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Doc, ARCCO, subj: Use of HH-43B
and HU-16 Aircraft for Combat
Aircrew Rescue/Recovery Mission
in Republic of Vietnam,
17 Jan 64

This document downgraded
in its entirety to UNCLASSIFIED
per HQ ACC/DO letter dated
26 May 1995, signed by
Colonel Lance L. Smith,
Asst Director of Operations

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EXEMPT FROM GENERAL DECLASSIFICATION
SCHEDULE OF EXECUTIVE ORDER 11652
EXEMPTION CATEGORY 1
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AIR RESCUE SERVICE (MATS)

United States Air Force

Orlando Air Force Base, Florida

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17 JAN 1964

ARCCO

u (S) Use of HH-43B and HU-16 Aircraft for Combat Aircrew Rescue/
Recovery Mission in Republic of Viet Nam

MATS

1. (U) References:

- a. Headquarters ARS letter (ARXDC), 25 October 1963, subject:
(U) ARS Area Rescue/Recovery Force Requirements.
- b. Headquarters PACAF letter (PFODC), (S), 28 October 1963,
subject: (U) Requirement for an Aircrew Recovery Vehicle in the
Pacific Command.
- c. Headquarters ARS letter (ARCCO), (C), 18 November 1963,
subject: (C) Critical Requirement for MATS Professional Air Rescue
Forces in RVN.
- d. PACAF message (S) (PFODC) 1-2008, 26 December 1963.
- e. Headquarters ARS message (S) (ARCCO) 346-M, 31 December 1963.
- f. PACAF message (S) (PFODC) 1-035, 9 January 1964.

eu 2. (S) Purpose: To present information resulting from a study
made by this headquarters concerning the feasibility of employing
ARS HH-43B and HU-16 aircraft in support of the rescue/recovery
mission in the Republic of Viet Nam (RVN) and to request certain
actions.

eu 3. (S) General: A definite requirement exists for professionally
qualified Combat Aircrew Rescue/Recovery forces in the RVN due to
the following reasons: a high combat sortie rate, high density
traffic, extensive intra-theater airlift of personnel, adverse weather
conditions, and the resulting number of SAR missions experienced. The
requirement is definitely a responsibility of the USAF under AFR
55-7(C), "Wartime Search and Rescue (SAR)," and ARS considers it a
mission of first priority today. Although HH-3C helicopters are
required to accomplish the total mission and have been urgently
requested (see Reference c), ARS action with present equipment is
definitely needed now.

eu 4. (S) Concept of Operations (Reference Tab A): Deploy sixteen
HH-43B helicopters and three HU-16 aircraft to the following (7 Incl Ref Mat 19)

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EXEMPT FROM GENERAL DECLASSIFICATION
SCHEDULE OF EXECUTIVE ORDER 11652
EXEMPTION CATEGORY
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locations: four (4) each helicopters to Bien Hoa, Can Tho, Da Nang, and Pleiku, and three (3) HU-16 aircraft to Nha Trang. The primary helicopter mission will be Combat Aircrew Rescue/Recovery and a secondary mission will be Local Base Rescue. Helicopter forces will be deployed PCS from USAF resources. The HU-16 aircraft will deploy from the 31st and 33d Air Rescue Squadrons on a rotational plan and will provide area search and on-scene commander capability. Para-rescue personnel will be employed with both type aircraft.

5. ^{eu} (S) Capabilities, Limitations, and Modification Requirements of the HH-43B Helicopter (Reference Tab B):

a. Operational capabilities which are outstanding in the HH-43B are high payload limits and excellent hovering performance at high density altitudes.

b. Inherent limitations are found in the relatively low top speed of 105 knots, the vulnerability of the blade flaps and control rods to ground fire and heavy precipitation, and lack of twin engine reliability.

c. Mandatory modification requirements prior to deployment to RVN:

(1) Install self-sealing fuel tanks to include an extended range tank.

(2) Install MM-4 attitude indicator (or equivalent) for improved instrument flying capability.

(3) Provide flak curtains for protection of the crews.

(4) Modify the hoist winch to accommodate a 200 to 250 foot cable.

(5) Modify blade flaps to withstand flight through heavy precipitation.

(6) Install VHF-101 AM and ARC-44 FM radios. (TAB D.)

NOTE: Kaman Aircraft Corporation has indicated their capability to accomplish modifications at the factory within a reasonable period.

6. ^{eu} (S) Operations/Training (Reference Tab C):

a. HH-43B helicopters will normally be dispatched in pairs, one to act as cover and backup for the other. One helicopter will also

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recover the other helicopter crew and recovered personnel should it be forced down. Specific location of downed aircrews will be determined by other aircraft, or from intelligence and operational sources, prior to deploying HH-43B helicopters. Routes to and from the pickup point will be irregular and evasive, avoiding all known firing capability of hostile forces. Altitudes above known enemy firepower will be maintained en route. Fighter aircraft coverage will be provided helicopter flights. Approaches and departures at both the pickup point and at operating bases will be at maximum rates including evasive action spiral maneuvers. All crew members will be proficient in delivering "heads-down" firepower with hand-held automatic rifles.

b. The present high proficiency level of ARS aircrews and support personnel indicates a minimum of additional required training to include combat operations techniques, intensive instrument flying, small arms firing, and escape and evasion training. Training can be accomplished during the time aircraft are being modified.

u/c
7. (S) Communications (Reference Tab D): In order for the HH-43B helicopter to perform an unrestricted combat recovery mission in Viet Nam, it must be modified with VHF/AM, and VHF/FM. The HU-16 aircraft must be modified with VHF/FM. Installation of IFF in HH-43B helicopters should be predicated on tactical requirements.

u/c
8. (S) Logistics (Reference Tab E):

a. (U) General: Support as outlined in AFR 11-4 must be provided at operational locations for the HH-43 Detachments and the HU-16 deployed aircraft.

b. Supply: Logistical support for the operation will require a precedence rating of 1-X. Furthermore, priority air resupply will be required for the first six months of operation. Authorization of four additional mission support kits will be required to provide increased logistical support at operating locations.

c. Maintenance: Maintenance will be conducted in accordance with existing phase concept.

u/c
9. (S) Manpower and Organization (Reference Tab F):

a. In addition to the manpower now authorized in Det 3, Pacific Air Rescue Center, 51 officers and 135 airmen will be required. This includes the organization of four helicopter detachments with a 1.5:1 aircrew ratio, augmentation of the JNARC, and a rescue operational

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commander. Approximately 36 officers and 58 airman authorizations can be made available from current ARS manning. This leaves a deficit of 18 officers and 80 airman.

b. Four helicopter detachments will be assigned to the Pacific Air Rescue Center. Operational control will be vested in 2d Air Division and will be exercised through Detachment 3, Pacific Air Rescue Center (JSARC). HH-16B aircraft will be deployed from existing ARS units (31st and 33d Air Rescue Squadrons), and will be under the operational control of Detachment 3, Pacific Air Rescue Center (JSARC).

