



AIRCREW LIFE SUPPORT (ALS) PROGRAM

COMPLIANCE WITH THIS PUBLICATION IS MANDATORY

NOTICE: This publication is available digitally on the AFDPO WWW site at:
<http://www.e-publishing.af.mil>

OPR: HQ USAFE/DOTS
(CMSgt Michael J. Freebury)
Supersedes USAFE Instruction 11-301,
21 May 1996.

Certified by: HQ USAFE/DOT
(Colonel Edward L. Kasl)
Pages: 16
Distribution: F

USAFE SUPPLEMENT 1 AFI 11-301, Volume 1, 19 July 2002, is supplemented as follows: This supplement provides guidance on United States Air Forces in Europe (USAFE) specific ALS issues. It applies to all USAFE active duty units and to Air National Guard (ANG) and US Air Force Reserve (AFRC) units and members when under the operational control of USAFE. Maintain and dispose of records created as a result of prescribed processes in accordance with Air Force Records Disposition Schedule in Web-RIMS.

SUMMARY OF REVISIONS

This document is substantially revised and must be completely reviewed.

Revised as a supplement to AFI 11-301.

1.3.3. USAFE wings will supplement the basic instruction and USAFE Supplement 1 according to AFI 33-360 Volume 1 to address wing specific requirements. Include Training Support Branch (HQ USAFE/DOTS) as part of supplement coordination process prior to final publication. Forward a copy of the published supplement to HQ USAFE/DOTS.

2.9. As a minimum, the HQ USAFE/DOTS staff will consist of an ALS Command Functional Manager in AFSC IT100 and ALS Deputy Command Functional Manager in Air Force specialty code (AFSC) IT191 to manage the command ALS program.

2.9.25. Conducts staff assistance visits to field units at least every 18 months for the purpose of providing HQ USAFE/DOTS staff-level assistance.

2.9.29. (Added) Establishes and publishes an ALS technical order options list for USAFE units. Due to rapid changes in technical orders, HQ USAFE/DOTS will develop the USAFE technical order options list

and release it under a separate cover letter, dated and signed by the HQ USAFE/DOT. ANG units will follow their ANG technical order options list.

2.9.30. (Added) Serves as the primary point of contact for ALS program objective memorandum (POM) process.

2.9.31. (Added) Maintains a command master inventory list to support funding, acquisition, and POM efforts. List will reduce field level requests for information and ensure timely equipment management decisions.

2.9.32. (Added) Monitors the introduction of new mission design series (MDS) aircraft into the command inventory or conversion and modification programs of existing aircraft to ensure timely integration of ALS equipment and training.

2.9.33. (Added) Reviews host-tenant support agreements involving USAFE ALS functions.

2.9.34. (Added) Develops a command ALS functional assessment guide for use during staff assistance visits (SAV) and unit self-assessments (USA). HQ USAFE/DOTS will also develop the Inspector General (HQ USAFE/IG) Unit Compliance Inspection Guide and Operational Readiness Inspection Guide, in accordance with AFI 90-201, *Inspector General Activities*, and its accompanying HQ USAFE supplement.

2.10.1. The operations group commander may designate the Life Support Superintendent (LSS) as the Life Support Officer (LSO) and the wing ALS manager.

2.10.14. (Added) Ensure direct communications are available to the LSS for resolution of ALS matters affecting the unit.

2.11.2. LSSs are highly encouraged to establish and maintain Technical Order Distribution Office (TODO) responsibilities for ALS sections. Technical order and publication familiarization will show initial familiarization dates as well as day-to-day familiarization dates. Publication familiarization will also include effective training on accessing electronic publications and forms from Department of Defense and governmental websites.

2.11.3.1. (Added) Annual ALS SAVs will ensure an effective unit self-assessment program is conducted at each ALS section. As a minimum, use the command ALS IG functional inspection guide or Unit Self Assessment guide when conducting SAVs. Units may modify the command guides to best suit the needs of their unit.

2.11.3.2. (Added) The LSS will conduct periodic visits to all squadrons as determined by the LSS. Visits will focus on any special interest items, combat capability of in-shop and aircraft installed ALS equipment, and aircrew and technician training. Document the visits in a manner that best suits the needs of the LSS and squadron programs. Use the command functional inspection checklist or USA to assist during the visits. Visit reports are maintained by the LSS and noncommissioned officer in charge (NCOIC) and routed to squadron or group leadership only if negative trends develop and are not corrected.

