinate return of the equipment (see paragraph **2.4.8.**).

3.4.3. Establish wing procedures to notify applicable agencies IAW AFMAN 23-110, Vol 2, Part 13, Chapter 1, in the event of loss, suspected abuse, pilferage, or mishandling of equipment. ALS will investigate missing LSE if not returned/located within 30 days. Initiate a report of survey IAW AFMAN 23-220, as required.

3.4.4. Proper corrective actions for off-station losses will include messages by the owning organization to en route locations describing lost equipment (include serial numbers for accountable items), TDY duration, and route of off-station aircraft (see **Attachment 5**). Send an information copy of the message to HQ AMC/DOTL. Document all investigative actions taken for audit purposes.

3.4.5. Pre-position LSE aboard aircraft to the maximum extent possible to provide mission flexibility when aircraft is away from home-station and to reduce excessive handling, resulting in damage to LSE.

3.4.5.1. Store pre-positioned LSE in A-3 bags (or equivalent) when possible.

3.4.5.2. Remove this equipment from the aircraft only for recurring inspections or as required for aircraft maintenance (i.e., major/minor ISOs, home-station checks (HSC), programmed depot maintenance (PDM), etc.). Annotate AFTO Forms 781A and AFTO Form 46 when LSE is removed from aircraft, as appropriate.

3.4.6. Establish local procedures to document, control, retrieve, and maintain accountability of all transactions IAW AFM 67-1, Vol IV, Part 1 (projected to be AFMAN 23-110, Vol 4, Part 1) and AFI 23-111. Retrieve LSE issued temporarily on AF Form 1297, **Temporary Issue Receipt**, or equivalent IAW AFMAN 23-110, Vol 2, Part 13, Chapter 8. AF Form 1297 will have a return date entered in applicable block on form. Annotate “Mobility” in the block marked “Return Date” on each AF Form 1297 for individual mobility equipment issued to crew members IAW AFM 67-1, Vol IV, Part 1, Chapter 18, *Individual Equipment* (projected to be AFMAN 23-110, Vol 4, Part 1).

3.4.6.1. ALS sections are authorized to use a log book in place of AF Forms 1297 for items taken to the survival equipment and medical supply sections.

3.4.6.2. NCOICs will ensure the log book is current and properly documented to track and account for all items.

3.4.6.3. Ensure individual mobility equipment is issued, stored, and accounted for IAW procedures in AFM 67-1, Vol IV, Part 1, Chapter 18 (projected to be AFMAN 23-110, Vol 4, Part 1), and AFMAN 23-110, Vol 2, Part 2, Chapter 26, Section F, *Individual Mobility Baggage Kits* (formerly AFM 67-1, Vol II, Part 2).

3.4.7. Equipment exceeding day-to-day mission requirements, but required for contingencies, may be placed in "serviceable storage." ANG units will not place any equipment in “serviceable storage.”

3.4.7.1. Maintain equipment in serviceable storage in "ready for use and inspect prior to issue" status with all TCTOs and modifications complied with.

3.4.7.2. Follow inspection and storage procedures for "stored equipment" established in applicable TOs and publications without deviation; not to exceed 12 months. Use DD Form 1574, **Serviceable Tag - Materiel**, to identify equipment in serviceable storage and annotate “Serviceable Storage IAW AMCI 11-301” in the remarks block.

3.4.7.3. Units will establish procedures to fit or issue LSE based on local mission commitments and time constraints.

3.4.8. When LSE has been removed or identified as being from transient aircraft, immediately notify the owning organization, citing type of aircraft, tail number, type and quantity of equipment removed, and present location. Mark assets for gaining ALS unit. Do not unnecessarily retain any LSE removed from en route aircraft. Return equipment to the owning unit using SPD-02.

3.4.9. Marking equipment with unit identification and related information helps prevent loss and expedites the return of LSE to the owning organization. When assigned, record serial numbers and/or use local control numbers on appropriate inspection forms to assist ALS identify accountable items.

3.4.10. During contingencies, sanitize the appropriate LSE (see paragraph **6.2.3.1.8.**).

3.4.11. Stencil all multi-person life raft cases, accessory containers, and passenger life preserver cases with "AMC" plus the unit designator of the owning unit (e.g., AMC/123 ARS). Stencil AMC-gained ARC equipment with "ANG" or "AFRC," as appropriate, plus unit designator of the owning unit (e.g., ANG/123 ARS).

3.4.12. Remove or obliterate unit identification on LSE prior too turn-in or transfer of serviceable or repairable equipment.

3.4.13. Treat repairable items as valuable assets since they may be the only source of replenishment. NCOICs or supply custodians are to ensure repairable and condemned items are properly tagged and promptly processed within 30 days for repair or turn-in IAW AFMAN 23-110, Vol 2, Part 13, Chapter 8 and AFI 23-111.

3.4.14. Ensure the condition, status of equipment, and supplies are properly identified and coded IAW AFM 67-1, Vol I, Part 1, Chapter 4, *Inspection and Related Operations* (projected to be AFMAN 23-110, Vol 1, Part 1), using appropriate supply condition forms.

3.4.15. ALSCT equipment will mirror the installed or in-service equipment. Mark all training equipment "For Training Use Only" IAW applicable TOs, and maintain training equipment in serviceable condition for it's "intended purpose" to ensure realism. Inspect training equipment every 180 days, or as required.

3.4.15.1. Use a DD Form 1574 to identify equipment used for ALSCT. Annotate condition code "B" on form and "For Training Use Only" in the remarks block. This will ensure training equipment is not commingled with operational assets.

3.5. Equipment Redistribution:

3.5.1. In the event an active duty unit experience either the excess or shortage of LSE, comply with the following procedures:

3.5.1.1. Excess Equipment:

3.5.1.1.1. Section NCOICs will notify wing/group superintendent who will take the following actions:

3.5.1.1.1.1. Try to redistribute assets within the wing. If excess LSE is still available, E-mail or transmit a message to all AMC superintendents with an information copy to HQ AMC/DOTL (see **Attachment 6**). Include equipment type, NSN, and excess quantity. Request action addressees respond within 30 days. ANG units will disseminate this information to their WSTCs.

3.5.1.1.1.2. After all units have responded, transmit a message to HQ AMC/DOTL requesting redistribution of excess assets (see **Attachment 7**). Units will receive redistribution instructions not later than 30 days after HQ AMC/DOTL receives final redistribution request. HQ AMC/DOTL will work with other MAJCOMs to redistribute assets. ANG units will disseminate this information to their WSTCs.

3.5.1.2. Equipment Shortages:

3.5.1.2.1. Units experiencing equipment shortages impacting or limiting it's mission capability will send supply difficulty letters and mission impact statements in concert with their respective base supply to depot item managers and DLA. If shortages are still not resolved at the unit level, transmit a coordinated message through the wing/group superintendent to HQ AMC/DOTL only after exhausting all avenues (i.e., supply assistance and supply difficulty letters, etc.).

3.5.1.2.2. Message will include equipment type, NSN, quantities authorized, quantities on-hand, backorders, off-base requisition numbers, stock record account number (SRAN), pri-

orities/unit justification code (UJC), and whether requisitions are “firm” or “memo” due-out (see **Attachment 8**).

3.6. Transfer of LSE:

3.6.1. During aircraft transfers or movement of LSE, communication between depot, modification agencies, and gaining or losing units is encouraged. Comply with the instructions in AFI 21-103, *Equipment Inventory, Status, and Utilization Reporting*, AFMAN 23-110, Vol 2, Part 2, Chapter 15, *Shipments*, and TO 00-20-1. In the unlikely event ALS issues cannot be resolved at the unit-level, HQ AMC/DOTL serves as the focal point for ALS issues involving aircraft transfers, TDYs, depot facilities, etc. ARC units will address issues with their respective MAJCOM ALS representatives.

3.6.2. Units involved in aircraft transfers will transfer equipment IAW minimum equipment tables in AFI 11-302, Volume 1 (forthcoming) and policy in AFI 21-103.

3.6.3. For on-base equipment transfers, the losing and gaining equipment custodians will submit a request for transfer and initiate inter-custody receipt transfer (TRIC FET) action through Base Supply. For off-base equipment transfers (not applicable to aircraft transfers), the gaining organization will submit a request for transfer to HQ AMC/DOTL and HQ AMC/LGSWSE, and provide the NSNs and quantities of equipment to be transferred (see **Attachment 7**). Upon approval of equipment transfer, the losing base will process the equipment transfer using TRIC 1ET. Upon receipt of the equipment at the gaining location, establish equipment authorization inventory data (EAID) accountability using TRIC FED.

3.6.4. Aircraft transfer equipment shortages will not be tolerated unless the losing and gaining units have written authorization from HQ AMC/DOTL.

3.6.5. AMC units swapping like aircraft desiring to retain local LSE may do so, provided a mutual agreement by both gaining and losing organizations and arrangements is coordinated to satisfy this instruction and ferrying aircrew mission needs.

3.6.6. The gaining organization will perform an inventory and acceptance inspection on all LSE IAW TO 00-20-1 and contact host equipment management section.

3.6.7. Depot input aircraft will have the minimum quantities of LSE required to support onboard personnel IAW AFI 11-302, Volume 1 (forthcoming).

3.7. Annual Time-Change Forecast Requirements:

3.7.1. Depending on SA-ALC and DLA format requirements for annual time-change forecasts, AMC ALS units will submit time-change forecast IAW TO 00-20-9, AFI 21-208, or current published MAJCOM policy (computer disc format or AFTO Form 223, **Time Change Requirements Forecast**).

3.7.2. Active duty units will send copies annually to HQ AMC/DOTL to arrive not later than 1 October of each calendar year. AMC-gained ARC units will provide copies to their respective MAJCOM ALS representatives.

3.7.3. Units will assist the survival equipment section to compile the CAD/PAD time-change forecast information IAW TO 00-20-9-1 and submit forecast to the MASO.

3.7.4. For the items ALS are responsible for, units should use the time-change forecast to budget for replacement time-change life-sustaining items in their annual budget/financial plan. This will identify funds are needed, ensure funds are available to purchase required life-sustaining items for the continued management of ALS operations, and minimize mission impacts caused by the lack of replacement items.

3.7.5. Units need to requisition time-change items well before the demand exists. DLA only purchases/replenishes items on demand. Do not wait for the possibility of a service-life extension on life-sustaining items. Waiting to requisition items close to their expiration date places a significant impact on the DLA and acquisition process.

3.7.6. Because procurement lead time may be 18 months or longer, a projection of replacement requirements is necessary to show support. This should reduce the shortage of life-sustaining items and allow DLA/depot to ensure assets are available to meet replacement requirements.

3.8. Deficiency Reporting Procedures:

3.8.1. Units must submit PQDRs when a deficiency is identified and LSE does not meet contract specifications and requirements IAW TO 00-35D-54. Continue to submit PQDRs on defective equipment received as long as the deficiency exists, or until notified of resolution.

3.8.2. Policy, procedures, and responsibilities for PQDR submission and exhibit handling and processing are outlined in TO 00-35D-54.

3.8.3. Aircrew are authorized/encouraged to submit PQDRs to identify problems associated with LSE. As the user of LSE, aircrew are also responsible for reporting the different types of noted conditions listed in TO 00-35D-54.

Chapter 4

EQUIPMENT MAINTENANCE AND INSPECTION REQUIREMENTS

4.1. General:

4.1.1. This chapter specifies minimum LSE inspection procedures and policy for flight clothing and equipment requirements for crew members. It also identifies and provides guidance for issue, training, maintenance, and inspection of ACDE/AERP equipment.

4.1.2. Aircraft-installed LSE configuration and maintenance requirements are outlined in AFI 11-302, Volume 1 and AMC1 (forthcoming) thereto.

4.1.3. Maintain AMC LSE IAW applicable Air Force and commercial TOs listed in **Attachment 1**, the AMC ALS TO Options List, and this instruction.

4.2. Responsibilities:

4.2.1. Commanders:

4.2.1.1. Group/squadron commanders or ARC-equivalents are responsible for designating and ensuring crew members wear or have aboard the aircraft and readily available for use, the necessary flight clothing and LSE to be worn or carried commensurate with mission requirements and geographical locations. In no case will equipment worn or carried aboard AMC aircraft be less than LSE prescribed by AFI 11-206 (projected to be AFI 11-202, Volume 3), AFI 11-301, AFI 11-302, Volume 1 and AMC1 (forthcoming) thereto, applicable Air Force and commercial TOs, and this instruction.

4.2.1.2. Requisitioning of flight clothing for crew members and KC-135 SIOP alert crew chiefs flight clothing is the responsibility of the individual's unit. Units will address aircrew flight clothing requirements (see paragraph **4.5.**).

4.2.1.3. Climatic zones are defined in the preface of AS 016, a recommended source document for specifying winter wear.

4.2.1.3.1. Comply with the requirements for Zone III listed in the preface of AS 016 at all times.

4.2.1.3.2. When determining cold weather clothing requirements, ensure clothing worn is compatible with the mission, climate, and terrain throughout the route of flight.

4.2.1.3.3. When determining the proper clothing combination, the forecast chill factors and air temperatures should be considered.

4.2.1.3.4. Outline designation of cold weather clothing requirements and items in applicable unit directives and wing supplements to higher headquarters directives.

4.2.1.3.5. Winter periods should be specified as November through March for the northern hemisphere and May through September for the southern hemisphere.

4.2.1.4. Ensure only flying clothing and survival equipment items authorized for use by applicable TOs, aircraft specific manuals, and this instruction is used for flight operations.

4.2.1.5. Commercially procured items are not authorized for use without prior approval by the respective MAJCOM ALS OPR. Using commercial items without authorization, proper testing, approved technical data, and logistical support negates configuration control and could compromise aircraft, aircrew, and passenger safety.

4.2.1.6. ACs will determine the cold weather clothing requirements for the route of travel when performing passenger transport missions aboard MAJCOM support aircraft.

4.2.1.6.1. AC is responsible for ensuring each crew member is wearing the required clothing and equipment, and/or has it aboard the aircraft and readily available for flight or alert duty.

4.2.1.6.2. Military passengers are responsible for ensuring clothing is warm enough IAW 36-2903.

4.2.2. ALS Function:

4.2.2.1. Monitor all active and ongoing LSE modifications and TCTOs.

4.2.2.2. Inspect, store, handle, service, size, adjust, test, and account for all items part of the 412A life support system.

4.2.3. Crew Members:

4.2.3.1. Receipt for ACDE/AERP equipment on an AF Form 1297 or other authorized form when LSE is issued by ALS.

4.2.3.2. Ensure issued LSE is returned and available for ALS personnel to perform required periodic inspections and maintenance IAW AFM 67-1, Vol IV, Part 1, Chapter 18 (projected to be AFMAN 23-110, Vol 4, Part 1).

4.2.3.3. Accomplish preflight inspections on all aircraft-installed LSE (see paragraph **2.4.9.**).

4.2.3.4. Preflight individually issued LSE using appropriate testers IAW applicable TOs prior to departing ALS section (i.e., helmet and oxygen mask, NVSs, ACDE/AERP equipment, etc.). Conduct these tests to ensure serviceability of LSE and to prevent flight delays due to LSE malfunctions.

4.2.3.5. Wear or carry, as appropriate, the prescribed LSE and safeguard equipment in the same manner when away from home-station.

4.2.3.6. Ensure personal flight clothing is serviceable IAW TO 14P3-1-112, *Maintenance Instructions Nomex® Flight Gear, Coveralls, Gloves, Jackets*.

4.2.3.7. Ensure sized ACDE/AERP equipment items properly fit and notify ALS when individual clothing sizes change to ensure the proper sized items are placed in individual D-bags.

4.2.3.7.1. Fit crew members who require special fitting to specialized flight clothing IAW AFM 67-1, Vol IV, Part 1, Chapter 18 (projected to be AFMAN 23-110, Vol 4, Part 1).

4.3. Aircrew Helmets and Oxygen Masks:

4.3.1. Helmets are required for head protection during emergency bailout, crash-landing/ditching, for performing some flight duties (i.e., flight engineer, loadmaster, etc.), for use with helmet mounted accessories (i.e., night-vision systems, nuclear flash protective devices, etc.), and for use with the

ACDE/AERP equipment as prescribed by applicable MDS flying publications or mission directives (not applicable to KC-10 crew members).

4.3.2. ALS sections will not warehouse or act as a storage facility for the initial issue of flyer's helmets, oxygen (O_2) masks, or related subsystems for crew members. These items are initially procured through the base supply IEE using unit funds and placed on the crew member's AF Form 538, **Personal Clothing and Equipment Record**, IAW AFM 67-1, Vol IV, Part 1, Chapter 18 (projected to be AFMAN 23-110, Vol 4, Part 1).

4.3.3. Only helmets approved through the 412A system and formal test-and-evaluation process are authorized for use by AMC crew members (i.e., HGU-55/P, SPH-4AF, etc.). Commercially procured helmets will not be used without the written concurrence of HQ AMC/DOTL and HSC/YA.

4.3.4. HGU-55/P helmets will remain gray in color and the SPH-4AF will remain green in color; which are considered camouflaged or subdued.

4.3.5. KC-135 SIOP Alert Crew Chiefs:

4.3.5.1. Use the following procedures when requirements exist for committed KC-135 SIOP alert crew chief helmets and O_2 masks IAW AMCI 10-450, Volume 4, *Support of Alert Forces*, and AMCI 21-101:

4.3.5.1.1. Fit and issue a maximum of two KC-135 SIOP alert crew chiefs per PAI with helmets and masks. If the number of assigned KC-135 SIOP alert crew chiefs exceed the authorized two per SIOP committed aircraft, issue and fit a custom-fit Thermoplastic Liner (TPL) and an O_2 mask. Changes to assigned KC-135 SIOP alert crew chiefs requiring helmets will be kept to a minimum.

