CHAPTER 50
AIRCRAFT

AIRCRAFT MOBILIZATION

For all aircraft orders, documenting special needs, threats, or specific reporting instructions is critical for the proper and timely processing of each aircraft request. All aircraft should be dispatched by closest resource, regardless of Geographic Area boundaries. When a Geographic Area has depleted local and available aircraft resources, request(s) will be placed with NICC. Aircraft assigned will remain in the Geographic Area until released or reallocated by NICC.

The following selection factors will be considered when ordering aircraft:

- Initial Attack vs. Large Fire Support.
- Closest resource, regardless of Geographic Area boundary.
- Timeliness.
- Cost effectiveness.
- Performance specifications for density/high altitude operations.
- Airtanker Type (T1 & T2 LATs, VLAT, or SEAT).
- Special flights/capabilities, to include short-haul, STEP, aerial ignition, rappel, hoist, etc.
- Special equipment, bucket vs. tank, tundra pads, floats, etc.

The following terminology will be used when requesting aircraft through NICC:

- Knots (kts.) will be the standard term used to reference airspeed.
- VORs (Very High Frequency Omnidirectional Range) will be used to reference direction.
- Latitude and longitude must be provided in Degrees Decimal Minutes (DDM), utilizing GPS Datum WGS84 degrees and minutes.
- Aircraft registration numbers will be used when referencing helicopters, lead planes, and air attack aircraft.
- Airtankers, SEATs, and scoopers will be referenced by the airtanker/scooper number, e.g., T-40/S-260.

Personnel utilize *The NWCG Aircraft Dispatch/Kneeboard form* to mobilize aircraft to initial attack incidents

TYPES OF FLIGHTS

Point-to-Point

A “Point-to-point” flight is one that originates at one developed airport or permanent helibase, and flies directly to another developed airport or permanent helibase with the sole purpose of transporting personnel or cargo (this term does not apply to commercial air travel). These types of flights are often referred to as “administrative” flights and only require the aircraft and pilot to be carded and approved for point-to-point flight. A point-to-point flight is conducted higher than 500 feet above ground level (AGL).

Mission Flights

Mission flights are defined as flights not meeting the definition of point-to-point flight. A mission flight requires work to be performed in the air (retardant or water delivery, fire reconnaissance, smokejumper delivery), or through a combination of ground and aerial work (delivery of personnel and/or cargo from helibases to helispots or unimproved landing sites, rappelling or cargo let-down, horse herding). Mission Flights may require special pilot endorsements, flight evaluations, training, and/or specialized aircraft equipment.

Flight Manager

A Flight Manager will be designated for point-to-point flights transporting personnel. The Flight Manager is a government employee responsible for coordinating, managing, and supervising flight operations. The Flight Manager is not required to be on board most flights.

For those flights that have multiple legs or are complex in nature, a Flight Manager should attend the entire flight. The Flight Manager will meet the qualification standard for the level of mission assigned as set forth in the *Interagency Aviation Training Guide*.

The Sending Unit dispatcher supervises the Flight Manager until the destination is reached. Flight Manager duties are:

- Brief passengers and personnel providing an overview of the purpose, final destination, route of travel, intermediate stops, if applicable and estimated time(s) of arrival (ETAs).
- Ensure the passenger manifest is accurate and contains the correct names and weights of the passengers. Note: The pilot is ultimately responsible for ensuring correct weights, balance, and power computations. The Flight Manager will provide one copy of the manifest to the pilot-in-command and ensure that additional copies are available for the receiving unit and the sending dispatcher.
- Ensure proper Resource Tracking procedures are met.
- Ensure passenger aircraft safety briefing is conducted.
- Maintain a current list of telephone numbers for the sending and receiving units. The Flight Manager will contact the sending unit dispatch when the flight plan has deviated more than 30 minutes from the original flight plan.
- Have all personnel within the weight limitations, assembled, and ready to board in the designated staging area.
- Ensure the pilot and aircraft are currently authorized for the intended mission and the pilot – in-command can verify the aircraft is within weight and balance limitations.
- Responsible for signing the Daily Flight Report and invoices (Form 6500-122 or AMD-23) for all flights (except for domestic air carriers, airlines, and NIFC contract aircraft).
- For Canadian travel, the Flight Manager will ensure proper documentation is included.

FLIGHT FOLLOWING MANAGEMENT

FAA Flight Plans

FAA flight plans and flight following are generally used for point-to-point flights and the pilot or flight manager will contact dispatch with an estimated time of departure, estimated time enroute

and close out with dispatch once the aircraft is on the ground to accomplish resource tracking. The pilot shall close out the flight plan with the FAA once the flight is completed.

All flights conducted under FAA Instrument Flight Rules (IFR) are automatically provided FAA flight following. Administrative flights conducted under Visual Flight Rules (VFR) flight plans require the pilot to file a flight plan with the appropriate FAA facility. The pilot must request FAA flight following. Air Traffic Control (ATC) may or may not provide it.

The pilot must confirm with dispatch which type of FAA flight plan will be used. Automated Flight Following (AFF) or Verbal flight following is not required when an FAA flight plan has been filed.

Agency Flight Plans

The pilot is responsible for completing agency flight plans and distributing them through the originating dispatch office and documented on an Aircraft Flight Request/Schedule. All aircraft operating on Agency Flight Plans shall monitor Air Guard.

Aircraft Flight Request/Schedules

Aircraft Flight Request/Schedules are tools used between aviation crews and the dispatch system to share flight information critical for resource tracking, identification on intended method of flight following and, if warranted, mishap response.

Aircraft Flight Request/Schedules will be completed by the pilot or flight manager (regardless of type of flight plan filed) and shared with the originating dispatch center when the flight meets all the following criteria.

Under Agency Operational Control

- Applies to CWN aircraft hired on resource orders and mobilizing to requested delivery location. Does not apply to CWN aircraft released back to the vendor "provided no government personnel or cargo on board."
- Applies to all government owned aircraft
- Does NOT apply to contracted aircraft relocating in preparation for the beginning of a mandatory availability period (MAP) for an exclusive-use contract. These aircraft are not under agency operational control until beginning of their exclusive-use MAP.
- Leaving the local area (dispatch zone), and
- Admin/non-tactical/point-to-point flight OR tactical/mission flight that is leaving the local area and includes a scheduled stop for a tactical briefing, fuel stop, or passenger pick-up/drop-off enroute to an incident.

Sterile Cockpit – All Aircraft

Sterile cockpit rules apply within a 5-mile radius of the airport. The flight crew will not perform radio or cockpit communication during that time that is not directly related to safe flight of the aircraft from taxi to 5 miles out and from 5 miles out until clearing the active runway. This would consist of reading checklists, communication with ATC, flight service stations, Unicom, or other aircraft with the intent of ensuring separation or complying with ATC requirements. Communications by passengers or air crew members can be accomplished when the audio panels can be isolated and do not interfere with flight operations of the flight crew.

