Initial Attack and Aircraft Dispatcher Job Aid
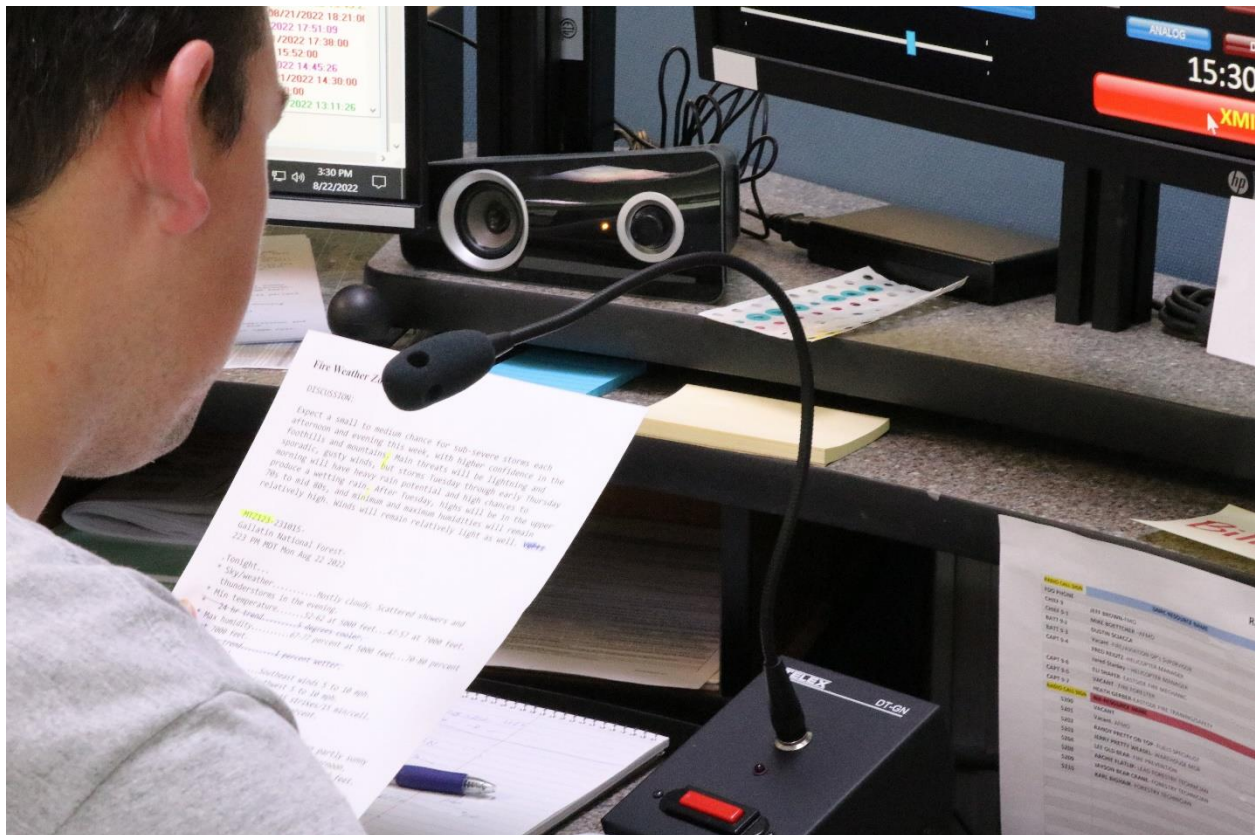
Initial Attack and Aircraft Dispatcher Job Aid

This reference guide provides decision charts, checklists, direction, and point of contact to assist personnel in performing the responsibilities of the Initial Attack Dispatcher (IADP) and Aircraft Dispatcher (ADCP).

Refer to the NWCG Incident Position Standards for position-specific responsibilities.

- *NWCG Incident Position Standards for Initial Attack Dispatcher*, PMS 350-60, https://www.nwcg.gov/publications/pms350-60
- *NWCG Incident Position Standards for Aircraft Dispatcher*, PMS 350-67, https://www.nwcg.gov/publications/pms350-67

This reference guide is designed for personnel who need a quick reference for outlining nonroutine procedures or who are not assigned in the IADP and ADCP roles in their day-to-day jobs. Use it for assistance with order type determination, processing requirements and procedures, dispatch routing channels, follow-up, and closeout orders.