4.3.5.1.2. KC-135 SIOP alert crew chiefs will pick-up and drop-off helmets prior to and after scheduled flights or alert duty.

4.3.5.1.3. Organizational maintenance is responsible for purchasing parts for initial helmet and O_2 mask build-up. ALS will supply replacement parts required during routine maintenance.

4.3.5.1.4. Once initial fitting is complete, ALS may maintain and store the helmet and mask in a plastic bag and box and place them in serviceable storage (see paragraph **3.4.7.**). ALS will attach a DD Form 1574 to the outside of the box annotating date inspected and date due next inspection.

4.3.5.1.5. Organizational maintenance will establish local procedures to turn-in flying equipment when no longer assigned duties as a KC-135 SIOP alert crew chief.

4.3.6. ALS will establish procedures to inspect, maintain, and store helmets IAW 14P-series and 15X-series TOs. Establish issue/turn-in procedures for individually issued helmets. When masks have not been used or worn within the previous 30 days, perform the disassemble portion of the inspection on the next inspection, not to exceed 60 days. When O_2 masks are attached to helmets, only one label indicating the date due next inspection is required. Attach label to the helmet or O_2 mask hard-shell, as appropriate.

4.3.7. Aircrew helmets will be stored and maintained in the ALS section.

4.3.8. When aircrew helmets are not required for daily use, store them in the ALS section or with the crew member's individual D-bag. When stored with D-bag, inspect concurrently with ACDE every 180 days.

4.3.9. Helmet bags will be used to transport helmets and masks outside of the ALS section, to include going to and from the aircraft. Helmet, mask, and gloves are the only items authorized to be stored inside helmet bags to prevent damage to LSE. Use outside pockets for personal items.

4.3.10. Provide individually fitted O_2 masks to each crew member when aircraft flying publications or mission requirements dictate. The O_2 mask will remain attached to the flying helmet.

4.3.11. Use headstraps (P/N 249-363) as mask suspension assemblies for crew members not requiring helmets. This strap may be used on MBU-5/P or MBU-12/P O_2 masks respectively IAW TO 15X5-4-4-13, *Overhaul Instructions With Illustrated Parts Breakdown Pressure-Demand Breathing Oxygen Mask USAF Type MBU-5/P*.

4.3.12. Inspect O_2 mask connectors and mounting bracket assemblies concurrently with the next higher assembly (i.e., O_2 masks, harnesses, parachutes, etc.) IAW TO 15X5-4-1-101, *Operation, Maintenance and Inspection Instructions Oxygen Mask to Regulator Connector Assemblies*.

4.3.13. Do not submit requests for custom made oxygen mask without first exhausting all methods in 15X5-series technical orders for fitting the standard MBU-12/P and AWACS (P/N 450-1010) oxygen masks. Individual crew members are not authorized custom made oxygen masks just because they desire one. Requests for custom made oxygen masks will be IAW AFM 67-1, Vol IV, Part 1, Chapter 18 (projected to be AFMAN 23-110, Vol 4, Part 1) and TO 15X5-3-6-1, *Operation, Fitting, Inspection and Maintenance Instructions With Illustrated Parts Breakdown MBU-12/P Pressure-Demand Oxygen Mask*.

4.4. Aircrew Chemical Defense Ensemble (ACDE) Equipment:

4.4.1. Aircrew Requirements/Responsibilities:

4.4.1.1. All crew members (including staff personnel assigned to flying duties) who are in or deployable to a chemical threat area (CTA) are responsible for contacting ALS to be fitted and issued ACDE/AERP equipment.

4.4.1.2. Contact ALS when individual clothing sizes change (see paragraph **4.2.3.7.**).

4.4.1.3. Preflight ACDE/AERP equipment (see paragraph **4.2.3.4.**).

4.4.2. ALS Responsibilities:

4.4.2.1. ALS is responsible for requisitioning, fitting, and maintaining ACDE/AERP equipment. Units will update sizing information in ALSMS.

4.4.2.2. Mobility bag requirements are computed using MAJCOM directives in conjunction with AS 016 IAW AFM 67-1, Vol IV, Part 1, Chapter 18 (projected to be AFMAN 23-110, Vol 4, Part 1). ACDE/AERP equipment authorizations are specified in AMCI 10-403 (formerly AFI 10-406). As a minimum, issue each individual crew member one ACDE/AERP ensemble during contingencies. Store one ensemble in each individual's D-bag in a mini-ACDE/AERP deployment bag (mini-D-bag) prepared for rapid deployment contingencies. Store the balance of the ACDE/AERP as individually sized items along with the mini-D-bag. The ACDE/AERP equipment not

placed in the mini-D-bag may be placed in serviceable storage (see paragraph **3.4.7.**). ANG units will follow ANG Supplement 1, Air National Guard (ANG) Unique Supply Policy and Procedures to AFMAN 23-110.

4.4.2.3. Bulk store or ship the balance of ACDE/AERP equipment to deployed locations. Mini-D-bags issued to crew members will not be floor loaded, palletized, or shipped as cargo. ACDE/AERP ensembles must be readily available for crew members to don during all phases of flight and upon arrival into a CTA.

4.4.2.3.1. Ensure lithium batteries are prepared for shipment IAW AFJMAN 24-204, Attachment 13, *Preparing Hazardous Materials for Military Air Shipments* (formerly AFR 71-4).

4.4.2.3.2. Ensure crew members are briefed on handling and use of lithium batteries IAW AFM 67-1, Vol I, Part 1, Chapter 4, Section C (projected to be AFMAN 23-110, Vol 1, Part 1, Chapter 4, Section C).

4.4.2.4. Perform periodic inspections on ACDE/AERP equipment as required by applicable TOs and this instruction. Inspect protective gloves and inserts IAW TO 14P3-1-141. Units will track all chemical protective items and ACDE/AERP equipment component lot numbers, dates of manufacture, and dates of expiration, using ALSMS or AFTO Form 152, **Chemical Defense Ensemble Inspection Record**, as appropriate.

4.4.2.5. Record ACDE/AERP equipment inspections in ALSMS or on applicable AFTO and DD Forms. Use pressure-sensitive tape or equivalent to record inspection due dates on helmets, CRU-80/P filter packs, CBO masks, on the back side of MBU-19/P mask manifold assemblies, intercom units, and blower assemblies.

4.4.2.6. Issue one AMC Visual Aid (AMCVA) 11-303, *Aircrew Chemical Defense Ensemble Donning Checklist* (*ACDE & AERP*) (formerly AMCVA 36-2206) for each individual D-bag, to include the mini-D-bag.

4.4.2.7. Install a pair of scissors in mini-D-Bags when MK-1s are installed to allow the crew member to trim any excess material off of sleeves/legs.

4.4.2.8. Towelettes (70 percent isopropyl alcohol) may be placed in D-bags to allow crew members clean mask-hood units when temporarily away from home-station.

4.4.2.9. Install a roll of tape in mini-D-Bags when unit elects to spot tape items.

4.4.2.10. Units will take the necessary forecasting/budgeting actions to ensure replacement assets are available as they expire in future years.

4.4.2.10.1. Superintendents will forward each squadron's ACDE/AERP equipment (D-bag) requirements to the base civil engineer readiness flight, prior to submission to HQ AMC. The local CE readiness flight will validate requirements before releasing O&M funding from PE 27593.

4.4.2.10.2. These procedures do not apply to AMC-gained ARC units. AMC-gained ARC units will follow guidance provided by AFRC and ANG.

4.4.2.10.3. Active duty units maintaining associate reserve units' ACDE/AERP equipment will assist the AFRC liaison forecast/budget for replacement assets IAW AFRC guidance.

4.4.2.11. The Chief of Supply may courtesy-store ACDE/AERP equipment not required for ALS immediate use or aircrew training IAW AFMAN 23-110, Vol 2, Part 2, Chapter 26, Section F (formerly AFM 67-1, Vol II, Part 2). Due to the sensitivity of LSE, ALS will assume storage responsibility for ACDE/AERP equipment if sufficient storage space is available in or near the work area.

4.4.3. ACDE Equipment Procedures:

4.4.3.1. ACDE/AERP equipment is designed to protect aircrew when traveling to and from aircraft, and during flying operations. ACDE/AERP equipment does not provide adequate protection against liquid contaminants; therefore, aircrew will be issued the GCE (C-Bag) to perform ground support duties.

4.4.3.2. C-9, C-17, C-130 and C-141 aeromedical evacuation crew members (AECM) are authorized the standard aircrew quantities of ACDE. AECMs will utilize the first-generation ACDE equipment until sufficient quantities of AERP equipment becomes available.

4.4.3.3. KC-135 SIOP alert crew chiefs are authorized ACDE/AERP equipment. KC-135 SIOP alert crew chiefs will use the GCE (C-bag) for protection while performing ground support duties. Maintenance of GCE is not an ALS function, but rather a shared individual and unit responsibility.

4.4.3.4. Filter Element Replacement Procedures:

4.4.3.4.1. To allow rapid launching of initial deploying aircrew, CRU-80/P filter packs may be assembled with filter elements installed. Disassemble and inspect built-up filter packs annually (as TO directed, temperature, or conditions dictate) and have filter elements changed IAW TO 14P4-1-151, *Chemical-Biological Canisters and Filter Element Procedures*, and Army Service Bulletin (SB) 3-30-2.

4.4.3.4.2. Unit procedures may be established to have only sufficient CRU-80/P filter packs built up (with filters installed) to accommodate the initial cadre of deploying aircrew. Disassemble the remaining filter packs and place parts in Ziploc" bags (see paragraph **2.8.3.**), ready for immediate installation of filter elements. If this option is chosen, procedures must be established and personnel and tools must be available for mass filter element installation.

4.4.3.4.3. Place disassembled filter packs in serviceable storage (see paragraph **3.4.7.**). Perform a visual inspection on disassembled filter pack parts annually.

4.4.3.4.4. Close coordination between ALS and flying squadrons should be maintained in order to ensure ACDE/AERP equipment is prepared for issue during deployments (see paragraphs **2.4.3.1.5.** and **6.2.2.1.**).

4.4.3.4.5. Units vacuum-packing assembled CRU-80/P filter assemblies and maintaining them in environmentally controlled locations may replace the filters biennially IAW TO 14P3-1-131, *Operation and Maintenance Instructions With Illustrated Parts Breakdown Aircrew Chem-Defense Ensemble*, and TO 14P4-1-151.

4.4.3.5. Aircrew Eye/Respiratory Protection (AERP) Equipment:

4.4.3.5.1. AERP equipment is considered the primary aircrew chemical defense above-the-shoulder respiratory protective equipment for AMC aircrew.

4.4.3.5.2. AERP equipment consists of a MBU-l9/P chemical protective mask-hood assembly that integrates a MBU-12/P pressure-demand O_2 mask, hood O_2 regulator, and a chemical-biological filter and pigtail adapter hose assembly; a CQU-7/P blower and applicable hose assembly; and a MXU-835/P ground intercommunication unit. AERP equipment is designed to be used with the existing ACDE.

4.4.3.5.3. C-5, C-9, C-17, C-27, C-130, C-141, KC-10, and KC-135 crew members will use the blower assembly with a 6-foot hose. C-21 OSA aircrew will use the blower assembly with a 4-foot hose.

4.4.3.5.4. Units are authorized to use the 6-foot hose extension if deemed necessary to meet mission requirements IAW TO 14P3-1-151, *Operation and Maintenance Instructions With Parts Breakdown Aircrew Eye/Respiratory Protection (AERP) Equipment*.

4.4.3.5.5. AERP equipment is designed to interface with the HGU-55/P flight helmet using standard offset bayonet connectors.

4.4.3.5.6. Units requiring nonhelmeted MBU-l9/Ps will have to order separate detachable harness/buckle assemblies and communications cord to retrofit the hood-mask assembly as a nonhelmeted version.

4.4.3.5.7. Units will establish procedures for installing batteries and filters in blower assemblies to meet unit contingency tasking and ALSCT requirements.

4.4.3.5.7.1. AERP equipment must be in “ready for use” status and operational before each crew member deploys. Units will establish procedures to install lithium batteries and secure wings on the blower assembly. Secure wing assemblies when AERP is issued and preflighted by crew members, prior to crew member deploying.

4.4.3.5.7.2. When crew members return from contingencies and AERP equipment was not used, remove the batteries, and keep them in their original sets. Store batteries in plastic bags to prevent fire or explosion (see paragraph **2.8.5.**). If batteries were used, remove from blower assembly and use for training. Mark batteries used for training (see paragraph **3.4.15.**).

4.4.3.5.8. As a minimum, install six (6) additional strap fasteners in individual D-bags to allow aircrew to remove/replace spare batteries and secure wings on blower assemblies. Units are authorized to install spare 9-Volt batteries in individual D-bags for the intercom unit. Place batteries in a Ziploc® plastic bag. Store in a manner to insure batteries do not contact each other.

4.4.3.5.9. C-21 units will maintain sufficient quantities of MD-1 emergency O_2 bottles to support contingency operations (i.e., 2 per PAI, plus 10 percent spares). These bottles serve as a source of emergency O_2 for aircrew using AERP equipment aboard C-21 aircraft while in the emergency O_2 flight mode. Establish procedures to inspect, service, and maintain MD-1 bottles, as required, at home-station and during contingencies.

4.4.3.6. CWU-66/P and CWU-77/P Integrated Aircrew Chemical Coverall (IACC):

4.4.3.6.1. IACCs are considered the primary aircrew below-the-shoulder chemical protective garment for AMC aircrew and is a suitable replacement for the MK-1 charcoal undercoverall.

The difference between the IACCs is color (CWU-66/P is green and CWU-77/P is desert brown).

4.4.3.6.2. Each AMC crew member is authorized a total of three operational IACCs IAW AMCI 10-403 (formerly AFI 10-406). The goal is to issue suits equitably across the command as they become available. Do not issue individuals subsequent suits until all crew members have at least one suit. Using this principle, all excesses should be reported to the respective MAJCOM ALS office in order to maintain readiness capabilities MAJCOM-wide.

4.4.3.6.3. Issue the MK-1 undercoverall as the alternate coverall for the IACC to make up a complete D-bag basis of issue (BOI).

4.4.3.6.4. Aircrew are responsible for tracking service-life/laundering of IACCs (30 days unpackaged/10 washes, whichever occurs first). When IACC is removed from package, annotate the date removed with permanent ink on the laundry instruction label. This will allow crew member to track use of IACC. Launder IACC IAW TO 14P3-1-131.

4.4.3.7. Procedures For Using ACDE/AERP Equipment For Training: ANG units will follow ANG Supplement 1, Air National Guard (ANG) Unique Supply Policy and Procedures to AFMAN 23-110.

4.4.3.7.1. Crew members should use their individually issued or fitted "above-the-shoulder" ACDE/AERP equipment along with their GCEs for wing exercises and flying-type training IAW AMC IG's ROEs. Do not use operational ensembles for ALSCT which could result in damage to war readiness assets (i.e., water survival training).

4.4.3.7.2. Units will maintain ACDE/AERP equipment for training purposes. Units will either maintain one training ensemble per individual crew member or tariff sized training bags to support crew members during recurring training and local exercises. If tariff sized training bags are maintained, units will ensure a sufficient amount of bags are on-hand. Inspect and mark training equipment (see paragraph **3.4.15.**).

4.4.3.7.3. The standard CWU-27/P flight suit adequately replicates the CWU-66/P or -77/P suits; therefore, do not remove IACCs from their sealed container and use the CWU-27/P for training purposes.

4.4.3.7.4. As long as individuals are equipped with both types of suits (IACC and MK-1 charcoal undercoverall), ACCA shelter processing training will include both the IACC and MK-1 charcoal undercoverall.

4.4.3.7.5. In addition to the "above-the-shoulder" equipment, one training ensemble for AERP equipment will consist of: 1 C2A1 filter canister; 1 pair/set of lithium batteries; 2 plastic overcapes; 1 pair of butyl gloves w/inserts; 2 pair of overboots; 1 pair of white cotton drawers; and 1 white cotton undershirt. One ACDE for training will consists of: 1 MK-1 charcoal undercoverall; 1 HGU-41/P hood assembly; 1 M13A2 filter set; 2 plastic overcapes; 1 pair of butyl gloves w/inserts; 2 pair of overboots; 1 pair of white cotton drawers; and 1 white cotton undershirt.

4.4.3.7.6. Units are authorized to use a HGU-41/P hood as a template to locally manufacture simulated ACDE hoods for ground training purposes.

4.4.3.7.7. Crew members will turn-in ACDE/AERP equipment to ALS immediately after the threat or exercise is terminated (see paragraph **4.2.3.2.**).

4.4.3.7.8. Upon completion of training for units using AERP equipment, ensure non-mask parts of the AERP system (hood/eye lens) are cleaned in order to remove sweat and other contaminants immediately after each use. This will prevent bacterial accumulation and potential residual ammonia off-gassing.

4.5. Aircrew Flight Clothing:

4.5.1. In addition to the aircrew flight clothing requirements in AFI 11-301, commanders must address the following clothing requirements:

4.5.1.1. Aircrew will be prepared to wear flight equipment IAW the deployment threat conditions in AMC OMNIBUS OPLAN, Annex C. Each unit can contact their wing's Operations Plans office to review requirements. The AMC OMNIBUS OPLAN, Annex C lists aircrew body armor, ACDE/AERP equipment, and LSE requirements for nonthreat or permissive, and low, medium, and high-threat environments. Aircrew should refer to applicable flying publications/instructions for mission specific equipment requirements.

