

**BY ORDER OF THE COMMANDER,
18TH WING (PACAF)**

PACACF INSTRUCTION 11-301



**18TH WING
Supplement 1**

28 DECEMBER 1996

Life Support

AIRCREW LIFE SUPPORT (ALS) PROGRAM

COMPLIANCE WITH THIS PUBLICATION IS MANDATORY

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SUMMARY OF REVISIONS

This revision incorporates procedures formerly published in PACAFR 55-7/18 WG Sup 1, 28 Sep 92. This supplement applies to all 18th Wing and associate units on Kadena AB. This publication does not apply to the Air National Guard or US Air Force Reserve.

PACAFI 11-301 (cc), 10 October 1995 is supplemented as follows:

2.4.2.1. Units will use 18th Wing standardized AF Forms 797 and 1098 to annotate major in-shop tasks and annual re-certifications. All other recurring training will be documented and tracked in the Core Automated Maintenance System (CAMS).

2.4.2.3. Units may conduct chemical defense task qualification training (CDTQT) in conjunction with local wing readiness exercises.

2.4.2.5. Units will furnish 18th Operations Support Squadron Aircrew Life Support (18 OSS/OSOL) two copies of the completed AF Form 1284, **Training Quality Report (TQR)**. 18 OSS/OSOL will forward them to HQ PACAF/DOTT.

2.4.4.1. Aircrew Life Support NCOICs and designated representatives will perform daily quality assurance (QA) checks of equipment inspected by their unit. QA inspections will be accomplished on all aircraft survival kits and equipment returned from maintenance support agencies.

2.4.5.1. Life Support Systems Quality Council meetings will be held quarterly.

2.6.5.8. Units will e-mail a copy of their program assessment/corrective actions to 18 OSS/OSOL for review and wing crossfeed.

2.6.5.19.1. Units will document all occupational hazards training on AF Form 55, **Employee Safety and Health Record**.

2.7.1.2. 961st Airborne Air Control Squadron (961 AACS) Aircraft Maintenance personnel are responsible for removing and installing Escape Slides and Twenty Man Life Rafts. They will transport life rafts to 961 AACS Aircrew Life Support section and the slides to and from 18th Maintenance Squadron (18 MXS) Survival Equipment section for periodic inspections.

3.6.2. Narrative on AF Form 1206, **Nomination for Award**, is limited to one page. Categories will include Outstanding Duty Performance and Significant Accomplishments, Acceptance of Responsibility, Bearing and Behavior, Self-Improvement Efforts, and Other Accomplishments.

3.7. Units will forward complete nomination packages, through their Squadron Commander, to 18 OSS/OSOL NLT 15 November. 18 OSS/OSOL will convene a selection board, through 18th Operations Group (18 OG), NLT 25 November. After board selections, units and 18 OSS/OSOL will solidify the packages and return to 18 OSS/CC for review and coordination NLT 1 December. 18 OSS/CC will route packages to 18 OG/CC, NLT 15 December. 18 OSS/OSOL will mail completed nomination packages to HQ PACAF/DOIT NLT 31 December for 15 January suspense.

4.3.2. 909th Air Refueling Squadron (909 ARS) and 961 AACS will perform Mission Termination Inventory (MTI) postflight inspections on assigned aircraft following the final mission of the day.

4.5.3.1. Units will pack survival kits for F-15 aircraft depot deliveries with mandatory components outlined in **Attachment 2** of this supplement. Pilots will wear survival vests.

5.2.1.1. **Attachment 1** of this supplement provides minimum aircrew seasonal clothing requirements.

5.2.3.3. Aircrews will transport Night Vision Goggles (NVG) to and from aircraft in NVG carrying cases.

5.4.2.5. The CWU-74/P or 21A/P anti-exposure suit is mandatory for pilots performing over water flights in ejection seat aircraft when the water temperature is 50 degrees F and below. Minimum underclothing includes CWU-43/P and -44/P aramid underwear or 1 Set of waffle weave underwear, CWU-23 liner, and cotton socks. Technical Order 14P3-5-81 and 14P3-5-91 provide optional recommended underclothing items. The flight jacket is optional wear when the anti-exposure suit is worn, however, it should be carried.

5.7. Survival kit components and locations for ACES II, MD-1, and ML-4 survival kits are listed in **Attachment 2** through **Attachment 6**.