2.11.4. Ensure squadron commanders and operations officers receive courtesy copies of reports as a result of all scheduled SAVs and copies of visit reports, if warranted, as outlined in paragraph [2.11.3.2. \(Added\)](#)

2.11.6. Ensure a copy of new support agreements and annual reviews are routed to HQ USAFE/DOTS.

2.11.7. Ensure all equipment modifications are approved by the MAJCOM or 311 HSW prior to flight.

2.11.15. (Added) Ensure copies of annual munitions and LSE forecasts, AFTO Forms 22, **Technical Manual (TM) Change Recommendation and Reply**, (relating directly to ALS equipment and issues), suggestions, material deficiency reports, and hazard reports are routed to USAFE/DOTS. **NOTE:** When posting forecasts on applicable OPR web sites simply notify the MAJCOM via e-mail of the posting.

2.11.16. (Added) Ensure unit has a qualified ALS mishap investigator for each assigned MDS. This paragraph does not apply to ANG units.

2.11.17. (Added) Ensure classified communications are accomplished on secure phones or SIPRNET. Troop movements, contingency operations, equipment shortfalls, contingency operating locations, contingency dates and times, capabilities, special instructions (SPINS), and concept of operations (CONOPS) are a few examples of information we must protect. Remind assigned personnel media release of information does not authorize further discussion or release of information.

2.11.18. (Added) Plan, direct, organize, evaluate, and inspect aircrew life support programs.

2.11.19. (Added) Monitor ALS functions to ensure compliance with requirements for North Atlantic Treaty Organization (NATO) tactical evaluations.

2.11.20. (Added) Accomplish performance evaluations of Red X qualified ALS personnel.

2.11.21. (Added) Ensure squadron commanders and operations officers are notified of aircrew due or overdue grounding training events affecting mission ready crew status. This paragraph does not apply to ANG units.

2.12.13. (Added) Ensure ALS facilities are adequate to afford maximum protection of aircrew life support equipment (ALSE) and sufficient in size to support equipment inspection, storage, training, aircrew ready room, and office space for program management. Facilities must satisfy requirements identified in 15X-series TOs.

2.13.8. (Added) Ensure sufficient numbers of Red X qualified personnel are available to support home station and deployed operations, as applicable.

2.13.9. (Added) Ensure annual munitions and ALSE forecasts, AFTO Forms 22, **Innovative Development Through Employee Awareness (IDEA)**, submissions, material deficiency reports (as outlined in technical order 00-35D-54, *USAF Material Deficiency Reporting and Instigation System*), and hazard reports (as outlined in AFI 91-202, *The US Air Force Mishap Prevention Program* and AFI 91-204, *Safety Investigations and Reports*) are coordinated with the LSS.

2.15.2. Any food items, bug sprays, batteries, petroleum based products or any other items that may cause contamination to oxygen equipment will be removed and discarded when discovered.

2.15.8. (Added) Ensure ALSE is made available to ALS personnel support for required inspection and fit checks.

2.15.9. (Added) Perform preflight inspection and operational checks using appropriate in-shop test equipment on all personal flying equipment, including helmets, oxygen masks, NVGs and ACDE, prior to the first flight of the day.

3.3.8. Units with multi-place aircraft will use the following guidance to establish their basis of issue (BOI) for aircraft equipment:

3.3.8.1. (Added) Use AFI 11-301, Volume 2, *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), and refer to the "contingency" column of each aircraft equipment table to determine a "set" of ALS equipment.

3.3.8.2. (Added) Each unit will be authorized one "set" of equipment per aircraft assigned (PAI and Backup Aircraft Inventory [BAI] combined).

3.3.8.3. (Added) Each unit will be authorized one spare "set" of equipment for every 10 PAI to be used as maintenance turn around.

3.3.8.4. (Added) Each unit will be authorized one spare "set" of equipment for each tasked unit type code (UTC). Units are cautioned to equip their UTCs based on the maximum total number of UTCs able to be deployed at one time.

3.7. USAFE ALS units will comply with quality assurance (QA) guidance in the basic AFI 11-301. As an optional tool to help assist in managing unit QA programs, USAFE ALS units may use the Command QA Performance and Tracking Program or "QMCI" Program and modify it to best suit their unit needs.

3.8.3. Address only internal ALS procedures in operating instructions. Procedures involving interaction and procedures involving organizations outside of ALS functions (maintenance, medical, safety, support, operations, etc.) will be addressed in the wing's supplement to this instruction. To ensure continuity throughout the unit, the LSS will address wing-wide ALS procedures in the wing supplement.

3.18.1. Each USAFE wing will be allowed to submit their wing level Outstanding ALS Winners (LSO, senior noncommissioned officer (SNCO), NCO, airman and civilian) for consideration at the MAJCOM level. Each USAFE wing will also be allowed to submit their entire unit for the Outstanding USAFE ALS Unit of the Year Award. HQ USAFE/DOTS will be allowed to submit one HQ USAFE ALS staff member for the USAF ALS Awards Program.

3.18.3. Additional guidance will be sent out annually via message format to USAFE wings outlining submission criteria, suspenses, and any changes from the process of the previous year. Packages received after the established HQ USAFE suspense date will not be considered.

