

FS Standards for MAFFS Operations

Appendices

Table of Contents

Appendix A: Interagency Agreements	2
Appendix B: Request for Assistance Example	10
Appendix C: MAFFS Standard Base Organization and Chart	11
Appendix D: MAFFS Marking Scheme	12
Appendix E: Call Signs and Locations	14
Appendix F: MAFFS Roles and Responsibilities	15
Appendix G: Aircraft Dimensions and Turning Radii	19
Appendix H: Transportation Requirements	22
Appendix I: MAFFS Activation Considerations Spreadsheet	23

Appendix A: Interagency Agreements

INTERAGENCY
AGREEMENT
for
the
**PROVISION OF TEMPORARY SUPPORT DURING
WILDLAND FIREFIGHTING OPERATIONS** among the

UNITED STATES DEPARTMENT OF THE
INTERIOR,

th
e

UNITED STATES DEPARTMENT OF
AGRICULTURE,

and
the

UNITED STATES DEPARTMENT OF
DEFENSE

DOI (BLM-FAD) Agreement No. LI OPG00548
USDA (USFS-NIFC) Agreement No. 10-IA-11130206-008

I. INTRODUCTION.

Wildland fire management, suppression, and safety are of national importance and are an ongoing concern of the American public. Considerable cooperation and coordination already exists among the Department of the Interior (DOI), the Department of Agriculture (USDA), and the Department of Defense (DoD) for discharging these responsibilities.

The National Interagency Fire Center (NIFC) is jointly managed by the Departments of Agriculture and the Interior. It is staffed by personnel from several Federal agencies whose facilities are combined to carry out their respective Department's wildland fire management responsibilities. NIFC is responsible to provide national coordination and logistic support for the activities related to the control of forest and range fires within the United States, which includes all 50 States and the District of Columbia, and fires on State and private lands, as well as all U.S. Territories and Possessions.

The Assistant Secretary of Defense for Homeland Defense and Americas' Security Affairs (ASD (HD- ASA)), as assigned in DoD Directive 5111.13, "Assistant Secretary of Defense for Homeland Defense and America's Security Affairs (ASD(HD&ASA)), "January 16, 2009, serves as the principal civilian advisor to the Secretary of Defense and the Under Secretary of Defense for Policy on Defense Support of Civil Authorities (DSCA). The Secretary of Defense has delegated to the ASD (HD&ASA) the authority to approve certain requests for assistance from civilian authorities such as those relating to DoD Components (including the Military Departments and DoD agencies), providing wildland fire emergency assistance to Federal agencies through the NIFC. The Bureau of Land Management (BLM) acts as the administrator of this Agreement and acts on behalf of the other DOI, Wildland Fire Management Agencies,

Bureau of Indian Affairs (BIA), National Park Service (NPS) and Fish and Wildlife Service (FWS) for transactions under this agreement.

II. PURPOSE.

The purpose of this Interagency Agreement is to establish the general guidelines, terms and conditions under which NIFC will request and DoD will provide temporary support to NIFC in wildland fire emergencies occurring within any State, U.S. Territory or Possession, or the District of Columbia, including fires on State and private lands. It is also intended to provide the basis for reimbursement of DoD expenditures under the Economy Act (31 U.S.C. §§ 1535-36) for goods and services provided through the NIFC to the various firefighting agencies for response to wildland fire emergencies.

III. AUTHORITY.

- A. The Economy Act of June 30, 1932, as amended (31 U.S.C. § 1535, 1536)
- B. Department of the Interior and Related Agencies Appropriations Act for FY 2010 (P.L. 111-88), and
Appropriations Act(s) for subsequent fiscal years
- C. Federal Land Policy and Management Act of 1976 (43 U.S.C. § 1701 et seq.)
- D. National Park Service Organic Act of August 1916 (16 U.S.C. § 1)
- E. National Wildlife Refuge System Administration Act of June 27, 1998, as amended (16 U.S.C. § 668dd)
- F. National Indian Forest Resources Management Act of 1990 (25 U.S.C. § 3101 et seq.)
- G. Cooperative Forestry Assistance Act of 1978 (P.L. 95-313, 92 Stat. 365 as amended; 16 U.S.C. § 2101 (note), 2101-2103, 2103a, 2103b, 2104-2105)
- H. National Forest Management Act of 1976 (16 U.S.C. 1600)
- I. DoD Directive 3025.1, Military Support to Civil Authorities (MSCA), January 15, 1993
- J. DoD Directive 3025.15, Military Assistance to Civil Authorities (MACA), February 18, 1997
- K. DOD Directive 5111.13, "Assistant Secretary of Defense for Homeland Defense and Americas' Security Affairs (ASD(HD&HD&ASA)), "January 16, 2009
- L. DoD Instruction 6055.6, DoD Fire and Emergency Services Program, December 21, 2006
- M. DoD Financial Management Regulation (FMR), DoD 7000.14-R, Volume IIA, Reimbursable
Operations, Policy and Procedures, August 2009.
- N. DoD Financial Management Regulation (FMR), DoD 7000.14-R, Volume IIB Reimbursable
Operations, Policy, and Procedures-Defense Working Capital Fund, May 2009