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Initial Attack (IA)

Phonetic Alphabet and Numbers

Phonetic Alphabet		
Letter	**Phonetic Word**	**Pronunciation**
A	Alpha	al-fah
B	Bravo	brah-voh
C	Charlie	char-lee
D	Delta	dell-tuh
E	Echo	eck-oh
F	Foxtrot	foks-trot
G	Golf	golf
H	Hotel	ho-tell
I	India	in-dee-uh
J	Juliet	joo-lee-et
K	Kilo	kee-loh
L	Lima	lee-muh
M	Mike	myk
N	November	noh-vim-ber
O	Oscar	os-ker
P	Papa	pah-Pah
Q	Quebec	kee-bek
R	Romeo	roh-mee-oh
S	Sierra	see-air-uh

Phonetic Alphabet		
Letter	**Phonetic Word**	**Pronunciation**
T	Tango	tang-oh
U	Uniform	yoo-nee-form
V	Victor	vik-ter
W	Whiskey	wiss-kee
X	X-Ray	ecks-ray
Y	Yankee	yayn-kee
Z	Zulu	zoo-loo

Phonetic Numbers		
Number	**Phonetic Word**	**Pronunciation**
1	One	wun
2	Two	too
3	Three	tree
4	Four	fow-er
5	Five	fife
6	Six	six
7	Seven	sev-en
8	Eight	ait
9	Nine	nin-er
0	Zero	zee-ro

WildCAD-E Resources

WildCAD-E Resources	
Resource	**Link**
WildCAD-E Release Notes/Change Log	https://www.wildfire.gov/page/wildcad-e-release-noteschange-log
WildCAD-E Training	https://www.wildfire.gov/page/wildcad-e-training
WildCAD-E User Guides	https://www.wildfire.gov/page/wildcad-e-user-guides

WildCAD-E U.S. Forest Service (USFS) and Non-USFS Prefixes and Override Codes

The override code is specific to the region and forest where the incident originated. The following charts list the USFS and non-USFS prefixes and override codes. **Note:** Override codes for U.S. Department of the Interior (DOI) agencies will have a different format.

U.S. Forest Service (USFS) Prefixes		
Prefix	**Region**	**Override Code (last four digits of charge code)** (**Note:** The last two digits of the override code are the forest number within the USFS region.)
P1	Northern	Starts with 01
P2	Rocky Mountain	Starts with 02
P3	Southwestern	Starts with 03
P4	Intermountain	Starts with 04
P5	Pacific Southwest	Starts with 05
P6	Pacific Northwest	Starts with 06
P8	Southern	Starts with 08
P9	Eastern	Starts with 09
P10	Alaska	Starts with 10

Example: The charge code for a wildfire in the Coconino National Forest in the Southwestern Region could look like this: P3 E3FK 0304.

Non-U.S. Forest Service (USFS) Prefixes		
Prefix	**Organization**	**Override Code (last four digits of charge code)**
PA	Bureau of Indian Affairs (BIA)	1522
PD	Bureau of Land Management (BLM)	1522
PN	State	1522
PP	National Park Service (NPS)	1522
PR	U.S. Fish and Wildlife Service (USFWS)	1522
PX	County	1522

Aviation

Aerial Supervision Requirements

Aerial Supervision Requirements			
Situation	**Helicopter Coordinator (HLCO)**	**Aerial Supervision Module (ASM)/Leadplane Pilot (LPIL)**	**Air Tactical Group Supervisor (ATGS)/ASM**
Three or more manned aircraft over an incident **or** when mixed type and kind of aircraft are over the incident working at the same time.	Ordered if no ATGS and only helicopters	Ordered if no ATGS and only fixed-wing	Ordered
Manned **and** unmanned aircraft are operating within the same working area/area of operation. **Note:** If only an unmanned aircraft system (UAS), no aerial supervision is required.	Ordered if no ATGS and only helicopters	Ordered if no ATGS and only fixed-wing	Ordered
Fixed-wing low-level operations in low light conditions.	N/A	Required if no ATGS	Required if no ASM/LPIL
Airtanker not IA-rated. Modular Airborne Firefighting System (MAFFS). Very Large Airtanker (VLAT).	N/A	Required	N/A
Multi-engine amphibious water scooping aircraft **not** IA-carded.	N/A	Required if no ATGS	Required if no ASM/LPIL