4.5.1.2. Knife, MC-1 or Hook-Blade. When parachutes are worn or carried for emergency use, crew members may install an additional MC-1 knife or hook-blade in the pocket provided on their outer garment. Crew members who elect to use either one of these items must install knife or hook-blade IAW 14P3-1-112 and adhere to the instructions and responsibilities in AFI 11-301. These knives are provided by the individual flying units.

4.6. Vacuum-Packing LSE:

4.6.1. Vacuum-packing LSE is authorized. The goal of vacuum-packing is to enhance an item's service-life while in storage, or to reduce bulk of clothing type items. Vacuum-packing equipment may be requisitioned IAW AS 450.

4.6.2. Clothing-type items may be vacuum-packed indefinitely unless signs of discoloration, deterioration, or broken seals are evident.

4.6.3. Open and inspect all vacuum-packed items, other than clothing, at least every 24 months. Reaccomplish vacuum-packing procedures for items beginning to "pillow" or showing evidence of tampering.

4.6.4. Vacuum-packing is not authorized for components that would inhibit compliance with inspection criteria, aircrew safety, and accessibility during emergency use. Therefore, items unauthorized to be vacuum-packed are survival kit, accessory kits, and survival vest-installed signal flares, radios, strobe lights, matches, manual reverse osmosis desalinators, and lensatic or magnetic compasses.

4.6.5. Install all vacuum-packed items in a see-through container and clearly label container identifying the packaged contents. Seal items in the package in such a way to permit opening with a single gloved hand. Mark the package "OPEN HERE" and place an arrow pointing to the notched or tear strip (or equivalent).

4.6.6. Label all vacuum-packed containers with lot number, date of installation, any applicable manufacturing data, and initials of individual performing the packing procedure.

4.6.7. For future tracking and research purposes of bulk stored items, number packed items by lot sets of 100 (e.g., 1-1 through 1-100, 2-1 through 2-100, etc.). Additionally, as a source for future higher headquarters reference/tasking, maintain a log book to record any and all anomalies of vacuum-packed bulk stored items.

4.6.8. Units desiring to use vacuum-packing will outline specific details in their wing supplement to this instruction.

4.7. Aero Clubs. LSE may be loaned to Air Force aero clubs on a temporary basis if not immediately required for operational needs IAW AFI 34-217, *Air Force Aero Club Program*.

Chapter 5

ALS CONTINUATION TRAINING (ALSCT)

5.1. General:

5.1.1. This chapter outlines responsibilities and requirements of the AMC ALSCT programs.

5.1.2. ALSCT will be conducted IAW AFI 11-301, AFI 14-105, *Unit Intelligence Mission and Responsibilities*, AFI 36-2209, applicable volumes of Multi-Command Instruction (MCI) 10-202, *Aircrew Training* (projected to be AFI 11-2MDS-series, Volume 1), and this instruction.

5.2. Responsibilities:

5.2.1. Group Commanders or ARC-Equivalents:

5.2.1.1. Adhere to responsibilities listed in AFI 11-301 and applicable volumes of MCI 10-202, (projected to be AFI 11-2MDS-series, Volume 1). Specific responsibilities are as follows:

5.2.1.1.1. Ensure ALSCT is accomplished and course objectives provide the most "realistic" training for aircrew to meet missions' most probable wartime and peacetime operations. Avoid sending aircrew personnel into high-threat areas if they have not acquired proper skills provided in these courses.

5.2.1.1.2. Ensure aircrew and passengers receive training in emergency procedures and to use their LSE effectively IAW AFI 11-206 (projected to be AFI 11-202, Volume 3). Ensure crew members demonstrate "hands-on" proficiency IAW AFI 11-301.

5.2.1.1.3. Ensure crew members complete local orientation training to maintain mission-ready (MR) status.

5.2.2. Squadron Commanders of AMC Flying Units:

5.2.2.1. Adhere to responsibilities listed in AFI 11-301 and applicable volumes of MCI 10-202, (projected to be AFI 11-2MDS-series, Volume 1). Specific responsibilities are as follows:

5.2.2.1.1. Ensure compliance with the provisions set forth in this chapter.

5.2.2.1.2. Restrict any crew member from flying who does not demonstrate required proficiency or declare individuals nonmission-ready (NMR) if they fail to complete ground training requirements as outlined in applicable volumes of MCI 10-202 (projected to be AFI 11-2MDS-series, Volume 1), and this instruction.

5.2.2.1.3. Ensure crew members attend scheduled ALSCT events to prevent overdue training.

5.2.3. OSS LSO, Superintendent, and Training NCOIC:

5.2.3.1. These individuals serve as the focal point for wing/group ALSCT programs. Responsibilities include but are not limited to the following:

5.2.3.1.1. Develop and coordinate the wing ALSCT schedule.

5.2.3.1.2. Monitor ALSCT currency and identify training shortfalls and trends to the operations group training review panel. Training review panels are established IAW applicable volumes of MCI 10-202 (projected to be AFI 11-2MDS-series, Volume 1).

5.2.3.1.3. Coordinate and schedule ALS instructor augmentation requirements when needed. Ensure combat delivery airlift and aerial refueling (tanker) squadrons have two core ALS instructors certified in LS-02 course of instruction. Also, have two core instructors certified to brief or demonstrate to crew members the location, preflight procedures, inspection, and use of all emergency LSE carried aboard unit aircraft to assist aircrew instructor conduct ground egress training (G020).

5.2.3.1.4. Prepare and maintain ALSCT equipment and facilities. Forecast to ensure funds are available to purchase training assets for required training. Units who utilize MWRS life guards may need to budget for the payment of their services, unless, MWRS provides life guards at no cost to the unit.

5.2.3.1.5. Ensure crew members meet the minimum formal survival training requirements IAW AFI 14-105, AFI 36-2209/AMC1, and the requirements of this instruction.

5.2.3.1.6. Ensure accurate lesson plans are developed IAW AFMAN 36-2236, *Guidebook for Air Force Instructors* (formerly AFM 50-62). Ensure standardized instructor guides from HQ AMC/DOTL are incorporated into local lesson plans. Review and certify ALSCT lesson plans annually. Forward recommended changes/updates to HQ AMC/DOTL for validation and possible MAJCOM-wide implementation.

5.2.3.1.7. Ensure to the utmost a realistic training environment for all ALSCT events and crew members demonstrate “hands-on” proficiency. Ensure academic portions of ALSCT are conducted in a distraction free area.

5.2.3.1.8. The LSO will ensure crew members designated to conduct ground egress training is current and qualified in the MDS. The wing/group LSO or Chief of Aircrew Training will certify these instructors and conduct periodic evaluations to evaluate the quality of aircraft ground egress training.

5.2.3.1.9. Ensure quality, accuracy, and safety of ALSCT programs. Periodically attend training events to review and critique course presentation and instructor knowledge, condition and use of training aids, and student involvement and ”hands-on” aircrew demonstrated proficiency. Evaluate the quality and safety of Aircrew Chemical Defense Task Qualification Training (ACDTQT) conducted on unit aircraft.

5.2.3.1.10. Ample time is available for crew members to catch up on training obligations when in “duty not including flying” (DNIF) status. Crew members who are DNIF may log ground training events if the member’s physical condition allows it IAW AFI 48-123, *Medical Examination and Standards*, and applicable volumes of MCI 10-202 (projected to be AFI 11-2MDS-series, Volume 1).

5.2.3.1.10.1. Personnel with physical limitations may participate in any ALSCT event provided they can meet all course objectives. Both the flight surgeon and the individual must be aware of the impact the condition or medication will have on the individual’s ability to meet course objectives. It is the individual crew member’s responsibility to inform their scheduler/instructor if they feel they might not be able to complete course objectives due to physical limitations or wellness (i.e., crew member is pregnant, have a cast or other encumbrances, etc.). This is intended to reduce additional injuries while performing ALSCT where physical exertion is required during training (i.e., water survival, combat survival, and aircrew chemical defense training.).

5.2.3.1.10.2. If the crew member's ability to complete training is in question, consult the flight surgeon IAW applicable volumes of MCI 10-202 (projected to be AFI 11-2MDS-series, Volume 1).

5.2.3.1.11. Ensure instructors (AFSCs 1T1X1/1T0X1) are recommended by the squadron NCOIC, certified annually, and only qualified and certified instructors conduct ALSCT. As a minimum, qualification training includes the "beginning to end" complete presentation or instruction of materials and procedures for the event to be certified. This also applies to certification of an individual to present a specific training area within an event (i.e., block of instruction).

5.2.3.1.12. Ensure ALS and SERE personnel assigned as ALSCT instructors attend courses specified as mandatory for ALS instructor duty IAW AFI 11-301 (see **Table 2.1.** and **Table 2.2.**). Document certification on individual's AF Form 1098.

5.2.3.1.13. ALS instructors (AFSC 1T1X1) assigned to the OSS training section will be periodically assigned to the various ALS sections. This is intended to provide program continuity, prevent career stagnation, and maintain technical proficiency.

5.2.3.1.14. Documentation of LSO certifications will be by letter signed by the Operations Group commander or ARC-equivalent.

5.2.3.1.15. Identify crew members within the wing who have not attended formal survival training IAW AFI 36-2209.

5.2.3.1.16. Ensure all crew members are briefed on changes to LSE or new equipment items, prior to placing aboard aircraft or in service.

5.2.3.1.17. Monitor accuracy of assigned aircrew training records to ensure formal and local ALSCT is properly documented.

5.2.3.1.18. Ensure LSE training is provided to fire department personnel for the purpose of aircrew and passenger rescue and extraction IAW AFI 32-2001, *The Fire Protection Operations and Fire Prevention Program*. This training should be conducted annually. Units should pursue involving the fire department and accomplishing this training in conjunction with ground egress training to enhance the overall ground egress training program (G020).

5.2.4. Flying Squadrons:

5.2.4.1. Provide feedback to ensure ALSCT program remains abreast of mission needs.

5.2.4.2. Monitor and ensure crew members maintain currency in ALSCT events.

5.2.4.3. ALS sections will provide qualified instructor augmentation when required by the OSS training NCOIC.

5.3. Training Method:

5.3.1. ALSCT will include realistic "hands-on" training scenarios, maximum student participation, student demonstrated knowledge and proficiency, and training aids to enhance the learning objectives and to ensure maximum training benefits from each ALSCT event.

5.3.2. The OSS ALS staff will work with the local safety office to design and certify hanging harness devices.

5.4. Currency:

5.4.1. ALSCT is required to maintain MR status. Frequencies and applicability are defined in applicable volumes of MCI 10-202, Chapters 1 and 4 (projected to be AFI 11-2MDS-series, Volume 1). This instruction outlines duration of ALSCT events.

5.4.2. Crew members may perform aircrew duties prior to completing combat survival training (CST), water survival training (WST), and courses S-V80-A, S-V86-A, or S-V90-A. However, these formal courses provide the basic skills and knowledge needed when placed in a survival situation. Commanders, when possible, should avoid sending aircrew personnel into high-threat areas if they have not acquired skills provided in these courses. Schedule crew members to attend these courses, as required, at the earliest opportunity.

5.4.3. KC-135 Alert crew chiefs assigned SIOP duties are required to complete local ground egress, aircrew chemical defense training (ACDT), CST, and WST. Maintenance training managers will ensure KC-135 SIOP alert crew chiefs maintain course currency. Units will schedule these individuals for additional training based on mission requirements.

5.5. Currency Application:

5.5.1. Ensure ALSCT is completed during the required cycle to eliminate overdue training.

5.5.2. Crew members who require ALSCT during any specific month may satisfactorily complete training during that month. Individuals requiring ALSCT are not considered delinquent until the first day of the following month and should receive required ALSCT prior to home-station departure if training capability does not exist at deployed location.

5.5.3. Aircrew scheduled by squadron scheduler to attend ALSCT events must attend class dates programmed by the OSS ALS office to alleviate individual “one-on-one” training.

5.5.4. The OSS ALS office will establish procedures for individual flying squadrons requesting individual “one-on-one” training for aircrew who fail to attend scheduled ALSCT events.

5.5.5. Failure to accomplish ground egress training (G020) results in immediate grounding until the training is accomplished IAW applicable volumes of MCI 10-202 (projected to be AFI 11-2MDS-series, Volume 1). Individuals who become delinquent while deployed and cannot receive required training at deployed location, must accomplish training upon return to home-station, prior to their next flight.

5.6. Training Documentation:

5.6.1. Document all ALSCT events on AF Form 1522, **AFORMS Additional Training Accomplishment Input**, or locally produced form. Maintain a copy of AF Forms 1522 for each course of instruction as a record of class attendance (i.e., ACDT and ground egress training for 2 years, WST and CST for 3 years). The instructor will sign the AF Form 1522 and “Z” out all unused spaces to prevent additional names being added at a later date. The OSS ALS training section will keep a duplicate copy of the attendance roster for historical purposes and file IAW AFMAN 37-139.

5.6.2. Upon completion of training, forward the original attendance roster to the unit training branch for input into Air Force Operations Resource Management System (AFORMS).

5.7. Course Descriptions:

5.7.1. Local Orientation Training:

5.7.1.1. Conduct local orientation training prior to first flight IAW applicable volumes of MCI 10-202 (projected to be AFI 11-2MDS-series, Volume 1). Duration of training class is a unit option based on mission/training needs. Initial local orientation training will familiarize the crew member with equipment, local procedures, requirements, and services provided by the ALS sections. This may include a "snap-shot" tour of the ALS facilities and applicable areas.

5.7.1.2. Cover all aspects of local orientation training to the extent necessary to fly locally. Crew members arriving PCS who are qualified in the same MDS may maintain previously established training currency dates.

5.7.2. Aircrew Chemical Defense Training (ACDT) (LS02):

5.7.2.1. Provide training to all crew members stationed in or subject to deployment or operations through a CTA. Duration of training class is a maximum of 6 hours based on unit mission/training needs.

5.7.2.2. Individuals who accomplish initial ACDT at a technical training unit (TTU) or replacement training unit (RTU) will receive credit for initial training on arrival at their permanent duty station.

5.7.2.3. Initial and biennial training will consist of demonstrated performance of donning, doffing, buddy dressing procedures, ACCA processing procedures, and ensemble limitations (i.e., heat stress, off-gassing, breathing restrictions, etc.).

5.7.2.4. Process all individuals receiving initial training through the ACCA. The quantity of individuals required to process through the ACCA for each scheduled class is based on crew compliment per MDS (e.g., if a MDS's basic crew compliment consists of 5 crew members, then process any 5 crew members in class to demonstrate the time it takes to process a basic crew compliment through the ACCA).

5.7.2.5. Accomplish ACDT using guidance in the AMC Aircrew Chemical Defense Training Outline, applicable TOs, and MCI 10- and 11-series publications (projected to be AFI 11-2MDS-series publications). For units who elect to conduct ACDT and chemical warfare defense training (CWDT) on the same day, superintendent/OSS training NCOIC will coordinate training schedules with the civil engineering readiness flight for the groundcrew portion of CWDT in order to minimize conflicts with the OSS training schedule.

5.7.2.6. Crew members participating in local exercise (i.e., ORI, ORE, MOBEX, etc.) will receive credit for ACDT provided all objectives in this instruction (paragraph **5.7.2.**) are accomplished.

5.7.3. Combat Survival Training (CST) (LS03):

5.7.3.1. CST will be comprised of the following objectives: physiological and psychological ("Will-to-Survive") factors, personal protection, land navigation, combat recovery, signaling and communications, CoCCT (SERE), and "hands on" use of LSE available in specific MDS. As a minimum (in addition to the above objectives), survival radios, survival vest components, compass, emergency locator beacons, and camouflage stick will be taught during CST.

5.7.3.2. If unit elects to conduct CST in the field, CST may vary from a local exercise to a recovery scenario and tailored to meet individual experience levels, local climatic conditions, and unit mission. Duration of training class is a maximum of 8 hours based on unit mission/training needs.

5.7.3.3. Schedule individuals for local CST who have completed formal survival training (S-V80-A) and schedule newly assigned individuals 6 months after arrival on station who have not completed formal training, as appropriate.

5.7.3.4. Completion of S-V80-A or local survival training will establish the baseline for recurring CST.

5.7.3.5. Applicable crew members whose mission responsibilities require the issue/wear of parachutes will receive hanging harness training. This part of the training will include location, preflight, donning, bailout, decent, landing, and use of the personnel lowering device (PLD), if applicable. This training will be provided by ALS.

5.7.3.6. Completion of CST fulfills aircrew requirement for self-aid buddy care IAW applicable volumes of MCI 10-202 (projected to be AFI 11-2MDS-series, Volume 1). Only crew members can receive credit for self-aid buddy care received by CST instructor. ALS is not responsible for teaching self-aid buddy care to other organizations.

5.7.3.7. Crew members participating as survivors during local combat search-and-rescue (CSAR) exercises or Joint Chiefs of Staff (JCS)-sponsored evasion exercises will receive credit for CST provided all objectives in this instruction (paragraph **5.7.3.**) are accomplished and documented.

5.7.4. Water Survival Training (WST) (LS04):

5.7.4.1. WST will consist of "hands-on" training for each crew member with all MDS specific flotation devices and LSE components available during an overwater emergency (i.e., strobe lights, signaling devices, sea dye marker, manual reverse osmosis desalinators, first aid kits, etc.).