3.19. In case of a computer malfunction, units will maintain back-up disks or hard copies of the Automate Life Support Management System (ALSMS) data files. Run back-up disk when required to restore equipment data files. Back-up data disk at least once a week. Units will continue to maintain inspection tags or booklets attached or installed in equipment items.

3.20.1. (Added) ALS is responsible for updating the core automated maintenance system (CAMS) entries relating to the aircraft installed ALS equipment, including routine inspections, installation, and removal of aircraft installed or integrated aircrew life support equipment. Alternate local procedures for initiating and clearing CAMS entries are authorized and should be addressed in unit supplements to this instruction.

3.20.2. (Added) When CAMS is used, all prepositioned ALSE will be tracked by ALSMS until appropriate aircrew life support work unit codes are loaded into CAMS. All parachute and survival kit time change components currently listed in T.O. 00-20-9 and or T.O. 00-20-9-1 will be loaded in both CAMS and ALSMS.

4.2.1.1. Develop separate master task list (MTL) for squadrons with dissimilar MDS aircraft (except when MDS aircraft have similar systems). Ensure NCOICs use only the wing LSS developed MTL for their respective shop. Include ALS items not specified in the career education training plan (CFETP) on the AF Form 797, **Job Qualification Standard Continuation/Command JQS**. When developing MTLs, reoccurring task qualifications will be limited to Air Force ALS core tasks, aircrew contamination control

area (ACCA) processing procedures, Air Force Counter-Chemical Warfare Concept of Operations (C-CW-CONOPS) and any task the LSS deems critical to the technical proficiency of unit ALS personnel. Document task evaluations in MTL using AF Form 1098, **Special Task Certification and Recurring Training**. If CAMS products are used to document annual evaluations or certifications, the CAMS product may be used in lieu of the AF Form 1098. Task evaluations or certifications will be conducted at a frequency determined by the LSS, except where the frequency is dictated by other guidance.

4.2.1.3. (Added) Certify or decertify NCOICs on initial task qualifications. Any AFSC IT1X1 7-level certifying official may accomplish subsequent evaluations on NCOICs.

4.2.1.4. (Added) Ensure AF Form 623s, **Individual Training Record**, are maintained on all NCOICs, including NCOICs in the rank of Master Sergeant (MSgt). The LSS will maintain a master task list (MTL) for the LSS position in accordance with AFI 36-2201, Volume 3, *Developing, Managing, and Conducting Training*. The LSS requirements in the basic instruction of AFI 11-301 and this supplement will satisfy minimum MTL requirements. As an alternative, the LSS may develop a MTL to meet unique mission requirements. See **Attachment 3 (Added)** for an example LSS MTL. Place the LSS MTL in the LSS Continuity Folder for easy reference. This paragraph does not apply to ANG units.

4.2.1.5. (Added) The LSS will ensure that all AFSC IT1X1 personnel are trained in maintenance documentation. This training will be documented in accordance with AFI 36-2201.

4.2.1.5.1. (Added) Two qualified personnel (one Red X certified and one qualified) are required for the inspection, installation, and removal of all aircraft integrated personnel parachutes and survival kits as depicted in appropriate technical data. Two aircrew life support personnel or one aircrew life support and one egress person can satisfy this requirement.

4.2.1.5.2. (Added) The certification of aircrew life support personnel to clear Red X conditions will be accomplished in accordance with AFI 21-112, *Aircrew Egress System Maintenance*, and T.O. 00-20-5.

4.2.1.5.3. (Added) The LSS will participate in the certification process of aircrew life support personnel to clear Red-X conditions. At units without a wing or group function, the squadron NCOIC will perform this duty. As a minimum, the LSS, squadron NCOIC, and all 7-skill level personnel will be Red X certified.

4.2.1.5.4. (Added) Personnel certified to clear Red X conditions must be qualified at the 5-skill level or higher. The option to use a 5-skill level, certified to clear Red X conditions, will only be exercised when there is a shortage of qualified 7-skill levels in the unit. The LSS will determine the appropriate "critical" point for the squadrons.

4.2.1.5.5. (Added) Documentation of flightline certifications to include survival kit and parachute inspection, removal, installation, and CRU-60/P and CRU-94 (ITB) inspections will be accomplished in accordance with AFI 36-2202.

4.2.1.5.6. (Added) Flightline Red X certifications will be documented on the CAMS certification roster. Red X certifications will be generated, coordinated and approved according to local procedures as agreed upon between the LSS and maintenance personnel.

4.2.2.8. Document initial and reoccurring task evaluations on AF Form 1098. If CAMS products are used to document annual evaluations or certifications, the CAMS product may be used in lieu of the AF Form 1098. Supervisors will document upgrade training progress and counseling on the AF Form 623a, **On-The-Job Training Record--Continuation Sheet**. Ensure documentation is accurate and comprehensive, particularly in cases where the trainee is not meeting training timelines and standards.