Exception: When conducting firefighting missions within 5 miles of an uncontrolled airport, maintain a sterile cockpit until departing the traffic pattern and reaching final altitude. Monitor common traffic advisory frequency (CTAF) frequency if feasible while engaged in firefighting activities. Monitor CTAF as soon as practical upon leaving the fire and returning to the uncontrolled airport. When conducting firefighting missions within class B, C, or D airspace, notify dispatch that ATC communications will have priority over dispatch communications.

Flight Following – All Aircraft

- The process(s) through which an aircraft is actively monitored, at regular intervals, using approved flight following methods from departure point to destination. This results in the knowledge of aircraft location and condition providing a reasonable degree of certainty such that, in the event of a mishap, search and rescue may be initiated.
- For point-to-point flights across dispatch or geographic area boundaries, it is preferred and recommended that the pilot operate IFR or flight follow with the FAA, alleviating the need for local dispatch agency flight following. Flight following with the FAA does not negate obligation to complete a flight schedule when required.

Resource Tracking

- An approved method by which the intended movement of a resource is documented and coordinated prior to departure, at completion of each leg, and upon arrival at destination. This results in the reasonable confirmation of a resource's status and location.
- NICC and most GACCs complete resource tracking—neither are a flight following entity. ONCC and OSCC complete flight following because they have direct radio communication with all interagency aircraft.

For mission flights, there are two types of Agency Flight Following:

- Automated Flight Following (AFF) is the preferred method of agency flight following. If the aircraft and flight following office have AFF capability, it shall be utilized. Periodic radio transmissions are acceptable when utilizing AFF. (See AFF procedures below for more information).
- Radio Check-in/Check-out flight following requires verbal communication via radio every 15 minutes. The dispatcher will log the aircraft call sign, latitude, longitude, and heading.

Agency flight following is used for all mission flights but is not required when an FAA flight plan has been filed for a point-to-point flight. Helicopters conducting mission flights shall check-in prior to and immediately after each takeoff/landing per the *NWCG Standards for Helicopter Operations, PMS 510*.

For point-to-point flights, AFF may also be used. The pilot or flight manager will, at a minimum, contact dispatch prior to the flight with an estimated time of departure, estimated time enroute, souls and fuel on board and will close out with dispatch once the aircraft is on the ground.

The originating dispatch office is responsible for flight following and retains that responsibility until transferring it through a documented, positive handoff. The flight following dispatch office shall be continually staffed while an aircraft is airborne. Confirmation of an aircraft's arrival at a specified destination is required to ensure that a flight has been completed safely. It is the pilot's responsibility to close out a flight plan.

If an aircraft is overdue, the receiving dispatcher must initiate aircraft search and rescue actions.

Personnel can document flight following problems using the *SAFECOM* system.

Flight Following for Demobilization

Dispatch offices will perform flight following on all Government or Exclusive-Use contract aircraft being demobilized. NICC will release charter and CWN aircraft to the vendor without flight following provided no government personnel or cargo is on board. Dispatchers will enter all aircraft release information into IROC.

National Flight Following Frequency (168.6500 MHz)

The National Flight Following Frequency is used to monitor interagency and contract aircraft. All aircraft on point-to-point or mission flights should establish/terminate flight following and confirm AFF on the National Flight Following frequency. All dispatch centers/offices will monitor the National Flight Following frequency at all times. A CTCSS tone of 110.9 must be placed on the transmitter and receiver of the National Flight Following frequency. The National Flight Following frequency is to be used for flight following, dispatch, or redirection of aircraft. No other use is authorized.

Automated Flight Following (AFF)

AFF is an online government application that automatically tracks the location and velocity of specially equipped aircraft and mobile assets and provides this information in near-real-time to dispatchers, aviation managers, and other authorized users. AFF reduces the requirement to "check-in" via radio every 15 minutes and provides the dispatcher with a wide range of information on the flight, airspace, and other data that may be pertinent to the flight. This reduces pilot workload, clears congested radio frequencies, and provides the dispatcher with much greater detail and accuracy on aircraft location and flight history.

Requirements to Utilize AFF

AFF does not reduce or eliminate the requirement for aircraft on mission flights to have FM radio capability, and for the aircraft to be monitoring appropriate radio frequencies during the flight. Dispatch office(s) responsible for flight following shall be staffed for the duration of the flight.

The following procedures apply when utilizing AFF:

- The dispatch office will verify the aircraft icon is visible on the screen and be able to quickly monitor the page at any time during the flight.
- The dispatch office will provide the pilot with FM frequencies and tones that will be monitored for the duration of the flight.
- Outside of the sterile cockpit environment, the pilot will contact the dispatch office via radio stating call sign, departure location, number on personnel on board, fuel on board, ETE, destination, confirmation of AFF location. This is required to positively verify that both the aircraft and the dispatch office are utilizing AFF, radios are operational, and that the dispatcher can "see" the aircraft on the computer screen. If there is a problem at this point, change to radio check-in procedures until the problem is resolved.
- If radio contact cannot be established the pilot will abort the mission and return to the airport/helibase.

- If there is a deviation from the planned flight route, the pilot will contact the dispatch office via radio with the changed information.
- The dispatch office will keep the AFF system running on a computer for the entire flight and will set a 15-minute timer and document the location for the duration of the flight.
- If the aircraft icon turns RED, it means the signal has been lost. Immediately attempt to contact the aircraft via radio and follow normal lost communication, missing aircraft, or downed aircraft procedures as appropriate. (During tactical operations below 500' a periodic red indication is normal and does not necessitate an 'immediate' contact especially if flight following has been established with the incident. This should be addressed during the pre-flight briefing.)
- If radio contact is made after a lost signal, the flight may continue utilizing radio check-ins for flight following.
- When the aircraft has completed the flight and landed, the pilot or flight manager (Flight Manager, ATGS, etc.) shall contact the dispatch office via radio or telephone informing they are on the ground.

Responsibilities of the Sending Unit:

- Obtain actual time of departure (ATD) and estimated time of arrival (ETA) from the initial departure airport from pilot/vendor.
- Relay the ATD, ETA, and method of flight following (Agency or FAA) to the Sending Unit's GACC.
- Notify the GACC of any route changes, and of any delay or advances of a flight plan exceeding thirty (30) minutes.
- Assist with search procedures for overdue aircraft. Utilize agency aircraft search/rescue guides, as appropriate.
- On any point-to-point flight crossing Geographic Area boundaries, instruct the Pilot-In-Command or Flight Manager to contact NICC Flight Tracking at each stop enroute. Aircraft support vehicles should contact NICC Flight Tracking at fuel stops.

NICC Flight Tracking: (800) 994-6312

Responsibilities of Sending GACC:

- Sending GACC will relay the Aircraft Flight Request/Schedule to NICC.
- Notify NICC of any route changes, delays, or advances of a flight plan exceeding thirty (30) minutes.
- Assist with search procedures for overdue aircraft.

Responsibilities of NICC:

- Relay Aircraft Flight Request/Schedule to the receiving GACC.
- Notify receiving GACC of any route changes, and of any delay or advances of a flight plan exceeding thirty (30) minutes.
- Resource track aircraft to specified destinations.
- Monitor flight plans for additional utilization.