IV. RESPONSIBILITIES.

A. The NIFC agrees to:

1. Submit initial requests for DoD support through the DoD Executive Secretariat. All subsequent requests will be submitted through the Defense Coordinating Officer (DCO), once assigned to the NIFC.
2. Provide an appropriate funding agreement or ordering document referencing this Agreement. The document will describe the DoD capabilities requested, when and where the resources are needed, an estimate of the length of time the resources are required, agency fund code(s), billing instructions, and acquisition authority. The NIFC will ensure that funds are available to reimburse DoD for goods and services provided, and that the request is in the best interest of the government.
3. Ensure that requests for utilization of DoD aviation or other assets will be reviewed and compliant with the Economy Act of June 30, 1932, as amended (31 U.S.C. §§ 1535, 1536), the Federal Acquisition Regulations (FAR), and any other applicable laws and regulations, as appropriate.
4. Provide appropriate personnel, training, equipment, supplies and other resources as required to prepare DoD personnel for the following wildland fire suppression duties:
 - a. Modular Airborne Fire Fighting System (MAFFS) annual certification.
 - b. Ground firefighting and overhead support personnel training prior to assignment to a fire.
 - c. Rotary-wing aircrews and support personnel training for external load water bucket operations prior to utilization on a fire.
 - d. Communications training in the use of the NIFC radios, if installed and certified for the designated DoD aircraft.
 - e. Aircrew training with civilian fire managers on-board aircraft during flight operations.
5. Reimburse DoD for the actual costs of the goods and services (e.g. personnel, equipment, aircraft, supplies and fire protection services) provided in wildland fire management operations.
 - a. Actual costs include all direct costs attributable to providing such goods or services. Actual costs also include indirect costs (overhead) if the personnel, equipment, aircraft, supplies and fire protection services are provided for the benefit of the DOI or USDA.
 - b. Reimbursement will be in accordance with DoD Financial Management Regulation (FMR) DoD 7000.14-R, as amended. A summarization of the rules for determining the reimbursable amounts to be collected by DoD Components are found in the FMR in Volume 11A, Chapter 1, addendum 1, addendum 2 and any subsequent related addenda.

- c. Transfer of funds will be made directly to the appropriate DoD Component via the Intra-governmental Paying and Collection (IPAC) System.
- 6. Provide a summary by agreement number of the cumulative DoD approved billings, DoD reimbursements, and an estimate of the outstanding billings based on DoD obligation estimates by DoD Components for the prior calendar year by February 15 of each calendar year.

B. DoD agrees to:

- 1. Provide assistance in the form of personnel (military or National Wildfire Coordinating Group (NWCG)-certified DoD civilian fire fighters), equipment, aircraft, supplies, and/or fire protection services on a reimbursable basis when a request for assistance complies with the requirements of this Agreement and DoD is able to provide the requested resources.
- 2. Provide Modular Airborne Firefighting System (MAFFS)-capable aircraft, MAFFS-trained aircrews and appropriate support personnel to conduct aerial dispersal of fire retardant for fire suppression on a reimbursable basis when requests for this type of assistance comply with the requirements of this Agreement and DoD is able to provide the requested support. The USDA, Forest Service (USDA, FS) owns and will provide MAFFS units for deployment on DoD MAFFS-capable aircraft.
- 3. Provide rotary -wing aircraft, NIFC-Trained aircrews, and support personnel capable of conducting external load, water bucket operations on a reimbursable basis when requests for this type of assistance comply with the requirements of this Agreement and DoD is able to provide the requested support.
- 4. Ensure servicing DoD Components provide the NIFC with an obligation estimate for DoD resources at the time of request, including updates as needed. DoD will coordinate closely with the NIFC and the Defense Finance and Accounting Service (DFAS) (as prescribed by DoD FMR, Volume 11A, Chapter 3) to ensure appropriate billing procedures are followed. DoD will also provide a single point of contact within each DoD Component.
- 5. Provide the NIFC invoices from each DoD Component for goods and services using a Standard Form (SF) 1080 billing document.
 - a. Submit invoices to: USDA Forest Service, Financial Manager, 3833 South Development Avenue, Boise, Idaho, 83705.
 - b. Invoicing for actual expenditures reimbursements (performance of work or services, payments to contractors, or delivery from inventory) will begin within sixty- (60) calendar days after the month in which performance occurred. Final billing invoices will be submitted within ninety- (90) calendar days of the termination of the supported event.
 - c. Supporting documentation is required for each billing invoice (SF-1080) and should include: Agreement number, DoD point of contact (POC), POC commercial phone

number, financial data, copies of actual invoices to back up expenditures, and whether the invoice is a partial or final billing.

- d. DoD Components will cite the obligation document number upon the NIFC approval of the SF-1080 billing document and submit it to the appropriate Defense Finance and Accounting Services (DFAS) paying station.
- e. Acceptable methods of transmitting the SF-1080 billing document and back-up documentation to the NIFC include a printed copy via standard U.S. mail or overnight service, fax, or e-mail.

- 6. Retain the right to disapprove or modify any request that interferes with the Department's operational readiness, or that DoD is otherwise unable to approve.

C. The DOI, USDA, and DoD mutually agree to:

- 1. The USDA, FS-NIFC will be the agency responsible for the payment and reconciliation of DoD expenditures under this Agreement. The DOI will make transfers of funds to the USDA, FS by arrangements separate from this Agreement, as warranted and appropriate.
- 2. Conduct an annual coordination meeting or conference call not later than May 1, as well as a post-season meeting or conference call not later than December 20, to share plans and to review lessons learned, current procedures, and Department policies, and to make any revisions, as necessary.
- 3. Conduct a post-fire season reimbursement workshop not later than December 20 with appropriate DoD Components and the NIFC, as needed. The individuals involved will select the date, location and agenda for the workshop. The purpose of this workshop will be to ensure all DoD support to the NIFC has been fully reimbursed for the previous fire season, to complete outstanding reimbursement transactions, to update points of contact, and to train new personnel on the reimbursement process (if necessary). Reimbursement procedures will also be reviewed for the upcoming fire season.

V. TERMS OF AGREEMENT.

- A. This Interagency Agreement will become effective and will remain in effect for a period of five (5) years commencing on the date of the final signature on this Agreement, unless otherwise agreed, modified or terminated by mutual agreement. This Agreement will be reviewed by all participants to determine suitability for renewal, revision, or termination. Extensions will be in writing and signed by all signatories, or authorized representatives, to this Agreement.
- B. Any party may terminate its participation in this Agreement by providing thirty- (30) calendar days written notice prior of such termination to the other parties. The parties understand that reimbursement for any expenses properly incurred before the cancellation date will be made in accordance with the terms of this Agreement. The remaining parties may continue participation under the provisions of this Agreement as long as DoD remains a party.
- C. This Agreement does not supersede or modify existing mutual aid agreements, assistance agreements, Memoranda of Understanding, or other contract procedures between individual DoD installations and local communities.