4.2.2.9. Centrally locate training records in the ALS section or administrative area to ensure easy access to supervisors, technicians, training managers and inspectors.

5.2.2. The LSS will certify officers and ALS personnel qualified to conduct aircrew life support continuation training (ALSCT) events. Certification letters, generated by the LSS and signed by the ALSCT instructors' squadron commander will be kept on file by the LSS.

5.5.8. Training intervals will be the same as defined in MDS specific AFI 11-2MDS, Volume 1 (training instruction) after receiving initial training on their new aircraft.

5.8.1. USAFE ALS will use the AF Form 1522 to document ALSCT events, and not use equivalents. Maintain a record of class attendance in accordance with AFMAN 37-139.

5.8.2. Upon completion of training, rosters will be forwarded to appropriate office for input into the Aviation Resource Management System (ARMS). At the beginning of each new training cycle, the LSS will validate (with the wing HARM Chief) the correct ALSCT events are being tracked in ARMS and the correct currency due dates are established.

5.8.5. ALS is not responsible for maintaining ARMS.

5.9.4. Group or unit ALS sections are responsible for operational control and supply accountability of emergency procedures trainers (EPT). Servicing and maintenance repair requirements are processed through the Detachment 1 TRSS, Training Systems Center, Luke AFB AZ.

6.1. ALS is not responsible for storing, handling, servicing, or accountability of the following items: Thermos jugs, fire extinguishers, aircraft portable O2 cylinders, pre-breather O2 assemblies, aircraft oxygen regulators, headsets, flak helmets, flak vests, groundcrew chemical defense equipment, pyrotechnic flare pistols, escape and evasion (E-and-E) kits, passenger service equipment, aircraft escape slides, aircraft first aid kits, aircraft night vision goggle lighting components, rear vision devices, medications (including "go-pills") or items not related to the 412A life support system. ALS is not responsible for storing, issuing, or forecasting munitions used for Pararescue (PJ) jumps or other pararescue missions unrelated to aircrew life support continuation training. The PJ section will not use ALS munitions accounts, storage or courtesy storage capability.

6.4.1. Pararescue personnel are required to wear the SPH-4/AF helmet only when performing duties in the capacity of a helicopter crewmember. At all other times, they will wear equipment required by the mission profile. This paragraph does not apply to ANG units.

6.4.1.4. (Added) SPH-4AF/HGU-55/56/P Helmet. Aircrew members are only authorized to carry the helmet, oxygen mask and headset inside the helmet bag in accordance with T.O. 14P3-4-151 and paragraph **2.11.2.** of this instruction.

6.4.1.5. (Added) Parachutist Helmet. The boom microphone will only be mounted in accordance with T.O. 14P3-4-171 utilizing the round mount and receptacle. No other variations are authorized. Helmets that are excessively scratched will be sent to 85th Logistics Squadron Sheet Metal Shop for painting.

6.4.2. Wear of high contrast visors must be approved, in writing, by the unit Aerospace Medicine Flight Surgeon.

6.4.2.2. ALS personnel will ensure this area designated for use by aircrew members is set-up properly to evaluate the operational integrity of the goggle, make proper adjustments, and focus before departure for flight. Night vision goggles (NVG) will be issued to aircrew members using an appropriate tracking system.

6.4.2.2.1. (Added) Inspections will be annotated in ALSMS to include all historical data, i.e., repairs, component replacements, TCTOs, and one-time inspections. To prevent a foreign object damage (FOD) hazard, inspection dates may be annotated on the actual equipment in a similar manner as oxygen masks (using label or pressure sensitive tape).

6.4.2.2.2. (Added) ALS personnel will perform a post-flight inspection on NVGs after each flight and ensure goggles are properly secured when not in use

6.4.3.1. (Added) Establish procedures to ensure these operational and training assets are controlled and safeguarded to prevent damage, loss, or theft.

6.4.3.2. (Added) Defective global positioning system (GPS) receivers should be returned to the manufacturer for repair or replacement in accordance with warranty agreements obtained at time of purchase.

6.4.4. With the exception of the MC-1 knife or riser cutter no additional items are attached to the anti-G garment unless authorized by appropriate technical orders.

6.4.4.1.1. (Added) Record inspections and refits in ALSMS database on AFTO Form 335, **Anti-G and Constant Wear Anti-Exposure Suit Inspection Record**.

6.4.4.2.1. (Added) One combat edge vest and one anti-g garment constitute one complete Anti-G ensemble. If aircrew members are issued two ensembles, both ensembles will be inspected and fit initially; however, only the primary use ensemble requires periodic day fit check, as determined by the aircrew member.