Responsibilities of Receiving GACC:

- Relay Aircraft Flight Request/Schedule to the Receiving Unit.
- Notify Receiving Unit of known delays/advances of a flight plan exceeding thirty minutes.
- Confirm arrival of all aircraft to NICC.
- Notify NICC of any aircraft overdue by more than thirty minutes.
- Assist with search procedures for overdue aircraft.

Responsibilities of Receiving Unit:

- Confirm arrival of all aircraft to Receiving GACC.
- Notify Receiving GACC of any delays of a flight plan exceeding thirty minutes; notify receiving GACC of any aircraft overdue by more than thirty minutes.
- Initiate/assist with search procedures for overdue aircraft.

COOPERATOR AIRCRAFT

Refer to the *Interagency Standards for Fire and Fire Aviation Operations (NFES 2724)* for additional information regarding cooperator aircraft. Cooperator-contracted aircraft that also hold an existing federal contract, with federal aircraft and pilot cards, may be utilized on federally protected lands when cooperative agreements are in place and the aircraft have been approved by USDA Forest Service/DOI letter.

Cooperator-contracted, exclusive-use aircraft not on an existing federal contract may be considered for approval on a case-by-case basis when cooperative agreements are in place. Approval will be by USDA Forest Service/DOI letter.

Cooperators may utilize their owned or operated aircraft on federally managed fires when they have cooperative agreements in place and have received approval through an FS/DOI letter. Cooperators can use aircraft that meet the requirements in the *NWCG Standards for Interagency Cooperator Type 2 and Type 3 Helicopters, PMS 525-1*or other applicable NWCG standards on federally protected lands, provided they have cooperative agreements and FS/DOI approval.

All cooperator aircraft used on federally protected lands must be approved by FS/DOI letter. Utilization of approved, cooperator aircraft shall be limited based on 49 UNITED States Code §40125.

- All approved cooperator aircraft used on federally managed fires shall be released when federal aircraft become reasonably available.
- The use of cooperator aircraft must involve a "significant and imminent threat to life or property" documented daily on the *Cooperator Aircraft Use Validation Worksheet* to document the justification for aircraft utilization.

Non-Federally Approved Cooperator Aircraft

Cooperator-contracted, exclusive-use aircraft not on an existing federal contract may be considered for approval on a case-by- case basis when cooperative agreements are in place. The following conditions apply for non-federally approved aircraft:

- No federal employees are allowed to ride on board the aircraft.

- No federal employee may be assigned to a position that exercises contractual control.
- Federal personnel may load retardant at federal airtanker bases, regardless of jurisdiction.
- Federal personnel may provide aerial supervision (ATGS, ASM, HLCO, Leadplane) under existing standard operating procedures and agreements.
- The aircraft remains under State operational control regardless of the agency affiliation of the firefighters directing the aircraft on an incident with State jurisdiction.
- The aircraft are approved to interact with federal dispatch personnel as long as the aircraft remains under the operational control of the State or for safety reasons.

Under emergency circumstances, where human life is immediately at risk by wildland fire on lands under federal protection, a Federal Line Officer can approve the use of non-federally approved aircraft. Such approval should be documented utilizing the *Non-Federally Approved Cooperator Aircraft form*. This exemption must only take place when sufficient federal firefighting aircraft are not readily available to meet emergency needs. Federal line officers are encouraged to consult with agency aviation management personnel to aid in decision making.

Approving Federal Line Officer must document exemptions in accordance with agency guidance and submit *SAFECOM* within 24 hours.

HELICOPTERS

All Type 1 and Type 2 federally contracted helicopters are classified as National Resources. They fall into two categories:

- Standard: Government personnel/passenger and cargo hauling.
- Restricted: No government personnel/passenger or internal cargo transport, lift only.

For standard category helicopters, a module must be assigned. See *NWCG Standards for Helicopter Operations, PMS 510* for additional information.

For information on helicopter module staffing, reference the *Interagency Standards for Fire and Fire Aviation Operations (NFES 2724)*.

There are two contractual types of helicopters:

- Exclusive-Use (EU) Contract helicopters are mobilized with an assigned module.
- Call-When-Needed (CWN) helicopters require the requesting unit to provide a helicopter and/or module.

When processing helicopter requests, NICC will inform the requesting GACC about the assigned resource's contract type.

CWN HELICOPTERS

The following applies to all CWN Helicopters:

- The requesting unit must provide a helicopter manager name and contact information, documented in the "Special Needs" of the resource order, before NICC will assign the helicopter.

- Any federal restricted category helicopter may be filled with either a HMGB (Helicopter Manager) or HMLR (Helicopter Manager Limited Use/Restricted).
- Any Standard category helicopter shall only be filled by a HMGB. If the Standard category helicopter is put into "Limited Use" as outlined in the NWCG Standards for Helicopter Operations and notated in the resource order request under "Special Needs," a HMLR may fill the resource order as the manager.
- It is preferred that CWN Helicopter Managers and/or modules meet with their assigned helicopter off-site from the incident prior to performing work.
- The specific reporting location should be identified on the resource order, such as a Fixed Base Operator (FBO) or other easily located site.

FS CWN

All CWN Type 1, Type 2, and Type 3 FS Helicopters will initially be ordered through NICC. Please reference payload category information in the MATOC section below, for additional ordering directions.

GACCs will obtain approval from NICC prior to reassigning FS contracted CWN Type 1, Type 2, and Type 3 Helicopters to another incident. The incident or dispatch office will communicate any intent to fully demobilize and release a CWN helicopter from an incident to NICC, who will relay the information to the National Rotor-Wing Coordinator as soon as practicable. If the release is anticipated 24 hours or more in advance, notification will be made at that time.

DOI CWN

All DOI Agency Type 3 CWN Helicopters are ordered through normal ordering channels and are dispatched either locally, or through GACCs.

EXCLUSIVE-USE HELICOPTERS

The following applies to all EU helicopters:

- Exclusive-Use Contract Helicopters are dispatched locally by the Administrative Unit.
- When requested by NICC, National Resources will be dispatched by the dispatch center hosting the resource at the time of request.

FS EU Helicopters

All FS EU Type 1, 2 and 3 Helicopters are contracted by the FS Procurement and Property Services, Incident Procurement Operations (IPO ISB) located at NIFC. Forest Service EU helicopters will be transferred in IROC, to the host administrative unit, for the duration of their MAP. Any intent to release EU helicopters from a contract extension will be coordinated with the National Rotor-Wing Coordinator, no less than 24 hours prior to release. Only the Contracting Officer and COR have the authority to release any FS helicopter from contract.

For FS EU helicopters, the standard 14-day assignment applies to the crew, not the helicopter platform. Module leaders are expected to rotate their crew to maintain helicopter availability. When numerous internal rotations of staffing Exclusive-Use aircraft occur, consideration for aircraft exchange shall be given by aviation managers and coordinators. Requests for such an exchange shall be coordinated with all parties involved to include the aircraft manager, IMT or

hosting unit, GACC, NICC, Regional Helicopter Operations Specialist, and applicable National Rotor-Wing Coordinator. The ability to grant such requests during high fire activity or planning levels may be limited due to extenuating circumstances.