- D. This Agreement, upon becoming effective, supersedes the Interagency Agreement between the Departments of Agriculture (No. 05-IA-11130206-053), Interior (No. 1422RAI050018), and Defense for the *Provision of Temporary Support During Wildland Fire Fighting Operations* effective July 27, 2005 and as modified on April 3, 2006.

VI. GENERAL PROVISIONS.

- A. All obligations of the parties to this Agreement shall be subject to the availability of funds for such purposes. All parties agree to undertake obligations in good faith reliance on the other parties' good faith representations that funds are, in fact, available to satisfy obligations.
- B. Any signatory agency may initiate a modification to this Agreement to incorporate any changes that are mutually agreed to by the participants. Such modifications shall be in writing and shall identify the specific activities as appropriate and any other pertinent details of the modification. The DOI, Bureau of Land Management (BLM) is designated as the agency responsible for all administrative oversight and preparation of modifications to this Agreement. The modification(s) shall not take effect until documented and signed by authorized signatories for the agencies.

VII. RESOLUTION OF DISAGREEMENTS.

In the event of a disagreement in the interpretation of the provisions of this Agreement, or amendments and/or modifications thereto, that cannot be resolved at the operating level, the area(s) of disagreement will be stated in writing by each party and presented to the other parties for consideration. If agreement on interpretation is not reached within thirty (30) days, the parties will forward the written presentation of the disagreement to their respective more senior officials within their respective organizations for appropriate resolution, and/or dispute resolution resources available to the Departments such as the U.S. Department of Justice Legal Offices.

Nothing herein is intended to conflict with current DoD, USDA and DOI directives. If the terms of this Agreement are inconsistent with existing directives of the agencies entering into this Agreement, then those portions of the Agreement that are determined to be inconsistent will be invalid but the remaining terms and conditions not affected by the inconsistency will remain in effect. At the first opportunity for review of the Agreement, all necessary changes will be accomplished either by an amendment to this Agreement or by entering into a new agreement, whichever is deemed expedient to the interest of all Parties.

VIII. PRINCIPAL CONTACTS.

- A. For the National Interagency Fire Center:

TECHNICAL CONTACT
NICC
Manager
National Interagency Fire
Center

3833 South Development
Avenue
Boise ID 83705-5354
208/387-5400- office
208/387-5414- fax

ADMINISTRATIVE CONTACT

Administrative Manager
National Interagency Fire
Center
U.S. Forest Service
3833 South Development
Avenue
Boise ID 83705-5354
208/387-5608- office
208/387-5394- fax

AGREEMENTS CONTACT

Grants and Agreements
Specialist National Interagency
Fire Center Bureau of Land
Management
3833 South Development Avenue
Boise ID 83705-5354
208/387-5544- office
208/387-5574- fax

B. For the Department of
Defense:

ADMINISTRATIVE CONTACT

Director, Defense Support of Civil Authorities
Office of the Assistant Secretary of Defense
(Homeland Defense & Americas' Security
Affairs)
2600 Defense Pentagon, Room 5D337
Washington, DC 20301-2600
703-697-5822- Office
703-697-5991 -Fax

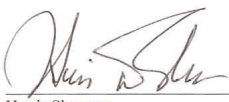
IX. SIGNATORIES.

By signature below, the Departments certify that the representatives listed in this document are authorized to act for matters related to this agreement.



Paul N. Stockton
Assistant Secretary of Defense for Homeland Defense
& Americas' Security Affairs
U.S. Department of Defense

MAR 30 2010
Date



Harris Sherman
Under Secretary for Natural Resources and Environment
U.S. Department of Agriculture

5/13/10
Date



Rhea Suh
Assistant Secretary, Policy, Management and Budget
U.S. Department of the Interior

6/2/10
Date

Appendix B: Request for Assistance Example

National Multi-Agency Coordinating Group

3833 South Development Avenue; Boise, ID 83705

June XX, 20XX

To: Executive Secretary of Department of Defense JDOMS through Region X DCO
From: The National Interagency Fire Center
Subject: Request for Military Support

The continue to experience elevated drought conditions. Fire activity has increased in terms of large fires, emerging fires and initial attack activity. Exclusive Use Large Airtanker support requests have exceeded current capability. Given the dry fuel conditions and forecast for hot, windy conditions fire activity is expected to continue.

The National Interagency Fire Center (NIFC) requests DoD's support with the following Wildland FireFighting (WFF) assets:

- Request two (2) C-130s capable of transporting and employing the MAFFS, along with appropriate command, control and support personnel to assist in firefighting as outlined in the 2026 FS Standards for MAFFS Operations .
- Initial MAFFS C-130 Deployment location is Boise, Idaho (KBOI) on the Airtanker Base (ATB) ramp. Aircraft are to be operational and ready to receive launch order requests on or before Sunday XX July 2014 at 1030.
- MAFFS operations are to be conducted within the western states in support of Geographic Area Coordination Centers (GACC) from ATBs mutually approved by USFS and DoD as outlined in the FS Standards for MAFFS Operations.

The anticipated duration of need is thru XX August 2014 unless released earlier. All DoD incurred costs in support will be reimbursed in accordance with 31 USC, Section 1535 of the Economy Act to include pay and allowances. Sufficient funds will be obligated upon receipt of estimated DoD costs for this exercise. This request has been reviewed by COL XXX XXXX, NIFC DCO, 425-487-4790.

The POC for financial issues at NIFC is _____.

If you have questions concerning this Request for Assistance, contact Assistant Director of Operations (ADO), National Interagency Fire Center, 208-387-5949.

