

**011-47Z-2074**  
**Perform Forward Arming and Refueling Point Operations**  
**Status: Approved**

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**Distribution Restriction:** Approved for public release; distribution is unlimited.

**Destruction Notice:** None

**Foreign Disclosure: FD1** - This training product has been reviewed by the training developers in coordination with the USAACE, Fort Rucker, AL foreign disclosure officer. This training product can be used to instruct international military students from all approved countries without restrictions.

**Conditions:** In a CH-47D/F helicopter with ERFS installed, fuel handlers, security team (as required based on METT-TC), a forward area refueling equipment (FARE) system or academically. Some iterations of this task should be performed in MOPP 4.

**Standards:** Perform forward arming and refueling point operations IAW and 100% adherence to the performance measures below.

**Special Conditions:** None

**Safety Risk:** Medium

**MOPP 4:** Sometimes

<b>Task Statements</b>
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**Cue:** None

<b>DANGER</b>
None

<b>WARNING</b>
None

<b>CAUTION</b>
None

**Remarks:** Task 1016 may be used in performing this task.

**Notes:** NIGHT OR NIGHT VISION GOGGLES CONSIDERATIONS:

1. Aircraft lighting. During night or NVG operations, the CH-47 will maintain lighting as METT-TC and unit SOP dictates.
2. Area lighting. During refueling operations, artificial lights may be needed because of the low natural light level. Color-coded, low-intensity light sources may be used to indicate direction, takeoff and landing areas, and pad sites. Only red lights should be used to mark obstacles. If NVGs are used, ensure that artificial lighting does not cause any undue reflections toward the cockpit.

## Performance Steps

1. Conduct a thorough crew briefing (PC).
2. Ensure that all crewmembers and support personnel are familiar with FARP operations, EMERG and communication procedures (PC).
3. Confirm that required PWR is AVAIL by comparing the information from the PPC to the HVR PWR check (PC).
4. Ensure that a preflight of the FARP system is conducted before flight and all equipment is available (PC).
5. Assist in marshaling and fireguard duties and any other duty that the PC assigns (P).
6. Load the aircraft before mission (FE).
7. Unload the aircraft after it is shut down (FE).
8. Control the fuel flow from inside the aircraft (FE).
9. Cut the fuel supply from inside the aircraft in case of a mishap or an EMERG (FE).
10. Assist in setting up the refueling points and with marshaling and fireguard duties (CE).
11. Set up the FARP and the actual refueling operation (petroleum, oil, lubricants [POL] handlers).

Note: POL handlers will be the only individuals allowed to start the pumps.

Aircraft internal fuel tank installation, preflight, inflight, set up, tear down and storage of the FARP system will be conducted IAW FM 3-04.111 and TM 1-1560-312-10. EPs will be conducted IAW the references mentioned above.

12. Standard FARP operation crew.

Note: The crew consists of two RCMs, two qualified NRCMs and two POL handlers. The number of crewmembers may be increased as the mission (or the commander) dictates.

- a. Ensure that crewmembers and POL handlers are trained on crew duties before they conduct refueling operations (commanders).
- b. Complete all required inspections pertaining to your section of ATP 3-04.1, TM 1-1560-312-10, and the unit's SOP.
- c. Ensure that no fuel leaks are evident during servicing, preflight and during inflight operation of the ERFS (NRCM).

Cue: If leaks are evident,

- d. Stop servicing immediately.

- e. Fix the problem.

- f. Ensure that all safety and operational procedures are conducted IAW ATP 3-04.1 or TM 1-1560-312-10.

- g. Ensure that all safety and operational procedures are conducted IAW ATP 3-04.1 or TM 1-1560-312-10.

- h. Ensure that all mission/FARP equipment is loaded and secured in the aircraft ATP 3-04.1 or TM 1-1560-312-10 (FE).

Note: Fuel will be transferred from the internal tanks in the same order as if the tanks were being self deployed. To maintain the aircraft's CG, the fuel-transfer sequence will be 3-1-2.

13. Preflight inspection.

Note: Requirements are found in ATP 3-04.1, appendix E, section 2.

The FARP CL is found in ATP 3-04.1, appendix E, section 2.

These are the minimum inspections and procedures that will be accomplished during FARP operations and further instructions will be found in unit SOPs.

14. Preflight.

Cue: After receiving a mission briefing,

- a. Ensure that required fuel and ammunition is on hand.

b. Ensure that it is installed, secured, inventoried and operational before flight IAW the units SOP.

c. Conduct a thorough crew and support team briefing, covering, as a minimum: landing direction, frequencies and call signs, EPs, execution (security, set up, refuel, rearm and recovery), dispersal plan, alternate setup location, site layout and load(s).

15. Arrival.

a. Set up first (the designated primary rearming/refueling aircraft).

b. Carry a duplicate 2-point FARE for back up (the secondary rearming/refueling aircraft).

c. Loiter outside the weapons surface danger area and no closer than 150 feet from the rearm/refuel site (the secondary aircraft).

d. Establish perimeter defense immediately, as briefed (the security team).

Note: The site layout and FARE system setup will be IAW ATP 3-04.1 and unit SOP.

16. Communications.

a. Monitor all calls into the FARP (the primary aircraft's flight crew).

b. Brief incoming aircraft on pertinent information for the FARP on request (such as landing direction, active refuel point and so forth).

(Asterisks indicates a leader performance step.)