For additional direction, reference the *NWCG Standards for Helicopter Operations, PMS 510*

DOI EU Helicopters

All Exclusive-Use Contract Helicopters for DOI Agencies are solicited, inspected, and contracted by DOI AQD and OAS.

FS Type 1 and Type 2 Helicopters

NICC and the FS National Rotor-Wing Coordinator preposition and allocate all FS CWN and EU Type 1 and Type 2 helicopters, along with their modules (both helitack and rappellers), as National Resources in alignment with NMAC and agency prioritization and direction.

Periodically, FS Type 1 and Type 2 EU Helicopters not within their Mandatory Availability Period (MAP) are hired under their EU Contract for optional use periods for incidents or projects. A modification to the EU Contract is required for the duration of the assignment. If an FS EU Helicopter Manager is not immediately available, the requesting Geographic Area will assign a Helicopter Manager. The designated Helicopter Manager will manage the helicopter thereafter. The COR will be notified that the EU Helicopter is being dispatched. EU extension releases must be coordinated as stated, above, for all FS EU helicopters.

FS EU Helicopter utilization is closely monitored. In some cases, underutilized resources will be reallocated nationally, to higher priority incidents or Geographic Areas. When requested by NICC, GACCs will make these aircraft available. If a GACC has a need to backfill behind a Forest Service EU Helicopter, that GACC will show the need by placing a request to NICC. In no situation will a GACC remove a FS EU Helicopter from another Geographic Area, without coordinating with NICC and the FS Rotor-Wing Coordinator.

US Forest Service Type 3 Helicopters

All T3 CWN FS Helicopters will be initially ordered through NICC. Notification will be made to CWN Type 3 CORs, by the National Rotor-Wing Coordinators, at the time the orders are filled. Please reference payload category information in the MATOC section, below, for additional ordering directions.

***All FS CWN helicopters ordered on non-suppression program/project funds will require a FS-6500-224 (Commitment & Obligation Request Form), signed by a Regional/Forest/Local Budget Officer (or designee with budget authority), and uploaded in IROC, at the time the order is placed. The local ordering units should coordinate with their Unit Aviation Officer or Forest Aviation Officer for this information. *Please include an estimated number of days and hours of flight time in your request.**

FS Type 3 EU helicopters play a critical role in local, geographic and national response. Mandatory Availability Periods associated with the Exclusive-Use Type 3 fleet directly correlate with the hosting Forest's historical fire season and include time periods considerate of program stand-up and stand-down. As fire danger varies throughout any given year, Forests hosting FS suppression funded Type 3 EU helicopters should base resource availability off the National Fire Danger Rating System Adjective.

The following chart depicts the appropriate availability status correlating to an NFDRS adjective:

During a host forest's NFDRS rating of Low or de-escalating Moderate, Type 3 EU helicopters and modules are expected to be available nationally, upon request by NICC, unless already committed in their host GACC. An escalating Moderate, High, or above rating should constitute availability at the geographic/region or hosting forest level. Helicopters at or above moderate fire danger ratings may be made available nationally at the discretion of the GACC.

Hosting Forest NFDRS Adjective	Type 3 EU Availability Status
Extreme	Hosting Forest of geographic/regional level
Very High	Hosting Forest of geographic/regional level
High	Hosting Forest of geographic/regional level
*Escalating Moderate	Hosting Forest of geographic/regional level
**De-escalating Moderate	National
**Low	National

To request a forest EU or a like/kind backfill, place an order with the forest's NFDRS rating in the special needs of the request.

Resource needs shall be coordinated with all parties involved, including the aircraft manager, CIMT or receiving unit, GACC/MAC Group, NICC, Regional HOS/or other delegated regional aviation authority, and the National Rotor-Wing Coordinator. The aircraft's current day on assignment will be considered. Reference Forest Service EU direction, above, regarding length of assignment. The forest's NFDRS rating will be used in resource prioritization when filling the order. Depending on conditions, orders from forests with low to de-escalating moderate NFDRS ratings may be filled with a CWN resource.

DOI Type 1 Helicopter

The DOI Type 1 Helicopter's primary mission is initial attack. While most effective at providing rapid initial response, the crew is equipped to respond to extended attack incidents and critical missions on large fires.

To retain this helicopter and crew beyond initial attack for extended attack incidents, the incident must place a request with the GACC. Extended attack incidents that utilize the crew to fill critical positions should immediately order replacement personnel for those positions in case the aircraft and crew are reassigned.

Short-haul

Helicopters ordered specifically for short-haul capability, will be ordered as either "HE2S – Helicopter, Type 2 Standard" or "HE3S - Helicopter, Type 3 Standard" with the "Short-haul capability" feature in IROC. The capability should also be defined in the "Special Needs" block of the resource order as short-haul capable.

FS Short-Haul

The primary mission for FS Short-haul helicopters is initial attack. The program also maintains staffing for emergency medical response and can mobilize upon request during their contract availability periods.

MULTI-AWARD TASK ORDER CONTRACT (MATOC)

Helicopters

The following tables will assist the field with ordering CWN MATOC helicopters by payload category. All CWN FS helicopters are on MATOC contract and are ordered using the tables below.

- The initial CWN orders for these aircraft is placed to NICC and competed nationally.
- The payload categories are a combination of the helicopter type and allowable payload, at 7,000 feet and 30 degrees Celsius for Type 2 and Type 3 helicopters, and 8,000 feet and 25 degrees Celsius for Type 1 helicopters.
    - Example: 2.1200
        - The 2 is the helicopter type.
        - The 1200 is the allowable payload.
- All awarded model aircraft are represented on the following charts with either a payload category, or a low to high end payload category range.
- Please identify **one** payload category in special needs of the request. This is the lowest payload category that is technically acceptable for the request. **Do not specify make or model.**
- By specifying the lowest acceptable payload category in the special needs, it will include competition at that payload category and above. Example:
    - **The need is for Type 1 w/a bucket that can lift a minimum of 9,000 lbs. The order would be for a 1.9000 helicopter with a bucket. NICC will then compete all T1's with a bucket that lift 9,000 lbs. and above.**
- Include any other specification in the special needs of the request. For all modern aircraft, include an additional justification in the request, such as a specific Exhibit from the parent contract. For twin engine, specify "twin engine" in the request.
- For additional assistance with ordering, contact the Regional Helicopter Operations Specialist or National Rotor-Wing Coordinators.