10. (2) Personnel (Reference Tab C): Personnel in support of the helicopter operation should be drawn from Air Force-wide resources. Personnel should be assigned RCS and action taken to expedite the deployment on a priority basis. ARS does not possess sufficient officers and airman in the skills required to support the entire requirement without severe degradation of its COMUS resource. The personnel requirement, when levied on an equitable basis Air Force-wide, will result in sufficient numbers of ARS qualified personnel being withdrawn to provide key personnel who are highly qualified professionals in the mission area.

11. (3) Attrition: An attrition factor must be considered in the RVN environment. Although an accurate attrition rate is not available for this type of operation, consideration of the hazards indicates justification for six helicopters. Recommend these helicopters be included in the modification contract with Kaman Aircraft Corporation in order that reduced unit costs may be realized and immediate availability will be assured.

12. (3) Conclusion: The immediate requirement for professional rescue forces in the RVN to support the present combat situation can be satisfied by the employment of an interim helicopter until HH-3C helicopters are available. The HH-43B is the most adaptable helicopter in the ARS inventory. With modifications, it will be capable of fulfilling the urgent requirement. Therefore, it is requested that:

a. This proposal be approved.

b. Required modifications on twenty-two HH-43B helicopters be made at Kaman Aircraft Corporation, as follows:

(1) Install self-sealing fuel tanks to include an extended range tank.

(2) Install M4-4 attitude indicator (or equivalent).

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(3) Install modified hoist winch to accommodate a 200 to 250 foot cable.

(4) Install modified blade flaps capable of withstanding flight in heavy precipitation.

(5) Install flak curtains.

c. The remaining HH-43B helicopters under production contract at Kaman Aircraft Corporation, with scheduled delivery to ARS by 1 April 1964, be programmed for the above modifications and subsequent assignment to this mission.

d. Additional HH-43B helicopters from ARS resources be programmed, as directed by USAF, for the above modifications and subsequent assignment to this mission.

e. Prompt action be taken by Headquarters USAF to accomplish the reallocation of HH-43B resources necessitated by the above actions.

f. A precedence rating of 1-X be assigned for logistical support.

g. Authorization be granted for four additional mission support kits (MSK) for HH-43B helicopters.

h. Organizational actions be effected within four months following approval of this proposal, and that manpower allocations be programmed so as to provide total resources concurrently with completed organizational actions.

i. Action be taken to assure PCS assignment and deployment of personnel on a priority basis.

13. Classification: This document is classified Secret in order to uphold the classification previously assigned by Headquarters PACAF to this subject.

ADRIEL N. WILLIAMS
Brigadier General, USAF
Commander

7 Atch

1. TAB A. Concept of Operations
2. TAB B. HH-43B Combat Capabilities/
Limitations
3. TAB C. Operations and Training
4. TAB D. Avionics Requirements

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- 5. TAB E. Logistics
- 6. TAB F. Manpower and Organization
- 7. TAB G. Personnel

Copies to:

PACAF

Pacific Air Rescue Cen

Atlantic Air Rescue Cen

Central Air Rescue Cen

Western Air Rescue Cen

Eastern Air Rescue Cen

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(U) CONCEPT OF OPERATIONS

1. ^U~~(S)~~ The primary mission of HH-43B helicopter Combat Aircrew Rescue/Recovery forces will be directed and coordinated by Joint Search and Rescue Center (JSARC), and responsive to 2d Air Division operational control. The secondary mission will be aircraft fire suppression within close proximity of the assigned base of operations, and will be by direction of the detachment commander in accordance with procedures established by coordination with JSARC. These forces will be used solely for the primary and secondary missions. Helicopter detachments will operate with four HH-43B helicopters from each of the following bases in RVN: Bien Hoa, Can Tho, Da Nang, and Pleiku, with six additional modified helicopters assigned to ARS for command support. Flying hours will be programmed at the rate of thirty hours per month per helicopter. Helicopters will normally be dispatched in pairs, one to act as cover and backup for the other. As this operation will be under field conditions with limited supply and maintenance support, an in-commission rate of 50 per cent is anticipated. Therefore, the assignment of four helicopters to each operating location is mandatory. The detachments will provide capability of prompt recovery of downed aircrew personnel involved in aircraft accidents, incidents, or similar occurrences within operating limits of the helicopters, but will not be used for extended pattern search activities. These forces will be deployed with fighter cover. Helicopters deployed to RVN will be modified and equipped with limited hand-held defensive firepower, protective armor, and provisions for range extension. ARS aircrew members will be trained and equipped for Combat Aircrew Rescue/Recovery operations. Pararescue personnel and helicopter flight mechanics will be trained and used as firefighters in order to preclude reassignment of additional personnel qualified only as firefighters.

2. ^U~~(S)~~ ARS will provide three HU-16 aircraft at Nha Trang Air Base, under the operational control of JSARC, to provide area search and on-scene commander capabilities over land areas for combat rescue/recovery operations. Over water areas these forces will provide low level visual and electronic search, pararescue capability, and retrieval of downed aircrews by water landings.

3. (U) SAR, communications, and authentication procedures will apply as provided by Joint Regulation: AFR 55-7, AR 525-90, SUPP, NWP 37(A), (U) Wartime Search and Rescue (SAR) Procedures.

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(S) HH-43B COMBAT CAPABILITIES/LIMITATIONS

1. (U) Rotor System. The blade itself does not appear to be more vulnerable than any other helicopter blade. The rotor head appears average compared to other helicopters for withstanding battle damage. Blade flaps and controls leading to them are vulnerable to battle damage, but the control rods are made of steel and no protection for either is possible. Erosion of blade flaps in rain is a problem, however, a new flap leading edge cover made of polyurethane is being tested and promises to alleviate this problem.

2. (S) Fuel System.

a. Self-sealing fuel tanks are necessary to prevent fire hazard and fuel loss when struck by enemy fire or penetration by sharp objects when landing on unprepared fields. Since range is critical, any additional loss of fuel would jeopardize the mission, aircraft, and crews. Self-sealing tanks, capable of withstanding 30 caliber fire and interchangeable with those presently in the HH-43B, will be available in 12 weeks from the time the contract is let. No increase in basic weight results due to a loss of approximately four gallons of fuel and a gain of approximately 26 pounds in tank weight.

b. The present radius of action of the HH-43B is 61 nautical miles. Radii of action from the proposed host bases are shown by the inner green circles on the attached map. (Atch 1.) To completely cover all areas requires range extension. There are no auxiliary fuel tanks available at this time. A requirement exists for external drop tanks. However, pending development of such tanks, an interim 150 gallon tank in the cabin is acceptable. A self-sealing tank of this design weighing 90 pounds and gravity feeding to the main tanks can be made available by Kaman Aircraft Corporation within 10 weeks of contract approval. The extra 150 gallons of fuel will be more than double the present range of the HH-43B and provide greater flexibility of operation. The larger circles on the map (Atch 1), represent the range of the HH-43B with range extension.

c. Assuming that JP-4 fuel is made available at all locations indicated on the map (Atch 1), most of Viet Nam could be covered by staging the HH-43B. Areas that cannot be covered by this method are marked by checks on the map. Locations which now have JP-4 fuel are marked by a cross. This method of range extension is less desirable than the use of auxiliary tanks due to the nature of the mission in which the time element is of paramount importance. The use of staging locations for refueling would also increase exposure of helicopters to

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ground fire as well as present many problems associated with maintaining adequate uncontaminated fuel supplies.