5.7.4.2. The objective of this training is to emphasize survivor needs using water survival related equipment, accessories, and procedures. Additionally, this training will include emphasis on the use of appropriate passenger support equipment and the proper care of passengers during a survival situation.

5.7.4.3. If the unit elects to conduct “wet” training, conduct training in a pool or open body of water. Duration of training class is a maximum of 6 hours based on unit mission/training needs. Take precautions to ensure the safety of crew members and instructors.

5.7.5. Ground Egress Training (G020):

5.7.5.1. Certified aircrew and ALS instructors will provide ground egress training to all aircrew and operational support crew members.

5.7.5.2. Duration of training class is a maximum of 2 hours based on unit mission/training needs.

5.7.5.3. ALS will instruct and demonstrate aircrew and passenger LSE. Ensure crew members are briefed on the limitations and safety issues related to LSE. Train crew members on associated emergency oxygen equipment, flying helmets, protective clothing kits, emergency passenger oxygen system (EPOS), and protective breathing equipment (PBE).

5.7.5.4. Ensure crew members are aware of their responsibilities for preflighting LSE, passenger equipment, and conducting safety briefings IAW AFI 11-206 (projected to be AFI 11-202, Volume 3), and this instruction.

5.7.5.5. Demonstrations will include "hands on" aircrew participation to the maximum extent possible.

5.7.5.6. Training will include discussion of primary or secondary air and ground egress exit points. If unit elects to conduct ground egress training at the aircraft, practice a "hands-on" egress scenario to enforce the importance of aircrew coordination actions required for emergency situations. Aircrew should practice exiting the aircraft while wearing applicable LSE, (i.e., parachutes, survival vests, life preservers, etc.).

5.7.5.7. Instructors are responsible for setting up and installing appropriate equipment needed for their portion of training (i.e., the aircrew instructor will install and set up escape slides/slide-rafts, if used). ALS will coordinate with survival equipment section to ensure a training slide/slide-raft is maintained and available for use by aircrew instructors, if unit elects to use slides/slide-rafts during training.

5.7.6. Helicopter Emergency Egress Device (HEED) Training:

5.7.6.1. Required for all helicopter crew members.

5.7.6.1.1. All AMC (89 AW) helicopter crew members will attend a one-time underwater egress training (UET) class S-V84-A, IAW AFCAT 36-2223.

5.7.6.1.2. Duration of training class is as defined by 89 AW. As a minimum, crew members will view UET (606040DF) and HEED (802514DN) videos annually.

Chapter 6

DEPLOYMENT AND CONTINGENCY OPERATIONS

6.1. General:

6.1.1. This chapter establishes guidelines for ALS personnel and equipment required to support AMC's "Rapid Global Mobility" commitments and defines AMC ALS Rapid Global Mobility Concept of Operations. It incorporates requirements identified in AFMAN 10-401, *Operation Plan and Concept Plan Development and Implementation*, AFI 10-403, *Deployment Planning* (formerly AFR 28-4), AMCI 10-401, *Unit Type Code Management*, and AMCI 10-403 (formerly AFI 10-406).

6.2. Responsibilities:

6.2.1. MAJCOM Functional Managers (FM):

6.2.1.1. Comply with responsibilities listed in AFMAN 10-401, AFI 10-403, AMCI 10-204, *Air Mobility Command Exercise Program*, AMCI 10-401, and AMCI 10-403 (formerly AFI 10-406).

6.2.2. Wing/Group/Squadron Commanders or ARC-Equivalents:

6.2.2.1. Ensure compliance with this chapter and keep ALS personnel abreast of the wing's existing and forthcoming contingencies and commitments (see paragraph **2.4.3.1.5.**).

6.2.3. Group and Squadron ALS:

6.2.3.1. Ensure unit staffing, training, and equipment are maintained and capable of supporting tasked UTCs IAW AFMAN 10-401. Develop and ensure theater specific ALS training is conducted prior to and during deployments, as required. Responsibilities include but are not limited to the following functions:

6.2.3.1.1. Develop and provide standardized deployment and ACDE/AERP equipment packages for unit commitments, to include bare-base and self-sustaining operations, as described in the unit DOC statements, Global Assets List (GAL), or as tasked in OPLANs IAW AMCI 10-403 (formerly AFI 10-406). ARC's GAL equivalents are: ANG's UTC Management Information System (UMIS) and AFRC's War Mobilization Plan III (WMP III).

6.2.3.1.2. Establish and implement ALS programs based on DOC statements, OPLANs, tasked UTCs, and mission changes. Identify shortfalls with LOGDET and UTCs IAW AFMAN 10-401.

6.2.3.1.3. Ensure manpower type (MNT) codes (first two positions) are properly coded on unit manpower document (UMD) (i.e., XX, required peacetime and wartime - in-place; XW, required peacetime - in place/wartime - deploys inter-theater) to identify staffing requirements to support current UTCs (i.e., XW is used to identify the number of staffing positions unit is tasked to deploy). For required only (unfunded) offset positions, RA=XX and RR=XW.

6.2.3.1.4. Ensure military essentiality status (MES) codes are coded "A" for active duty and "J" for ARC forces IAW AFI 38-204, *Programming USAF Manpower*. All ALS positions are mission essential and coded for mobility, to support unit tasked UTCs ("XXZ99") and back-fill deployed ALS technicians on a rotational basis.

6.2.3.1.5. Ensure ALS technicians are initially qualified to process hazardous cargo and subsequent refresher training is accomplished every 24 months IAW AFJMAN 24-204 (formerly AFR 71-4), AMCI 24-101, Volume 11, *Cargo and Mail*, and applicable directives.

6.2.3.1.5.1. Ensure an adequate amount of ALS technicians are trained to prepare cargo and build pallets for deployment and redeployment operations and are fork lift qualified to expedite movement of mobility gear during contingencies IAW AFI 10-403 and AMCI 24-101, Volume 11.

6.2.3.1.5.2. Document hazardous cargo training on individual's AF Form 1098 IAW AMCI 24-101, Volume 11.

6.2.3.1.6. Ensure ALS technicians are qualified annually on weapons issue, operations cleaning, and security requirements, as applicable, on the use of 9mm, 38 caliber, and M-16 weapons IAW AFPD 16-8, *Arming of Aircrew, Mobility, and Oversea Personnel*, AFI 31-207, *Arming and Use of Force by Air Force Personnel*, AFI 36-2226, *Combat Arms Training and Maintenance (CATM) Program*, and AMCPAM 31-1, *The Air Mobility Command Arming Policy*, as required.

6.2.3.1.6.1. ALS personnel assigned to units with a mobility requirement are assigned to arming Groups B and C, as applicable. Ensure ALS personnel are selectively armed when tasked to issue, store, and protect weapons at deployed locations, under field conditions, and in support of ACCA operations IAW AFI 31-207 and AFH 31-223.

6.2.3.1.6.2. Document training on individual's AF Form 522, **USAF Ground Weapons Training Data**, and AF Form 1098.

6.2.3.1.7. Ensure ALS technicians receive CWDT IAW AFI 32-4001, *Disaster Preparedness Planning and Operations*. Document training on individual's AF Form 1098.

6.2.3.1.8. As a minimum, sanitize LSE crew members may rely on during escape and evasion operations to prevent divulging the base, activity, or unit (i.e., survival vests, personnel parachutes, individual survival kits, one-man life rafts, etc.). Local control numbers are encouraged for personal flight clothing.

6.2.3.1.8.1. Eliminate data pertaining to organization, unit of assignment, and inspection activity.

6.2.3.1.8.2. Ensure deploying LSE and accompanying inspection forms attached to or installed in LSE are sanitized. Conversely, mark passenger LSE (see paragraphs **3.4.9.** and **3.4.11.**).

6.2.3.1.9. Coordinate with appropriate wing agencies to ensure ALS requirements are sustained during deployment or contingency operations (i.e., base supply, survival equipment, hospital, medical supply, MASO, disaster preparedness, etc.).

6.2.3.1.10. Identify items for bare-base operations and maintenance to include: ACCA shelter operations, tents, portable equipment racks, shuffle boxes, laptop computers, portable radios, etc. Laptop computers are required to operate ALSMS, load combat survivor evador locators (CSEL), and Aircrew Life Support Equipment and Records Tracking System (ALERTS). Portable radios are required for communication between ALS and Survival Recovery Center (SRC) (see paragraph **6.6.3.**).

6.2.3.1.11. Ensure copies of MSDSs are available for each type of hazardous material being shipped to deployed locations.

6.2.3.1.12. Ensure items listed in LOGDET and packing list are on-hand and inspected (see paragraph **6.4.7.**).

6.2.3.1.13. Identify equipment shortages resulting in total mission impairment through the Status of Resources and Training System (SORTS) reporting process IAW AFI 10-201, *Status of Resources and Training System*.

6.2.3.1.14. Ensure standardized unit mobility local directives are developed to recall, mobilize, employ, and redeploy ALS personnel, LSE, and supplies.

6.2.3.1.15. Group LSOs/superintendents will become members of the wing's exercise evaluation team (EET) and observe ALS's combat capability (including evaluating crew members' ability to use/don ALS equipment) IAW the following publications: AFI 10-212, *Air Base Operability* (formerly AFR 360-1), AFI 32-4005, *Personnel Protection and Attack Actions*, AFI 90-201, *Inspector General Activities*; AMCI 10-204; AMCI 10-403 (formerly AFI 10-406); AMCH 10-7, *Survive To Operate*; AMCI 90-201, *The Inspection System*; AMCPAM 90-202, *Operational Readiness Inspection* (*ORI*) *Guide*; AMC IG ROEs, and guidance included in this instruction. As a minimum, evaluate all the processes relating to ALS activities using grade sheets in AMCPAM 90-202. Additionally, with cooperation from other functional areas, evaluating provider agencies' ability to sustain the wing's ALS program should be considered part of the observation process (i.e., survival equipment, hospital, base supply, MASO, medical supply, etc.).

6.2.3.1.16. Active duty units participating in contingencies or major/joint exercises are required to submit after action reports to HQ AMC/DOTL IAW AMCI 10-204. HQ AMC/DOTL will use these reports to identify lessons learned/shortfalls in AMC ALS Concept of Operations.

6.2.4. Pilot Units. A pilot unit is responsible for developing and maintaining the standard LOGDET for each UTC it has assigned and comply with responsibilities IAW AFMAN 10-401 and AMCI 10-401. The goal is a uniform package for all units using this UTC. The pilot unit will develop the LOGDET IAW AFMAN 10-401 and AMCI 10-401, using the appropriate ASs (i.e., AS 016 and AS 450) as the source document based on the mission capability of the UTC.

6.2.5. Non Pilot Units. Assist the pilot unit develop and evaluate the LOGDET. Provide pilot unit with any changes to mission requirements, comments, concurrence, or nonconcurrence. Comply with responsibilities IAW AFMAN 10-401.

6.3. AMC ALS Rapid Global Mobility Concept of Operations:

6.3.1. The following concept of operations was developed to provide vision and guidance for AMC's ALS deployment operations in support of AF's "Global Engagement" and AMC's "Rapid Global Mobility" missions.

6.3.1.1. The wartime Man-Hour Availability Factor (MAF) is based on a 6 day workweek; 10-hour day, 60-hour week, 247-hour month as opposed to the peacetime MAF of 180 hours per month (approximately a 37.2 percent increase in Man-Hour availability) IAW AFI 38-201, *Determining Manpower Requirements*.

6.3.1.2. Strat Airlift ALS, 9ALAX and 9ALBX UTCs will use up to 40 percent of airlift home-station ALS personnel to create a global engagement support structure to execute two nearly simultaneous, Major Regional Contingency strategy (Dual MRCs) (see **Table 6.1.**). After 40% of personnel deploy, the home-station (in-place) wartime MAF will then equal 82.3% of the peacetime MAF (using a MAF of a 247-hour month).

6.3.1.3. During a single MRC, approximately 40% of home-station Strat ALS personnel would be deployed. The remaining personnel would be available to support CONUS home-station (in-place) ALS requirements (see **Figure 6.1.**).

6.3.1.4. During two simultaneous (Dual) MRCs, CONUS locations should not expect any other airlift support due to anticipated task saturation and high operations tempo at home-station and OCONUS en route locations. Approximately 40% of personnel will deploy once first MRC commences. After a predetermined day, a certain percentage of assets from first MRC will swing to support the second MRC (see **Figure 6.2.**).

6.3.1.5. At overseas en route (no stage) locations where only aerial refueling (tanker) ALS personnel are deployed, aerial refueling (tanker) ALS will provide unscheduled airlift throughput support. If Strat airlift aircraft throughput rates exceed aerial refueling (tanker) or combat delivery airlift capabilities or if an en route location develops into a Strat airlift aircraft and aircrew stage, CONUS Strat airlift ALS personnel will be deployed to support aircraft throughput.

6.3.1.6. At overseas en route airlift aircraft and aircrew stage and theater recovery locations, where only Strat and combat delivery airlift ALS personnel are located, airlift ALS will provide unscheduled maintenance for aerial refueling (tanker) throughput aircraft.

6.3.1.7. At airlift AE en route stage locations, Strat and combat delivery airlift ALS personnel will deploy to support AECMs and AE aircraft configurations.

6.3.1.8. At airlift Area of Operations (AO), aerial port of embarkation (APOE) and/or aerial port of debarkation (APOD) locations, where aerial refueling (tanker) ALS and combat delivery airlift is present, aerial refueling (tanker) and combat delivery airlift ALS will provide unscheduled maintenance for Strat airlift throughput aircraft. If Strat airlift aircraft throughput rates exceed aerial refueling (tanker) or combat delivery airlift capabilities or develop into a justified Strat airlift aircraft and aircrew stage location, appropriate CONUS Strat airlift ALS staffing resources will be deployed.

6.3.1.9. If the AO is under chemical threat, Strat airlift ALS personnel will be in designated theater locations to provide immediate ACCA capability for transiting aircrew.

6.3.1.10. Deployed ALS operations will be stand alone to provide a full range of aircrew LSE support and aircraft configuration capabilities.

AMC AIRCREW LIFE SUPPORT RAPID GLOBAL MOBILITY CONCEPT OF OPERATIONS

Figure 6.1. Single MRC Staffing Employment Concept

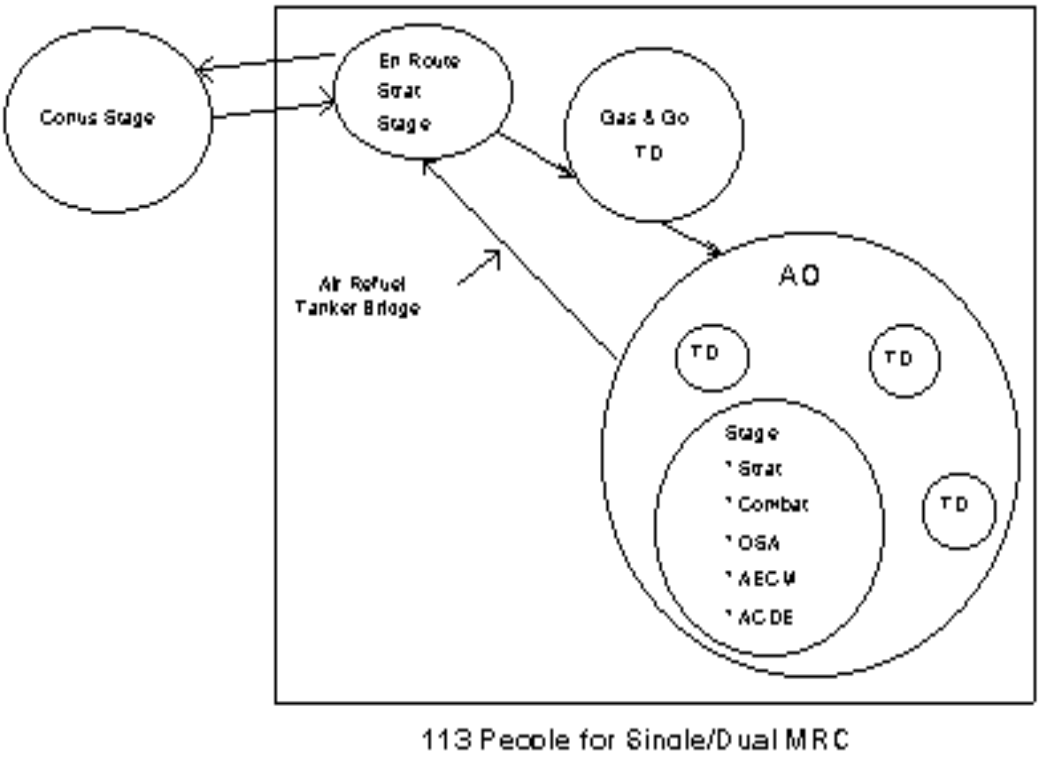
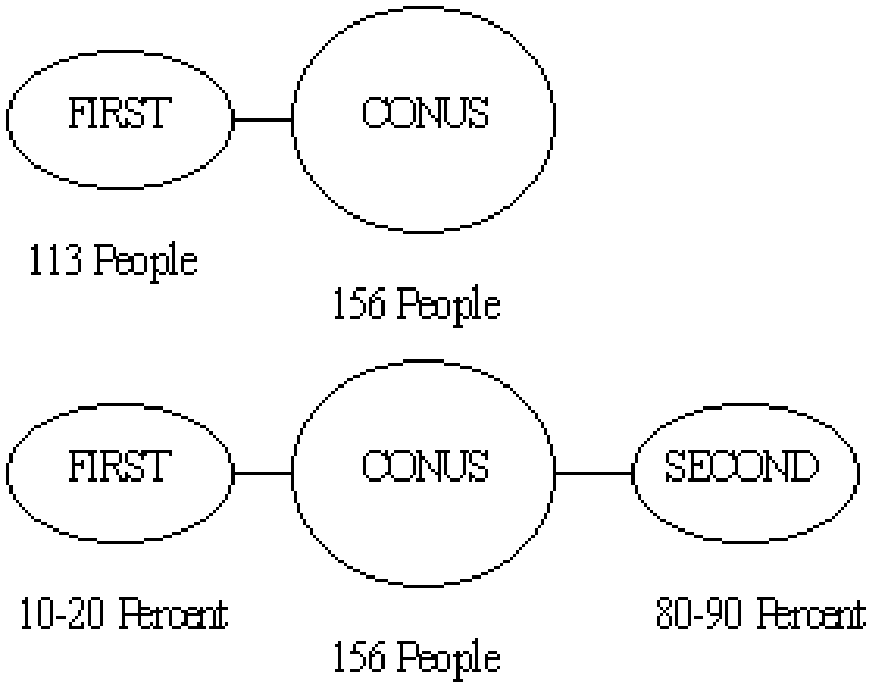


Figure 6.2. Dual MRC Staffing Employment Concept



6.3.2. Rapid Global Mobility Support Structure:

6.3.2.1. Home-Station (In-Place):

6.3.2.1.1. Aerial Refueling (Tanker) and Combat Delivery Airlift Responsibilities. ALS personnel will support home-station aircraft and aircrew as an integrated unit. Aerial refueling (tanker) home base locations may become a CONUS airlift stage location.