Type 1 Restricted w/Bucket

Payload Category	Model	Payload Range
1.2100-1.3000	S-61N	LOW-HIGH
1.2100-1.7000	Various UH-60 Models	LOW-HIGH
1.3000	BV-107	NA
1.3000	K-1200	NA
1.3300	332L1	NA
1.5000	S-61A/SH-3H	NA
CMRB	NA	LOW-HIGH

1.7000-1.9000	CH-54A/	LOW-HIGH
S-64E	LOW-HIGH	LOW-HIGH

Type 1 Restricted w/ Tank

Payload Category	Model	Payload Range
1.2100	S-61N	N/A
1.2100 – 1.3300	332L1	Low - High
1.2100-1.5000	Various UH-60 Models	LOW-HIGH
1.3000-1.5000	S-61A/SH-3H CMRB	LOW-HIGH
1.5000-1.7000	CH-54A/S-64E	LOW-HIGH
1.9000-1.13000	CH-54B/S-64F	LOW-HIGH
1.9000-1.11000	BV-234/CH-47	LOW-HIGH

Type 2 Standard w/Bucket (*indicates models with twin engine capability)

Payload Category	Model	Payload Range
2.1200	*212	NA
2.1450-2.1700	205A1	LOW-HIGH
2.1700	*212 HP	NA
2.1850-2.2050	210	LOW-HIGH
2.1850-2.2050	205A1++	LOW-HIGH

Type 2 Restricted w/Bucket

Payload Category	Model	Payload Range
2.1450	UH1B	NA
2.1650	UH-1F	NA
2.2050-2.2650	UH-1H-17	LOW-HIGH

Type 2 Standard w/Tank

Payload Category	Model	Payload Range
2.900	205A1	NA
2.900	*212HP	NA
2.900-2.1450	205A1++	LOW-HIGH

Type 2 Restricted w/Tank

Payload Category	Model	Payload Range
2.1700-2.2650	UH-1H-17	Low - High

Type 2 Standard Modern Bucket/Tank

Payload Category	Model	Payload Range
2.1350+	*EC145 (Bucket)	N/A
2.1350+	*412EPX (Bucket)	N/A
2.900	*EC145 (Tanked)	N/A

Type 3 Standard w/Bucket (*indicates models with twin engine capability)

Payload Category	Model	Payload Range
3.270	AS350A/B2	NA
3.600-3.850	206L1	Low - High
3.600-3.850	206L3	Low - High
3.600-3.850	206L4	Low - High
3.700-3.800	*900/902	Low - High
3.950-3.1350	407A	Low - High
3.950-3.1350	407HP	Low - High
3.950-3.1350	AS350B3	Low - High
3.950-3.1350	AS350B3E	Low - High

Type 3 Standard w/Tank

Payload Category	Model	Payload Range
3.750-3.800	407A	Low - High
3.750-3.800	407HP	Low - High
3.750-3.800	AS350B3	Low - High
3.750-3.800	AS350B3E	Low - High

Type 3 Standard Modern

Payload Category	Model	Payload Range
3.650+	*429A	N/A

RAPPELLERS

The Forest Service National Helicopter Rappel Program's primary mission is initial attack. When rappellers are needed for initial attack with aircraft, they will be requested in IROC as "RPIA – Load, Rappeller, Initial Attack" on an Aircraft request. All initial attack orders will be honored, regardless of Geographic Area boundary, when rappellers are available.

NICC, in conjunction with the FS National Rotor Wing Coordinator, may determine situations when closest resource is not applicable. When existing border agreements exist between GACCs, IA loads may be placed forest to forest, if the resource is the closest available. Courtesy notification shall be made to the GACC(s) and NICC at the time the order is placed.

Refer to Chapter 20 for specific guidance on ordering helicopter module personnel and booster orders.

The sending unit will fill the request with a roster in IROC by ordering the aircraft with subordinates, with name and agency identification, through established ordering channels. This information can be acquired after the aircraft is airborne. Any intent to retain rappellers that were utilized on an IA load will be negotiated between the sending and receiving rappel base in concurrence with NICC and the GACCs.

GACCs prepositioning rappellers when multiple starts are predicted or occurring will specify the anticipated duration. If not deployed during this period, rappellers will be made available for higher priorities, unless a longer duration is negotiated between the sending and receiving rappel bases in concurrence with NICC and the GACCs.

Rappellers held as boosters after release from the first IA assignment will be placed on an Overhead order using individual "O" requests. Rappellers recovered and mobilized to another assignment, internally or across Geographic Area boundaries, will also be placed on an Overhead order.

Rappel crews may be utilized for large fire support, all-hazard incident operations, and resource management objectives. Rappel crews are equipped to respond to extended attack incidents and critical missions on large fires. Extended attack incidents that utilize rappel crews to fill critical positions should order replacement personnel for those positions in case the aircraft and crew are reassigned.

Helicopters ordered with rappel capability for preposition and/or large fire support, will be ordered as "HE2S – Helicopter, Type 2 Standard", with the "Rappel Capability" feature in IROC. The capability should also be defined in the "Special Needs" block of the resource order as rappel capable.

Rappeller Numbers

Planned staffing includes approximately 320 Rappellers at the following locations (actual fire season numbers may vary):

Great Basin	Boise, ID	15
	Price Valley, ID	30
	Salmon, ID	45
Northern Rockies	Gallatin, MT	17
	Libby, MT	16
	Coeur d'Alene	18
Northwest	Grants Pass, OR	21
	John Day, OR	28
	Prineville, OR	27
	La Grande, OR	38
	Wenatchee, WA	27
Northern California	Nevada City, CA	20
Southern California	Trimmer, CA	21

Rappeller Aircraft

Aircraft delivering Initial Attack Rappellers will return to the sending base or a designated location before the end of the pilot's daily flight or duty limitations. Any intent or necessity to retain the aircraft will be negotiated between NICC and the GACCs. If the aircraft is retained past the first operational period, it will be placed on an Aircraft request through established ordering channels.

SMOKEJUMPERS

Smokejumpers' primary mission is initial attack. All initial attack orders will be honored when smokejumpers are available. While most effective at providing rapid initial response,

smokejumpers are equipped to respond to extended attack incidents and short-term critical need missions on large fires. Smokejumpers are normally configured by planeload, with each load ranging from eight to ten smokejumpers depending on aircraft type and smokejumper availability.

When smokejumpers are needed jump-ready for initial attack, they will be requested in IROC as "SMIA - Load, Smokejumper, Initial Attack" on an Aircraft request.

Smokejumper initial attack aircraft may be launched within its current dispatch zone to new incidents after having been provided location, bearing, distance, and flight following frequency. All other pertinent information will be provided to aircrews while enroute.

Specifying the delivery system is not permitted. The sending unit will fill the request with a roster in IROC or by forwarding a manifest form, with names and agency identification, through established ordering channels. This information can be acquired after the smokejumper aircraft is airborne. Any intent to retain Smokejumpers which have not been utilized as an IA load will be negotiated between the sending and receiving smokejumper base in concurrence with NICC and the GACCs.

GACCs prepositioning smokejumpers when multiple starts are predicted or occurring will specify the anticipated duration. If not deployed during this period, smokejumpers will be made available for higher priorities, unless a longer duration is negotiated between the sending and receiving smokejumper bases in concurrence with NICC and the GACCs.

Smokejumpers held as boosters after release from the first IA assignment will be placed on an Overhead order using individual "O" requests. Smokejumpers recovered and mobilized to another assignment, internally or across Geographic Area boundaries, will also be placed on an Overhead order.

Smokejumpers may be configured as crews (hand crew, engine crew, or helitack crew) or as single resource overhead for Incident Command System positions. Units must obtain concurrence with NICC prior to configuring smokejumpers as crews or modules for extended attack operations.

Refer to Chapter 20 for specific information on ordering smokejumper boosters.