/s/ Assistant Director – Operations, USDA-FS NIFC



Appendix C: MAFFS Standard Base Organization and Chart

Recommended Minimum MAFFS Staffing

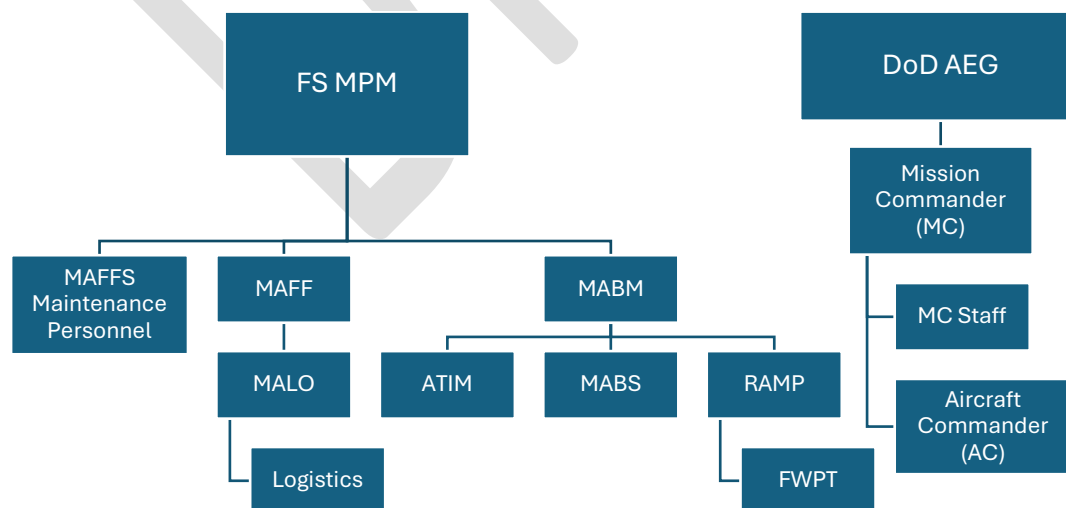
The following staffing matrix is for activations for locations that do not have an established airtanker base.

For activations or operations at established airtanker bases, work with the local airtanker base manager to identify necessary personnel to supplement base staff.

The MAFF will coordinate with the MPM for staffing. Some of the qualifications may not need to be ordered or one person may fill multiple roles depending on location, duration, or number of aircraft.

Qualification	Full Activation 1-2 planes	Full Activation 3-8 planes	Short Duration RFA <14 days	International
MAFF/MAFF(t)	1&1	1&1	1*	1&0
MALO/MALO(t)	Consider	Recommended	Consider	0&0
MAFFS Mechanics	2	3 - 6	2	2
MAFFS COMM Spec	Consider	Recommended	Consider	0
MABM/MABM(t)	1&1	1&1	1&0	1&0
MABS/MABS(t)	1&1	1&1	One or the other	1&0
RAMP/RAMP(t)	1&1	1&1	1&0	1&0
FWPT/FWPT(t)	2&2	4&4	2&2	2
ATIM/ATIM(t)	1&1	1&1	0	0
Purchasing	1	1	0	0
*does not need to be on site				

Activation/Exercise Agency and DoD Organization Chart



Appendix D: MAFFS Marking Scheme

Refer to TO 1C-130H-2-90JG-10-1

- Do not mark any flight control surfaces. Mark only solid surfaces, and extend the leading edge mark from top to bottom.
- MAFFS Numbers may be manufactured by using stencil- ing software, utilizing Windsor Bold font.

A,B

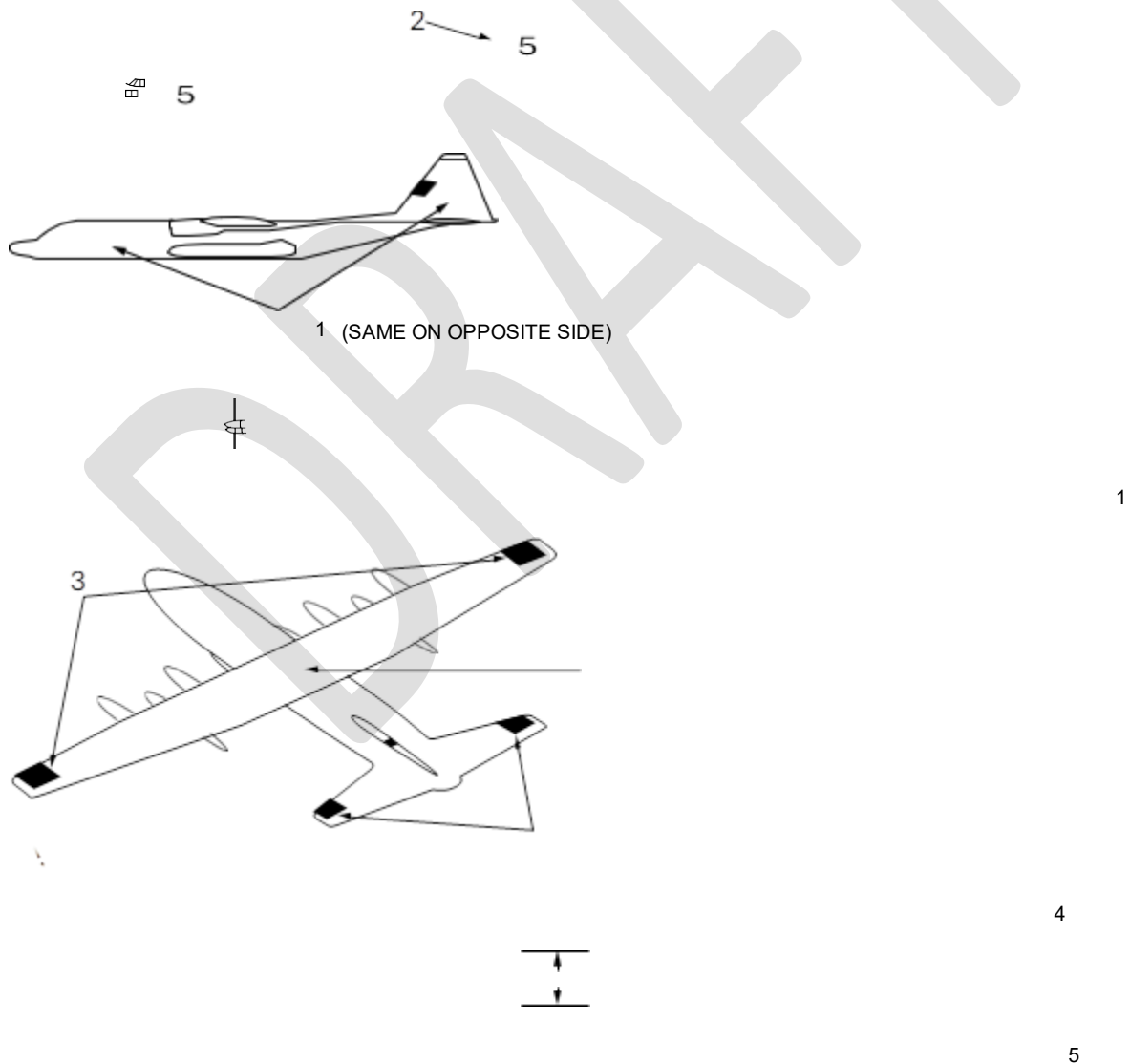
1. **Install MAFFS numbers** at prescribed locations (1) and dimensions (5).