Aerial Supervision Requirements			
Situation	**Helicopter Coordinator (HLCO)**	**Aerial Supervision Module (ASM)/Leadplane Pilot (LPIL)**	**Air Tactical Group Supervisor (ATGS)/ASM**
Level 2 Single Engine Airtanker (SEAT)/single engine scooper operating on an incident with more than one other tactical aircraft on scene.	N/A	Required if no ATGS	Required if no ASM/LPIL
Foreign government aircraft.	N/A	Required if no ATGS	Required if no ASM/LPIL
Congested area flight operations.	Ordered	Ordered	Required
Periods of marginal weather, poor visibility, or turbulence.	Required if no ATGS/ASM/LPIL	Required	Required
Active duty (non-National Guard) military helicopter operations.	Ordered	N/A	Required if no HLCO
When requested by airtanker, helicopters, ATGS, LPIL, or ASM.	Required	Required	Required

Aircraft Make and Model Reference Information

Very Large Airtankers (VLATs)					
Make/Model	**Crew**	**Cruise Speed** (knots)	**Contract Operating Weight** (pounds)	**Tank Capacity** (gallons)	**Drop Speed** (knots)
DC-10-30	3	380	390,000-420,000	9,400	150
Global Supertanker 747-400	3	>10,000 ft above sea level (ASL)/500 <10,000 ft ASL/ 250	650,000	18,600	145–155

Large Airtankers (LATs)						
Type	**Make/ Model**	**Length** (feet)	**Wingspan** (feet)	**Cruise Speed** (knots)	**Contract Operating Weight** (pounds)	**Retardant Load** (gallons)
Type 1	BAe-146-200	94	87	310	116,000	3,300
Type 1	C-130 MAFFS	99	133	239	108,537	3,000
Type 1	DC-7	112	128	226	102,250	3,000
Type 1	MD-87	130	108	450	140,000	3,000
Type 1	P-3A	116	99	255	95,100	3,000
Type 1	RJ85	94	87	380	97,000	3,000
Type 2	CV-580	82	105	270	58,500	2,100
Type 2	DC-4	93	118	191	63,000	2,000
Type 2	DC-6	111	118	208	86,200	2,400
Type 2	Q400MR	108	93	370	67,200	2,642
Type 2	SP-2H	95	98	191	60,000	2,000

Single Engine Airtankers (SEATs)							
Type	Make/ Model	Length (feet)	Wingspan (feet)	Cruise Speed (knots)	Contract Operating Weight (pounds)	Retardant Load (gallons)	Drop Speed (knots)
Type 3	AT-802	37	59	175	16,000	800	105
Type 3	AT-802F	36	59	175	16,000	820	105

Water Scoopers				
Type	Make/Model	Cruise Speed (knots)	Water Load (gallons)	Fuel Cycle (hours)
Multi-engine	CL-215T	170	1,412	4
Multi-engine	CL-415	170	1,621	4

Source: *NWCG Standards for Wildland Fire Resource Typing*, PMS 200

Cost Comparison Formulas

Cost Comparison Formulas		
Cost	**Formula**	**Example**
Flight time	Distance/aircraft airspeed = flight time	• Distance: 250 statute miles • Aircraft airspeed: 104 mph 250 miles/104 mph = 2.4 hours of flight time
Flight costs	Flight rate * number of flight hours = flight costs	• Flight rate: $400/hour • Flight hours: 2 $400/hour * 2 hours = $800 in flight costs
Standby costs	Standby rate * number of standby hours = standby costs	• Standby rate: $50/hour • Standby hours: 2 $50/hour * 2 hours = $100 in standby costs
Per diem costs	Per diem rate * number of days * number of individuals = per diem costs	• Per diem rate: $50/day • Number of days: 2 • Number of individuals: 2 $50/day * 2 days * 2 individuals = $200 in per diem costs
Fuel truck costs	Fuel mileage rate * number of miles = fuel truck costs **Note:** Mileage rate based on size of fuel truck (gallons)	• Mileage rate: $0.10/mile • Number of miles: 100 $0.10/mile * 100 miles = $10 in fuel truck costs
Commercial airfare costs	Airfare * number of passengers = commercial airfare costs	• Airfare: $300 (round trip) • Passengers: 6 $300 * 6 passengers = $1,800 in commercial airfare costs
Lost work time costs	Number of lost work hours * individual hourly wage = lost work time costs	• Number of lost work time hours: 10 • Hourly wage: $20/hour 10 hours * $20/hour = $200 in lost work time costs