6.4.4.2.2. (Added) Record inspections and fit checks in ALSMS database on AFTO Form 335. Fit checks will be conducted on all fitted aircrew equipment (helmet and mask, g-suit and anti-exposure suit) as needed or requested by the aircrew member.

6.4.4.3. (Added) ALS will accomplish the anti-g quick disconnect pull test on all aircraft when the applicable aircrew life support job guide contains the procedures for the pull test.

6.4.5.2. Local air temperature is defined as the air temperature in the area where the mission is flying over water, not the temperature over land or at home station.

6.4.5.3. (Added) Due to consistent water temperatures below 51 degrees Fahrenheit, anti-exposure suits are required on all over-water flights in Keflavik, Iceland. Helicopter aircrew must meet overland flight clothing requirements specified in the basic instruction and T.O. 1-1-641. HH-60 aircrew members are authorized to wear the Over-the-Side (OTS) anti-exposure suit with the Thermal Integrated Garment (TIG).

6.4.6. Helicopter Aircrew Breathing Device (HABD) may be used by all rotary wing airframe in lieu of HEED.

6.4.7. When LPU-10/P life preservers are used in the HH-60, in accordance with T.O. 14S-1-102, the shoulder and waist straps will be tacked after properly fitted in lieu of elastic keepers. This paragraph does not apply to ANG units.

6.4.8. Individual survival kits and vests will be inspected and maintained in accordance with applicable technical orders. Components will be installed in accordance with **Attachment 2 (Added)** and **Attachment 3 (Added)** of this supplement. The following mandatory survival kit components will be secured to the rucksack and or auxiliary container as specified in T.O. 14S1-3-51: Survival radio, signal flare MK-13 or MK-124, signal mirror, strobe light, A/P25S-5A signal distress kit, whistle, and sea dye marker.

6.4.10. Survival vests will be inspected annually when not worn daily. If a radio is installed in the vest, the radio must have a lithium battery in order to qualify for an annual inspection cycle. When survival vests are worn daily, they will be inspected every 60 days. SRU-21/P survival vest and Load Bearing Vest (LBV) will be modified and standardized according to crew positions. Accessory components installed will be in accordance with T.O. 14S1-3-51 and T.O. 14S-1-131. After the LBV is properly fitted, straps will be taped using black electrical tape or equivalent to prevent straps from inadvertently hanging up while entering or exiting aircraft.

6.4.11.4. (Added) A-10, F-15, and F-16 aircraft oxygen connectors will be stored in the aircraft. These connectors are inspected in conjunction with the periodic or routine parachute inspection. A record of this inspection is entered on the calendar inspection schedule portion of the AFTO Form 781K, **Aerospace Vehicle Inspection Engine Data, Calendar Inspection and Delayed Discrepancy Document**.

6.4.11.5. (Added) ALS will inspect and maintain oxygen mask connectors attached to MQ-1, SCOT, CAST, or TTU 529/E testers. The inspections will be recorded in ALSMS or on an AFTO Form 334.

6.4.14. (Added) Survival Radios and Beacons:

6.4.14.1. (Added) Survival radios and locator beacons are inspected, maintained, and disposed of in accordance with T.O. 00-25-213, 31R, 33D, and 14S series technical orders. A separate inspection label is attached to the radio or beacon and spare batteries to indicate the inspection dates. Aircrew life support personnel are responsible for the inspection of locator beacons installed in back-style parachutes.

6.4.14.2. (Added) Beacons installed in survival kits and parachutes will be set in the continuous mode during routine training operations. See Chapter 7 for guidance during contingency operations.

6.5.6. (Added) Helicopter Aircrew Breathing Device (HABD). The HABD may be used in lieu of the HEED.

6.5.7. (Added) Post-Flight Inspection. A system will be developed within each aircrew life support section to ensure aircrew life support equipment is post-flight inspected by qualified aircrew life support personnel. Local post-flight inspection checklists are authorized to accomplish this inspection.

6.5.8. (Added) Aircraft Acceptance Inspections. When units receive new or replacement aircraft, an acceptance inspection will be conducted on aircraft installed aircrew life support equipment in accordance with T.O. 00-20-1.

6.5.9. (Added) Aircraft Transfer Inspections. Prior to aircraft transfer, a transfer inspection will be performed on all aircraft departing home station for reassignment to another unit. Transfer inspections will be performed in accordance with T.O. 00-20-1. Inter-command and intra-command transfer of survival kits will include, as a minimum, mandatory components as specified in T.O. 14S1-3-51. Transfers within USAFE will include all minimum equipment items listed in this instruction.

6.5.10. (Added) HH-60 Aircraft. Prepositioned aircrew life support equipment (i.e., Gunner belts, CWU-16/Ps, LPU-10/Ps) is stored in a helmet bag secured to floor of aircraft. The bag will have its contents and next inspection due annotated on a DD Form 1574, **Serviceable Tag - Material**, secured to the outside of the bag. This paragraph does not apply to ANG units.