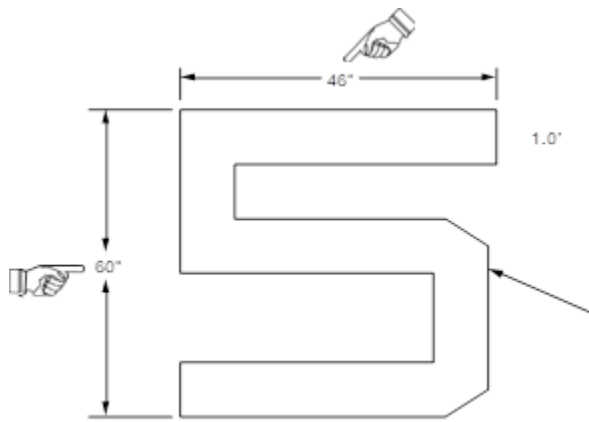
A,B

2. **Install MAFFS tape** to cover approximately 25 square foot area on each of the following surfaces:

- a. WING TIPS (3)
- b. HORIZONTAL STABILIZER (4)
- c. VERTICAL STABILIZER (2)

END OF TASK FOLLOW ON MAINTENANCE





DRAFT

Appendix E: Call Signs and Locations

- **MAFFS 1** - 153rd Airlift Wing, Wyoming National Guard, Cheyenne, WY C-130H
 - **MAFFS 3** - 153rd Airlift Wing, Wyoming National Guard, Cheyenne, WY C-130H
 - **MAFFS 8** - 152nd Airlift Wing, Nevada Air National Guard, Reno, NV C-130H
 - **MAFFS 9** - 152nd Airlift Wing, Nevada Air National Guard, Reno, NV C-130H
 - **MAFFS 2** - 302nd Airlift Wing, Air Force Reserve, Colorado Springs, CO C-130H
 - **MAFFS 5** - 302nd Airlift Wing, Air Force Reserve, Colorado Springs, CO C-130H
 - **MAFFS 4** - 146th Airlift Wing, California Air National Guard, Oxnard, CA C-130J
 - **MAFFS 6** - 146th Airlift Wing, California Air National Guard, Oxnard, CA C-130J
-

Identification of MAFFS Units (by color-code)	
001	Black
002	Rust
003	Red
004	Yellow
005	Blue
006	Orange
008	Green
009	Black/White

*Note- MAFFS 7 has been retired in honor of the crew who perished in the crash July 1, 2012.

Appendix F: MAFFS Roles and Responsibilities

MAFFS Steering Committee (MSC)

The MSC membership is made up of subject matter experts (SMEs) in the MAFFS program. Each member has the responsibility to provide oversight, staffing support, guidance, and problem-solving skills for their area of expertise and/or qualification.

Refer to the MAFFS Steering Committee Standard Operating Procedures available upon request to the MAFFS Program Manager.

MAFFS Airtanker Base Manager (MABM)

MABM Duties

The MABM and the MAFFS Liaison Officer (MAFF) collaborate closely before, during, and after exercises and activations to ensure safe, efficient, and effective MAFFS operations. Both the MABM and the MAFF report directly to the MAFFS Program Manager (MPM).

A MABM is required at all exercises and full activations. A MABM trainee should be ordered for the duration of each exercise or activation. All the duties listed below may be delegated to the trainee.

Base operations will conform to standard operating procedures established in the Standards for Airtanker Base Operations (SABO) and the FS Standards for MAFFS Operations. In the event of conflict with DoD procedures, the more restrictive procedure will prevail. When operating from an established airtanker base coordinate with the Airtanker Base Manager (ATBM).

1. Work with the MAFF and airport manager to pick the location on the airport to set up and operate a portable retardant base, if required.
2. The MABM, MABS, RAMP, FWPT(s) are responsible for ensuring the safety on or around the ramp and base of operations. If span of control is exceeded, consider ordering a safety officer.
3. Work with the MAFF, Mission Commander (MC), and local fuel vendor on how and when the aircraft will be fueled.
4. Be thoroughly familiar with and enforce the FS Standards for MAFFS Operations and any other applicable plans, guides, and policies.
5. Determine MAFFS reload base capability with respect to location of the activation base and reports information to the MC, MAFF and hosting GACC.
6. Coordinate with the MAFF and local ATBM to assess the size of the ground operation, and order personnel to support MAFFS operations at the airtanker base (i.e., retardant mixmaster, compressor operators, forklift operator, etc.).
7. When MAFFS operations require a mobile retardant base (MRB) coordinate with the MAFF and supplier of fire retardant on ordering, setting up, logistics, and placement of the MRB.
8. Coordinate with the MAFF, and local ATBM if at an established airtanker base, on orders of support equipment for the base (i.e. port-a-potties, forklift, tent flies for shade, etc.).