**Evaluation Guidance:** 1. Training will be conducted in the helicopter.

**Evaluation Preparation:** 2. Evaluation will be conducted in the helicopter or academically.

PERFORMANCE MEASURES	GO	NO-GO	N/A
1. Rated crewmember (RCM).			
a. Conducted premission planning to include required load configuration as briefed.			
b. Verified the aircraft remained within gross weight (GWT) and center of gravity (CG) limitations for the duration of the flight.			
c. Conducted a thorough crew and support personnel safety briefing.			
d. Ensured that the aircraft was configured and fueled for the mission.			
e. Ensured that the passengers and cargo were properly restrained.			
f. Ensured that the FARP was certified in accordance with appropriate publications.			
g. Was familiar with emergency procedures for FARP operation and tactical shutdown procedures in accordance with appropriate publications.			
2. 2. Nonrated crewmember (NCM).			
a. Loaded the aircraft per the load plan, if applicable.			
b. Completed all before-flight, in-flight, and preflight duties in accordance with appropriate publications.			
c. Ensured that floor-loading limits were not exceeded.			
d. Secured passengers and cargo.			
e. Performed emergency procedures for FARP operation and tactical shutdown procedures in accordance with appropriate publications, if necessary.			

**Supporting Reference(s):**

Step Number	Reference ID	Reference Name	Required	Primary
	AR 95-1	FLIGHT REGULATIONS	Yes	No
	ATP 3-04.1	Aviation Tactical Employment	No	No
	ATP 4-43	Petroleum Supply Operations	No	No
	LOCAL SOP	LOCAL SOP	Yes	No
	TM 1-1520-240-10 (Revision, November 28, 2013)	OPERATOR'S MANUAL FOR ARMY CH-47D HELICOPTER (EIC: RCD) <a href="https://www.logsa.army.mil">https://www.logsa.army.mil</a>	No	No
	TM 1-1520-240-CL	TM 1-1520-240-CL, OPERATOR'S AND CREWMEMBER'S CHECKLIST FOR US ARMY CH-47D MODEL HELICOPTER, Revision, March 11, 2016 : Published in print on May 10, 2016	No	No
	TM 1-1520-271-10	OPERATOR'S MANUAL FOR ARMY CH-47F HELICOPTER (EIC: RCH) w Change 1 dated May 5, 2015	No	No
	TM 1-1520-271-CL (Change 001, May 05, 2015)	OPERATOR'S AND CREWMEMBER'S CHECKLIST ARMY MODEL CH-47F HELICOPTER <a href="https://www.logsa.army.mil">https://www.logsa.army.mil</a>	No	No
	TM 1-1560-312-10	OPERATORS MANUAL FOR EXTENDED RANGE FUEL SYSTEM II (ERFS II) CONFIGURED FOR THE ARMY CH-47 HELICOPTER P/N HM022-509 (NSN 1560-01-456-2704) (EIC: RCG)	No	No

#### TADSS :

TADSS ID	Title	Product Type
01-239	CH-47F Cockpit Procedural Trainer (CPT)	DVC
552-AC-034	CH-47D-H Chinook Helicopter (Local TADSS – Not in TSMATS/PAM 25-30)	TA

#### Equipment Items (LIN):

LIN	Name
H30517	Helicopter Cargo Transport: CH-47D
C15172	CH-47F Improved Cargo Helicopter

#### Materiel Items (NSN) :

Step ID	NSN	LIN	Title	Qty
No materiel items specified				

**Environment:** Environmental protection is not just the law but the right thing to do. It is a continual process and starts with deliberate planning. Always be alert to ways to protect our environment during training and missions. In doing so, you will contribute to the sustainment of our training resources while protecting people and the environment from harmful effects. Refer to the current Environmental Considerations manual and the current GTA Environmental-related Risk Assessment card.

**Safety:** In a training environment, leaders must perform a risk assessment in accordance with current Risk Management Doctrine. Leaders will complete the current Deliberate Risk Assessment Worksheet in accordance with the TRADOC Safety Officer during the planning and completion of each task and sub-task by assessing mission, enemy, terrain and weather, troops and support available-time available and civil considerations, (METT-TC). Note: During MOPP training, leaders must ensure personnel are monitored for potential heat injury. Local policies and procedures must be followed during times of increased heat category in order to avoid heat related injury. Consider the MOPP work/rest cycles and water replacement guidelines IAW current CBRN doctrine.

**Prerequisite Individual Tasks :** None

**Supporting Individual Tasks :** None

**Supported Individual Tasks :** None

**Supported Collective Tasks :** None

#### Knowledges :

Knowledge ID	Knowledge Name
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011-074K	Tactical operations (METTT-S, terrain flight, etc.)
011-073K	Vision, depth perception, and night vision
011-072K	Night flight operations
011-047K	Operators manual and checklist
011-077K	Combat Skills (map reading, SERE, etc.)
011-071K	NVD flight operations
011-057K	Aviation safety
011-059K	Flight Regulations
011-082K	Army aircraft cargo operations (internal/external)
011-049K	Helicopter systems & limitations
011-080K	Knowledge of Aircrew Coordination
011-052K	Communication procedures and radio phraseology
011-053K	Emergency procedures
011-083K	Operational environments (desert, mountain, jungle, etc.)
011-054K	Helicopter flight characteristics

**Skills :**

<b>Skill ID</b>	<b>Skill Name</b>
011-076S	Ability to conduct NBC Operations
011-072S	Night flight operations
011-047S	Operators Manual and Checklist
011-071S	NVD flight operations
011-080S	Skill in completing Aircrew Coordination
011-052S	Communication Procedures and Radio Phraseology
011-049S	Helicopter Systems & Limitations
011-077S	Ability to use Combat Skills (map reading, SERE, etc.)
011-074S	Tactical flight operations (METT-TC, terrain flight, etc.)
011-082S	Ability to conduct Cargo Operations (internal/external)
S0824	Emergency Procedures