Cost Comparison Formulas		
Cost	**Formula**	**Example**
Transportation costs	Rental daily cost * number of days = transportation costs	• Rental car: $50/day • Number of days: 3 $50/day * 3 days = $150 in transportation costs
Specialized equipment costs	Equipment rate * number of days = equipment costs	• Seeder: $700/day • Number of days: 3 $700/day * 3 days = $2,100 in specialized equipment costs
Federal Excise Tax (FET) costs	10% FET * total flight costs (flight & standby costs) = FET costs	• Total flight costs: $700 0.10 * $700 = $70 in FET costs

Helicopter Ordering Sequence

If a helicopter is requested…	
And it is for…	**Then route the order to…**
Type I (operating locally under a timber sale contract)	Geographic Area Coordination Center (GACC) for documentation. Dispatch locally but use only for IA on incidents within or adjacent to sale. Coordinate with sale Contracting Officer (CO) and incident resources.
Type I call-when-needed (CWN)	GACC to place the order with the National Interagency Coordination Center (NICC). Must have the Helicopter Manager, Single Resource's (HMGB's) name and travel information.
Type II CWN	GACC to place the order with the NICC. Must have the HMGB's name and travel information.
Type II (exclusive use [EU] or agency owned)	Helibase if available on unit; otherwise, GACC.
Type III (EU or agency owned)	Helibase if available on unit; otherwise, GACC.
Type III CWN – fire use	Directly to the vendor if the helicopter's home base is located within or adjacent to the ordering unit **or** GACC if the helicopter's home base is NOT located within or adjacent to the ordering unit.

Note: For information on the Multiple Award Task Order Contract (MATOC) ordering process, contact your GACC.

Processing Aviation-Related Orders

This decision chart identifies the form used to process each type of mission request, as well as the types of resources that could be ordered to support a particular mission.
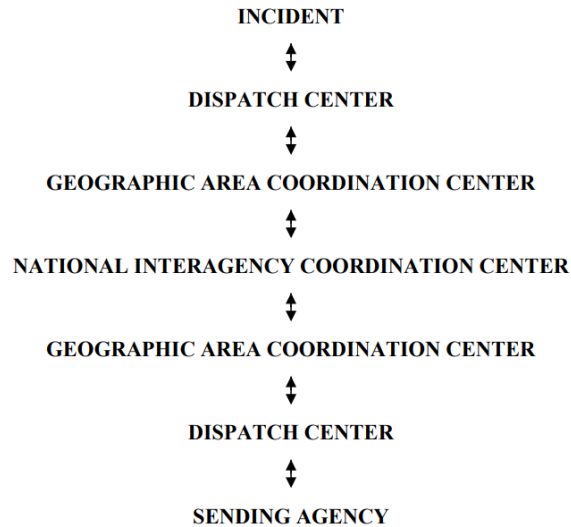
If the mission request is ADMINISTRATIVE, process the order on an…
Aircraft Flight Request/Flight Schedule form

If the mission request is TACTICAL, process the order on a/an…

Aircraft Resource Order

- Aerial ignition (EU or CWN)
- Air attack
- Airtanker
- Emergency aircraft radio frequencies
- Helicopter (EU)
- Infrared (IR)
- Leadplane (LP)
- Light fixed-wing
- SEAT (EU or CWN)
- Temporary tower
- Temporary Flight Restrictions (TFRs)
- UAS

Overhead Resource Order

- Aerial ignition (CWN) for manager, module, or Plastic Sphere Dispenser (PSD) operator
- Helicopter (CWN) for manager and crew members
- SEAT (CWN) for manager
- Smokejumper