6.3.2.1.2. Strat Airlift Responsibilities. Scheduled/unscheduled LSE maintenance. Maintain aircraft configurations and return of theater LSE. Issue crew members' individual LSE during first employment missions. Support aircraft and aircrew and maintain war fighting capability at home-station. Back-fill/relief for in-place theater personnel. Capable of back-fill/relief (within 24 hours) to move forward to theater locations in the event of chemical warfare incidents.

6.3.2.2. En Route:

6.3.2.2.1. Aerial Refueling (Tanker) and Combat Delivery Airlift Responsibilities. ALS personnel will support deployed aircraft and aircrew as an integrated unit. Provide support for Strat airlift aircraft and aircrew, as required.

6.3.2.2.2. Strat Airlift (Overseas En route and Stage Locations) Responsibilities. Scheduled/unscheduled LSE maintenance. Maintain aircraft configurations and return of theater LSE. Storage, issue, and maintenance of crew members' individual LSE at primary stage locations. Support for additional en route stage locations should insufficient capability be available at the primary stage locations. Back-fill/relief for in-place theater personnel. Capable of 2-hour chemical warfare response time back-fill/relief. Support AECMs and missions. Provide support for aerial refueling (tanker) and combat delivery airlift aircraft, as required.

6.3.2.3. Area of Operation (AO):

6.3.2.3.1. Aerial Refueling (Tanker) and Combat Delivery Airlift Responsibilities. ALS personnel will support deployed aircraft and aircrew as an integrated unit. Provide support for Strat airlift aircraft and aircrew, as required. Immediate ACCA decontamination capabilities, as required.

6.3.2.3.2. Strat Airlift (Overseas AO Recovery Base) Responsibilities. Scheduled/unscheduled LSE maintenance. Maintain aircraft configurations and return of theater LSE. Storage, issue, and maintenance of staged crew members' individual LSE. Support AECMs and missions. Personnel will support APOE/APOD aircrew and aircraft with unscheduled/scheduled maintenance requirements, as required. Immediate ACCA decontamination capabilities. Provide support for aerial refueling (tanker) and combat delivery airlift aircraft, as required.

6.4. Deployment Operations/Mobility Preparation:

6.4.1. Configure aircraft-installed and aircrew-issued LSE, survival vests, and parachutes for contingency operations. All aircrew will have their individual LSE combat configured, prior to the first employment mission. Units supporting AE contingencies will maintain sufficient quantities of equipment to support total AE deployment responsibilities IAW AFI 11-302, Volume 1 (forthcoming) (i.e., MB-1 life preservers, oxygen masks, etc.).

6.4.2. Mobility bins and boxes will be available for storage and deployment of LSE.

6.4.3. Units will maintain sufficient quantities of technical data, tools, equipment repair parts, and supplies to support surge-type operations under bare-base conditions for a minimum of 90 days without resupply (30 days for 1st Helicopter Squadron to support classified dispersal plan). Sufficient test equipment must be available to meet deployment commitments and have current calibrations documented. In addition, units may establish War Reserve Material (WRM) for swing stock IAW AFI 25-101, *War Reserve Materiel* (*WRM*) *Program Guidance and Procedures*.

6.4.4. Spare equipment will have a minimum of 90 days serviceability prior to deployment (i.e., survival kits, parachutes, life rafts, LPUs, etc.).

6.4.5. Ensure accountable LSE designated as mobility assets are properly coded (Use Code A) on the unit's CA/CRL to ensure assets are identified for mobility. Account for deploying equipment IAW AFI 10-403 and AFMAN 23-110, Vol 2, Part 2, Chapter 22 (formerly 67-1, Vol IV, Part 2).

6.4.6. Include portable or deployable equipment racks, work benches, storage bins, computers, etc., in the contingency package (LOGDET). Facility considerations (stand-up shop) will include all LSE storage and maintenance requirements.

6.4.7. Inventory and inspect equipment stored for deployments for serviceability before and after each use, and at least once every 180 days. Use AF Form 2411, **Inspection Document**, or equivalent to document this inspection and affix form to each bin or box. Complete a detailed packing list and diagram for each bin or box. Ensure packing list is “user” friendly so all ALS personnel may find equipment and supplies stored in bin or box.

6.4.8. Prepackage equipment and supplies designated for contingency commitments to the maximum extent at all times. Secure and store assets and tone-down equipment IAW AFI 25-101. Do not use these assets as a source of supply for daily peacetime operations at home-station.

6.4.9. Establish weapons and ammunition issue, receipt, accountability, and control procedures IAW AFI 31-207, AFI 31-209, and AFH 31-223, as appropriate. Record information on AF Form 629, **Small Arms Hand Receipt**, AF Form 1297, or a master control roster. Any deviations to weapons issue procedures must be approved IAW AFI 31-207. Protect weapons under field conditions IAW AFH 31-223.

6.4.10. Strat airlift (C-5, C-17, and C-141) deployment commitments are specified by UTCs (i.e., C-5, 9ALA2 and 9ALA3, and C-141 and C-17, 9ALB2 and 9ALB3) (see **Table 6.1.**). Strat airlift ALS functions will establish mobility packages IAW AMC ALS Strat Airlift LOGDET and Packing List. This capability is intended to support AMC's "Global Reach Laydown" concept at en route support and recovery (stage) locations and should include bare-base operations (see paragraphs **6.2.3.1.1.**, **6.2.3.1.10.**, and **6.4.3.**).

6.4.11. OSA deployment operations for C-9 aircraft are specified in UTCs 3MKAD and 3MKAE. C-21 aircraft are specified in 3NGM-series UTCs. OSA DOC statements are notional and are tasked to deploy at any time (see **Table 6.2.**).

6.4.12. Combat Delivery Airlift (C-130) ALS deployment operations are included in the operation’s aviation 3NADD and 3NCC-series UTCs. Combat delivery airlift ALS sections deploy as an integrated unit (see **Table 6.3.**).

6.4.13. Aerial refueling (tanker) squadron ALS deployment operations are included in the operation's aviation 3YB-series (KC-10s) and 3YC-series (KC-135s) UTCs. Aerial refueling (tanker) squadron ALS sections deploy as an integrated unit. Superintendents/trainers are included in 9AD-series UTCs and deploy as a staff function (see **Table 6.4.**).

6.5. Deployment of Inspection Records:

6.5.1. Establish procedures to ensure an extra copy of the deploying aircraft and aircrew LSE records accompany the AFTO Form 46 on deploying aircraft. Ensure forms are sanitized (see paragraph **6.2.3.1.8.**).

6.6. Aircrew Chemical Defense:

6.6.1. Establish procedures to ensure deploying aircrew hand-carry at least one complete ACDE/AERP ensemble (mini-D-bag) in or through a CTA as specified in AMCI 10-403 (formerly AFI 10-406).

6.6.1.1. Theater commanders or HQ AMC/DOTL and the TACC may require additional ACDE/AERP equipment to be carried into the AO.

6.6.1.2. If and when required, units will develop procedures to ship the balance of the ACDE/AERP equipment assets to the deployed locations (see paragraph **4.4.2.3.**).

6.6.1.3. Carefully package ACDE/AERP equipment components to prevent damage.

6.6.2. Aircrew will be prepared to wear flight equipment IAW the deployment threat conditions in the AMC OMNIBUS OPLAN. Use these requirements during local exercises to ensure continued unit mission effectiveness.

6.6.3. Ensure deployable equipment and trained technicians are available for ALS and ACCA operations. Upon arrival at deployed location, ALS will establish contact with SRC and disaster preparedness personnel to coordinate plans for ACCA construction and operation during increased stages of alert. ACCA operations should be collocated with groundcrew contamination control area (CCA) stations whenever possible. However, separate the aircrew and groundcrew CCA functions by a minimum distance of 50 feet.

6.6.4. Should staffing requirements and mission needs dictate, deployable augmentee resources may be trained in shelter operations and ACCA processing; however, they will not be trained or assigned in a capacity requiring ALS technical expertise (AFSC 1T1X1).

6.6.5. Aircrew ACDE/AERP ensemble sizes. ALS units must deploy with crew members' individual ACDE/AERP ensemble size information to give ALS personnel the capability to requisition sized items as necessary for deployed aircrew. Units may develop local procedures to provide crew members their individual size information to have on their person while deployed.

6.7. ALS Staffing:

6.7.1. HQ AMC/DOTL is the FM for ALS staffing. ALS superintendents/NCOICs are responsible for UTC staffing and unit mission contingency operations.

6.7.2. When peacetime or exercise scenarios call for UTC adjustments, **.**65 staffing times the number of deployable aircraft may be used for active duty units as a guide dependent upon hours of operation, number of aircraft and aircrew, and equipment at deployed location. Deploy one 7-skill level ALS technician (preferably a master or technical sergeant) or a Red X certified SSgt ALS supervisor when five or more aircraft are tasked.

6.7.3. AMC UTCs tasked against ARC units identify mobilization staffing requirements. ANGRC/XOOSF and HQ AFRC/DOTSL will determine staffing requirements needed for in-place mobilization and for managing, supporting, and training Guard and Reserve units in a nonmobilized status IAW AFI 38-204.

Table 6.1. STRATEGIC (STRAT) AIRLIFT ALS UTCS

UNIT	MAJCOM	BASE	AIRCRAFT TYPE	UTC 1	DEPLOYABLE PERSONNEL
60 OSS SQ	AMC	Travis	C-5	9ALA3	12
			C-141	9ALB3	13
62 OSS SQ	AMC	McChord	C-141	9ALB3	13

UNIT	MAJCOM	BASE	AIRCRAFT TYPE	UTC 1	DEPLOYABLE PERSONNEL
305 OSS SQ	AMC	McGuire	C-141	9ALB3	13
436 OSS SQ	AMC	Dover	C-5	9ALA3	12
437 OSS SQ	AMC	Charleston	C-141/C-17	9ALB3	13
Subtotal	**AMC**				**76**
137 ALF SQ	ANG	Stewart	C-5	9ALA3	5
155 ALF SQ	ANG	Memphis	C-141	9ALB2	4
183 ALF SQ	ANG	Allen C. Thomp-son	C-141	9ALB2	4
Subtotal	**ANG**				**13**
433 OSS FT	AFRC	Kelly	C-5	9ALA2	3
439 OSS SQ	AFRC	Westover	C-5	9ALA3	5
445 OSS FT	AFRC	Wright-Patterson	C-141	9ALB3	6
452 OSS SQ	AFRC	March	C-141	9ALB3	6
459 OSS FT	AFRC	Andrews	C-141	9ALB2	4
Subtotal	**AFRC**				**24**
Total	**AMC + ARC**				**113**

NOTES:

1. UTCs are nonstandard and are multi-unit sourceable to support contingencies.

Table 6.2. OPERATIONAL SUPPORT AIRLIFT (OSA) ALS UTCS

UNIT	MAJCOM	BASE	AIRCRAFT-TYPE	UTC	DEPLOYABLE PERSONNEL
11 ALF SQ	AMC	Scott	C-9	3MKAD 3MKAE	2 3
457 ALF SQ	AMC	Andrews	C-21	3NGMA	1
54 ALF FLT 458 ALF SQ	AMC	Maxwell Scott	C-21	3NGMA 3NGMB	1 1
12 ALF FLT 311 ALF FLT	AMC	Langley Offutt	C-21	3NGMD	2
47 ALF FLT 84 ALF FLT 332 ALF FLT	AMC	Wright-Patterson Peterson Randolph	C-21	N/A	0
Total	**AMC**				**14**

Table 6.3. COMBAT DELIVERY AIRLIFT (C-130) ALS UTCS

UNIT	MAJCOM	BASE	AIRCRAFT-TYPE	UTC	DEPLOYABLE PERSONNEL
2 ALF SQ	AMC	Pope	C-130	3NCCB	8
39 ALF SQ		Dyess		3NCC9	8
40 ALF SQ		Dyess		3NCC9	8
41 ALF SQ		Pope		3NCCB	8
50 ALF SQ		Little Rock		3NCC2	8
61 ALF SQ		Little Rock		3NCCH	9
Subtotal	**AMC**				**52**

UNIT	MAJCOM	BASE	AIRCRAFT-TYPE	UTC	DEPLOYABLE PERSONNEL
95 ALF SQ	AFRC	Gen Mitchell IAP	C-130	3NCC8	7
96 ALF SQ		Minn-St Paul IAP		3NCCJ	8
327 ALF SQ		Willow Grove		3NADD	5
328 ALF SQ		Niagara Falls IAP		3NCC3	8
357 ALF SQ		Maxwell		3NCC3	8
700 ALF SQ		Dobbins		3NCC3	8
731 ALF SQ		Peterson		3NCC1	8
757 ALF SQ		Youngstown-Warren		3NCC3	8
758 ALF SQ		Youngstown-Warren		3NCC3	8
773 ALF SQ		Pittsburgh IAP		3NCC3	8
815 ALF SQ		Keesler		3NCCJ	8
Subtotal	**AFRC**				**84**

UNIT	MAJCOM	BASE	AIRCRAFT-TYPE	UTC	DEPLOYABLE PERSONNEL
105 ALF SQ	ANG	Nashville IAP	C-130	3NCC8	7
109 ALF SQ		Minn-St Paul IAP		3NCCJ	8
115 ALF SQ		Channel Islands		3NADD	5
130 ALF SQ		Yeager Aprt		3NCC3	8
135 ALF SQ		Baltimore		3NCCJ	8
139 ALF SQ		Schenectady		3NCC7	8
142 ALF SQ		Wilmington		3NCC3	8
143 ALF SQ		Quonset St Aprt		3NCCJ	8
156 ALF SQ		Charlotte Douglas		3NCC8	7
158 ALF SQ		Savannah IAP		3NCC3	8
164 ALF SQ		Mansfield Lahm		3NCC3	8
165 ALF SQ		Standiford Fld		3NCC8	7
167 ALF SQ		Martinsburg		3NCC8	7
169 ALF SQ		Greater Peoria		3NCCJ	8
171 ALF SQ		Selfridge		3NCCJ	8
180 ALF SQ		Rosecrans Memorial		3NCC3	8
181 ALF SQ		Dallas		3NCC3	8
185 ALF SQ		Will Rogers Aprt		3NCC3	8
187 ALF SQ		Cheyenne		3NCC3	8
189 ALF SQ		Boise Air Term’l		3NCCA	4
192 ALF SQ		Reno Cannon IAP		3NCC6	8
Subtotal	**ANG**				**157**
Total	**AMC + ARC**				**293**

Table 6.4. AERIAL REFUELING (TANKER) ALS UTCS

UNIT	MAJCOM	BASE	AIRCRAFT TYPE	UTC	DEPLOYABLE PERSONNEL
60 OG	AMC	Travis	KC-10	3YBAB	1
305 OG		McGuire		3YBAJ	5
---		---		---	---
305 OG		McGuire		3YBAF	3
92 ARW	AMC	Fairchild	KC-135	3YCA4	4
				3YCF3	2
				3YCFF	10
				3YCFL	10
				3YCSG	5
				9ADHH	2
22 ARW	AMC	McConnell	KC-135	3YCA4	4
319 ARW		Grand Forks		3YCFF	10
				3YCFL	10
				3YCSG	5
				9ADHH	2
6 ARW	AMC	MacDill	KC-135	3YCFL	10
				3YCSG	5
				9ADHH	2
19 ARG	AMC	Robins	KC-135	3YCFF	10
				3YCSG	5
				9ADHH	2
Subtotal	**AMC**				**136**
72 ARF SQ	AFRC	Grissom	KC-135	3YCAR	7
74 ARF SQ				3YCSG	5
314 ARF SQ	AFRC	McClellan	KC-135	3YCAE	7
336 ARF SQ		March		3YCSG	5
63 ARF SQ	AFRC	Selfridge	KC-135	3YC8E	7
				3YCSG	5