5.8.2. Survival vest components and locations are listed in **Attachment 7** through **Attachment 9**.

5.15.4. Units will install SDU-5/E strobe lights in survival vests in-lieu-of parachute installation.

5.17.4.2. Units with Aircrew Eye/Respiratory Protection Equipment (AERP) will leave C2A1 filter canisters and blower batteries in the original sealed manufacturer packaging. Units will install filters and batteries when directed by command authorities.

Table 5.1.

Multi-place aircraft configuration and standard equipment loads are listed in **Attachment 9** through **Attachment 13**.

6.1.2.3. LSOs and training instructors will ensure the quality and technical accuracy of lesson plans. Forward recommended changes to lesson plans through 18 OSS/OSOL, who will forward to HQ PACAF/DOIT for approval. 18 OSS/OSOL will review lesson plans annually.

6.1.2.7. Survival, Evasion, Resistance, and Escape (SERE) training is conducted between October and April. Water survival training is conducted during May through September. Squadron LSOs and ground

training officers will develop a training plan to ensure all individuals coming due during the entire calendar year receive training during the event training cycle.

6.1.2.8. 18 OSS/OSOR will provide 18 OSS/OSOL monthly selective training reports for life support training events from all six flying squadrons, listing command date due and command date last.

6.1.3.4. (Added) Ensure all applicable life support training events are included in the unit quarterly training plan.

6.1.3.5. (Added) Coordinate with flight commanders, ground training officers, schedulers, life support, and survival instructors to accomplish training and to resolve shortfalls or problem areas.

6.1.3.6. (Added) Notify the unit commander of unresolved training shortfalls that require aircrew grounding NLT the last training day of the month or cycle.

6.1.3.7. (Added) Assist other squadrons when their LSO is unavailable.

6.1.3.8. (Added) Ensure newly arrived flyers have completed S-V80-A, S-V90-A/S-V86-A and ensure currency in all training events in PACAFI 11-301, Table 6.1.

6.2. Units will use AFORMS to track all life support continuation training events.

6.2.2.1. With the exception of ACDE, Flight Surgeons are required to complete and maintain currency in all life support training events. These events will be entered and tracked separately in AFORMS.

7.2.2.17. Unit grading criteria will be from the Common-Core Criteria, sub area Aircrew Life Support listed in AFI 90-201, Attachment 5 and PACAFI 11-301, Chapter 7.

Attachment 1

SEASONAL CLOTHING REQUIREMENTS

A1.1. 18 WG aircrew flying ejection seat equipped aircraft are required to wear flight clothing as specified below. Aircrew in non-ejection seat aircraft will either wear or carry the required clothing items.

A1.1.1. Minimum Flight Clothing

To be worn on all 18 WG flights, year-round, regardless of temperature.

A1.1.1.1. Flying coveralls, Nomex, CWU-27/P

A1.1.1.2. Flying gloves, Nomex

A1.1.1.3. Flight boots, FWU-8/P

A1.1.2. The following winter items will be added to the minimum flight clothing listed above from November through April. Units should use these temperature variables to determine clothing requirements when preparing for deployments.

A1.1.2.1. Temperatures between 45 and 60 degrees F

A1.1.2.1.1. Flying jacket, (lightweight) CWU-36/P

A1.1.2.2. Temperatures between 32 and 45 degrees F

A1.1.2.2.1. Flying jacket, (winter weight) CWU-45/P

A1.1.2.2.2. Thermal underwear (aramid, polypropylene, or cotton)

A1.1.2.3. Temperatures between 0 and 32 degrees F

A1.1.2.3.1. Winter Flight Boots, (Insulated) FWU-3/P or winter weight "Danners"

A1.1.2.3.2. Flying Jacket, (winter weight) CWU-45/P

A1.1.2.3.3. Leather gloves/mittens with wool inserts, (Nomex gloves will be worn in the aircraft)

A1.1.2.3.4. Thermal underwear (aramid, polypropylene, or cotton)

A1.1.2.4. Temperatures colder than 0 degrees F, and for Cope Thunder Deployments (1 October through 15 April). In order to comply with 11AF provisions, their clothing requirements are restated here for ease of reference. Three layer combination of clothing for all flights:

A1.1.2.4.1. Flying coveralls, Nomex, CWU-27/P (summer weight) plus one of the following:

A1.1.2.4.1.1. Quilted liner (jacket & drawers), or

A1.1.2.4.1.2. Fat boy pants combined with winter flight jacket, or

A1.1.2.4.1.3. Nomex winter flying coverall

A1.1.2.4.2. Flying gloves, Nomex (Nomex gloves/with inserts will be worn in the aircraft)

A1.1.2.4.3. Approved footwear (mukluks, "Sorels", or bunny boots)

A1.1.2.4.4. Flying jacket, (winter weight) CWU-45/P

A1.1.2.4.5. Thermal underwear (aramid, polypropylene, or cotton)

A1.1.2.4.6. Leather gloves/mittens with wool inserts

A1.1.2.4.7. Heavy cap (B-9B, wool cap, or insulated hood for flight jacket)

A1.1.3. When the minimum expected temperature along the route of flight is above zero degrees Fahrenheit, Squadron Operations Officers may authorize the wear of moderate winter flight clothing (i.e. two layers). The two layer combination will include:

A1.1.3.1. Flying coveralls, Nomex, CWU-27/P (summer weight)

A1.1.3.2. Nomex flight gloves with liners

A1.1.3.3. Approved footwear (mukluks, "Sorels", or winter weight "Danners")

A1.1.3.4. Flying jacket, (winter weight) CWU-45/P

A1.1.3.5. Thermal underwear (aramid, polypropylene, or cotton)

A1.1.3.6. Heavy cap (B-9B, wool cap, or insulated hood for flight jacket)

Attachment 2

SURVIVAL KIT JII4510 MANDATORY ITEMS (F-15)

COMPONENTS	QTY
*Life Raft, one man LRU-22/P or (LRU-16/P)	1 each
*Radio, PRC-90-2 with battery installed, (1 ea.) spare battery and earphone	1 each
*/**Signal, Smoke MK-13 or MK-24 MOD-O	1 each
*Signal kit, Distress, A/P 25S-5A	1 each
*Tropical First Aid Kit (soft pack)	1 each
*5" Hunting Knife and Sheath	1 each
*Survival Tool Leatherman	1 each
*Match Container with matches	1 each
*Whistle, police, plastic	1 each
*Light Sticks, Cyalume	3 each
*Water, Flexible Package	4 each
Life Raft repair plug	2 each
Sea Dye marker	1 each
Bag, Water 3 pint	1 each
Water, Flexible Package	6 each
Combat Survival Blanket (OD green)	1 each
Insect Repellent (cutter)	1 each
Sunscreen (bullfrog 30)	1 each
Wool Hood	1 each
Cold Weather Socks (polypropylene)	1 pair
Sponge (OD green)	1 each
Aircrew Survival Pamphlet AFP 36-2246	1 each
Beacon, URT-33C/M	1 each
* Item will be packed in auxiliary survival kit.	
** A second Signal, Smoke MK-13 or MK-24 MOD-O will be added to survival kit prior to A/C transfers or depot deliveries.	

Attachment 3**ML-4 SURVIVAL KIT MANDATORY ITEMS (KC-135)**

COMPONENTS	QTY
Repair Kit, Life Raft w/pliers	2 each
Life Raft LRU-16/P or LRU-21/P	1 each
Water, Flexible Package	4 each
Combat Blanket (OD Green)	1 each
Radio, PRC-90-2 with battery installed	1 each
Mittens, Set type N4B	1 pair
Water Bag (3 pt)	1 each
Hood Winter, Wool	1 each
Hat Camouflage	1 each
Aircrew Survival Pamphlet AFP 36-2246	1 each
Socks Wool, Size 12	1 each
Sea Dye Marker	1 each
Desalinator, Reverse Osmosis 06	1 each
Compass	1 each
Mirror, MK-3	1 each
Signal, Personal Distress, A/P25S-5A	1 each
Kit, First Aid, Individual	1 each

NOTE: Secure mandatory components to the survival kit container in accordance with TO 14S1-3-51, Section II.

Attachment 4

ML-4 SURVIVAL KIT MANDATORY ITEMS (HH-60)

COMPONENTS	QTY
Life Raft LRU-16/P or LRU-21/P	1 each
Radio, PRC-90-2 with battery installed, (1 ea.) spare battery and earphone	1 each
Repair Kit, Life Raft w/pliers	2 each
Water, Flexible Package	4 each
Manual Reverse Osmosis Desalinator, 06	1 each
Signal Smoke MK-13/124 MOD O	2 each
Signal Kit (A/P25S-5A)	1 each
Signal Mirror (2x3 in)	1 each
Sea Dye Marker	1 each
Water Bag (3 pt)	1 each

NOTE: Secure components to the survival kit container in accordance with TO 14S1-3-51, Section II.