9. Coordinate with the Ramp Manager (RAMP) to regulate all movement of aircraft, motor vehicles, and personnel being used around the operation.
10. Attend and participate as requested in the daily airtanker base briefings and after-action reviews (AARs). These briefings are led by the MAFF for exercises and activations not at an airtanker base, or the ATBM at an established airtanker base.
11. Ensure personnel are qualified in the positions they are identified for.
12. For operations not at an established airtanker base, hold a separate daily morning briefing with all personnel (agency, contract, and DoD) assigned to work on the ramp. Make assignments for the day and discuss any safety alerts.
13. For operations not at an established airtanker base, hold a separate AAR with all personnel (agency, contract, and DoD) assigned to work on the ramp.
14. For each portable base kit opened, inventory and replace items as necessary prior to deactivation.
15. Complete ICS Form 225, Incident Personnel Rating, for each qualified MABS prior to their release from the training exercise or activation. Provide one copy to the MABS and one to the MSC.
16. A qualified MABM will complete an ICS Form 225, Incident Personnel Rating, for each trainee MABM prior to their release from the training exercise or activation. Provide one copy to the trainee and one to the MSC.
17. MABM, local ATBM, and MAFF will verify information on dispatch/resource order together prior to loading MAFFS aircraft (all aircraft will receive a resource order before being dispatched).
18. Be responsible for assigning an Aircraft Timekeeper when MAFFS is not operating from an existing airtanker base.

MAFFS Airtanker Base Specialist (MABS)

MABS Duties

The MABS reports to the MABM. The MABS primary responsibility is to ensure safe and efficient integration of MAFFS ramp and loading operations. The MABS is the entry level qualification that have been engaged in either a MAFFS exercise or activation. Due to their basic understanding of MAFFS operations, along with their ramp qualification, the MABS can integrate effectively with existing airtanker base personnel or provide oversight for ramp and loading operations for the MAFFS program.

If a MABM is not onsite, a MABS or MABS trainee is required to be onsite during any and all MAFFS operations. A MABS trainee should be ordered for the duration of each exercise or activation. All the duties listed below may be delegated to the trainee.

1. At locations without an existing airtanker base, assist the MABM with ramp layout.
2. At locations without an existing airtanker base, assist in assembling the retardant base equipment and facilities.
3. At locations without an existing airtanker base, maintain the readiness of retardant base equipment and facilities (i.e. checks oil/fuel levels, water source, electrical, meter connections, etc.).
4. Assist MABM with ordering fuel for MAFFS support equipment.

5. Operates or oversees the ground compressor during loading operations.
6. Assure that MAFFS are loaded using a mass flow meter to ensure that loads do not exceed aircraft limitations.
7. Assist the MABM with compiling documentation, log sheets, etc.
8. Attend and participate as requested in the daily airtanker base briefings and after-action reviews (AARs). These briefings are led by the MAFF for exercises and activations not at an airtanker base, or the ATBM at an established airtanker base.
9. Report all hazards and incidents/accidents immediately to the MABM.
10. Complete ICS Form 225, Incident Personnel Rating, for each trainee MABS prior to their release from the training exercise or activation. Provide one copy to the trainee and one to the MSC.
11. Inventory MAFFS portable base kits and document replacement needs.
12. Demobilize, disassemble, and repack MAFFS portable base kits.

MAFFS Liaison Officer (MAFF)

MAFF Duties

The role of a MAFF is to serve as the agency primary point of contact and coordinator between the FS, the DoD, and other firefighting agencies before, during, and after exercises and activations. The MAFF collaborates closely with the MABM and MC and reports directly to the MPM.

A MAFF is required at all exercises and full activations. A MAFF trainee should be ordered for the duration of each exercise or activation. All the duties listed below may be delegated to the trainee.

Along with the duties below, upon being assigned to an exercise or activation, the MAFF will contact the MPM for agency leaders intent and expectations.

1. Have a working knowledge of the Interagency Agreement for the Provision of Temporary Support During Wildland Firefighting Operations (MOU) between the DoD and USDA-USDI.
2. Maintain a daily unit log and provide a copy to the MPM.
3. Keep current with operational procedures, equipment, and technical changes.
4. Make initial contact, establishing communication channels with the MPM, NICC, MC, MABM, GACC, PIO, PAO, Forest Dispatch, DoD Base Commander, and other applicable entities.
5. Contact on-duty NICC Coordinator and receiving GACC or local hosting unit to determine who will process all subsequent resource and supply orders.
6. Coordinate with the NIICD Avionics Branch Chief to order radio kits, printers, and equipment for internet connectivity.
7. Coordinate lodging, transportation and other logistical support for DoD personnel assigned to the MAFFS operation.
8. Coordinate standby facilities and arrangements for the DoD crews with the MC.

9. Arrange for a minimum 6,000-pound low mast forklift with long forks.
10. Coordinates with procurement personnel and MABM to arrange for fuel for support equipment.
11. Confirm with the MPM, that MAFFS maintenance personnel have been ordered.
12. For exercises and activations not at existing airtanker bases, the MAFF will lead daily morning briefing.
13. Ensure a MAFFS lead plane pilot is available for daily briefing of the MAFFS crews. If unable, relay any air safety concerns from the MC to the MAFFS Airtanker Coordinator.
14. Obtain area flight hazard map from local airtanker base, Forest, or dispatch.
15. Coordinate activities of the media in MAFFS operating area with the MABM and supply necessary information for news releases after coordination with the MC directly through the PIO.
16. Assure necessary records are kept and sent to the MPM. Refer to the FS Standards for MAFFS Operations for the required records documentation and routing.
17. Report incidents/accidents to MPM and NICC in accordance with provisions outlined in Accident/Incident Reporting Procedures and the S Standards for MAFFS Operations.
18. Prepare a draft final report before departing the exercise or activation. A final report will be sent to the MPM for review and distribution within 10 days.
19. Ensure/complete ICS Form 225, Incident Personnel Rating, for all personnel assigned to the incident prior to their release from an exercise or an activation. Provide one copy to the individual and one to the MSC.
20. Verify MAFFS flight time from DoD flight logs.