3. (U) Instrument Capability. The HH-43B possesses a limited instrument flight capability and can be used for unavoidable instrument flights not to exceed 30 minutes actual weather due to pilot fatigue. Recent adverse weather tests conducted by ASD, Wright-Patterson AFB, Ohio, disclosed the need for the HH-4 attitude indicator (or equivalent) to be installed in the HH-43B. (Reference ASD-TDR-62-454 Project Number 921A/8770, Adverse Weather Tests of the HH-43B). This installation is a mandatory modification.

4. (S) Winch Cable. Due to the height of the trees in some areas of the RVN, a minimum of 200 feet of hoist cable is required with 250 feet desirable. Present cable length is 100 feet. Kaman Aircraft Corporation advised that a reel and cable of this capacity are available.

5. (U) HH-43B Airspeed. This aircraft's red line airspeed is 105 knots. Rotor induced vibration levels are excessive at maximum airspeeds for all gross weights, altitudes, and rotor speeds. The aircraft's relatively low airspeed is a limiting factor in this mission.

6. (S) Personnel Protection.

a. Flak curtains and body armor will be used until better protection can be procured. Kaman Aircraft Corporation is developing a capsule seat to protect helicopter pilots; however, this program is 12 months away.

b. An Armalite rifle and a .38 caliber revolver will be carried by each crew member in order to provide defensive firepower if required.

c. Survival kits designed for this area can be procured locally at Tan Son Nhut.

d. Crew members' hard hats will be painted OD color and the fatigue uniform worn in lieu of the flying suit.

e. Parachutes will be worn with extras carried aboard the helicopter for use by recovered aircrews.

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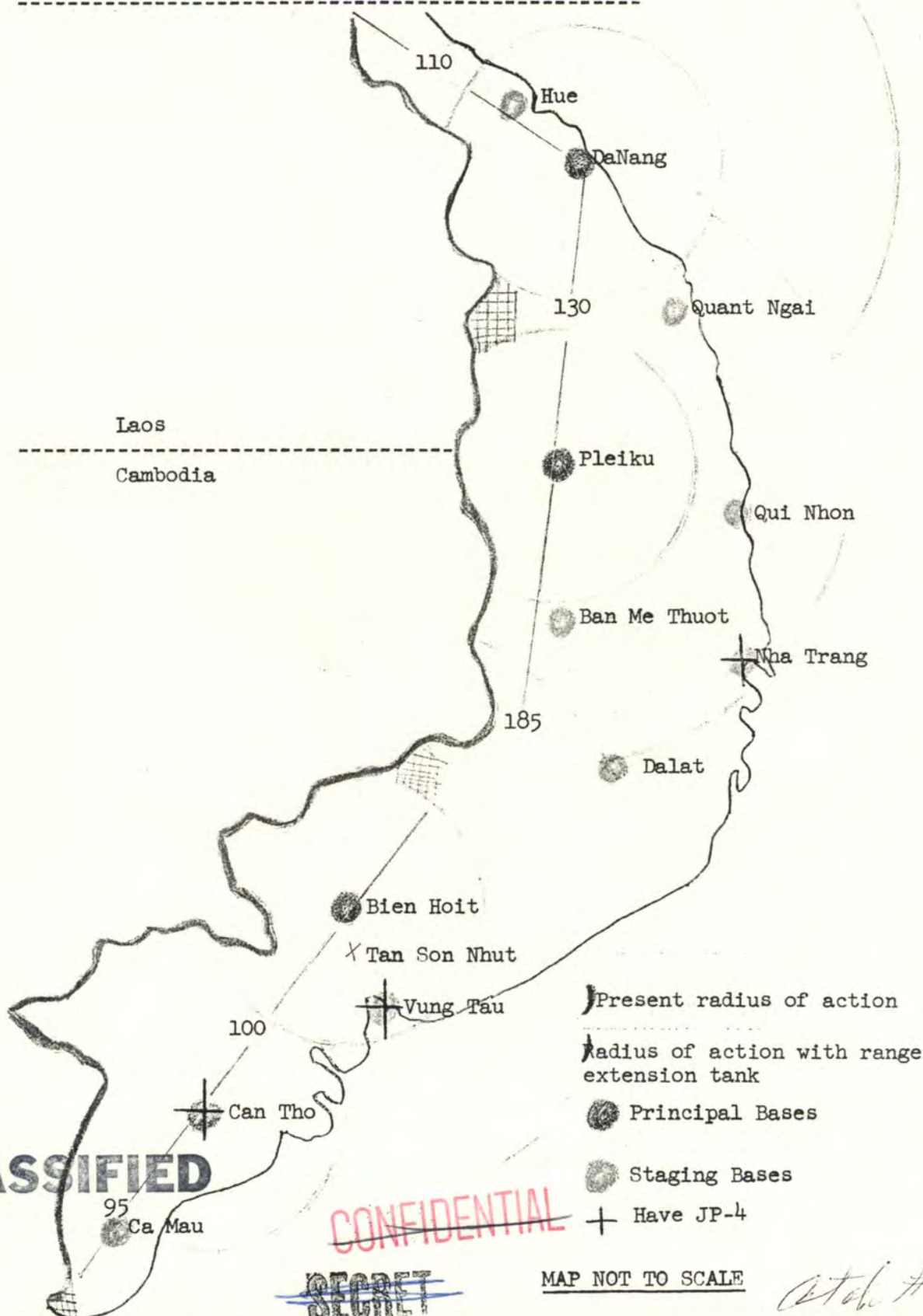
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(U) OPERATIONS AND TRAINING

1. ^{cu} (S) HH-43B Helicopter Operations.

a. Primary mission is aircrew recovery. The following factors are necessary for mission accomplishment.

(1) Helicopter flight crews will be composed of two pilots, one helicopter flight mechanic and one pararescueman.

(2) The helicopters will be dispatched in pairs whenever possible, one to act as cover and backup for the other.

(3) The helicopters will be dispatched only to predetermined crash and/or survivor sites. The helicopter will not engage in extended pattern searches.

(4) The helicopters will normally fly at a minimum altitude of 1500 feet above the ground when going to and from a recovery site. An altitude of 2500 feet above the ground will be flown when .30 caliber enemy fire is expected. If .50 caliber fire is expected an altitude of 5000 feet will be flown.

(5) Every effort to contact and identify survivors will be made prior to attempting a pickup.

(6) Spiral, high speed approaches to recovery locations will be made. Unprepared landing areas may be staked with bamboo or steel rods to hinder/prevent helicopter operations, and appropriate precautionary measures will be taken. Hovering and/or moving pickups will be made when possible to expedite departure. Departures will consist of climbing turns at high rates of climb to desired altitude. Evasive action will be taken as required and no climbouts on course will be made.

(7) RESCAP will be required for protection of the helicopter.

(8) Rear doors of the helicopters will be removed to permit rapid entry of rescues.

(9) If one helicopter is forced down, the accompanying helicopter will be used to rescue the aircrew in distress; if this is not possible, the crew members should escape from the area immediately, taking survival gear and evading toward the nearest known friendly area.