Attachment 5

MD-1 SURVIVAL KIT MANDATORY COMPONENTS (KC-135)

COMPONENTS	QTY
Life Raft, LRU-16/P	1 each
Compass Lensatic	1 each
Signal Kit, MK-13 or MK-124 MOD O	2 each
Signal Kit, A/P25s-5A	1 each
Mirror, Signal MK-3, Type I or II	1 each
First Aid Kit, Individual or Tropical	1 each
Radio, PRC-90-2 with battery installed, (1 ea.) spare battery and earphone	1 each
Raft Repair Plugs	2 each
Bag, Storage, Water (3 Pint)	1 each
Bag Sleeping, (MC-1)	1 each
Match Container with Matches	2 each
Hood, Winter, Wool	1 each
Socks, Wool	1 pair
Mitten Inserts, Wool, N-3B	1 pair
Sun Hat, Camouflage	1 each
Strobe Light (SDU-5E) with IR. Filter and Flashguard Attached	1 each
Camouflage Stick	1 each
Sea Dye Marker	1 each
Water, Flexible Package	6 each
Pocket Knife	1 each
Whistle	1 each
Insect Repellent (cutter)	1 each
Sunscreen (bullfrog 30)	1 each
Aircrew Survival Pamphlet, AFP36-2246	1 each
Magnesium Bar (fire starter)	1 each

NOTE: Secure components to the survival kit container in accordance with TO 14S1-3-51, Section II.

Attachment 6

SLED KIT MANDATORY ITEMS (E-3 B/C)

COMPONENTS	QTY
Radio, PRC-90-2, with battery installed, (1 ea.) spare battery and earphone	1 each
Hand Pump, Type III	1 each
Adapter Distillation Kit	1 each
Adapter Pump	1 each
Raft Repair Kit	1 each
First Aid Kit Tropical	6 each
Signal Mirror	1 each
Signal Smoke MK-13 or MK-124 MOD O	4 each
Desalter Kit	5 each
Distillation Kit	4 each
Knife Raft	1 each
Strobe Light (SDU-5/E)	1 each
Food Packet (GP)	5 each
Water Storage Bag Size A (5 QT)	5 each
Aircrew Survival Pamphlet AFP 36-2246	1 each
Bailing Sponge	2 each
Bailing Bucket	1 each
Fishing Kit	1 each
Sunscreen (Bull frog 30)	6 each
Canopy, Raft	1 each
Canopy, Mast	1 each
Canopy, Rods	6 each
Survival Blanket (OD Green)	3 each
Sea Dye Marker	4 each
Compass	1 each
Cord Nylon (30 Ft. Coil)	1 each
Whistle	1 each
Water, Flexible Package	27 each