Supply/Equipment Resource Order

- Aerial ignition (CWN) for helitorch, PSD, spheres, or fuel
- Air attack radio kit
- SEAT (CWN) for retardant and water tender

If the mission request is LOGISTICAL, process the order on an…

Aircraft Resource Order

- Helicopter
- Light fixed-wing
- UAS

Required Cost Comparison Information

Required Cost Comparison Information			
Required Information	**Special Use/Mission**	**Logistical**	**Administrative**
General	• Mission requirements will filter out the appropriate aircraft. • Estimate of the number of project days and flight hours.	• Mission requirements will filter out the appropriate aircraft. • Number of passengers to be transported. • Flight route or destinations.	• Number of passengers to be transported • General Schedule (GS) and Senior Executive Service (SES) salary or hourly wage information • Date, time, and location of meeting • Nearest commercial airport(s) to passenger drop off location(s) • Per diem rate for destination • Number of per diem days
Specific	• Specialized equipment needed (seeder) • Vendor support personnel needed • Aircraft fuel truck specific needs	• Number of flight and standby hours based on the flight route • Nearest commercial airport(s) to passenger drop off locations • Airline fare to passenger destinations	• Commercial airline information • Transportation cost • Lost work time • Charter and government aircraft information • Flight route or destinations • Number of flight and standby hours based on the flight route • 10% FET
Vendor/Aircraft	• Flight rate • Standby rate/guarantee hours • Daily availability rate	• Flight rate • Standby rate • Aircraft airspeed • Daily availability rate	• Flight rate • Standby rate • Aircraft airspeed • Daily availability rate

Required Tactical Aircraft Ordering Information

Resource requests will be processed using a resource ordering system. Resource order requests as the result of an incident, preparedness, severity, and wildland or prescribed fire will follow the established ordering channel displayed below.

INCIDENT

↕

DISPATCH CENTER

↕

GEOGRAPHIC AREA COORDINATION CENTER

↕

NATIONAL INTERAGENCY COORDINATION CENTER

↕

GEOGRAPHIC AREA COORDINATION CENTER

↕

DISPATCH CENTER

↕

SENDING AGENCY

At the point in this flow when an order can be filled, reverse the process to ensure proper notification back to the incident or requesting office. Local agency dispatch offices should use mutual aid agreements with cooperators whenever possible.

NWCG Aircraft Dispatch Form, PMS 250
https://www.nwcg.gov/publications/pms250

NWCG Aircraft Dispatch Form

Incident Name/Number:			Additional Information:

Date: | **Time:** | **Sunset +30:**

Order #: | **Charge Code:**

Descriptive Location:

Latitude: | **Longitude:** | **Elevation:**

Distance: | **Bearing:** | **From:**

Initial Point (IP) Descriptive: | **(IP) Latitude:** | **(IP) Longitude:**

Frequencies:

Air to Air Primary: | **Air to Air Secondary:**

Air to Ground: | **Ground Tactical:**

Command: | **Flight Following**

Incident Aircraft:

Other Aircraft: | **Aircraft Hazards:**

MTR/SUA: | **TFR:** | **Reload Base (s):**

NWCG Aircraft Dispatch Form, PMS 250 Completion Instructions

NWCG Aircraft Dispatch Form, PMS 250 Completion Instructions	
Block Name	**Instructions**
Incident Name/Number	Name of the incident (if applicable) or the Incident Number from the Computer Aided Dispatch (CAD) system
Date	Current date
Time	Time of last update to the form
Sunset + 30	Official sunset time of incident + 30 minutes
Order #	Incident number from the resource ordering system (e.g., AZ-TNF-000001)
Charge Code	Official financial code for the incident
Descriptive Location	General description and distance to the incident from a notable landmark (e.g., 10 miles N of Payson, AZ)
Latitude	Coordinates of the incident in Degrees Decimal Minutes (e.g., 48° 51.504')
Longitude	Coordinates of the incident in Degrees Decimal Minutes (e.g., 116° 62.839')
Elevation	Elevation of the incident in feet above ground level (AGL)
Distance	Distance in nautical miles (NM)
Bearing	Azimuth direction from a predetermined jetport
From	Predetermined jetport
Initial Point (IP) Descriptive	General description and distance to the incident from a notable landmark (e.g., 10 miles N of Payson, AZ)
(IP) Latitude	Coordinates of the IP in Degrees Decimal Minutes
(IP) Longitude	Coordinates of the IP in Degrees Decimal Minutes