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(10) Traffic patterns will be irregular to avoid a predictable pattern and will not be started at less than 1500 feet altitude.

b. HH-43B Secondary Mission.

(1) The capability of the HH-43B to suppress aircraft fires will be utilized when friendly aircraft have crashed on or in the immediate vicinity of the assigned air base. HH-43B helicopters will respond in pairs when a crash has occurred off base even though the distance will be short.

(2) One HH-43B will be configured for the secondary mission and the other will fly backup for the one effecting the fire suppression/rescue. The helicopter performing the secondary mission will not carry range extension fuel but will deploy with the fire suppression kit (FSK). Helicopter detachment commanders will scramble the helicopters for the secondary mission in accordance with procedures established in coordination with the JBARC.

c. Night operations of helicopter forces will be limited due to increased vulnerability of the helicopters to ground fire and obstructive tactics, in addition to the hazards normally restricting such operations.

2. TH (3) HH-16 Aircraft Operations.

a. Aircrew recovery operations by HH-16 aircraft will be similar to the rescue activities performed in Korea. Some changes will be necessary due to differences in the type of terrain and hostile action to be encountered. HH-16 aircraft will provide medium level electronic search over land areas and low level search and recovery over water areas to include inland bodies of water when known to be deep enough and large enough to accommodate HH-16 aircraft. Medium level altitudes over land are defined as 4,000 feet above the ground and based on the following assumptions:

(1) That enemy ground-to-air firepower will be mainly small arms automatic fire.

(2) That most downed aircrew members will have radio or homer beacon capability.

HH-16 aircraft will then be able to quickly and safely scan any area of high probability for survivors' signals, and when located, guide other rescue vehicles to the scene for the actual recovery. If the search area is over water, the HH-16 aircraft will be capable of low level visual and electronic search, actual water landings, aircrew

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recovery, and return. If the survivors are on a beach, the aircraft will be capable of landing in the water, then beaching or taxiing near enough to shore to allow the survivor(s) to swim to the HU-16. If sea and wind conditions do not permit a water landing, the MA-1 kit will be delivered. If the survivors are injured and cannot reach the MA-1 kit, pararescue personnel will be deployed to assist them. The HU-16 will then orbit overhead and guide other rescue vehicles to the scene for the actual recovery. Night water operations and recovery are not contemplated, although night electronic search operations may be conducted if deemed practical.

b. Aircraft and Aircrew Assignment. The 33d Air Rescue Squadron will provide two HU-16 aircraft with aircrews and the 31st Air Rescue Squadron will provide one. Each aircrew will include two pararescuemen. Maintenance, avionics, and sheet metal support personnel, as required, will also be supplied by each unit. HU-16 personnel will be deployed on 30-day rotational tours.

c. Aircraft Modification/Changes. The following actions are recommended although they are not mandatory prerequisites for HU-16 aircraft.

(1) Armament: Aircrew members should be provided with Armalite rifles and .38 caliber weapons for protection.

(2) Body armor and flak curtains are required.

(3) Aircraft markings: Camouflage painting is not required, but elimination of the yellow Rescue markings is recommended.

3. ^{eu} (8) Training. Air Rescue personnel are currently maintaining a high degree of proficiency in the weapon systems to which they are assigned. Training will be required for the combat rescue/recovery mission and to physically and psychologically prepare ARS personnel for combat operations. In addition, helicopter flight mechanics and pararescue personnel assigned to RVN helicopter units will be used as firefighters and will require complete training in Fire Suppression Kit (FSK) operation.

a. Planning Data:

(1) Only fully qualified ARS aircrews will be utilized.

(2) All helicopter pilots will be RCC qualified.

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- (3) An aircrew will consist of:

HH-43B

HH-16

Pilots (2)
Flight Mechanic (1)
Pararescue (1)

Pilots (2)
Navigator (1)
Flight Mechanic (1)
Radio Operator (1)
Pararescue (2)

(4) RVN helicopter detachments will perform both aircrew rescue/recovery and fire suppression missions.

(5) HH-16 aircraft will perform as search aircraft and accomplish water recovery missions as well as provide on-scene commander's responsibilities.

d. Combat Aircrew Training. Helicopter personnel will receive combat rescue/recovery training as in-unit training. This training will be conducted by ARB helicopter personnel who have had the most experience in this type of operation. Subjects to be taught are:

- (1) Combat mission flight planning.
- (2) Evasive flight to avoid ground fire.
- (3) Flying procedures for maintain operations.
- (4) Hoist operations from 250 feet elevation.
- (5) Landing site evaluation with rapid and evasive approaches and departures.
- (6) Combat operational takeoffs and landings with various gross weights.
- (7) Tactical flight procedures for helicopters operating in pairs.
- (8) Instrument flying to include both hooded flight and flight under DC.
- (9) Communications (AFR 55-7).

Helicopter flight mechanics and pararescue personnel assigned to RVN units will perform an additional role as firefighters. The flight

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mechanics will receive FSK training as in-unit training and the pararescue personnel will attend the FSK portion of the 102100A course at Stead AFB, Nevada. Pararescue personnel will also receive HH-43B familiarization flights and operational FSK training at COMUS LBR units.

HU-16 aircrews will not require special combat aircrew flight training. However, extensive training in water maneuvers such as water taxiing and beaching operations will be required. This training will be accomplished as in-unit training.

c. General Military Training. General Military Training will be required to prepare ARS personnel for combat operations and will be conducted by pararescue personnel at helicopter units identified to support this plan. Pararescue personnel will conduct this training while they themselves are receiving HH-43B flight familiarization. Subjects to be taught are:

- (1) Physical conditioning (daily supervised periods).
- (2) Code of Conduct.
- (3) Health and military sanitation.
- (4) First Aid.
- (5) Security.
- (6) Survival (2d Air Division will be tasked to provide Escape and Evasion Training in the theater of operation).
- (7) Small arms (host bases will provide firing ranges and equipment as required).

d. Augmenting Personnel. Helicopter pilots must be basic H-43 qualified (1025C). Support personnel should be qualified on this type of equipment. All personnel will receive complete ARS qualification and proficiency training, as well as the above combat and general military training, at COMUS LBR units.

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(S) Avionics Requirements for AH-1J & HU-16 SAR Operations in Vietnam

GENERAL:

1. (S) The Aeronautical Communications environment for tower, APC, and ARTC in Vietnam consist of UHF (225 to 400 mc AM), VHF (108 to 159.9 mc AM), HF (2 to 30 mc AM).
2. (S) Army field communications are VHF (24.0 to 51.9 mc FM).
3. (S) The airways structure in Vietnam is based entirely on low frequency beacons, and the majority of terminal navigation aids are low frequency beacons.
4. (S) Four terminal TACAN stations and one VOR station are located in Vietnam as follows:

a. BA XUYEN	TACAN
b. CAN THO	TACAN
c. DANANG	TACAN
d. CHU HANH	TACAN
e. TAN SON	VOR

5. (U) The standard HH-43B avionics configuration consists of:
 - a. AN/ARC-34 UHF Transceiver, 225 to 400 mc AM.
 - b. AN/ARA-25 UHF/ADF, 225 to 400 mc AM.
 - c. AN/ARN-59 Radio Compass, 190 to 1750 kc's.
6. (U) The standard HU-16 avionics configuration consists of:
 - a. AN/ARC-27 UHF Transceiver, 225 to 400 mc AM.
 - b. VHF-101 Transceiver, 108 to 159.9 mc AM.
 - c. 618T-2 HF Transceiver, 2 to 30 mc, AM, SSB, CW.
 - d. AN/ARC-8, 1700 kc to 18 mc.
 - e. AN/ARN-14 Radio Compass.
 - f. AN/ARN-14 OMNI Range Receiver.