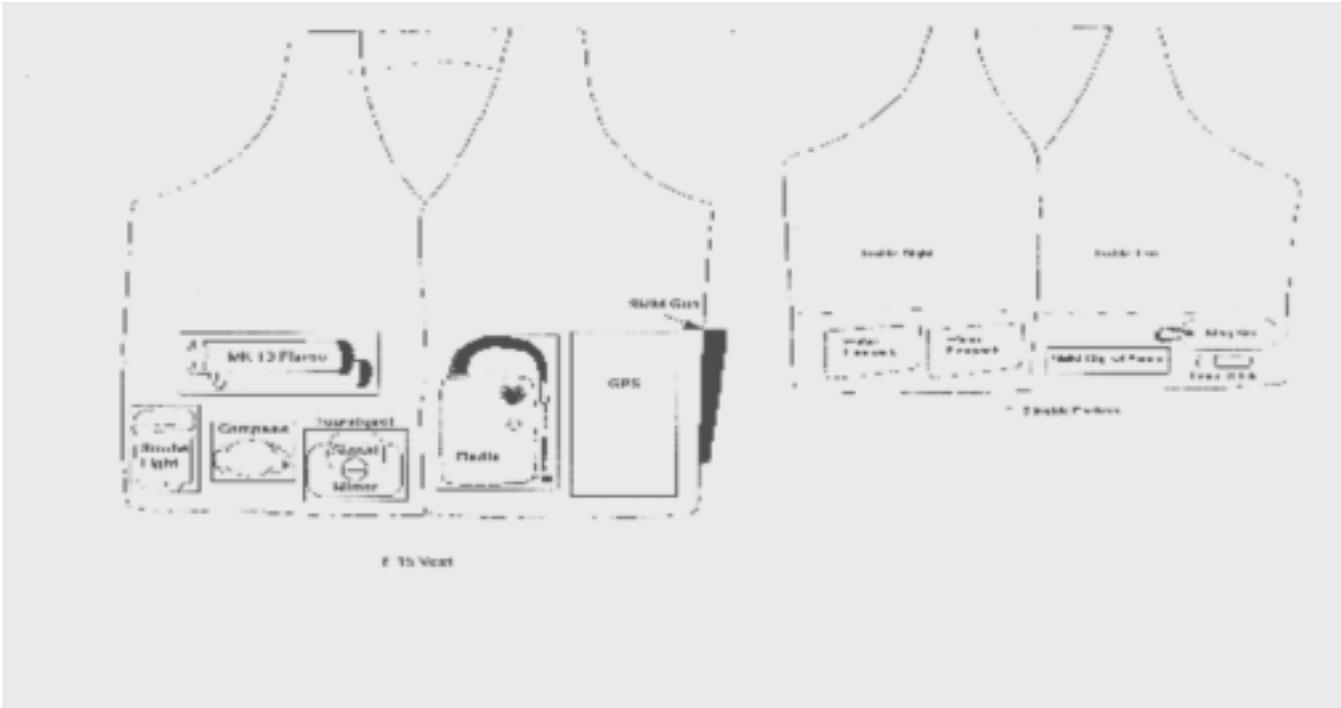
Attachment 7

SRU-21/P SURVIVAL VEST MANDATORY COMPONENTS (F-15)

COMPONENTS	QTY
Radio PRC-90-2/112, with battery installed, (1 ea.) spare battery and earphone	1 each
Signal Smoke MK-13 or MK-124 MOD O	2 each
Tourniquet	1 each
Compass	1 each
Mirror Signal MK-3, 2x3 in	1 each
Strobe Light (SDU-5E) with IR filter and Flashguard	1 each
Face Paint, Camouflage	1 each
Magnesium Bar	1 each
Water, Flexible Package	2 each
Global Positioning System (GPS)	1 each
Handgun, 9MM	1 each (A/R)
Ammunition, 9MM	30 rd. (A/R)

NOTE: A personal survival kit may be carried in the survival vest provided the personal kit contains items selected from those optional items identified in Table 11-1 of 14S1-3-51. If more than one item is carried they must be consolidated into a container instead of being placed loose in the vest pockets.

NOTE: The location of survival vest components are as depicted.



Attachment 8

SRU-21/P SURVIVAL VEST MANDATORY COMPONENTS (KC-135 AIRCREW)

COMPONENTS	QTY
Radio, PRC-90-2, with battery installed, (1 ea.) spare battery and earphone	1 each
First Aid Kit Tropical	1 each
Signal Smoke MK-13 or MK-124 MOD O	1 each
Signal Kit A/P25S-5A	1 each
Compass, Lensatic	1 each
Strobe Light (SDU-5/E) with IR. Filter and Flashguard	1 each
Signal Mirror, MK-3 (2"x 3")	1 each
Water, Flexible Package	2 each
Match Container with Matches	2 each
Sunscreen (Bull frog 30)	1 each
Insect Repellent (cutter)	1 each
Whistle	1 each
Pocket Knife or Survival Tool, Leatherman	1 each
Camouflage Stick	1 each
Tourniquet	1 each
Magnesium Bar	1 each

NOTE: A personal survival kit may be carried in the survival vest provided the personal kit contains items selected from those optional items identified in Table 11-1 of 14S1-3-51. If more than one item is carried they must be consolidated into a container instead of being placed loose in the vest pockets.

NOTE: The location of survival vest components are as depicted.