UNIT	MAJCOM	BASE	AIRCRAFT TYPE	UTC	DEPLOYABLE PERSONNEL
465 ARF SQ	AFRC	Tinker	KC-135	3YC8R 3YCSG	7 5
434 ARW 452 ARW 507 ARW 916 ARW 927 ARW 940 ARW	AFRC	Grissom March Tinker Seymour Johnson Selfridge McClellan	KC-135	9ADHH	2
Subtotal	**AFRC**				**54**
108 ARF SQ 116 ARF SQ 117 ARF SQ 132 ARF SQ 141 ARF SQ 146 ARF SQ 147 ARF SQ 151 ARF SQ 150 ARF SQ 191 ARF SQ 197 ARF SQ	ANG	O'Hare Fairchild Forbes Bangor McGuire Greater Pittsburg Greater Pittsburg McGhee-Tyson McGuire Salt Lake City Sky Harbor	KC-135	3YCAE 3YCSG	7 5
106 ARF SQ 136 ARF SQ 173 ARF SQ 196 ARF SQ	ANG	Birmingham Niagara Falls Lincoln March	KC-135	3YC8R 3YCSG	7 5
126 ARF SQ 133 ARF SQ 145 ARF SQ 153 ARF SQ 166 ARF SQ	ANG	Gen Mitchell IAP Pease Rickenbacker Key Field Rickenbacker	KC-135	3YC9R 3YCSG	7 5

UNIT	MAJCOM	BASE	AIRCRAFT TYPE	UTC	DEPLOYABLE PERSONNEL
101 ARW	ANG	Bangor	KC-135	9ADHH	2
107 ARW		Niagara Falls			
108 ARW		McGuire Birmingham			
117 ARW		Rickenbacker			
121 ARW		O'Hare			
126 ARW		Gen Mitchell IAP			
128 ARW		McGhee-Tyson Fair-child			
134 ARW					
141 ARW		Salt Lake City Lincoln			
151 ARW		Pease			
155 ARW		Sky Harbor March			
157 ARW		March			
161 ARW		Greater Pittsburg			
163 ARW		Key Field			
171 ARW		Forbes			
186 ARW					
190 ARW					
Subtotal	**ANG**				**174**
Total	**AMC + ARC**				**364**

GARY A. VOELLGER, Major General, USAF
Director of Operations

Attachment 1

GLOSSARY OF REFERENCES, ABBREVIATIONS, ACRONYMS, AND TERMS

Section A--References

LIST OF PUBLICATIONS

The following publications are required to effectively manage an ALS Program. These publications are listed as a reference guide only and is not all-inclusive. LSOs, superintendents, NCOICs, supervisors, and technicians should possess a working knowledge of these publications and supplements thereto, if applicable.

PUBLICATION TITLE

AFIND 2 *Numerical Index of Standard and Recurring Air Force Publications*

AFIND 8 *Numerical Index of Specialized Education/Training Publications*

AFIND 9 *Numerical Index of Departmental Forms*

AFIND 10 *Management Control and Authorization Program For Tables of Allowance (TA) and Allowance Source Codes (ASC) for USAF Activities*

AFIND 17 Index of *Air Force Occupational Safety and Health (AFOSH) Standards, Department of Labor Occupational Safety and Health (OSHA) Standards, and National Institute for Occupational Safety and Health (NIOSH) Publications*

AFIND 18 *Index of Air Force Manpower Standards*

AFI 10-201 *Status of Resources and Training System*

AFI 10-212 *Air Base Operability* (formerly AFR 360-1)

AFMAN 10-401 *Operation Plan and Concept Plan Development and Implementation*

AFI 10-402 *Mobilization Planning* (formerly AFR 28-5)

AFI 10-403 *Deployment Planning* (formerly AFR 28-4)

AFI 10-601 *Mission Needs and Operational Requirements Guidance and Procedures*

AFI 10-1101 *Operations Security*

AFI 11-206 *General Flight Rules* (projected to be AFI 11-202, Volume 3, *General Operations Procedures*)

AFPD 11-3 *Life Support*

AFI 11-301 *Aircrew Life Support Program*

AFI 11-302, Vol 1 *C-5, C-9, C-17, C-20, C-21, C-27, C-130, C-141, KC-10 and C/KC-135, Maintenance and Configuration Requirements for Aircrew and Aircraft-Installed Life Support Equipment (LSE)* (forthcoming)

AFI 11-401, Chapter 4 *Aircrew Training Program* (projected to be AFI 11-202, Volume 1, *Training*)

AFI 11-403 *Aerospace Physiological Training Program* (formerly AFR 50-27)

AFI 14-105 *Unit Intelligence Mission and Responsibilities*

AFPD 16-8 *Arming of Aircrew, Mobility, and Oversea Personnel*

AFI 21-101 *Maintenance Management of Aircraft*

AFI 21-103 *Equipment Inventory, Status, and Utilization Reporting* (formerly AFR 66-12)

AFI 21-112 *Aircraft Egress and Escape Systems* (formerly AFR 66-51)

AFI 21-201 *Inspection, Storage, and Maintenance of Non-Nuclear Munitions*

AFI 21-202 *Combat Ammunition System Procedures*

AFI 21-203 *Deployable Ammunition Operations Procedures*

AFI 21-208 *Munitions Forecast, Allocation, and Buy Budget Processes*

AFCAT 21-209 *Ground Munitions*

AFPD 21-3 *Technical Orders*

AFMAN 23-110, Vol 2, Part 2 *USAF Standard Base Supply System* (formerly AFM 67-1, Vol II, Part 2)

AFMAN 23-110, Vol 2, Part 13 *Standard Base Supply Customer's Procedures* (formerly AFM 67-1, Vol II, Part 13)

AFI 23-111 *Management of Government Property in Possession of the Air Force*

AFMAN 23-220 *Reports of Survey for Air Force Property* (formerly AFR 68-1)

AFJMAN 24-204 *Preparing Hazardous Materials for Military Air Shipments*

AFI 24-301 *Vehicle Operations*

AFI 24-302 *Vehicle Maintenance Management* (formerly AFM 77-310, V2)

AFMAN 24-307 *Procedures for Vehicle Maintenance Management* (formerly AFM 77-310, V2)

AFMAN 24-309 *Vehicle Operations* (formerly AFM 77-310, Vol 1)

AFI 25-101 *War Reserve Materiel (WRM) Program Guidance and Procedures*

AFI 25-201 *Support Agreements Procedures* (formerly AFR 11-4)

AFI 31-101, Vol 1 *The Air Force Physical Security Program*

AFI 31-207 *Arming and Use of Force by Air Force Personnel* (formerly AFR 125-26)

AFI 31-209 *The Air Force Resource Protection Program* (formerly AFR 125-37)

AFH 31-223 *The Air Force Resource Protection Program*

AFH 32-1084 *Facility Requirements*

AFI 32-2001 *The Fire Protection Operations and Fire Prevention Program*

AFI 32-4001 *Disaster Preparedness Planning and Operations*

AFI 32-4005 *Personnel Protection and Attack Actions*

AFI 34-217 *Air Force Aero Club Program*

AFI 36-2101 *Classifying Military Personnel (Officers and Airmen)* (formerly AFR 35-1)

AFMAN 36-2108 *Airman Classification*

AFI 36-2201 *Developing, Managing, and Conducting Training* (formerly AFR 50-23)

AFI 36-2209 *Survival and Code of Conduct Training* (formerly AFR 50-3)

AFI 36-2217 *Munitions Requirements for Aircrew Training* (formerly AFR 50-21)

AFCAT 36-2223 *USAF Formal Schools*

AFI 36-2226 *Combat Arms Training and Maintenance (CATM) Program*

AFMAN 36-2236 *Guidebook for Air Force Instructors* (formerly AFM 50-62)

AFMAN 36-2241, Vol 1 *Promotion Fitness Examination Study Guide*

AFMAN 36-2241, Vol 2 *United States Air Force Supervisory Examination Study Guide*

AFMAN 36-2245 *Managing Career Field Education and Training*

AFPAM 36-2246 *Aircrew Survival* (formerly AFP 64-5)

AFI 36-2403 *The Enlisted Evaluation System* (formerly AFR 39-62)

AFI 36-2803 *The Air Force Awards and Decorations Program* (formerly AFR 900-48)

AFI 36-2807 *Headquarters United States Air Force Deputy Chief of Staff Plans and Operations Annual Awards Program* (formerly AFRs 900-51 and 900-62)

AFI 36-2903 *Dress and Personal Appearance of Air Force Personnel*

AFI 36-2923 *Aeronautical, Duty and Occupational Badges*

AFI 37-122 *Air Force Records Management Program*

AFI 37-124 *The Information Collections and Reports Management Program; Controlling Internal, Public, and Interagency Air Force Information Collections*

AFH 37-137 *The Tongue and Quill*

AFI 37-138 *Records Disposition--Procedures and Responsibilities*

AFMAN 137-139 *Records Disposition Schedule*

AFI 37-160, Vol 1 *The Air Force Publications and Forms Management Programs--Developing and Processing Publications*

AFI 38-101 *Air Force Organization*

AFI 38-201 *Determining Manpower Requirements*

AFI 38-204 *Programming USAF Manpower*

AFI 38-401 *The Air Force Suggestion Program* (formerly AFR 900-4)

AFI 41-302 *Aeromedical Evacuation Operations and Management*

AFI 48-101 *Aerospace Medical Operations*

AFI 48-116 *Food Safety Program*

AFI 48-123 *Medical Examination and Standards*

AFR 64-4V1 *Survival Training* (projected to be AFMAN 36-2216)

AFP 64-15 *Survival and Emergency Uses of the Parachute* (projected to be AFPAM 36-2242)

AFM 67-1, Vol I, Part 1 *Basic AF Supply Procedures* (projected to be AFMAN 23-110, Vol 1 Part 1)

AFM 67-1, Vol IV, Part 1 *Air Force Equipment System Policy and Procedures* (projected to be AFMAN 23-110, Vol 4, Part 1)

AFI 90-201 *Inspector General Activities* (formerly AFR 123-1)

AFI 90-501 *Criteria For Air Force Assessments*

AFMAN 91-201 *Explosives Safety Standards*

AFI 91-202 *The US Air Force Mishap Prevention Program* (formerly AFR 127-2)

AFI 91-204 *Safety Investigations and Reports* (formerly AFR 127-4)

AFI 91-205 *Non-Nuclear Munitions Safety Board* (formerly AFR 127-16)

AFPAM 91-211 *US Air Force Guide to Mishap Investigations* (forthcoming) (formerly AFP 127-1)

AFI 91-213 *Operational Risk Management Program*

AFPAM 91-214 *Managing Risk and Operational Decision Making* (forthcoming)

AFI 91-301 *Air Force Occupational and Environmental Safety, Fire Prevention, and Health (AFOSH) Program* (formerly AFR 127-12)

AFI 91-302 *Air Force Occupational Environmental Safety, Fire Protection, and Health (AFOSH) Standards* (formerly AFR 8-14)

AFP 170-1 *Resource Manager's Handbook* (projected to be AFPAM 65-605)

AFMS 13C1 *Current Operations Flight*

AFMS 31C1 *Life Support Section*

AFOSH STD 48-1 *Respiratory Protection Program*

AFOSH STD 48-8 *Controlling Exposures to Hazardous Materials*

AFOSH STD 48-19 *Hazardous Noise Program*

AFOSH STD 48-21 *Hazard Communication* (formerly AFOSH STD 161-21)

AFOSH STD 91-66 *General Industrial Operations*

AFOSH STD 127-22 *Walking Surfaces, Guarding Floor and Wall Openings and Holes, Fixed Industrial Stairs, and Portable and Fixed Ladders*

AFOSH STD 127-31 *Personnel Protective Equipment*

AFOSH STD 127-32 *Emergency Shower and Eyewash Units*

AFOSH STD 127-43 *Flammable and Combustible Liquids*

AFOSH STD 127-45 *Hazardous Energy Control and Mishap Prevention Signs and Tags*

AFOSH STD 127-46 *Materials Handling and Storage Equipment*

AFOSH STD 127-56 *Fire Protection and Prevention*

AFOSH STD 127-67 *Liquid Nitrogen and Oxygen Safety*

AFOSH STD 127-68 *Chemical Safety*

AFOSH STD 127-100 *Aircraft Flight Line - Ground Operations and Activities*

AFOSHTD 161-21-1W *Department of Defense, Federal Hazard Communication Training Program, Student's Workbook*

AMCIND 2 *Numerical Index of Air Mobility Command Standard Publications and Recurring Periodicals*

AMCIND 9 *Numerical Index of AMC/Multi-Command Forms*

AMCH 10-7 *Survive To Operate*

AMCI 10-204 *Air Mobility Command Exercise Program*

AMCI 10-401 *Unit Type Code Management*

AMCI 10-403 *Air Mobility Command (AMC) Force Deployment* (formerly AFI 10-406)

AMCI 10-450, Vol 4 *Support of Alert Forces*

AMCI 11-301 *Aircrew Life Support (ALS) Program*

AMCI 21-101 *Maintenance Management Policy*

AMCI 24-101, Vol 11 *Cargo and Mail*

AMCI 24-301 *AMC Vehicle and Equipment Appearance Standards*

AMCPAM 31-1 *The Air Mobility Command Arming Policy*

AMCPAM 36-4 *Air Base Operability Training*

AMCI 36-2806 *Directorate of Operations Award Program Management*

AMCI 37-104 *Address Indicating Groups (AIG)*

AMCI 65-601 *AMC Budget Management for Operations*

AMCI 90-201 *The Inspection System*

AMCPAM 90-202 *Operational Readiness Inspection (ORI) Guide*

AMCRP 11-11 *AMC Life Support Newsletter*

AMCVA 11-302 *Emergency Passenger Oxygen System (EPOS)*

AMCVA 11-303 *Aircrew Chemical Defense Ensemble Donning Checklist (ACDE & AERP)* (formerly AMCVA 36-2206)

AMCVA 36-2205 *Instructions for Use of Emergency Oxygen Equipment*

MCI 10-202 *Aircrew Training* (applicable MDS volumes) (projected to be AFI 11-2MDS-series, Volume 1)

CFETP 1T0X1, Parts 1-2*A* *FSC 1T0X1 (121X0) Survival Evasion, Resistance, Escape (SERE) Training Instructor Career Field Education and Training Plan*

CFETP 1T1X1, Parts I-II *AFSC 1T1X1 Aircrew Life Support Career Field Education and Training Plan*

AS 016 *Special Purpose Clothing and Personal Equipment*

AS 450 *Personal/Life Support Equipment*

AS 660 *Equipment Allowances for Non-Weapon Systems Communications Requirements*

LIST OF TECHNICAL ORDERS

The following Air Force TOs pertain to the inspection, maintenance, storage, and use of personal flying and survival equipment maintained by AMC ALS personnel. Use of this list is for reference only and is not all-inclusive. Maintain a current list of all applicable TOs and TCTOs and ensure TCTO-series are on order. ALS will maintain specific TOs for items authorized within this instruction.