6.5.11. (Added) T-9 Life Raft. USAFE units will use AFI 11-302V1 as guidance for minimum mandatory components to be installed. Other components will be addressed in the unit supplement to this instruction.

6.7. (Added) **Unserviceable Aircrew Life Support Equipment:**

6.7.1. (Added) Unserviceable parachute components, particularly canopies with suspension lines that are excess to local training needs, will be turned in to Logistics Readiness Squadron for shipment to USAF Survival School, Fairchild AFB WA (FB 4620). Use routing identifier Code DL7.

6.7.2. (Added) Unserviceable life preservers and component parts excess to local training programs should be shipped to 17 TRS, Pensacola FL for use by the USAF Water Survival School.

6.7.3. (Added) Unserviceable aircrew life support equipment not otherwise identified may be redistributed to other USAFE units for utilization in unit aircrew life support training programs.

7.2.2.6. (Added) Area of responsibility (AOR) LSS duties:

7.2.2.6.1. (Added) Complete duties and responsibilities of AOR gaining command ALS program. Implement policies and procedures as theater commander, combined forces air commander (CFAC), joint forces air component commander (JFACC) and higher headquarters direct.

7.2.2.6.2. (Added) The AOR LSS will work closely with Survival, Evasion, Resistance and Escape (SERE) and Search and Rescue Liaison Officer (SARLO) to ensure aircrew protection is at the highest level of readiness.

7.2.2.6.3. (Added) Conduct a self-assessment of ALS operations in the AOR at least once per AEF. As a minimum, the self-assessment will consist of a compliance check of all items under responsibilities of AOR LSS. Copy of the assessment will be kept on file for 1 year.

7.2.2.6.5. (Added) Maintain equipment accountability for ALS assets positioned in support of theater and permanent party aircrew members. Develop tracking mechanism for issuance of non-accountable equipment (i.e., GPSs, laptop computers, etc.) in theater.

7.2.2.6.6. (Added) Direct the implementation, maintenance and support of highly specialized survival radio programs.

7.2.2.6.7. (Added) Direct and monitor the issuance of specialized survival radios and GPSs to deployed units. In the event of a shortage of assets, ejection seat aircraft will have priority for receiving these items.

7.2.2.6.8. (Added) Establish procedures for contacting ALS personnel to include an organizational chart updated each Aerospace Expeditionary Force (AEF) rotation. This paragraph does not apply to ANG units.

7.2.2.6.9. (Added) Maintains a continuity folder, and at a minimum, it must contain the following:

7.2.2.6.9.1. (Added) Operating Instructions.

7.2.2.6.9.2. (Added) Applicable contingency ALS organizational chart.

7.2.2.6.9.3. (Added) Appointment letters.

7.2.2.6.9.4. (Added) Functional points of contact in the area of responsibility (AOR).

7.2.2.6.9.5. (Added) AFI 11-301 and applicable aircraft configuration instructions.

7.2.2.6.9.6. (Added) Syllabus of training for rotation changeover to the new AOR LSS.

7.2.2.6.9.7. (Added) AEF report on the status of ALS in the AOR.

7.2.2.6.9.8. (Added) Trip reports from flying squadrons from previous rotation.

7.2.2.6.9.9. (Added) AOR phone listing.

7.2.2.6.10. (Added) Ensure incoming units complete the NCOIC and supervisor checklist upon arrival in theater.

7.2.2.6.11. (Added) Ensure a flight surgeon visits ALS shops to inspect for cleanliness, hygiene, and other health related problems at least quarterly. Document visit and maintain documentation for at least 1 year.

7.2.2.6.12. (Added) Completes a compiled-trip report from each AEF and forward report to HQ USAFE/DOTS. This paragraph does not apply to ANG units.

7.2.2.6.13. (Added) Maintain accountability for equipment issued and provided to rotating units. Ensure the Custodian Authorization/Custodian Receipt Listing (CA/CRL, R-14) is current and reflects status of equipment on hand, in for maintenance, and on backorder.

7.2.2.6.14. (Added) Provide specialized radios and GPSs to deployed units according to locally established instructions.

7.2.2.6.15. (Added) Establish procedures for locating standby personnel responsible for locating emergency locator beacon transmissions and resolving other off-duty ALS matters.

7.2.2.6.16. (Added) Maintain a current file of regulations, instructions, manuals, and technical orders (common use T.O.s only) pertaining to the issue, inspection, maintenance, and use of ALSE or systems subordinate units possess and ensure compliance with those instructions.

7.2.2.6.17. (Added) Distribute messages and other pertinent information to all deployed units.