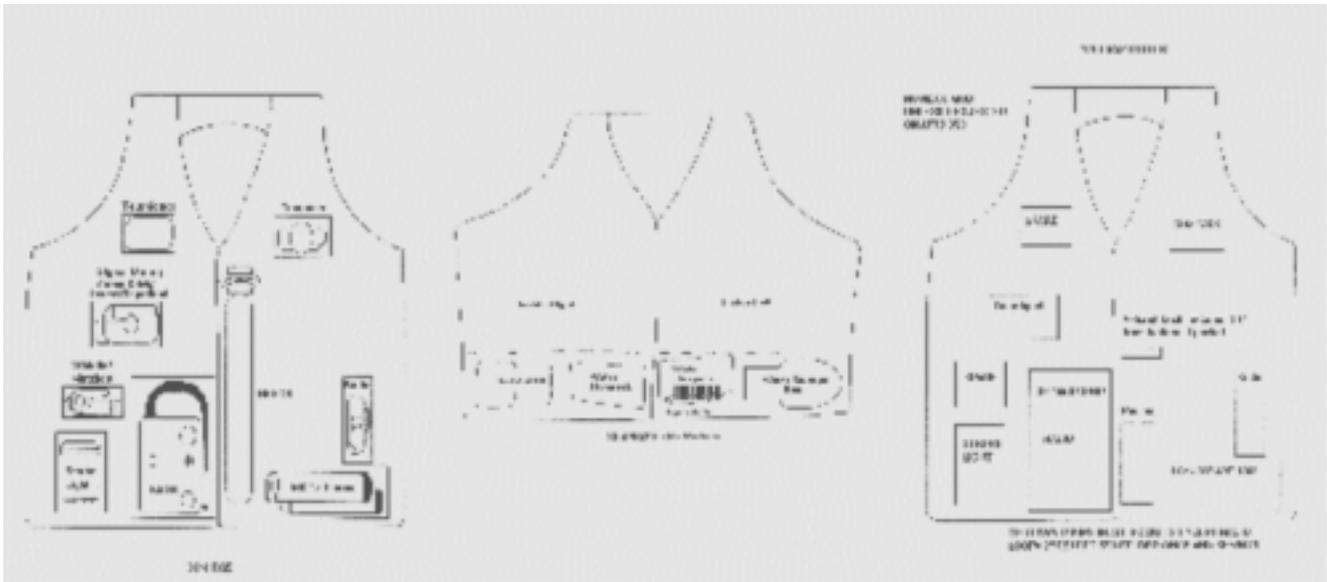
Attachment 9

SRU-21/P SURVIVAL VEST MANDATORY COMPONENTS (HH-60 AIRCREW)

COMPONENTS	QTY
Radio PRC-90-2/112, with battery installed,(1 ea.) spare battery and earphone	1 each
Signal Smoke MK-13 or MK-124 MOD O	2 each
Signal Kit (A/P-25S-5A)	1 each
First Aid Kit (tropical plastic bag)	1 each
Tourniquet	1 each
Compass Lensatic	1 each
Mirror Signal (type 1 2x3 in.)	1 each
Strobe Light (SDU-5/E) with IR. filter and Flashguard attached	1 each
Camouflage Paint face	1 each
Water, Flexible Package	2 each
Pocket Knife (US)	1 each
Signal Whistle	1 each
Insect Repellent (cutter)	1 each
Match Container with/matches	1 each
Water Bag (3 PT)	1 each
Heeds Bottle	1 each

NOTE: A personal survival kit may be carried in the survival vest provided the personal kit contains items selected from those optional items identified in Table 11-1 of 14S1-3-51. If more than one item is carried they must be consolidated into a container instead of being placed loose in the vest pockets.

NOTE: The location of vest components are as depicted.



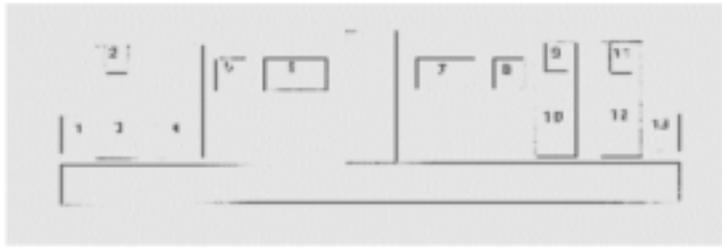
Attachment 10**PARARESCUE LOAD BEARING EQUIPMENT VEST (NYLON)**

The pararescue aircrew (PJ), as an extension of the rescue aircraft, regularly deploy from the aircraft and are authorized to wear the SRU-21/P survival vest or the PJ Load Bearing Equipment (LBE) vest as required for mission execution. The following mandatory survival equipment must be included in the LBE in order for the PJ to use the LBE in place of the SRU-21/P vest for flying on a daily basis. If the SRU-21/P vest is used it will be the same configuration as [Attachment 9](#), PACAFI 11-301/18 WG Sup 1.