Smokejumper Numbers

Planned staffing includes 480 smokejumpers at the following locations (actual fire season numbers may vary):

DOI Alaska	(Fairbanks)	75
DOI Great Basin	(Boise)	75
FS Northern Rockies	(Missoula)	70
	(Grangeville)	30
	(West Yellowstone)	30
FS Great Basin	(McCall)	70
FS North Ops	(Redding)	50
FS Northwest	(N. Cascade)	30
	(Redmond)	50

Satellite bases may be activated based on fire activity.

Daily availability is updated throughout the fire season.

Smokejumper Aircraft

Aircraft delivering Initial Attack smokejumpers will return to the sending base or a designated airport before the end of the pilot's daily flight or duty limitations. Any intent or necessity to retain the aircraft will be negotiated between NICC and the GACCs. If the aircraft is retained past the first operational period, it will be placed on an Aircraft request through established ordering channels.

AERIAL SUPERVISION AIRCRAFT

Leadplanes, Exclusive-Use Air Tactical Aircraft, and Aerial Supervision Modules (ASMs) are National Resources. Areas administering these aircraft will make them available for wildland fire assignments when requested by NICC and approved by the parent agency. Requests for leadplanes may be filled with an ASM.

Aerial Supervision Module

An ASM is a fixed-wing platform that utilizes two (2) crew members to perform the functions of traditional air attack and low-level lead operations. The ASM requires both crew members to be trained to work as a team, utilizing Crew Resource Management (CRM) skills and techniques to enhance safety, efficiency, and effectiveness.

Leadplane

A Leadplane is a fixed-wing platform that provides low-level lead operations for airtankers. Lead planes are required for non-IA rated airtankers, such as VLATs and MAFFS. Leadplanes may also be requested for congested airspace situations, by any airtanker pilot, or to determine adequate visibility for airtanker operations on an incident. Leadplanes are limited and specialized resources, therefore missions may need to be prioritized for non-IA rated airtanker missions.

Contact the USFS National Fixed-Wing Coordinator, or appropriate program manager, for any leadplane needs or planning purposes.

Air Tactical Aircraft

Air Tactical Aircraft are on Exclusive-Use Contracts and/or Call-When-Needed (CWN) Agreements. They are available for interagency use and will be requested through established ordering channels. Federal agencies have developed Air Tactical specific contracts and agreements that add performance capabilities and radio configurations specific to the role of aerial supervision.

To ensure consistent utilization, rotation, and management of the Exclusive-Use Air Tactical Aircraft fleet, refer to the *Interagency Standards for Fire and Fire Aviation Operations (NFES 2724).*

UNMANNED AIRCRAFT SYSTEMS (UAS)

Incident UAS missions may be conducted on a small scale by agency owned UAS and agency crew or on a larger scale by vendor owned and operated UAS with agency support.

There are three federal UAS ordering scenarios:

- Agency UAS for situational awareness (SA)/ Infrared (IR)/mapping.

- Agency UAS for aerial ignition (also capable for SA/IR/mapping).
- CWN contract UAS for large fire.

An on-call UAS Coordinator is available to answer questions regarding UAS capabilities and help determine the type of UAS (1-4) and associated overhead (UASP, UASD, UASM, or UASL) to order. UAS personnel are in high demand. Order trainees when approved/possible.

Cooperators wishing to fly UAS on federally managed incidents must have a Cooperator letter issued by the DOI or FS.

UAS Coordinator: (208) 387-5335

AIRTANKERS

Airtankers are National Resources and their primary mission is initial attack. NICC will prioritize and allocate federal airtankers by positioning them in areas of current or predicted high wildland fire danger or activity.

Geographic Areas that manage these aircraft will make them available for wildland fire assignments when requested by NICC. GACCs will staff and maintain all required support functions—such as Airtanker Bases, GACCs, and local dispatch centers—to support the mobilization of national resources. The following criteria apply to all airtankers:

- Airtankers should be dispatched by closest resource, regardless of Geographic Area boundaries.
- When a Geographic Area has depleted available VLAT or Large Airtanker (Type 1 or 2) resources, or the closest available resource is outside of the GACC, request(s) will be placed to NICC.
- All airtanker movement, regardless of existing border agreements, will be communicated to NICC.

There are five types of airtankers based on payload capacity:

- VLAT = 6,000 gallons or more
- Type 1 = 3,000 to 5,999 gallons
- Type 2 = 1,800 to 2,999 gallons
- Type 3 = 800 to 1,799 gallons
- Type 4 = Up to 799 gallons

To ensure consistent utilization, rotation, and management of the national airtanker fleet, refer to the following publications:

- *Interagency Standards for Fire and Fire Aviation Operations (NFES 2724)*
- *Forest Service Standards for Airtanker Operations*

Airtanker Use in Optional and Post Season Periods

Post Season and Optional Use airtanker activations are processed by the Contracting Officer (CO), via a signed modification. The following process is used to activate airtankers during Post Season and Optional Use periods:

- The requesting GACC will place request(s) for airtankers with NICC.
- NICC will notify the National Fixed-Wing Coordinator (NFWC) or designated representative of the request(s).
- The NFWC or designated representative will notify the National Airtanker Program Manager (NAPM), or designated representative, who will determine the availability of airtankers. Airtanker/vendor selection will be communicated back to NICC. NICC will notify the GACC of the airtanker activation.
- NICC will request the airtanker from the appropriate vendor once approved by the CO.

MODULAR AIRBORNE FIREFIGHTING SYSTEMS (MAFFS)

MAFFS provide surge capability to supplement commercial airtankers on wildland fires. MAFFS are National Resources and are used as a reinforcement measure when contract airtankers are committed or not readily available. MAFFS will be made available to assist foreign governments upon request through the Department of State or other diplomatic Memorandum of Understanding (MOU). GACCs must ascertain that all suitable commercial airtankers are assigned to wildland fires or committed to initial attack before placing a request for a MAFFS Mission to NIFC.

US Forest Service and NICC Responsibility (for MAFFS)

NICC is responsible for ascertaining nationally that all suitable commercial contract airtankers are committed to wildland fires, initial attack, or cannot meet timeframes of requesting units. When this occurs, NICC will notify the FS Assistant Director for Operations, NIFC. Once approval is given, NICC activates the request through proper Department of War (DOW) channels. After the initial contact has been made, NICC will submit a Request for Assistance (RFA) to the DOW Liaison at NIFC.

The Governors of California, Nevada, and Wyoming may activate their respective Air National Guard Units that have MAFFS equipment and qualified crews for State-controlled fires. Approval of the use of MAFFS equipment must be obtained from the FS Assistant Director for Operations prior to this activation. When MAFFS are activated by a governor, the FS Regional Office for that State will assign an accounting code for the incident.

MAFFS Ordering Criteria

Domestic requests for MAFFS will be placed through established ordering channels to NICC. NICC will place an RFA to the Region X Defense Coordinating Officer (DCO).

The requesting Geographic Area will order the following support for MAFFS Activation:

- One each MAFFS Liaison Officer (MLO aka MAFF) and one each MAFF trainee.
- One each Airbase Radio Kit (NFES 4660).
- One each MAFFS Communications Specialist (THSP).
- One each MAFFS Airtanker Base Manager (MABM) and one each MABM trainee.
- Ramp, Logistics, Finance, and Information personnel.