TAB D

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- g. AN/ARN-21 TACAN Receiver.
- h. AN/ARN-18 and ARN-14 ILS System.
- i. AN/ARN-12 Marker Beacon.
- j. AN/APX-25 IFF Transponder.
- k. AN/APN-9 LORAN A.
- l. AN/APX-28 IFF Interrogator.
- m. AN/APS-31 Navigation Radar.
- n. SARAH Receiver.

DISCUSSION:

7. (S) ^{eu} Basic Aeronautical Communications in Vietnam is VHF (108 to 159.9 mc AM). UHF (225 to 400 mc) is employed to satisfy US Military requirements, and not all airfields have a capability on UHF. Any aircraft operating in Vietnam without VHF will be severely limited in communications.

8. (S) ^{eu} HF (2 to 30 mc) Communications is employed for long range ARTC Communications and would not be a factor in helicopter operations. HU-16 aircraft are equipped for the HF environment.

9. (S) ^{eu} VHF/FM (24.0 to 51.9 mc) is the Communications mode for Army ground forces and supporting aircraft. Lack of VHF/FM would eliminate any capability to communicate with Army ground forces during recovery operations.

10. (S) ^{eu} Air Force action to procure the URT-21 Personal Locator Beacon should see the URT-21 become the aircrew Personal Locator Beacon during Calendar Year 1965. The URT-21 is compatible with the UHF communications and ARA-25 UHF/ADF systems in the HU-16 and HH-43B.

11. (U) The standard Air Force URC-11 and follow-on URC-10 Emergency Radios are compatible with the UHF communications systems in the HU-16 and HH-43B.

12. (S) ^{eu} As indicated in para 6, HU-16 aircraft are equipped to receive the SARAH personal locator beacon, but equipment is supported by NASA. A few SARAH installations have been made in HH-43B's in the PACAF area, under the auspices of PACAF, but it is not an Air Force accepted system, and is not supportable thru Air Force Supply Channels. The Air Force Personal Locator Beacon program is predicated on the URT-21 beacon operating against standard UHF communications receivers and UHF/ADF systems.

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eu
13. (S) In order to make HU-16 and HH-43B aircraft compatible with the communications environment in Vietnam, VHF/AM and VHF/FM equipment is required to be installed in the HH-43B and VHF/FM to be installed in HU-16.

14. (U) Engineering for VHF/AM (VHF-101) has been completed on the HH-43B. No installation engineering on VHF/FM for either the HU-16 or HH-43B has been accomplished but would not pose any particular problem.

eu
15. (S) The HH-43B is not equipped with IFF. Tactical requirements for IFF in helicopter operations in Vietnam are not known at this writing.

CONCLUSION:

eu
16. (S) In order for the HH-43B to perform an unrestricted combat recovery mission in Vietnam, it must be modified with VHF/AM, and VHF/FM.

eu
17. (S) In order for the HU-16 to perform an unrestricted combat recovery mission in Vietnam, it must be modified with VHF/FM.

eu
18. (S) Installation of IFF in HH-43B should be predicated on tactical requirements.

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(U) MATERIEL TAB

1. (U) GENERAL. This tab contains general guidelines of the Materiel Functions.

2. (U) ASSUMPTIONS. Logistic support at the forward operating locations specified in the basic plan will be limited.

a. (U) Quarters and messing facilities will be available and provided by existing host military element.

b. (U) Limited field maintenance and related AGE support will be available.

c. (U) Aircraft spares support will be provided from the mission support kit (MSK) for HH-43B aircraft, and the Nuclear Air Transportable Kit (NATK) for HU-16B aircraft, with re-supply from Clark AB, as required.

d. (U) POL and adequate fuel dispensing facilities will be made available at each designated operating location (Ref basic plan).

(1) HH-43B - AVGAS - JP-4, Oil 7808.

(2) HU-16B - AVGAS - 115/145 Oil, 1100.

e. (U) All materiel storage facilities are inadequate. Outside storage conditions will prevail in most instances. (Tents will most likely be the only storage shelter available).

f. (U) Main resupply point will be designated as Clark AFB, PB5250.

g. (U) Two supply airmen, AFSC 64650, will be assigned to each helicopter operating location. Two supply positions (AFSC 64670) will be located at Ton Son Nhut and Clark AB, respectively, as mission liaison representatives.

3. (U) TASKS.

a. (U) Hq ARS, DCS/Materiel will:

(1) (U) Initiate action through MATS for authorization to assemble four Mission Support Kits in support of basic plan and normal ARS deployment contingencies. Mission Support Kits currently assembled and positioned at Eastern ARC, Central ARC, Western ARC and 33 ARS Rescue Sq, will be used to satisfy immediate deployment requirements. Increased MSK authorizations are required for assembly of replacement kits at Eastern ARC, Central ARC, Western ARC and 33 ARS Rescue Sq.

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(2) (U) Initiate action through MATS for authorization to release WRM assets stocked by the host base at Clark and Naha AB on an as required basis. Controlling agency will be 14q ARS Supply Division (ARMSP-1).

(3) (U) Initiate action through MATS for increased R-1820-76B and T-53-L-1B engine stockage objectives at Clark AB.

(4) (U) Negotiate with MATS and applicable support system managers for increased spares stockage objectives at Clark AB and positioning of selected items at the operating locations.

(5) (U) Coordinate with PACAF, Pac ARescue Cen and Clark AB on procedures for:

(a) (U) Resupply of host base stockage objectives, Mission Support Kits and Nuclear Air Transportable mobility kit requirements.

(b) (U) NORS reporting procedures.

(c) ^{EU} (S) Establishment and utilization of a mission liaison function at Clark AB and Ton Son Nhut.

(d) (U) Providing priority bench check and repair of Rep/item generations from the operating locations within command in-house capability at Clark AB.

(6) (U) Coordinate with MATS, Support System Managers and host base supply agency for release and shipment of all 141-43B spares to Clark AB for augmentation of base supply stocks. (See Appendix I).

b. (U) 14q MATS will:

(1) (U) Initiate action to obtain increased authorization of four Mission Support Kits in support of 141-43B requirements in basic plan.

(2) (U) Coordinate with SAAMA for increased R-1820-76B and T-53-L-1B engine stockage objectives at Clark AB.

(3) (U) Initiate action to obtain appropriate Unit Precedence Rating in support of this deployment. Precedence rating entitling use of Force Activity Designator I is required to insure positive and effective support.

c. (U) The Mission Liaison supply representatives at Clark AB will:

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(1) (U) Coordinate and monitor all logistic support requirements for the forward operating locations.