Block Name	Instructions
Frequencies	
Air to Air Primary (TFR Victor)	Primary air-to-air frequency of the incident (also used for the frequency of the incident TFR and the frequency for fixed-wing aircraft)
Air to Air Secondary (Rotor Victor)	Secondary air-to-air frequency of the incident (also used as the Rotor frequency)
Air to Ground	Primary and secondary air-to-ground frequencies for the incident
Ground Tactical	Tactical channel assigned by the local unit for use by incident personnel
Command	Primary repeater frequency for the incident
Flight Following	National Flight Following frequency **or** primary flight following frequency (if National Flight Following frequency is unavailable)
Incident Aircraft	List of all aircraft assigned to the incident
Other Aircraft	List of any aircraft not assigned to the incident that may be incoming or on scene (e.g., media helicopters, state/local government aircraft, air ambulances)
Aircraft Hazards	Any known hazards that the aircraft need to be aware of (e.g., power lines, private UASs)
MTR/SUA	Status of activity for Military Training Routes (MTRs) and special use airspace (SUA) near the incident
TFR	TFR number (e.g., 4/3096) if a TFR is in place for the incident
Reload Base(s)	Reload base(s) for airtankers assigned to the incident
Additional Information	Any additional information not included in the form (e.g., dispatch center contact information, values at risk)

Ordering Instructions

These charts provide ordering instructions for specific resource requests.

Airtanker/Single Engine Airtanker (SEAT)/Helitack Requests	Smokejumper/Rapeller/Helitack Requests
- Always order as "Airtanker, Type 1 or 2" from the closest airtanker base, then from the GACC. - Always order an LP with an airtanker. - Enter values at risk in Special Needs section. - Human life: Entrapment - Escape routes - Safety zones - Medivac - Highways - Recreation areas - Property: Primary residences - Seasonal residences - Commercial - Outbuildings - Livestock - Natural resources: Threatened and endangered species - Wildlife habitats - Grazing allotments - Designated critical areas - Reload bases	**IA Orders** - Always order as "Load, Initial Attack" from the closest base, then from the GACC. - In Special Needs section, identify: - Estimated size. - Position on slope. - Aspect. - Number of individuals needed. **Smokejumper Booster** - On an overhead resource order, use individual overhead request numbers for each smokejumper.

Fixed-Wing Call-When-Needed (CWN)
Fire Suppression/Pre-position
- USFS/incident/local dispatch   - Initiate the aircraft request with the local dispatch center.   - Provide specifications, such as: - Mission code.   - Date and time needed.   - ATGS.   - Seek clarification from the Regional Fixed-Wing Program Manager, National Fixed-Wing Coordinator, and/or CO if needed.   - GACC   - Orders that cannot be filled by CWN or EU and are already committed to the USFS or GACC will be placed to the NICC and completed/filled nationally.   - NICC   - NICC CAD Runs will be generated by the NICC aircraft desk by proximity and/or cost, based

on the urgency of the request.
- o The NICC Coordinator on Duty (COD) will sign the Cost Determination Package and forward it to the National Fixed-Wing Coordinator. The following documents will be included in the package:
  - CWN Cost Determination Form
  - Resource order
  - NICC CAD Run

- National Fixed-Wing Coordinator
  - o Validates aircraft requirements and liaises as needed with USFS Airworthiness, CO, and national and/or regional aviation staff
  - o Approves aircraft recommendation or makes an alternative recommendation
  - o Signs the Cost Determination Package and forwards it to the CO for final signature

Short Duration Project (Hard Dollars)

- USFS
  - o Complete a Mission Aviation Safety Plan (MASP).
  - o Complete the Commitment & Obligation Request Form (FS-6500-224), obtain a signature from the Budget Officer, and forward it to the local dispatch center.
  - o Initiate a request in the resource ordering system with the local dispatch center.

- Local Dispatch
  - o Generate a request in the resource ordering system.
  - o Include specifications, such as:
    - Mission code.
    - Date and time needed, estimated number of days, and flight hours.
    - Fixed-Wing Flight Manager name and phone number.
  - o Upload the signed FS-6500-224 in the resource ordering system.