MAFFS Assistant Liaison Officer (MALO)

MALO Duties

The role of a MALO is to assist the MAFF as the agency primary point of contact and coordinator between the FS, the DoD, and other firefighting agencies before, during, and after exercises and activations. The MALO reports directly to the MAFF.

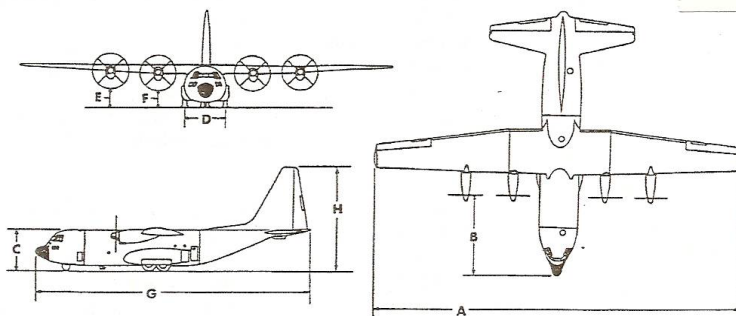
When the MAFF and MPM deem necessary, a MALO can be ordered for the duration of each exercise or activation.

The duties of the MALO are the same duties as the MAFF, and are delegated by the MAFF as needed.

Appendix G: Aircraft Dimensions and Turning Radii

C130H AIRCRAFT DIMENSIONS

TO 1C-130A-9



DIM.	C-130A		C-130B	C-130E AND C-130H	MC-130H	LC-130H
	WITHOUT RADOME	WITH RADOME				
A	132'8"	132'9"	132'8"	132'7"	132'7"	132'7"
B	27'4"	29'11"	29'1"	29'1"	31'1"	29'1"
C	15'	15'	15'	15'3"	15'3"	15'8"
D	14'3"	14'3"	14'3"	14'3"	14'3"	19'9" (SKIS)
E	5'6"	5'8"	6'7"	6'8"	6'8"	7'1"
F	5'	5'	5'10"	6'	6'	6'5"
G	95'2"	97'9"	97'9"	97'9"	99'6"	97'9"
H	38'8"	38'8"	38'5"	38'3"	38'6"	38'1"

NOTE

1. DIMENSIONS SHOWN ARE NOMINAL.

△ DIMENSION G IS 99' 6" FOR AIRPLANES MODIFIED BY TO 1C-130-728.