TO/TCTO-SERIESTECHNICAL ORDER TITLE

0-1-01 Numerical Index

0-1-02 General Technical Orders

0-1-11 Armament Equipment

0-1-12 Airborne Electronic Equipment

0-1-13 Aircraft Furnishings and In-flight Feeding Equipment, Cargo Loading, Aerial Delivery and Recovery Equipment, Aircraft Fire Detection and Extinguishing Equipment

0-1-14 Deceleration Devices and Personal and Survival Equipment

0-1-15 Aircraft and Missile Temperature Control, Pressurizing, Air Conditioning, Heating, Ice Eliminating, and Oxygen Equipment

0-1-31-4 Ground Radio Electronic Equipment

0-1-33-1 General Purpose Test Equipment

0-1-33-2 Inspection, Laboratory and Special Purpose Test Equipment (Aircraft, Aircraft Accessories, Automatic Flight Control Systems, Aircraft Engines)

0-1-33-3 Special Purpose Test Equipment (Armament, Automotive, Electrical, and Electronic)

0-1-40 Commercial Air Conditioning, Heating, Plumbing, Refrigerating, Ventilating, and Water Treating Equipment

0-1-42 Coating, Cleaning and Sealing Compounds and Fuels, Gases, Lubricants, Chemicals and Materials

00-5-1/AMC1 AF Technical Order Systems

00-5-2/AMC1 Technical Order Distribution System

00-5-2-2 Automated Technical Order Management System (ATOMS) 4.2 User Manual

00-5-2-102 ATOMS Application Software

00-5-15 Air Force Time Compliance Technical Order System

00-20-1/AMC1 Preventive Maintenance Program General Policy Requirements and Procedures

00-20-5/AMC1 Aircraft, Drone, Aircrew Training Devices, Engines, and Air-Launched Missile Inspections, Flight Reports, and Supporting Maintenance Documents

00-20-7/AMC1 Inspection System, Documentation, and Status Reporting For Support and Training Equipment

00-20-9 Forecasting Replacement Requirements for Selected Calendar and Hourly Time-Change Items

00-20-9-1 Forecasting Replacement Requirements for Cartridge/Propellant Actuated Devices (CAD/PAD)

00-25-06-2-1 Intermediate Maintenance 412A Survival/Life Support System Equipment Work Unit Code Manual

00-25-213 Transportation, Storage, Testing, Shelf Life, and Quantity Unit Pack Requisitioning of Dry Batteries

00-25-241 Parachutes Logs and Records

00-35A-39 Instructions for Procurement, Issue, Use, and Maintenance of Medical Kits

00-35D-54 USAF Materiel Deficiency Reporting and Investigating System

00-110N-2 Radioactive Waste Disposal

00-110N-3 Requisition, Handling, Storage, and Identification of Radioactive Material

1-1-641 Minimum Equipment Requirements for Overwater, Arctic, and Desert-Tropic Flights

11A-1-10 General Instructions Munitions Serviceability Procedures

11A-1-46 Fire Fighting Guidance, Transportation, and Storage Management Data

11A10-26-7 Storage and Maintenance Procedures Pyrotechnic Signals

11A10-30-7 Storage and Maintenance Procedures Pyrotechnic Fusees and Fire Starters

11C15-1-3 Chemical Warfare Decontamination, Detection and Disposal of Decontamination Agents

11D1-1-111 Operation and Maintenance Instructions Decontamination Kit, Personal, M258A1

11D1-1-131 Operator’s Manual Decontamination Kit, Skin: M291

11P-1-7 Storage and Maintenance Procedures Cartridges for Aircrew Escape Systems

12S10-2AVS6-12 General Support Maintenance Manual, Aviator’s Night Vision Imaging System AN/AVS-6(V)1 and AN/AVS-6(V)2

12S10-2AVS6-21 Operational Support and Intermediate Maintenance Manual for Aviator’s Night Vision Imaging System AN/AVS-6(V)1

12S10-2AVS9-1 Operator’s and Organizational Maintenance Manual, Image Intensifier Set, Night Vision, Type AN/AVS-9(V)

12S10-2AVS9-2 Maintenance Manual, Intermediate with Illustrated Parts Breakdown, Image Intensifier Set, Night Vision, Type AN/AVS-9(V)

13A1-1-1 Repair, Cleaning, Inspection, and Testing of Aircraft Safety Belts, Shoulder Harness, and Miscellaneous Personnel Restraint Equipment

14-1-4 Identification Marking of Clothing and Personal Type Flying Equipment

14D1-1-1 Styles of Parachutes To Be Used In Various Type Aircraft

14D1-1-2 Cleaning of Parachute Assemblies

14D1-2 TCTO Series

14D1-2-1 Personnel Parachutes

14D2-8 TCTO Series

14D2-8-1 Use, Operation Inspection, Arming and Disarming Instructions With Illustrated Parts Breakdown Automatic Parachute Ripcord Release P/N 6010100 - Series

14D3-11 TCTO Series

14D3-11-1 Operation, Inspection, Maintenance, and Packing Instructions for Emergency Personnel Recovery Parachute (Chest, Back, Seat Style, and Torso Harness)

14P3-1 TCTO Series

14P3-1-112 Maintenance Instructions Nomex® Flight Gear, Coveralls, Gloves, Jackets

14P3-1-121 Custom Fitting Procedures for Flying Helmet Assemblies, HGU-55/P

14P3-1-131 Operation and Maintenance Instructions With Illustrated Parts Breakdown Aircrew Chem-Defense Ensemble

14P3-1-141Operation and Maintenance Instructions Groundcrew Chem-Defense Ensemble

14P3-1-151Operation and Maintenance Instructions With Parts Breakdown Aircrew Eye/Respiratory Protection (AERP) Equipment

14P3-4 TCTO Series

14P3-4-151 Operation and Maintenance Instructions With Illustrated Parts Breakdown HGU-55/P Flyer's Helmet

14P3-4-181 Operation and Maintenance Instructions With Illustrated Parts Breakdown SPH-4AF Helmet

14P3-5-61 Operation, Service, and Maintenance Instructions Quick-Donning Anti-Exposure Flying Coverall Type CWU-16/P

14P3-9 TCTO Series

14P3-9-12 Service Instructions Fixed Filter Nuclear Flash Blindness Protective Helmet Visors and Goggle Lenses

14P3-9-21 Operation and Maintenance Instructions With Illustrated Parts Breakdown Goggles, Flyers, Flash Blindness Type EEU-2/P and EEU-2A/P

14P4-1-151 Chemical-Biological Canisters and Filter Element Procedures

14P4-15-1 Operation and Maintenance Instructions With Illustrated Parts Breakdown Chemical-Biological Mask Type MCU-2A/P

14S-1 TCTO Series

14S-1-102 Maintenance Instructions With Parts Breakdown USAF Flotation Equipment

14S1-3 TCTO Series

14S1-3-51 Base Assembly, Use and Maintenance of Survival Kits

14S1-4-22 Operation, Maintenance and Disposition Instructions Desalter Kit Type MK-2

14S3-1 TCTO Series

14S3-1-3 Type and Number of Individual Survival Kit Containers and Life Rafts To Be Used In Various Type Aircraft

14S3-7 TCTO Series

14S3-7-3-2 Intermediate Maintenance Instructions With Illustrated Parts Breakdown Life Raft Assembly, Part Number 60485-101 (C-17 Forty-Six Person Life Raft)

14S3-8-2-1 Aviation Crew Systems Inflatable Survival Equipment (LRU-14A/A Life Raft)

14S5-27-1 Operation and Maintenance Instructions With Illustrated Parts Breakdown Helicopter Emergency Egress Device (HEED), SRU-36/P

14S5-31-2 Intermediate Maintenance Instructions With Illustrated Parts Breakdown Emergency Oxygen Mask Container (C-17 Aircraft Passenger Oxygen Masks)

14S6-3 TCTO Series

14S6-3-1 Operation and Maintenance With Parts List Forest Penetrator, Rescue Seat Assembly

14S10-2-2v Operation and Service Distress Marker Light, Part No. SDU-5/E

15X-1-1 Maintenance Instructions, Oxygen Equipment

15X1-2-2-1 Operation and Maintenance Instructions with Illustrated Parts Breakdown, Intermediate Maintenance, Portable Oxygen Unit, P/N 802501-15

15X1-4-2-4 Illustrated Parts Breakdown Types MD-1, MD-2, CRU-10/P and H-2 Emergency Bail-Out Oxygen Cylinders

15X1-4-2-12 Operation and Field Maintenance Instructions Emergency Bail-Out Oxygen Cylinder Assemblies

15X5-2-4-1 Operation and Maintenance Instructions Mask, Passenger Type and Emergency Passenger Oxygen System (EPOS), 289-601AF Kit

15X5-3-6-1 Operation, Fitting, Inspection and Maintenance Instructions With Illustrated Parts Breakdown MBU-12/P Pressure-Demand Oxygen Mask

15X5-4-1-101 Operation, Maintenance and Inspection Instructions Oxygen Mask to Regulator Connector Assemblies

15X5-4-4-12 Intermediate Maintenance Instructions Pressure-Demand Breathing Oxygen Mask USAF Type MBU-5/P

15X5-4-4-13 Overhaul Instructions With Illustrated Parts Breakdown Pressure-Demand Breathing Oxygen Mask USAF Type MBU-5/P

15X5-4-5-3 Overhaul Instructions With Illustrated Parts Breakdown Mask Assembly Oxygen Breathing Part No. 249-350 and 249-355

15X5-4-10-1 Operational and Maintenance Instructions With Illustrated Parts Breakdown for Mask Assembly, Folding, Quick-Don Part No. 358-1506V or 358-1506V-1

15X5-5-3-1 Operation and Maintenance Instructions With Illustrated Parts Breakdown Fire Fighters and Oxygen Smoke Mask Assemblies

31R2-1-251 Transmission of False Distress Signals on Emergency Frequencies

31R2-2PR TCTO Series

31R2-2PR-101 Operation, Organizational, and Field Maintenance Instructions Radio Set AN/PRC-90 and Radio Test Set AN/PRM-32

31R2-2PRC90-1 Operation and Maintenance Instructions Radio Set AN/PRC90-1 and Radio Set AN/PRC90-2

31R2-2PRC90-2 Intermediate Maintenance Instructions Radio Set AN/PRC90-1 and Radio Set AN/PRC90-2

31R4-2URT33 TCTO Series

31R4-2URT33-2 Maintenance Instructions Radio Beacon Set AN/URT-33C/M

31R4-2URT33-11 Operation and Maintenance Instructions With Parts Breakdown Radio Beacon Set AN/URT33B.1 and AN/URT-33C/M

33A1-12-1109-1 Operation Instructions Maintenance Instructions Illustrated Parts Breakdown Test Set, Battery BT-2B

33D2-10-10 TCTO Series

33D2-10-10-51 Operation and Maintenance Instructions With Illustrated Parts Breakdown Oxygen Mask, Headset, Microphone, and EEU-2P Goggles Tester

33D2-10-63-1 Operation and Maintenance Instructions With Illustrated Parts Breakdown Oxygen Leakage Regulator Tester, Model MH-2

33D7-71-42-1 Operation and Maintenance Instructions With Illustrated Parts Breakdown Radio Test Set Model ACR/TS-24(B)

40W4-15-1 Operation and Maintenance Instructions With Illustrated Parts Breakdown Manual Reverse Osmosis Desalinator MROD-35-LA-1

40W4-16-1 Operation and Maintenance Instructions With Illustrated Parts Breakdown Manual Reverse Osmosis Desalinator MROD-06-LL-1

42C-1-12 Quality Control of Chemicals

SB 3-30-2 Army Service Bulletin (SB), Serviceability Status of Canister and Filter Element Lots

Section B--Abbreviations and Acronyms

AB—Air Base

AC—Aircraft Commander

ACCA—Aircrew Contamination Control Area

ACDE—Aircrew Chemical Defense Ensemble

ACDT—Aircrew Chemical Defense Training

ACDTQT—Aircrew Chemical Defense Task Qualification Training

AE—Aeromedical Evacuation

AECM—Aeromedical Evacuation Crew Member

AEOO—Aeromedical Evacuation Operations Officer

AERP—Aircrew Eye/Respiratory Protection

AFCAT—Air Force Catalog

AFH—Air Force Handbook

AFI—Air Force Instruction

AFIND—Air Force Index

AFJMAN—Air Force Joint Manual

AFMAN—Air Force Manual

AFMS—Air Force Manpower Standard

AFORMS—Air Force Operations Resource Management System

AFOSH—Air Force Occupational, Safety, and Health

AFPAM—Air Force Pamphlet

AFPD—Air Force Policy Directive

AFRC—Air Force Reserve Command

AFSC—Air Force Specialty Code

AIG—Address Indicating Group

ALS—Aircrew Life Support

ALSCT—ALS Continuation Training

ALSMS—Automated Life Support Management System

AMCEPL—AMC Electronic Publications Library

AMC1—AMC Supplement 1

AMCI—Air Mobility Command Instruction

AMCH—Air Mobility Command Handbook

AMCIND—Air Mobility Command Index

AMCPAM—Air Mobility Command Pamphlet

AMCVA—Air Mobility Command Visual Aid

AMW—Air Mobility Wing

ANG—Air National Guard

ANGIND—Air National Guard Index

ANGRC—Air National Guard Readiness Center

AO—Area of Operation

APOD—Aerial Port Of Debarkation

APOE—Aerial Port Of Embarkation

ARC—Air Reserve Component

ARW—Air Refueling Wing

AS—Allowance Standard

ATOMS—Automated Technical Order Management System

AW—Airlift Wing

BCC—Base Communications Center

BOI—Basis Of Issue

CAFSC—Control AFSC

CATM—Combat Arms Training and Maintenance

CCA—Contamination Control Area

CDC—Career Development Course

CDTQT—Chemical Defense Task Qualification Training

CFETP—Career Field Education and Training Plan

CoCCT—Code of Conduct Continuation Training

CONUS—Continental United States

CSAR—Combat Search-And-Rescue

CST—Combat Survival Training

CTA—Chemical Threat Area

CTK—Composite Tool Kit

CWDT—Chemical Warfare Defense Training

DLA—Defense Logistics Agency

DNIF—Duty Not Including Flying

DOC—Designed Operational Capability

DoDI—Department Of Defense Instruction

DSN—Defense Switched Network

EAID—Equipment Authorization Inventory Data

EET—Exercise Evaluation Team

FM—Functional Manager

FOD—Foreign Object Damage

GAL—Global Assets List

GCE—Groundcrew Chem-Defense Ensemble

HEED—Helicopter Emergency Egress Device

HSC—Home Station Check

IACC—Integrated Aircrew Chemical Coverall

IAW—In Accordance With

IEE—Individual Equipment Element

IG—Inspector General

ISO—Isochronal Inspection

IUR—Integrated Unfunded Requirement

JQS—Job Qualification Standard

LOGDET—Logistics Detail

LPU—Life Preserver Unit

LSE—Life Support Equipment

LSO—Life Support Officer

MAF—Man-Hour Availability Factor

MAJCOM—Major Command

MASO—Munitions Accountable Systems Officer

MCI—Multi-Command Instruction

MDS—Mission Design Series

MES—Mission Essentiality Status

MNT—Manpower Type

MOBEX—Mobility Exercise

MR—Mission-ready

MRC—Major Regional Contingency

MWRS—Morale, Welfare, Recreation, and Services

MTI—Mission Termination Inspection

NCO—Noncommissioned Officer

NAF—Numbered Air Force

NCOIC—Noncommissioned Officer In Charge

NMR—Nonmission-ready

NSN—National Stock Number

NVS—Night Vision System

O2—Oxygen

OCONUS—Outside the CONUS

OJT—On-The-Job Training

OPLAN—Operation Plan

OPR—Office of Primary Responsibility

ORE—Operational Readiness Exercise

ORI—Operational Readiness Inspection

OSA—Operational Support Airlift

OSHA—Occupational Safety and Health

OSS—Operations Support Squadron

OT&E—Operational Test and Evaluation

P/N—Part Number

PACAF—Pacific Air Forces

PAI—Primary Aircraft Inventory

PDM—Programmed Depot Maintenance

PDO—Publishing Distribution Office

PFMR—Project Funds Management Record

PLD—Personnel Lowering Device

PQDR—Product Quality Deficiency Report

QI—Quality Improvement

ROE—Rules of Engagement

RTU—Replacement Training Unit

SA—Support Agreement

SB—Service Bulletin

SERE—Survival, Evasion, Resistance, and Escape

SIOP—Single-Integrated Operations Plan

SORTS—Status Of Resources and Training System

SPD—Shipping Priority Designator

SRAN—Stock Record Account Number

SRC—Survival Recovery Center

STD—Standard

STRAT—Strategic

TCTO—Time Compliance Technical Order

TDY—Temporary Duty

TMDE—Test, Measurement, and Diagnostic Equipment

THREATCON—Threat Condition

TO—Technical Order

TODO—Technical Order Distribution Office

TPFDD—Time-Phased Force Deployment Data

TPL—Thermoplastic Liner

TQR—Training Quality Report

TTU—Technical Training Unit

UET—Underwater Egress Training

UGT—Upgrade Training

UJC—Unit Justification Code

UMD—Unit Manpower Document

UMIS—UTC Management Information System

USA—Unit Self-Assessment

USAFE—United States Air Forces In Europe

UTC—Unit Type Code

WMP III—War Mobilization Plan III

WRM—War Reserve Material

WST—Water Survival Training

WSTC—Weapon System Team Chief

WWW—World Wide Web

Section C--Terms

Aircrew Contamination Control Area (ACCA).—A self-sustaining aircrew only decontamination control area that minimizes cross contamination to aircrew and is staffed by certified ALS personnel.

Aircrew Chemical Defense Ensemble (ACDE) Equipment.—Individually fitted aircrew unique chemical protective equipment for the sole purpose of protecting operators from chemical/biological warfare agents who fly into and out of a chemically contaminated environment.

Aeromedical Evacuation (AE).—The movement of patients under medical supervision to and between medical treatment facilities by air transportation. (Joint Pub 1-02)

Aeromedical Evacuation Crew Members (AECM).—Qualified flight nurses (FN), aeromedical evacuation technicians (AET), and unqualified student trainees under the direct supervision of a qualified instructor or FN, performing AE duties.

Aircrew Eye/Respiratory Protection (AERP) Equipment.—AERP equipment is designed to protect the crew member from toxic chemical exposure to the head, neck, face, eyes, and respiratory tract. This equipment is designed to provide protection without imposing operational or physiological burdens, degrading mission capability, or combat effectiveness.

Area of Operations (AO).—The main theater of "close to the front" operations.

Aerial Port of Debarkation (APOD).—A station that serves as an authorized port to process and clear aircraft and traffic for departure from the country in which located.

Aerial Port of Embarkation (APOE).—A station that serves as an authorized port to process and clear aircraft and traffic for entrance to the country in which located.

Arctic Flight.—Any flight conducted above the 50th parallel of north latitude.

Antarctic Flight.—Any flight conducted below the 56th parallel of south latitude.

Back-Fill.—Process of using AMC ALS personnel on a rotational basis at deployed locations. Process may be immediate or planned. Use code “Z99” nonstandard UTCs too back-fill ALS technicians.

Bare-Base.—Bare-base systems are designed to provide minimal essential facilities, operational support equipment, and runway, taxiway, and parking areas. Units using this system are expected to deploy with mobility equipment and spares peculiar to their operation in sufficient quantities to allow self-support until resupply is established.

Combat Delivery Airlift ALS Personnel.—ALS personnel assigned to C-130 units.

Groundcrew Contamination Control Area (CCA).—Area managed by civil engineering readiness flight to safely process groundcrew personnel

Chemical Threat Area (CTA).—An area that may be subject to attack with chemical warfare agents from a number of sources.

Desolate Terrain Flight.—Any flight conducted over uninhabited areas (excluding the Continental United States (CONUS)) exceeding one hour flight time.