7.2.2.6.18. (Added) The AOR LSS is responsible for requisitioning ALSE for permanent party aircrew assigned or attached for flying.

7.2.2.6.19. (Added) Compile deployed unit ALS trip reports and forward a combined trip report for each AEF detailing the status of ALS to HQ USAFE/DOTS functional manager, theater commanders and AEF cell. Trip reports are required if the deployed location is new or if there was a major change in operations at the deployed location. This paragraph does not apply to ANG units.

7.5.1. Sanitize ALSE and inspection forms a crewmember would use or have on their person during aircraft egress and evasion. Items such as multi-place life rafts and passenger ALSE do not require sanitization.

7.8.7. (Added) Except when specifically tasked by an Aircrew Life Support Inspector (either local EET or MAJCOM IG), do not use operational AERP mask (MBU 19/P) during exercises. Units are authorized to wear the MBU-12/P or MBU-20/P, and helmet (with visor down) to simulate the wear of the AERP mask.

Attachment 1 (Added)

GLOSSARY OF REFERENCES AND SUPPORTING INFORMATION

Abbreviations and Acronyms

AOR—Area of Responsibility

ARMS—Aviation Resource Management System

BAI—Backup Aircraft Inventory

CAOC—Combined Air Operations Center

C-CW CONOPS—Counter-Chemical Warfare Concept of Operations

C&SRL—Compliance and Standardization Requirements List

HABD—Helicopter Aircrew Breathing Device

IDEA—Innovative Development Through Employee Awareness

JSRC—Joint Search and Rescue Center

SARLO—Search and Rescue Liaison Officer

TODO—Technical Order Distribution Office

USA—Unit Self Assessment

Attachment 2 (Added)**MANDATORY ACES II SURVIVAL KIT COMPONENTS**

A2.1. The following information contains the mandatory items for ACES II survival kit.

Table A2.1. Mandatory Components for ACES II Survival Kit.

Item	Quantity
Radio Set (PRC-90-series) with spare battery (Note 1)	1 ea
Signal, Distress, MK-13 or MK-124	2 ea
Mirror, Signal, MK-3	1 ea
Strobe light, IR Filter, Flashguard or MS2000 (Note 3)	1 ea
Signal Kit, Personnel Distress, A/P25S-5/A	1 ea
Compass	1 ea
Paint, Face, Camouflage	1 ea
Tourniquet (Mandatory in vest)	1 ea
Life Raft, One Man, Vacuum Packed	1 ea
Repair plugs	1 ea
Knife, Survival, 5-inch, General Purpose, Leatherman Tool®, or equivalent	1 ea
Sponges, Camouflage	2 ea
Container, with matches	1 ea
Whistle	1 ea
Water, flexible package	4 ea
Blanket, Survival (orange and silver) for signaling (Note 2)	1 ea
Packet, Sea Dye Marker	1 ea
Aircrew Survival Pamphlet, AFTTP(I) 3-2.26	1 ea
Bag, Storage, Drinking	1 ea
First Aid Kit (Soft Pack)	1 ea
Locator Beacon, URT-33C/M	1 ea

NOTES:

1. PRC-90-series survival radio is considered the primary peacetime survival radio.
2. Install an orange casualty blanket when LRU-16/P rafts that are not designed with an orange spray shield.
3. For fighter units, as an option, the strobe light may be installed on the torso harness in lieu of the vest.

Attachment 3 (Added)**MANDATORY SURVIVAL VEST COMPONENTS (NOTE 4)**

A3.1. The following information contains the mandatory for survival vests.

Table A3.1. Mandatory Survival Vest Components.

Item	Quantity
Radio Set, PRC-90 series with spare battery (Note 1)	1 ea
Signal, Distress MK-13 or MK-124	1 ea
Mirror, Signal, MK-3	1 ea
Strobe Light, IR Filter, Flashguard or MS2000 (Note 2, 3)	1 ea
Compass	1 ea
Water, flexible package	4 ea
Aircrew Weapon and holster (Combat only)	1 ea

NOTES:

1. PRC-90-series survival radio is considered the primary peacetime survival radio. If sufficient assets are available, PRC-112's will be installed per contingency O-Plans.
2. IR filter and flash guard are only required on strobe lights used to support deployment or contingency operations.
3. For fighter units, as an option, the strobe light may be installed on the torso harness in lieu of the vest.
4. This attachment is for CAF units only. MAF units will use guidance in AFI 11-301V2.

Attachment 4 (Added)

SAMPLE LSS MASTER TASK LIST (MTL)

A4.1. The following information contains a sample LSS MTL.

Table A4.1. Sample LSS MTL.