MAFFS Operations must also include a MAFFS qualified Leadplane.

For MAFFS activations, the Receiving Unit must be prepared to provide administrative support (procurement, motel rooms, phones, office space, clerical and timekeeping support, transportation) to accommodate as many as twenty-six people per two (2) aircraft.

For additional information, see the *MAFFS Operating Plan*.

WATER SCOOPERS

Water scoopers are National Resources, and their primary mission is initial attack operations. NICC will prioritize and allocate federal water scoopers by positioning them in areas where they can be tactically effective and where current or predicted high wildland fire danger or activity is occurring. Geographic Areas managing these aircraft will make them available for wildland fire assignments when ordered by NICC.

Water Scoopers will be ordered as a "ATM3 - Airtanker, Type 3 (Multi-Engine)" with Water Scooper capability feature in IROC. The capability should also be defined in the "Special Needs" block of the resource order as scooper capability.

SINGLE ENGINE AIRTANKERS (SEATS) AND WATER SCOOPERS

Single Engine Airtankers and Single Engine Water Scoopers managers must remain on-site with the assigned resource at all times unless repositioning, mobilizing, or demobilizing.

Federal and/or State contracted SEATs are managed under an Exclusive-Use, On-Call, or CWN contract. The National SEAT Coordinator maintains a list of DOI Nationally funded SEATs and can provide information upon request. The national SEAT contract module includes the option for a support vehicle with batch mixing capability for wet and dry retardant. SEATs are available for Interagency use and will be requested through established ordering channels. A SEAT can be managed by an on-site SEMG or an ATBM.

Single Engine Water Scoopers may only be managed remotely for 24 hours to allow time for assigned SEMG/ATBM to relocate to the aircraft's operating location. Requests for a DOI On-Call SEAT or Single Engine Water Scooper must have a SEMG or ATBM identified with contact information, and the airbase/airport reporting location documented in the "Special Needs" block before NICC assigns a SEAT.

Orders for SEATs placed to NICC are coordinated with the National SEAT Coordinator. Local Units or GACCs hiring or releasing SEATs will notify the National SEAT Coordinator regardless of jurisdiction. Consistent with the DOI authorization (see the DOI National Aviation Plan), DOI Nationally funded SEATs will be managed as DOI National shared resources. As National assets, these SEATs can and will be moved to areas of greatest need. Geographic Areas and Fire Staff on an Interagency basis will provide direction to the dispatch system on the mobilization and demobilization of SEATs to meet existing or forecasted fire loads within their jurisdiction.

DOI Nationally funded SEATs will have their IROC status set as available nationally. When assigned to an incident, DOI Nationally funded SEATs will be released back to the GACC/Hosting unit at the end of each shift and shown as available "National" in IROC. Mobilization for incident response will occur via resource order; however, once a decision to reallocate a DOI Nationally funded SEAT to another GACC is made, the receiving GACC will place a request for the mobilization, and the resource item will be transferred after mobilization is complete.

Nationally, when competition for SEATs exists, NMAC will provide SEAT allocation direction to NICC based on intelligence developed by the National SEAT Coordinator. The National SEAT Coordinator position is responsible for coordinating the allocation and reallocation of SEATs Nationwide and maintaining current status, location, and utilization of federal and State contracted SEATs nationally.

National SEAT Coordinator: (208) 387-5419 *blm_fc_seat@blm.gov*

For additional SEAT and Single Engine Water Scooper information, see the following publications:

- *NWCG Standards for Airtanker Base Operations (SABO), PMS 508*
- *Interagency Standards for Fire and Fire Aviation Operations (NFES 2724)*

MOBILE RETARDANT BASES (MRBS)

Mobile Retardant Bases can be ordered to service Very Large Airtankers, Large Airtankers, helicopters and SEATS. Orders should be placed through normal dispatch channels to NICC.

Units should identify physical location and any limiting factors affecting access to the area of planned use. Use the "Special Needs" block to identify type of aircraft utilizing the service:

- Helicopter
- SEAT
- LAT
- VLAT

INCIDENT AWARENESS & ASSESSMENT (IAA)

IAA utilizes aerial, satellite-based assets, and ground-based cameras to collect and disseminate incident data and products to resources in near-real time.

To request IAA support, visit the *IAA Hub*.

IAA requestors must have a NIFC AGOL account to submit requests in the IAA Hub. Follow the instructions on the IAA Hub to request a new NIFC AGOL account. For additional information refer to the IAA User Guide and/or the Fire Imaging Program Guide linked on the IAA Hub. For additional support email *iaa.support@firenet.gov*

IAA is available to provide support to wildland fire operations to three mission areas.

Large Fire Perimeter Mapping

This mission is historically known as National Infrared Operations (NIROPS) and is flown at night. It consists of agency owned aircraft, contracted aircraft, and Aircraft 3. NIROPS aircraft are National Resources. The National IR Coordinator will coordinate all Infrared Interpreters (IRIN).

Ordering Process: Visit the IAA Hub and select Request Support. NIROPS requests require the submission of both an IROC order A# Service, Infrared Night SIRN and a pending request placed in the IAA Hub no later than 1530 Mountain Time.

Product deliverables: A shapefile, KMZ, and PDF map(s) are posted to the incident specific folder in the NIFC File Transfer Protocol (FTP) site. The requestor(s) will receive the IRIN log and notes within the mission closeout email once products have posted.

Aircraft 3 is a Department of Defense asset that is available to provide perimeter mapping support for incidents that may be out of range for fixed-wing aircraft. Products are derived from multiple sources and closely resemble products from the other fixed-wing platforms. Analysis is performed jointly between the National Geospatial Agency (NGA) and the United States Geographic Survey Civil Applications Center (CAC). This asset typically requires 24-48 hours of initial lead time for new incidents.

New Heat Detection/Lightning Reconnaissance

Ordering Process: Visit the *IAA Hub* and select Request Support.

Product deliverables: A size-up is reported to the responsible dispatch center. This may include an email to the center's Firenet account and phone/radio communications/confirmation. Imagery, videos, and perimeter information will be posted to EGP/Wildfire SA. All new detections found nationally can be viewed under New Detections on the top menu of the IAA Hub.

Operational Support

This includes GIS perimeters, narrated/unnarrated videos, imagery overlay, and isolated heat identification.

Ordering Process: Go to the *IAA Hub* and select Request Support.

Product deliverables: All products are posted in NIFC EGP within the Airborne Intel Tool. The requestor will receive a close out email once products have posted.

LARGE TRANSPORTATION AIRCRAFT

NICC is the sole source for large transport aircraft holding 14 CFR PART 121 Certificates. Large transport aircraft are National Resources and will be requested through NICC. Large transport aircraft arranged by NICC are requested on a per mission basis. The NICC Aircraft Desk will relay Flight Following ATD/ETE for each flight leg. When requesting a large transport aircraft, the following information is required:

- Number of passengers and/or cargo weight per destination and combined total weight for the flight. Pick-up point at jetport and time passengers and/or cargo are available to load.
- NICC requires 48-hour lead time to plan and schedule aircraft for demobilization flights.
- Pick-up point at the jetport is the Fixed Base Operator (FBO) or gate at the airport terminal where the aircraft will park.
- Passengers must be weighed and manifested prior to boarding the aircraft.
- Government or contractor support available at each airport, including contact name and telephone number.
- All personnel listed on the manifest and flight crew members should be provided at least one sack lunch.
- **Note:** Lithium Batteries are not permitted and cannot be transported in the cargo hold on NICC large transport aircraft.