POCKET	ITEM	QTY
1	Compass, Lensatic or Silva ranger	1 each
2	Personal	
3	Magazine Pouch	
4	Radio PRC-90/112 series W/Spare Battery (Note 1)	1 each
5	Personal	
6	First Aid Kit	1 each
	Whistle, Plastic	1 each
	Matches W/Waterproof Container	1 each
7	Signal, Smoke and Illumination MK-13/124	2 each
	Signal Kit, Distress, A/P25S-5A	1 each
8	Personal	
9	Mirror, Signaling 2x3	1 each
10	Magazine Pouch	
11	Personal	
12	Personal	
13	Light, Marker SDU-5/E, W/Flashguard and Infrared Filter	1 each
Personal Preference Positioning (PPP)		
	Knife, Pocket or Survival Tool, Leatherman (Note 2)	1 each
	HEED bottle	1 each (A/R)
	Marker, sea dye	1 each (A/R)

Note 1: Indicates mandatory tie in item.

Note 2: Pocket knife will be located between web belt and pocket # 12.



Attachment 11

KC-135 AIRCRAFT EQUIPMENT CONFIGURATION

COMPONENTS	QTY
Quick-Don Mask w/Anti. Smoke Goggle	2 each
Smoke Mask, Fire Fighters	2 each
EEBD	2 each
Passenger Oxygen Kit (POK)	60 each
Protective Clothing Kit (PCK)	1 each
Flashblindness Goggles, EEU Series, with Eye patch (Note 1)	4 each
Parachute, BA-18	5 each
Life Raft, F-2B	3 each
Life Preserver, Adult/Child	60 each
Infant Cot, LPU-6/P	5 each
Life Preserver, LPU-10/P	5 each
Life Preserver, MB-1	2 each
Survival Kit, MD-1/ML-4	5 each
Survival Vest SRU-21/P	5 each

Note 1: Preposition 4 ea. EEU Series Goggles when mission dictates. MIL-G-635 Goggles w/eye patch may be used as a substitute for EEU Series.

Note 2: Live Aboard Accommodations, Prepositioned 60 MREs and 96-100 cans of packaged water per aircraft when required IAW PACAFI 11-301 paragraph 5.5.2.5.

Attachment 12**AIRCRAFT INSTALLED MANDATORY EQUIPMENT (E-3 B/C)**

COMPONENTS	QTY
LPU-10/P Life Preserver	40 each
CWU-16/P Exposure Suit	40 each
Passenger Oxygen Mask P.N. 249-350/355	25 each
MBU-10/P or MBU-12/P Quick Don	22 each
358 Series Quick Don/Goggles	5 each
Sled Kits	2 each
F2B Life Rafts	2 each
Smoke Masks	6 each
Passenger Oxygen Kit	10 each
Restraint Harness	1 each

Attachment 13

AIRCRAFT INSTALLED MANDATORY EQUIPMENT (HH-60)

COMPONENTS	QTY
LPU-10/P Life Preserver	2 pair
T-9 Life Raft	1 each
T-9 Life Raft Inner Container Components	
Radio, PRC-90-2, with Spare Battery	1 each
Signal, Smoke and Illumination	2 each
Signal Kit, A/P 25S-5A	1 each
Water Bag, 5 Quart	2 each
Mirror, Signaling, Type II	1 each
First Aid Kit	1 each
Water, Flexible Package	20 each
AFP 36-2246	1 each
Marker, Sea Dye	4 each
Compass	1 each
Knife, Raft	1 each
Life Raft Repair Kit, W/Pliers	4 each
Sponge, Bailing	2 each
Bucket, bailing	1 each
Chapstick	7 each
Sunscreen	7 each
Fishing Kit	1 each
Canopy, W/Rods	1 each
Nylon Cord, 100 Lb., 50 feet	2 each
Manual Reverse Osmosis Desalinators	1 each

JOHN R. BAKER, Brigadier General, USAF
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