(2) (U) Assist the host base in achieving maximum use of lateral support.

(3) (U) Direct requests to ARS (ARMSP-1) for release of WRM base stocked assets at Clark AB and Naha AB.

d. ^(U) (S) The ARS Mission Supply Representatives located at Ton Son Nhut AB, Viet-Nam, will:

(1) (U) Review and monitor all AGE and spares requirements at each operating location and report requirements to mission liaison representative at Clark AB by fastest available communication.

(2) ^(U) (S) Monitor shipment of HH-16B and HH-43B AGE and spares requirements through the terminal transportation facility at Ton Son Nhut.

e. (U) Operation Location.

(1) (U) There will be two supply specialists (AFSC 64650) assigned at each helicopter operating location, who will be responsible for the following:

(a) (U) Maintenance of the HH-43B MSKs in accordance with MATS Manual 67-3 and ARS Reg 67-1.

(b) (U) Maintain custodial responsibility for AGE items as required by 2d Air Div and 13th AF.

(c) (U) Request replacement items for MSK and other immediate requirements from the appointed support activity.

(d) (U) Maintain adequate records of items consumed for the purpose of making periodic recommendations for additions and deletions to the HH-43B MSK.

(2) (U) One spare T-53-L-1B engine, QEC Kit and ship set of HH-43B blades will be maintained at each operating location in addition to those items contained in the HH-43B MSK. The T-53-L-1B engine will be removed from can and built-up with QEC kit only if adequate inside storage is available.

(3) ^(U) (S) One HH-43B transmission will be prepositioned and maintained at both Bien-Hoa and Da-Nang.

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(4) (U) Special logistic requirements applicable to support HH-43B and HU-16B aircraft are contained in Appendixes I and II respectively.

f. (U) Squadrons providing pararescuemen will:

- (1) (U) Provide required equipment.
- (2) (U) Provide limited stock of medical supplies.

g. (U) Maintenance

(1) (U) Detachment will:

- (a) (U) Deploy with all assigned AGE.
- (b) (U) Deploy with complete set of special tools for assigned aircraft.
- (c) (U) Insure all mechanics deployed have complete set of hand tools in their possession.
- (d) (U) Deploy with applicable file of technical publications.
- (e) (U) Disassemble and prepare aircraft for shipment as required by applicable dash nine Technical Order.
- (f) (U) Insure the fuel tanks are purged as outlined in T.O. 1-1-3.
- (g) (U) Perform maintenance on assigned HH-43B helicopters under existing phase inspection concept and in accordance with current publications.

(2) (U) Maintenance Manning Support Required of Host Bases: The host base must make available at all times, the necessary maintenance specialists required to support this operation. Support to be provided in accordance with AFR 11-4 Host/Tenant Agreement is as listed below:

<u>FC</u>	<u>Function</u>	<u>Duty Position</u>	<u>AFSC</u>
2310	Fabrication	Airframe Rpmn	534X0
2333	Elec Sys	Elec Rpmn	423X0
2335	Inst Sys	Inst Rpmn	422X0
2411	Radio	Radio Rpmn	301X0

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(U) APPENDIX I

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(U) HHI-43B SUPPORT

1. (U) TASKS:

(U) Air Rescue Centers, 31/33 ARescue Sq will:

(1) (U) Transfer their HHI-43B WRM mission support kits to the new operating locations as follows:

- (a) (S) Eastern ARC MSK now located at Robins to Bien-Hoa.
- (b) (S) Western ARC MSK now located at Luke AFB to Da-Nang.
- (c) (S) Central ARC MSK now located at Perrin AFB to Pleiku.
- (d) (S) 33 ARescue Sq MSK now located at Naha to Can-Tho.

(2) (U) Air Rescue Centers and 33 ARescue Sq will insure that HHI-43B MSKs are 100% complete at time of transfer. MSKs from the Z.I. will be transferred concurrently with HHI-43B acft or special airlift.

(3) (U) After deployment of the HHI-43B MSKs, the Z.I. Centers will initiate actions to assemble another MSK as authorized to support other contingency operations that may arise.

(4) (U) Air Rescue Centers will insure transfer with the aircraft full existing bench stocks from locations transferring complete LBR activities.

(5) (U) Air Rescue Centers, in conjunction with the ARS Liaison Office at MAAMA, will obtain and replace all time change components requiring change within the next 150 flying hours prior to transfer of aircraft.

(6) (U) Provide LBRs transferring aircraft with blade, empennage and pylon containers required to airlift the HHI-43B aircraft immediately after designation of aircraft to be transferred. ARODC will provide required airlift of these items from current locations to bases transferring aircraft.

(7) (U) Air Rescue Center supply personnel will provide on-the-spot supervision during the preparation for shipment of MSKs, LBR AGE, base stocks and bench stocks. Assistance will continue during loading of aircraft and other items.

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APPENDIX I

DOWNGRADED AT 3 YEAR INTERVALS
DECLASSIFIED AFTER 12 YEARS.
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2. (U) LOSING HOST BASE TASKS:

a. (U) Host base BEMOs from which complete LBR Detachment activities are transferred will transfer all common and peculiar AGE required in support of HH-43B aircraft at the new location. This will include common items required such as air compressor and generator sets, that may not appear on the LBR unit's E-AID. Shipping documents will be accomplished on all AGE items reflecting 405 Ftr Wg, AFB 5250, as the receiving activity. AGE items will be transferred concurrently with the HH-43B aircraft on the same special airlift aircraft.

b. (U) Two of the host base supply officers supporting the movement of complete LBR units, as designated in the basic plan, will transfer all HH-43B base stockage spares to the BASO at the 405 Ftr Wg, FBS250. The items will be identified through use of the HH-43B support system Materiel Control List (MCL), dated 28 Oct 63, published by MAAMA. Quantities as indicated on the MCL of both common and peculiar items will be transferred, if available. Method of shipment will be by special air lift, air lift provided for movement of HH-43B aircraft or via fastest means available through channel traffic. Specific guidance will be provided at a later date.

c. (U) All host bases from which personnel are transferred will provide departing personnel with required side arms and field equipment.

3. (U) MAAMA TASKS:

a. (U) Authorize and provide, immediately upon notification from Hq ARS, the following HH-43B spares at indicated locations:

(1) (U) One ship set of HH-43B blades at:

(a) (S) Bien-Hoa

(b) (S) Da-Nang

(c) (S) Pleiku

(d) (S) Can-Tho

(e) (S) One additional ship set at Clark AB

(2) (U) One HH-43B transmission at:

(a) (S) Bien-Hoa

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- (b) ~~(S)~~ Da-Nang
- (c) ~~(S)~~ One additional transmission at Clark AB
- (3) ~~(S)~~ Two additional ship sets of HH-43B Hubs at Clark AB.
- (4) ~~(S)~~ Two additional ship sets of HH-43B Shafts & Housings at Clark AB.
- (5) ~~(S)~~ Two additional Azimuths at Clark AB.
- (6) ~~(S)~~ Two additional HH-43B Transmission Oil Pumps at Clark AB.

b. (U) Upon receipt of revised flying hour program, make re-computations for all spares requirements and initiate immediate additional procurement to support the additional flying hours and dispersal of assets. Notify item control officers at Other AMAs supporting the HH-43B to initiate similar actions.

c. (U) Provide the two losing bases not transferring spares to Clark AB with disposition instructions for all HH-43B spares in Stock.