FREQUENCIES

All documents containing USDA Forest Service (FS) and/or Department of Interior (DOI) frequencies must have the following statement on the top and bottom of each page containing frequencies, "CONTROLLED UNCLASSIFIED INFORMATION//BASIC." This requirement is in accordance with direction from the Washington Office Frequency Managers for both Departments.

FM, VHF, and UHF Frequencies

NIICD issues dedicated FM frequencies in conjunction with communication equipment assigned to incidents. NIICD will order additional FM frequencies from DOI and FS, Washington Office, as conditions warrant. To ensure proper frequency coordination, the ordering office must include the Latitude and Longitude of the incident on the resource order.

AM Frequencies

The NIICD Communications Duty Officer (CDO) will assign initial attack AM air-to-air frequencies after annual coordination with the FAA. All available AM assignments will be published at the beginning of the fire season and will be available for use by dispatch zones.

When the tertiary assignment (if applicable) is used, units will notify the NIICD CDO by phone or email. VHF AM assignments are used for air-to-air communications and are authorized only within the zone to which they are assigned. IA frequency assignments are not to be used on project fires. To utilize the initial attack AM assignments to their fullest capabilities they should only be used on TFRs for the initial burning period, after that a dedicated AM frequency should be ordered from the CDO through IROC.

FM Air-to-Ground Frequencies

The NIICD CDO will facilitate and coordinate FM air-to-ground frequencies in cooperation with agency frequency managers with the intent to create permanent assignments. Both AM and FM assignments will be used on an interagency basis and the NIICD CDO maintains master records of the assignments. Updated frequency information for initial attack air-to-air, and air-to-ground is coordinated annually with the GACCs.

Requests for the use of dedicated Air-to-Air and Air-to-Ground frequencies will be made through established ordering channels from the incident host GACC, directly to the NIICD, followed by a call placed to the CDO. The CDO coordinates all FS and DOI frequencies as well as any additional frequencies released by other agencies for wildland fire support. Frequencies are ordered on an Frequency "F" request.

AIRSPACE

Temporary Flight Restrictions (TFR) FAR 91.137

Temporary Flight Restrictions (TFRs) regulate the National Airspace System (NAS). The Geographic Area Coordination Center or an assigned Airspace Coordinator (ASCO) will originate TFRs. TFRs are not an administrative function of a local dispatch center.

Temporary airspace restrictions will be established when incident related aviation activities present potential conflict with other aviation activities. The Federal Aviation Administration (FAA) requires that latitude/longitude information for TFRs and must be provide in degrees, minutes, seconds, including reference to north latitude and west longitude. If seconds' information is not

available, add two zeroes to the description. Do not use spaces, commas, or other symbols in the description. Example: ddmmssN/dddmmssW or 450700N/1175030W. The corner points should be listed in a clockwise sequence around the requested TFR to avoid "bow tie" depictions.

For further information on how flight restrictions are requested and implemented, please reference the *NWCG Standards for Airspace Coordination, PMS520*.

Participating Aircraft

Internal procedures for requestors to participate in the hazard relief effort and work within incident TFRs will be coordinated to ensure the utmost safety. Please reference the *NWCG Standards for Airspace Coordination, PMS520* for standard procedures for Participating Aircraft.

Military Training Routes and Special Use Airspace

Military Training Routes (MTR) and Special Use Airspace (SUA) that present conflicts with incident related aviation activities will be identified by local units. One source for this information is the *AP/1B, Flight Information Publication, Military Training Routes.* Each dispatch office should download a current edition of the AP/1B. Special Use Airspace may be found on Sectional Aeronautical Charts. Critical Airspace information pertinent to flight operations should be organized for easy and rapid utilization (i.e., displayed on local unit aviation hazard maps).

Further direction may be obtained in the *NWCG Standards for Airspace Coordination, PMS520.*

Airspace Conflicts

Aviation personnel are responsible for reporting airspace conflicts and incidents through the *Interagency SAFECOM (Safety Communication) System* to assist in the resolution of airspace conflicts. Aviation personnel should notify the FAA in a timely manner. When a conflict or incident occurs, it may indicate a significant aviation safety hazard. Conflicts may include Near Mid Air Collisions, TFR intrusions, and Fire Traffic Area (FTA) communication non-compliance. Further guidance is available in the *NWCG Standards for Airspace Coordination, PMS520.*

To report an Aircraft Conflict, use the *Aircraft Conflict Initial Report Form*.

FAA Temporary Control Tower Operations

Geographic Areas within the FAA's Western Service Area (which includes the following states: AK, AZ, CA, CO, HI, ID, MT, NV, OR, UT, WA and WY) may request FAA Air Traffic Control support through the Western Service Area Agreement when air operations in support of an incident becomes complex or unsafe at uncontrolled airports or helibases.

Geographic Areas within the FAA's Central Service Area (which includes, either entirely or portions of the following states: AR, AZ, IL, IN, KS, KY, LA, MD, MI, MN, MO, MS, ND, NM, NY, OH, OK, PA, SD, TX, WI, WY) may request FAA Air Traffic Control support through the Central Service Area Agreement when air operations in support of an incident becomes complex or unsafe at uncontrolled airports or helibases.

FAA Temporary Control Towers are ordered on an Aircraft Order. A lead time of 48 hours is desirable when ordering. Ordering procedures are outlined within the current agreement. The GACCs do not need to forward the request to NICC.

The Interagency agreement with the FAA requires that a resource order and a Temporary Tower Request form be forwarded to the FAA. The GACC may forward the forms when making the

request to the FAA's Regional Operations Center (ROC). For additional information on requesting a temporary tower, reference the checklist found in the *NWCG Standards for Airspace Coordination, PMS520.*

When procuring a Temporary Tower with an EERA for Forest Service incidents, The Buying Team or a purchaser will need to begin with the At Incident Management Support (AIMS) process to set up an EERA with a contractor to provide Temporary Tower Services. All other agencies will need to follow their local procurement process.

NOTE: The contractor will need to have a Letter of Agreement (LOA) and the Controllers need to be certified for the specific location. The FAA will send a certifier to the location where the Temporary Tower Services are being requested once the contracted Mobile Temporary Control Tower is in place.

The contractor cannot provide services until the LOA is in place and the Controllers have been certified by the FAA. If the EERA route is utilized, notify the National Airspace Coordinator. Follow your local and Geographic Area protocols.

Airspace Coordination

The National Airspace Coordinator will coordinate Airspace Coordinator (ASCO) assignments to support regional and geographical airspace coordination. All assigned Airspace Coordinators will actively participate in the Airspace Coordination meeting at National Preparedness Level 3, and above, Monday – Friday.