Dual MRC—. Two nearly simultaneous regional contingencies (MRC).

En Route Support.—A worldwide network to keep the air mobility segment of national defense transportation system moving. It serves as the foundation for surge capability to support power projection. Stations between points of origin and destination at which the airlift mission will stop. En route support locations may be located either CONUS or OCONUS.

Gas & Go.—Location where aircraft has minimum ground time, primarily to refuel and proceed to next mission location.

Global Reach Laydown (GRL).—A deployable en route support system used where infrastructure is insufficient for AMC operations, see AMCI 10-403 (formerly AFI 10-406). Under GRL, resources from various CONUS based organizations are brought together to form deployed organizations required to achieve specific objectives of any particular air mobility operation. GRL outlines AMC's ability to rapidly deploy and provide self-sustaining en route ALS system support for aircrew, aircraft and LSE.

KC-135 Alert SIOP Crew Chief.—Refers to maintenance personnel who maintain, inspect, and service aircraft. Troubleshoot and maintain aircraft structures, systems, components, and support equipment. Inspect and check components for clearance, tolerance, proper installation, and operation. Launch and recover aircraft participating in SIOP missions.

Life Support Equipment (LSE).—LSE encompasses all equipment that is part of the 412A life support system or as designated by HQ AMC/DOTL.

Logistics Detail (LOGDET).—The LOGDET defines standard passenger and equipment movement requirements for each UTC. Equipment detail is provided at the NSN level. Lists all material in a UTC, prioritizes increment movement, provides increment characteristics, and is the standard equipment listing for planning.

Major Regional Contingency (MRC).—Regional area describing a theater of operations where AMC forces are projecting Rapid Global Mobility. Can be either single or dual.

Nomex.—® Nomex® fabric is a high-temperature resistant and inherently flame retardant synthetic fabric with no-hot-melt point or drip characteristics. The fabric is light in weight, will not support combustion, but will begin to char at 700° to 800° F. The fabric has good abrasion resistance similar to nylon and is also nonabsorbent like nylon and other synthetic fabrics.

Operational Support Airlift (OSA) ALS Personnel.—ALS personnel assigned to C-9 and C-21 units.

Operational Support Crew Member.—Personnel on flying status but not occupying a UMD "A" prefix position.

Operation Plan (OPLAN).—A plan for one or more operations that deployed units carry out simultaneously or in a series of connected stages. A detailed transportation-feasible flow of resources into the theater to support a concept of operations. Forces are selected and time-phased, support requirements are determined, and the strategic transportation flow is computer simulated. The plan's information, including combat and support units along with the equipment and supply support, is collected in the time-phased force deployment data (TPFDD) file.

Overwater Flight.—Any flight taking off or landing over water, exceeding power-off glide or auto-rotational distance from land.

Passenger (PAX).—Individual aboard aircraft for the purpose of transportation.

Pilot Unit.—Unit designated by the MAJCOM FM to handle LOGDET management responsibilities for a UTC. Pilot units are listed in the header record of each UTC and LOGDET.

Primary Aircraft Inventory (PAI).—Aircraft authorized for performance of the operational mission. The PAI forms the basis for allocation of operating resources to include staffing and equipment authorizations.

Primary Crew Member.—Any person, rated or nonrated, and required on aircraft to accomplish flying mission.

Recovery Base.—An airlift aircrew stage location in the AO providing full ALS maintenance capabilities. Provides a base where airlift aircraft leaves the AO to reenter the en route system.

Stage.—Location where aircraft and aircrew resources are pooled to provided a constant airflow tempo. May be located either stateside, overseas, or both.

Strategic Airlift ALS Personnel.—ALS personnel assigned to C-5, C-17, and C-141 units.

Tanker Airlift Control Center (TACC).—An AMC agency for centralized command and control. This unit schedules and controls all aerial refueling (tanker) and airlift resources worldwide. Air Force tasking as well as DoD support is channeled through the state-of-the-art hub of mobility control.

Aerial Refueling (Tanker) ALS Personnel.—ALS personnel assigned to KC-10 and KC-135 units.

Theater.—Area within the AO where operations are conducted.

Unit Manpower Document (UMD).—A detailed staffing list reflecting the distribution of staffing allocations into a finite structure of authorizations (by work center).

Unit Type Code (UTC).—A five-character, alphanumeric code that uniquely identifies each type unit of the Armed Forces and specific force package of personnel and/or equipment.

Weapon System Team Chief (WSTC).—ALS manager designated by ANGRC/XOOSF to act as a focal point on ALS matters for their particular MDS. One individual from each MDS utilized in the ANG is selected to provide support and assist the ANGRC FM monitor ALS activities and resolve problems peculiar to their assigned MDS within the ANG. They review supplements to higher headquarters regulations, and provide staff assistance visits for their respective MDS.

Attachment 2

CTK INVENTORY AND CONTROL LOG

CTK INVENTORY AND CONTROL LOG					CTK NO.
DATE	EMPLOYEE NAME/NUMBER	TOOL NUMBER AND NOMENCLATURE	CTK/TOOL DESTINATION	OUT/INVENTORY TIME/SIGNATURE	IN/INVENTORY-TIME/SIGNATURE

Attachment 3

MISSING/REMOVED TOOLS AND EQUIPMENT LOG

MISSING/REMOVED TOOLS AND EQUIPMENT					
CTK NO.		SQUADRON		WORK CENTER	
NOMENCLATURE	REASON	VERIFIED BY	DATE OUT	DATE REPLACED	INITIALS

(FRONT)

MISSING/REMOVED TOOLS AND EQUIPMENT					
CTK NO.		SQUADRON		WORK CENTER	
NOMENCLATURE	REASON	VERIFIED BY	DATE OUT	DATE REPLACED	INITIALS

(REVERSE)

Attachment 4

LOST TOOL/OBJECT REPORT

LOST TOOL/OBJECT REPORT			PAGE OF PAGES
BASE	ACFT SERIAL NUMBER	ORGANIZATION AND W/C	DATE(S)/TIME LOST
CTK NO.	DESCRIPTION OF OBJECT	AFTO 781A PAGE BLOCK	AIRCRAFT IMPOUNDED: YES NO TIME: DATE:

ALS NCOIC NOTIFIED (Last Name, Initial)	MAINTENANCE NOTIFIED (Last Name, Initial)	ALS SUPT NOTIFIED (Last Name, Initial)	CTK CUSTODIAN NOTIFIED (Last Name, Initial)	QA NOTIFIED (Last Name, Initial)
NAME: TIME: DATE:	NAME: TIME: DATE:	NAME: TIME: DATE:	NAME: TIME: DATE:	NAME: TIME: DATE:

AREA ITEM LOST:

ITEM NO.	WORK CENTER SUPERVISOR/ALS SUPERINTENDENT WILL ENSURE ALL ITEMS ARE COMPLETED	INDIVIDUAL INITIALS	TIME/DATE INITIALED
1.	NAME OF INDIVIDUAL(S) THAT LOST OBJECT _____ _____ _____		
2.	WORK BEING PERFORMED WHEN ITEM LOST _____ _____ _____ _____		

LOST TOOL/OBJECT REPORT	PAGE OF PAGES		
3.	**AREAS CHECKED AND STEPS TAKEN TO FIND OBJECT** _____ _____ _____ _____ _____		
4.	**SEARCH CONDUCTED BY (List all individuals)** _____ _____ _____		
5.	**ITEM WAS/WAS NOT FOUND (If found, give location)** _____ _____ _____		
6.	**COPY OF FORM FILED BY CTK CUSTODIAN**		
7.	**FORM FILED BY RECORDS CLERK (If applicable)**		
8.	**SIGNATURE OF MAINTENANCE SUPERVISOR/SUPERINTENDENT**		

Attachment 5

SAMPLE OF MISSING EQUIPMENT MESSAGE

R 200352Z JUN 96
FM: 555OSS DREAMLAND AFB DE//DOTL//
TO: 19OSS ROBINS AFB GA//OSL//
22OSS MCCONNELL AFB KS//OSOL//
43OSS POPE AFB NC//OSTL//
60OSS TRAVIS AFB CA//PE//
62OSS MCCHORD AFB WA//OSL//
89OSS ANDREWS AFB MD//OSTL//
91ARS MACDILL AFB FL//DOL//
92OSS FAIRCHILD AFB WA//OSOL//
305OSS MCGUIRE AFB NJ//OSL//
317OSS DYESS AFB TX//OST//
319OSS GRAND FORKS AFB ND//OSOL//
375OSS SCOTT AFB IL//OSTL//
436OSS DOVER AFB DE//OSL//
437OSS CHARLESTON AFB SC//OSL//
463OSS LITTLE ROCK AFB AR//OSTL//
INFO: HQ AMC SCOTT AFB IL//DOTL//
HQ ACC LANGLEY AFB VA//DOSBL//
AETC AOS RANDOLPH AFB TX//AOXL//
HQ AFMC EGLIN AFB FL//DOV//
HQ AFRC ROBINS AFB GA//DOTSL//
HQ AFSOC HURLBURT FLD FL//DOTL//
HQ AFSPC PETERSON AFB CO//DOOH//
HQ PACAF HICKAM AFB HI//DOTT//
24 AOS RAMSTEIN AFB GE//DOL//
ANGRC ANDREWS AFB MD//XOOSF//
UNCLASSIFIED
PLEASE PASS TO AIRCREW LIFE SUPPORT (ALS)

SUBJECT: MISSING LIFE SUPPORT EQUIPMENT (LSE)

1. ON 19 JUN 96, 555 OSS/DOTL, DREAMLAND AFB DE, CONDUCTED A MISSION TERMINATION INSPECTION (MTI) ON UNIT AIRCRAFT, C-141B, SERIAL NUMBER 640173. ALS DISCOVERED LSE MISSING FROM AIRCRAFT. AIRCRAFT WAS EN ROUTE THROUGH THE FOLLOWING LOCATIONS DURING 10 - 18 JUN 96: ELMENDORF AFB, YOKOTA AB, OSAN AB, HICKAM AFB, AND TRAVIS AFB.

2. ANY ALS SECTIONS HAVING KNOWLEDGE OF THE LOCATION OF THE FOLLOWING LSE, PLEASE RESPOND WITHIN 30 DAYS AFTER RECEIPT OF THIS MESSAGE. NEGATIVE REPLIES ARE REQUIRED. REQUEST MAJCOMS FORWARD MESSAGE TO SUBORDINATE UNITS.

NOMENCLATURE	STOCK NUMBER	QUANTITY	LOCAL CONTROL/ SERIAL NUMBER
XXXXXXXXXXXXXXXXXX	XXXX-XX-XXX-XXXX	XXX EA	XXXX/XXXXX
XXXXXXXXXXXXXXXXXX	XXXX-XX-XXX-XXXX	XXX EA	XXXX/XXXXX
XXXXXXXXXXXXXXXXXX	XXXX-XX-XXX-XXXX	XXX EA	XXXX/XXXXX
XXXXXXXXXXXXXXXXXX	XXXX-XX-XXX-XXXX	XXX EA	XXXX/XXXXX

3. POC IS SMSGT JONES, DSN 555-1212, FAX DSN 555-1213, OR E-MAIL (LOWER CASE) JONESR@555AW.DAFB.AF.MIL.

Attachment 6

SAMPLE OF EXCESS EQUIPMENT MESSAGE

R 200352Z JUN 96

FM: 555OSS DREAMLAND AFB DE//DOTL//

TO: 19OSS ROBINS AFB GA//OSL//

22OSS MCCONNELL AFB KS//OSOL//

43OSS POPE AFB NC//OSTL//

60OSS TRAVIS AFB CA//PE//

62OSS MCCHORD AFB WA//OSL//

89OSS ANDREWS AFB MD//OSTL//

91ARS MACDILL AFB FL//DOL//

92OSS FAIRCHILD AFB WA//OSOL//

305OSS MCGUIRE AFB NJ//OSL//

317OSS DYESS AFB TX//OST//

319OSS GRAND FORKS AFB ND//OSOL//

375OSS SCOTT AFB IL//OSTL//

436OSS DOVER AFB DE//OSL//

437OSS CHARLESTON AFB SC//OSL//

463OSS LITTLE ROCK AFB AR//OSTL//

INFO: HQ AMC SCOTT AFB IL//DOTL//

UNCLASSIFIED

PLEASE PASS TO AIRCREW LIFE SUPPORT (ALS)

SUBJECT: EXCESS LIFE SUPPORT EQUIPMENT (LSE)

1. THE FOLLOWING LIST IS EXCESS LSE AVAILABLE FOR REDISTRIBUTION. ANY UNIT REQUIRING THE FOLLOWING ITEMS, PLEASE RESPOND WITHIN 30 DAYS AFTER RECEIPT OF THIS MESSAGE. NEGATIVE REPLIES ARE REQUIRED.

NOMENCLATURE	STOCK NUMBER	QUANTITY
XXXXXXXXXXXXXXXXXX	XXXX-XX-XXX-XXXX	XXX EA
XXXXXXXXXXXXXXXXXX	XXXX-XX-XXX-XXXX	XXX EA
XXXXXXXXXXXXXXXXXX	XXXX-XX-XXX-XXXX	XXX PR
XXXXXXXXXXXXXXXXXX	XXXX-XX-XXX-XXXX	XXX EA
XXXXXXXXXXXXXXXXXX	XXXX-XX-XXX-XXXX	XXX PR

2. POC IS SMSGT JONES, DSN 555-1212, FAX DSN 555-1213, OR E-MAIL (LOWER CASE) JONESR@555AW.DAFB.AF.MIL.

Attachment 7

SAMPLE OF REDISTRIBUTION MESSAGE

R 200352Z JUN 96

FM: 555OSS DREAMLAND AFB DE//DOTL//

TO: HQ AMC SCOTT AFB IL//DOTL//

INFO: 60OSS TRAVIS AFB CA//PE//

375OSS SCOTT AFB IL//OSTL//

436OSS DOVER AFB DE//OSL//

UNCLASSIFIED

PLEASE PASS TO AIRCREW LIFE SUPPORT (ALS)

SUBJECT: EQUIPMENT REDISTRIBUTION (555 CW)

1. REQUEST HQ AMC/DOTL COORDINATE WITH HQ AMC/LGSWSE TO PROVIDE REDISTRIBUTION INSTRUCTIONS AUTHORIZING PERMANENT EQUIPMENT TRANSFER FROM THE 555 CW ACCOUNT TO THE FOLLOWING ORGANIZATIONS:

NSN	QTY	LOSING SRAN/ACCT/DETAIL	GAINING SRAN/ACCT/DETAIL
XXXX-XX-XXX-XXXX	XXX	FE4444/555CW/0001	FE4445/375CW/0005
XXXX-XX-XXX-XXXX	XXX	FE4444/555CW/0003	FE4445/375CW/0008
XXXX-XX-XXX-XXXX	XXX	FE4444/555CW/0006	FE4446/436CW/0001
XXXX-XX-XXX-XXXX	XXX	FE4444/555CW/0007	FE4446/436CW/0003
XXXX-XX-XXX-XXXX	XXX	FE4444/555CW/0008	FE4446/436CW/0004
XXXX-XX-XXX-XXXX	XXX	FE4444/555CW/0001	FE4447/60CW/0002
XXXX-XX-XXX-XXXX	XXX	FE4444/555CW/0003	FE4447/60CW/0005

2. THIS IS A 555 OSS/DOTL, 60 OSS/PE, 375 OSS/OSTL AND 436 OSS/OSL COORDINATED MESSAGE. 555 OSS/DOTL POC IS SMSGT JONES, DSN 555-1212, FAX DSN 555-1213, OR E-MAIL (LOWER CASE) JONESR@555AW.DAFB.AF.MIL.

Attachment 8

SAMPLE OF EQUIPMENT SHORTAGE MESSAGE

R 200352Z JUN 96

FM: 555OSS DREAMLAND AFB DE//DOTL//

TO: HQ AMC SCOTT AFB IL//DOTL//

UNCLASSIFIED

PLEASE PASS TO AIRCREW LIFE SUPPORT (ALS)

SUBJECT: LIFE SUPPORT EQUIPMENT (LSE) SHORTAGE

1. THE 555 OSS/DOTL IS EXPERIENCING LSE SHORTAGES WHICH IMPACT AND LIMIT OUR MISSION CAPABILITY. REQUEST HQ AMC/DOTL ASSISTANCE BY COORDINATING WITH DLA/DEPOT ITEM MANAGERS TO ALLEVIATE SHORTAGES AND PROVIDE STATUS OF THE FOLLOWING ITEMS:

TYPE	QTY NSN	BACK AUTH/ ON-HAND	SRAN ORDERS	PRIORITY/ DUE IN DOC #	UJC	FIRM/ MEMO
BATTERIES	6135-01-050-3193LS	350/250	100 EA	4445/6042/0254	AZ02	FIRM
BATTERIES	6135-00-073-8939	200/150	100 EA	4445/5345/0113	AZ02	FIRM
BATTERIES	6135-00-838-0706	200/175	50 EA	4445/5223/0098	AZ02	FIRM
LIFE PRES	4220-00-606-1994LS	500/350	150 EA	4445/4350/0157	AZ02	FIRM
VALVES	1660-01-114-7208LS	100/80	30 EA	4445/5112/0234	AZ02	FIRM

2. 555 OSS/DOTL POC IS SMSGT JONES, DSN 555-1212, FAX DSN 555-1213, OR E-MAIL (LOWER CASE) JONESR@555AW.DAFB.AF.MIL.