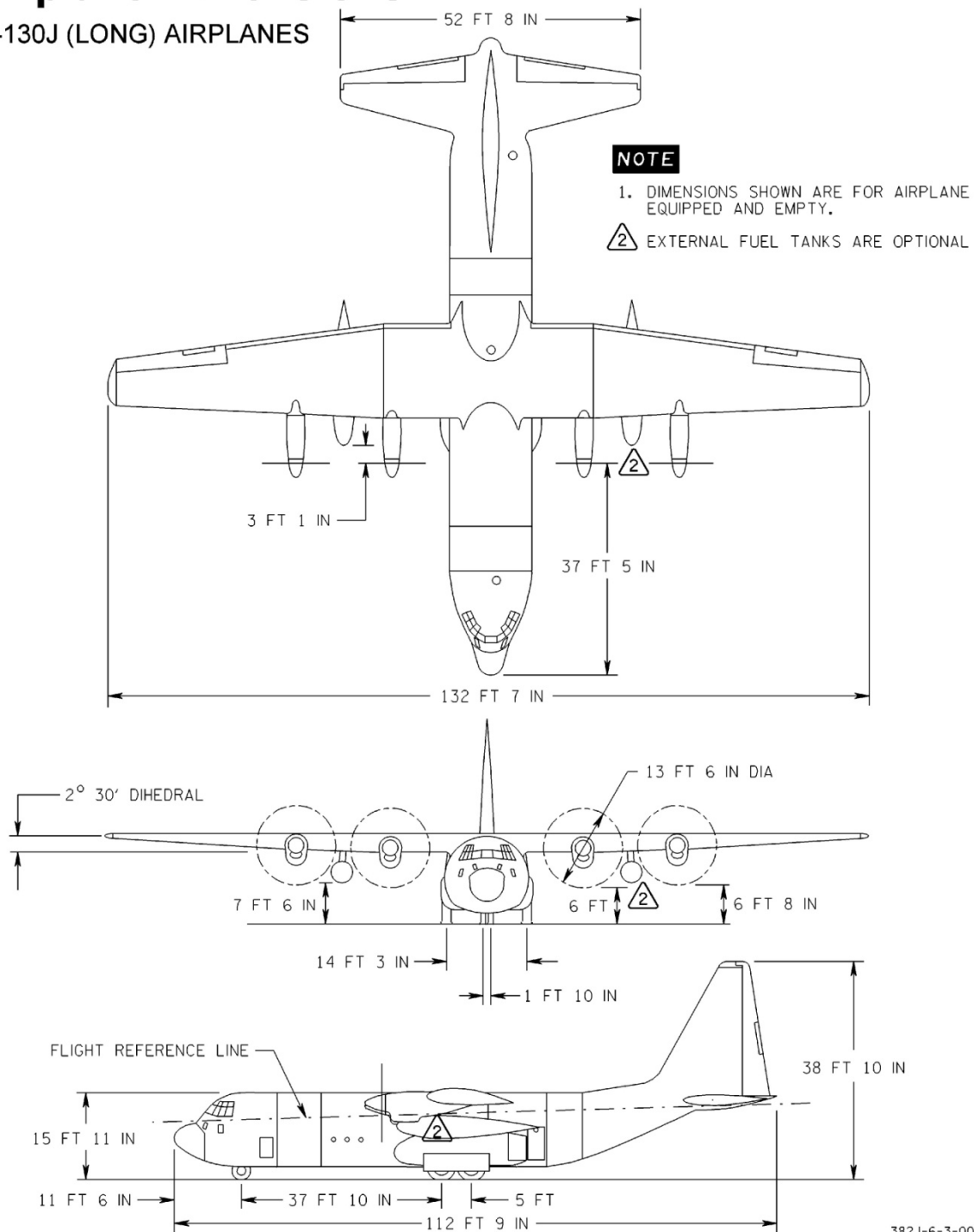
387C-40-2-400

Airplane External Dimensions

C-130J

Airplane Dimensions

C-130J (LONG) AIRPLANES



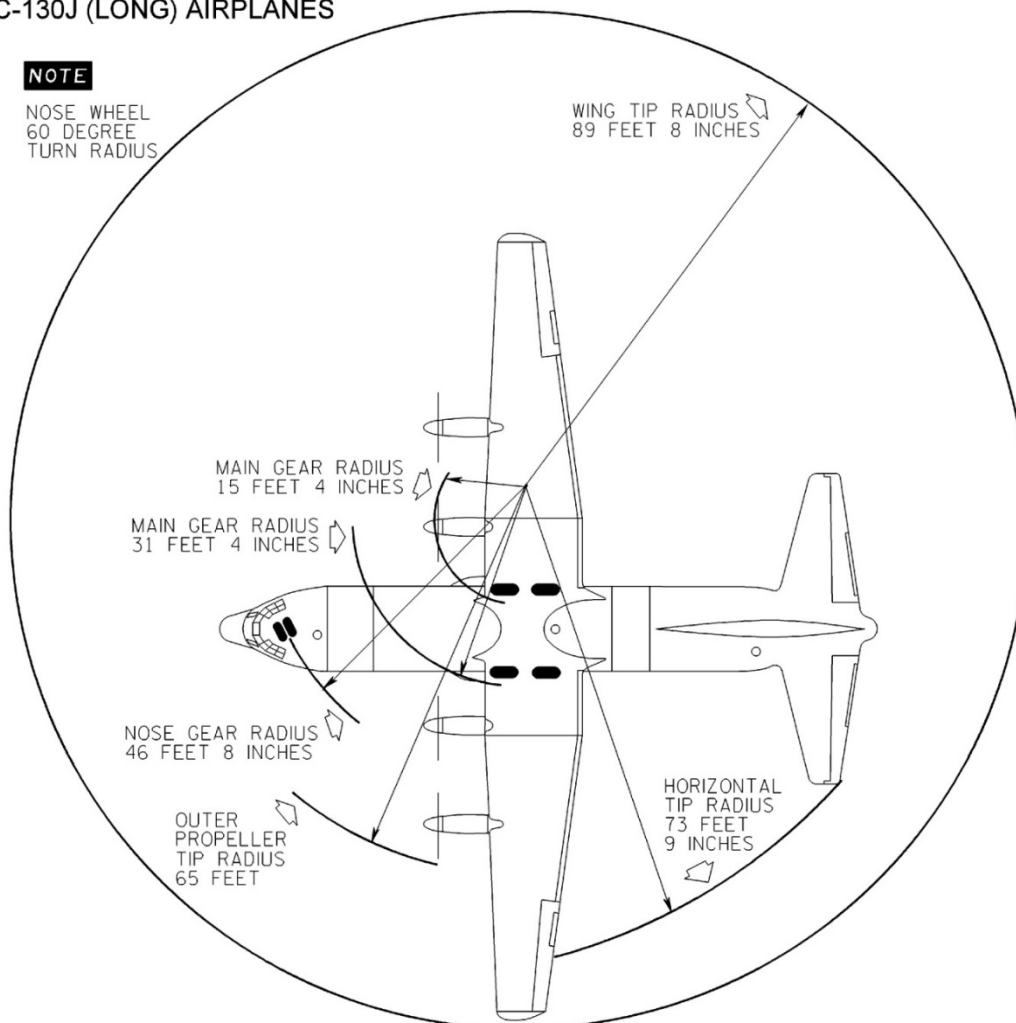
C-130J

Turning Radii

C-130J (LONG) AIRPLANES

NOTE

NOSE WHEEL
60 DEGREE
TURN RADIUS



VERTICAL CLEARANCES

WING TIP	12 FEET
VERTICAL STABILIZER TIP	38 FEET 6 INCHES
INBOARD PROPELLER	5 FEET 9 INCHES
OUTBOARD PROPELLER	6 FEET 5 INCHES

CAUTION

MINIMUM SPACE REQUIRED FOR
TURNING IS 179 FEET 4 INCHES
WITH THE NOSE GEAR TURNED
TO THE MAXIMUM OF 60 DEGREES
AT TAXI SPEEDS UNDER 5 KNOTS.

382J-2A-2-006AF

Parking configurations:

- Separation of C-130H models will be a minimum of 200 feet nose to nose.
- Separation of C-130J models will be a minimum of 240 feet nose to nose.
- Separation of a combination of C-130J and C-130H models will be a minimum of 240 feet nose to nose.
- In a nose to tail parking configuration, separation distance will be measured from the nose wheel to nose wheel of aircraft.

Appendix H: Transportation Requirements

The Purchasing Agent (PA) will assist in coordinating for rental cars after receiving direction from the MPM and/or MAFF. For any size activation the following transportation will likely be required:

Rental cars as required for the MAFFS flight crews, maintenance, ops, and support personnel.

Cars should be available when MAFFS aircraft arrive.

Table 1: Passenger Vehicles for a 2 Aircraft MAFFS Activation

Vehicle Type	Mission Commander	MAFFS Flight Crews	MAFFS Military Maintenance	AEG/EAS
Passenger Vehicle	1			
Medium Duty Passenger Van		2	2	
Full Size SUVs		Or 2	Or 2	1

Table 2: Passenger Vehicles for a 4 Aircraft MAFFS Activation

Vehicle Type	Mission Commander	MAFFS Flight Crews	MAFFS Military Maintenance	AEG/EAS
Passenger Vehicle	1			
Medium Duty Passenger Van		4	4	
Full Size SUVs		Or 4	Or 3	1
Full Size Truck			1	

The DoD will provide their own travel arrangements to and from the activation/exercise.

The following spreadsheet was developed to give the DoW insight to the potential for a MAFFS activation.

23