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(U) APPENDIX II

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(U) HU-16B SUPPORT

1. (U) GENERAL. HU-16B aircraft will be selected and deployed from units in accordance with basic plan.

2. (U) TASKS:

a. (U) The 31st and 33rd ARescue Sqs will each provide one-half NATK (one each mobility type kit) for deployment to the operating location.

b. (U) The 31st ARescue Sq, through coordination with the host base, will:

(1) (U) Provide Special Tools and AGE at the operating location on an as-required basis.

(2) (U) Provide field maintenance engine and propeller specialists to the operating location as required.

(3) (U) Provide initial bench stock requirements of common hardware at the forward operating location.

c. (U) The host base at Clark AB will:

(U) Provide an R-1820-76B engine and a 43-D-50 propeller in built-up "ready to go" condition for immediate deployment as required.

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APPENDIX II

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(2) MANPOWER AND ORGANIZATION

1. ^{EU} (S) OBJECTIVE: To provide effective and timely manpower and organization support for the organization of helicopter detachments and rotational deployment of fixed wing aircraft in the Republic of Viet Nam.

2. ^{EU} (S) ASSUMPTIONS:

a. ^{EU} (S) There is a requirement for permanent HH-43 helicopter detachments in support of air rescue requirements in the Republic of Viet Nam.

b. ^{EU} (S) There is a requirement for rotational deployment of HU-16B aircraft in support of air rescue requirements in the Republic of Viet Nam.

c. (U) Essential modification of HH-43 aircraft will take four months.

d. ^{EU} (S) Field maintenance support will be provided by the host bases, under the provision of AFR 11-4.

e. ^{EU} (S) Operational control will be vested in 2nd Air Division with further delegation of responsibilities to Detachment #3, PARC (JSARC).

f. (U) Flying hour utilization for HH-43 aircraft will be 30 hours per month per aircraft.

g. (U) All support for HU-16B rotational forces will come from within current ARS resources.

h. ^{EU} (S) USAF/MATS will approve a Program Change Proposal for the organization of Helicopter Detachments.

3. (U) FACTORS:

a. The current Maintenance Manhour Factor applied to ARS HH-43 aircraft is adequate.

b. The crew composition will be two Pilots, one Flight Mechanic and one Pararescueman.

c. The crew ratio will be 1.5:1.

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4. ^{2 u} (9) MANPOWER REQUIREMENTS FOR ARS MISSION IN REPUBLIC OF VIET NAM:

a. Detachment #3, PARC (JSARC), Saigon Cholon, Republic of Viet Nam.

<u>FC</u>	<u>Duty Position</u>	<u>AFSC</u>	<u>GRADE</u>	<u>Current Auth</u>	<u>Required Auth</u>	<u>Difference</u>
3100A AIRCRAFT OPERATIONS						
	Commander	1416	LTC		1	+1
	Opn Staff Off	1416	MAJ	1	1	
	Air Op Off	1435H	CPT	2	4	+2
	Cmd Post Tech	27470	MSG		1	+1
	Cmd Post Tech	27470	TSG	1	1	
	Cmd Post Spec	27430	SSG	1	3	+2
	Admin Spec	70250	A1C	<u>1</u>	<u>1</u>	
	TOTAL			6	12	+6

b. Manpower authorizations required for each helicopter detachment.

<u>FC</u>	<u>Duty Position</u>	<u>AFSC</u>	<u>GRADE</u>	<u>Required Auth</u>	<u>Tot Req Equals Unit Req Mult by Four Units</u>
2200 AIRCRAFT MAINTENANCE					
	Acf Maint Sup	43190	SMS	+1	+4
	Hel Tech	43170	MSG	+1	+4
	Hel Tech	43170	TSG	+2	+8
	Hel Mech	43150	SSG	+5	+20
	Hel Mech	43150	A1C	+5	+20
	Admin Spec	70250	SSG	<u>+1</u>	<u>+4</u>
				+15	(X 4) +60
2323 JET ENGINE MAINTENANCE					
	Jet Eng Mech	43250	SSG	+1	+4
	Jet Eng Mech	43250	A1C	<u>+1</u>	<u>+4</u>
				+2	(X 4) +8

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<u>FC</u>	<u>Duty Position</u>	<u>AFSC</u>	<u>GRADE</u>	<u>Required Auth</u>	<u>Tot Req Equals Unit Req Mult by Four Units</u>
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3100A AIRCRAFT OPERATIONS

Pilot Heli	1025C	MAJ	+1	+4
Pilot Heli	1025C	CPT	+6	+24
Pilot Heli	1025C	LT	+5	+20
Hel Tech	A43170	TSG	+6	+24
Res Surv Spec	A92170B	TSG	+3	+12
Res Surv Spec	A92130B	SSG	+3	+12
Admin Spec	70250	SSG	+1	+4
			+25	(X 4) +100

3100D UNIT SUPPLY

Org Sup Spec	64650	SSG	+1	+4
Org Sup Spec	64650	A1C	+1	+4
			+2	(X 4) +8

c. Supply authorizations required to support the helicopter detachments.

<u>FC</u>	<u>Function</u>	<u>Duty Position</u>	<u>AFSC</u>	<u>GRADE</u>	<u>Location</u>	<u>Req Auth</u>
3100D	UNIT SUP	Org Supply Supv	64670	MSG	Clark AB, PI	2
		Org Supply Supv	64670	TSG	Tan Son Nhut (RVN)	2
						4

5. Recap of current manpower authorizations in Det #3, PARC, and those which will become available by withdrawing sixteen HH-43B helicopters from ARS resources (based on a representative sample of four, 3 UE, and two, 2 UE LBR helicopter detachments), authorizations required, and action required difference.

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<u>Title</u>	<u>GRADE</u>	<u>AFSC</u>	<u>Authorized</u>	<u>Required</u>	<u>Action Required or Difference</u>
Commander	LTC	1416	0	1	+1
Pilot	MAJ	1025C	0	4	+4
Opns Officer	MAJ	1416	1	1	
Pilot	CPT	1025C	16	24	+8
Air Opns Off	CPT	1435H	2	4	+2
Pilot	LT	1025C	17	20	+3
Heli Maint Supt	SMS	43190	6	4	-2
Cmd Post Tech	MSG	27470	0	1	+1
Heli Maint Tech	MSG	43170	0	4	+4
Orgn Sup Supv	MSG	64670	0	2	+2
Cmd Post Tech	TSG	27470	1	1	
Heli Maint Tech	TSG	43170	3	8	+5
Heli Flt Mech	TSG	A43170	6	24	+18
Orgn Sup Supv	TSG	64670	0	2	+2
Resc Surv Tech	TSG	A92170B	0	12	+12
Cmd Post Spec	SSG	27430	1	3	+2
Heli Mech	SSG	43150	0	20	+20
Heli Flt Mech	SSG	A43150	12	0	-12
Jet Eng Mech	SSG	43250	6	4	-2
Orgn Sup Spec	SSG	64650	0	4	+4
Admin Spec	SSG	70250	6	8	+2
Resc Surv Spec	SSG	A92130B	0	12	+12
Heli Mech	A1C	43150	0	20	+20
Heli Flt Mech	A1C	A43150	16	0	-16
Jet Eng Mech	A1C	A43150	0	4	+4
Orgn Sup Spec	A1C	64650	0	4	+4
Admin Spec	A1C	70250	<u>1</u>	<u>1</u>	<u> </u>
			94	192	+98