1.	Ensure Aircrew Life Support personnel are trained and certified in accordance with Chapter 4 of AFI 11-301, Volume I.
2.	Ensure a T.O. distribution account is established for each ALS section assigned within the operations group.
3.	Ensure compliance with Air Force instructions and Technical Orders.
4.	Ensure that ALS sections maintain a current file of publications, T.O.s and manuals pertaining to issue, inspection, maintenance and use of assigned Aircrew Life Support Equipment (ALSE).
5.	Ensure a familiarization program exists to ensure ALS personnel are knowledgeable of T.O.s and publications.
6.	Conduct Staff Assistance Visits (SAV) annually to each subordinate activity. The respective functional manager will determine SAV frequencies for the ANG and AFRC.
7.	Maintain records of SAVs for at least 2 years in accordance with 37-139.
8.	Route SAV reports through the operations group commander (or equivalent) to provide them with an accurate picture of units' health.
9.	Monitor Time Compliance Technical Order (TCTO) programs to ensure satisfactory integration of ALSE with aircrew recovery systems.
10.	Advise HHQs of program delays or supply problems as they occur, and upon completion of the TCTO.
11.	Prepare and evaluate ALS related portions of local support agreements. The LSS is responsible for conducting an annual review.
12.	Support Aero Clubs, if within unit capability, with issue of ALSE and training as outlined in AFI 34-217, <i>Air Force Aero Club Program</i> .
13.	Ensure other units' reports (e.g., operational readiness inspections [ORI], unit compliance inspections (UCI), Air Force audits, etc.) are reviewed for benchmarking and comparison.
14.	Submit requests to the command ALS functional manager for waivers to the CFETP core task requirements.
15.	Conduct initial task certifications for the ALS section NCOICs.
16.	Gather squadron-level acquisition and sustainment recommendations from unit ALS and aircrew personnel to identify ALS systems requirements.
17.	Ensure newly developed Commercial-Off-The-Shelf and None Developmental Items (COTS/NDI) ALSE pursued by units for Air Force aircraft as well as for aircrew use are evaluated and approved using 311 HSW/YA requirements.
18.	Ensure mishap response kits are developed and available to allow active participation as an interim or primary mishap investigation board member.

19.	The LSS or government quality assurance representative (for contract organizations) will serve as a member of the wing Exercise Evaluation Team (EET) to evaluate and ensure compliance with ALS areas of responsibility.
20.	Ensure the ALSCT program is actively managed and instructors are qualified and certified in accordance with Chapter 5 of AFI 11-301, Vol I.
21.	Ensure adequate distraction-free training facilities, sites and equipment are available to conduct all ALSCT events.
22.	Ensure ALS facilities meet standards in AFI 32-1024, <i>Standard Facility Requirements</i> , and AFH 32-1084, <i>Facility Requirements</i> .
23.	Ensure funds are allocated for continued management of all ALS programs and contingency plans.
24.	Ensure, during wartime contingencies, Inspector General Exercises (IGX), Operational Readiness Exercises (ORE), Mobility Exercises (MOBEX), Readiness Assistance Visits (RAV), and generation exercises, ALS personnel must be available to perform mission-essential duties to sustain ALS operations (i.e., ALSE issue, fitting and inspection, aircraft-installed ALSE configurations, pre-deployment ALS briefings, aircrew contamination control area (ACCA) operations, ALSE decontamination, etc.).
25.	Ensure standardized guidance is provided for aircraft and ALSE configurations, mobility and chemical defense operations at bare-base and unit exercise locations. Standardized guidance will be provided to the maximum extent possible.
26.	Ensure ALS functions are advised of changes to applicable contingency plans in time to ensure required equipment is available for deployment.
27.	Ensure compliance with minimum ALSE requirements as established by the provisions of AFI 11-202, Volume 3, <i>General Flight Rules</i> , this instruction, applicable technical orders, and aircraft flight manuals.
28.	Ensure all aircrew and passengers wear or have readily available aboard the aircraft for use all required ALSE. In no case will equipment worn or carried on aircraft be less than that prescribed by AFI 11-202, Volume 3 and AFI 11-301, Volume 2, <i>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)</i> .
29.	Ensure only flying clothing and ALSE items approved "safe-to-fly" and authorized by the Air Force Equipment Management System (AFEMS), T.O.s, aircraft-specific manuals, and this instruction are utilized for flight operations. All other items require approval from appropriate MAJCOM ALS focal point prior to use.
30.	Evaluate and forward waiver requests to respective MAJCOMs, NAFs or ANG.
31.	Assist Operations Group commanders with submitting waivers to requirements outlined in AFI 11-301, Volume 1 when unique or unusual circumstances affect the unit's ability or requirements to implement stated policy or procedure. Forward requests by letter or message through appropriate MAJCOM or ANG to HQ USAF/XOOP describing the specific requirement that is creating the problem and explaining why a waiver is needed.

CHARLES N. SIMPSON, Major General, USAF
Director of Air and Space Operations