RECAP

LTC	0	1	+1
MAJ	1	5	+4
CPT	18	28	+10
LT	17	20	+3
SMS	6	4	-2
MSG	0	7	+7
TSG	10	47	+37
SSG	25	31	+26
A1C	<u>17</u>	<u>29</u>	<u>+12</u>
	94	192	+98

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6. (U) **MANPOWER SUPPORT REQUIRED OF HOST BASES:** The host base must make available at all times the necessary maintenance specialists required to support this operation. Support to be provided in accordance with AFR 11-4 Host/Tenant Agreement is as listed below:

<u>FC</u>	<u>Function</u>	<u>Duty Position</u>	<u>AFSC</u>
2310	Fabrication	Airframe Rpmn	534X0
2333	Elect Sys	Elec Rpmn	423X0
2335	Inst Sys	Inst Rpmn	422X0
2411	Radio	Radio Rpmn	301X0

7. (S) **ORGANIZATION:** Four Helicopter Detachments will be assigned to the Pacific Air Rescue Center (PARC). Operational control will be vested in 2nd Air Division with delegation of responsibility to Detachment #3, PARC (JSARC). HU-16B aircraft will be deployed from existing ARS units (31 and 33 ARSq) and under operational control of Detachment #3, PARC (JSARC). The organization is shown on Attachment #1.

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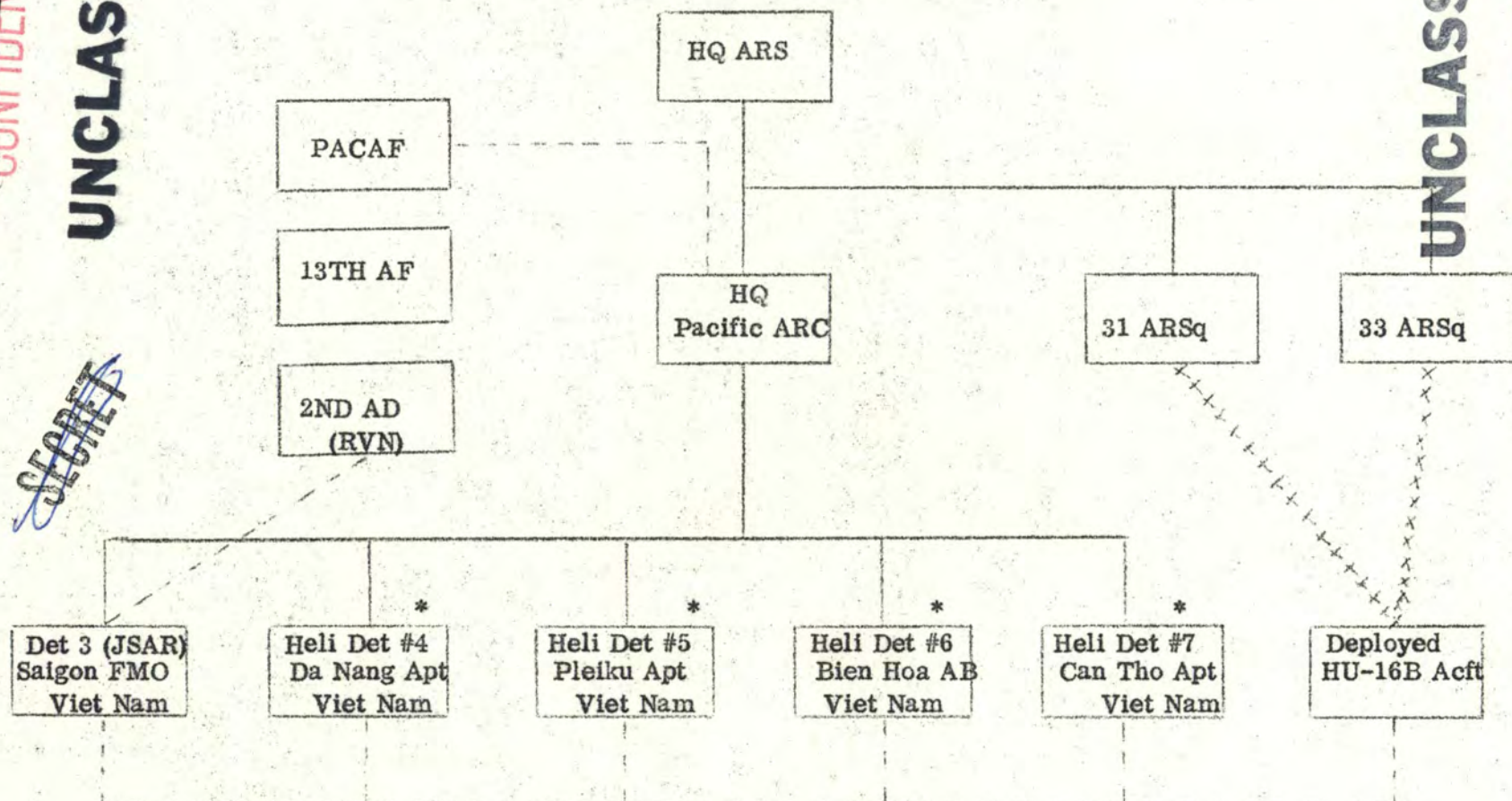
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PROPOSED ORGANIZATIONAL STRUCTURE CHART
FOR THE HELICOPTER DETACHMENTS IN RVN



* Detachment numbers are used to identify detachments if and when permanent detachments are established.

----- Operational control

xxxxxx Deployed aircraft

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(2) PERSONNEL

1. Personnel in support of this program should be withdrawn from Air Force-wide resources in quantities, skills and AF3C's identified in the Manpower Tab. Maintenance personnel should have previous experience on HH-43B helicopters.
2. Recognizing that the Air Rescue Service is in possession of skills required to support this program, we can expect to be levied on in numbers sufficient to provide skilled professional Rescue personnel for key positions.
3. Personnel should be selected in accordance with Chapter 2, Part I, AFM 35-11. Special care should be exercised to assure compliance with current policy concerning assignment of personnel to the country concerned. For example, port dates should be established in the first five days of the month, specialized training should be completed prior to arrival at POE, etc.
4. Units should be exempted from percentage or PPD restrictions and maintained at 100% of the authorized strength. This is particularly sensitive to units having one or two of a particular skill.
5. Personnel should be identified and firmly levied in sufficient time to allow for enroute training.
6. As the end of the initial groups' tour approaches, replacements should be provided in a manner to prevent loss of operational capability or degradation. This can be accomplished by early arrival of replacement personnel.

TAB G

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