- GACC
  - o Verify the order and attachments for accuracy and completeness.

- NICC
  - o NICC CAD Runs will be generated by the NICC aircraft desk.
  - o The NICC COD will sign the Cost Determination Package and forward it to the National Fixed-Wing Coordinator. The following documents will be included in the package:
    - CWN Cost Determination Form
    - Resource order
    - NICC CAD Run
    - Signed FS-6500-224 from the resource ordering system

- National Fixed-Wing Coordinator
  - o Validates aircraft requirements and liaises as needed with USFS Airworthiness, COs, and national and/or regional aviation staff
  - o Approves aircraft recommendation or makes alternative recommendations
  - o Signs the Cost Determination Package and forwards it, with the FS-6500-224, to the CO for final signature

Rotor (Helicopter)

Helicopter Ordering Information

- EU helicopters come with a module. The helicopter and module are ordered on an aircraft order.
- If the helicopter is going to be used for IA, the HMGB must be Incident Commander Type 4 (ICT4) qualified.
- For federal incidents, all Type 1 and Type 2 helicopter orders must go through the GACC to the NICC.
- The NICC will not order a helicopter until it has an HMGB's name. In some cases, it may request the individual's travel information.
- Determine a meeting location for the helicopter's manager or module. An airport near the incident works as an excellent meeting location. Never have the helicopter report to the incident helibase without its manager or module.
- Military helicopters are mobilized through the NICC. Refer to Chapter 70 of the National Interagency Fire Center (NIFC) Military Use Handbook for additional information.
- When using state, county, and National Guard helicopters on your incident or incidents near your location, communication needs to take place between dispatch offices to ensure that airspace, radio frequencies, and the location of resources are coordinated. Remember to use a National Guard helicopter only when that state's governor has declared an emergency.

Specialized Equipment

- Fuel truck
- Aerial ignition device
- Global Positioning System (GPS) mapping IR equipment
- Fertilizer

Helicopter Staffing Requirements			
Helicopter Type	Federal Aviation Administration (FAA) Standard/Transport Category	FAA Standard Category Temporarily Designated for Limited Use	FAA Standard Category Permanently Designated for Limited Use or FAA Restricted Category
Type 1	HMGB + four Helicopter Crewmembers (HECMs)	HMGB only	HMGB only
Type 2	HMGB + three HECMs	HMGB only	HMGB only
Type 3	HMGB + two HECMs	HMGB only	HMGB only

Source: *NWCG Standards for Helicopter Operations*, PMS 510

Unmanned Aircraft Systems (UASs)				
UAS Module	**Personnel/Pilot Requirements**	**UAS Ordering Procedures**	**Special Considerations**	**Specialized Equipment**
Type 1 Fixed-Wing	UAS, Manager (UASM) and UAS, Data Specialist (UASD)	• CWN UAS are a national resource and must be ordered through the NICC aircraft desk. • Order either Unmanned Aircraft, Fixed-Wing, Type 1 (UAF1) or Unmanned Aircraft, Fixed-Wing, Type 2 (UAF2). • If resources are available, an A number will be filled with a UAS aircraft and rostered with a UASM and a UASD.	In the Special Needs section, note: • Authorized cell phone, tablets, and laptops. • Large sport utility vehicle (SUV)/pickup truck, off-road-capable rental vehicle or National Emergency Rental Vehicle (NERV) large SUV/pickup truck (emergency operations only), off-road-capable vehicle authorized. • Trainees authorized.	Electro-optical (EO)/Midwave IR (MWIR)
Type 2 Fixed-Wing	UASM and UASD	• CWN UASs are a national resource and must be ordered through the NICC aircraft desk. • Order either UAF1 or UAF2. • If resources are available, an A number will be filled with a UAS aircraft and rostered with a UASM and a UASD.	In the Special Needs section, note: • Authorized cell phone, tablets, and laptops. • Large SUV/pickup truck, off-road-capable rental vehicle or NERV large SUV/pickup truck (emergency operations only), off-road-capable vehicle authorized. • Trainees authorized.	EO/Longwave IR (LWIR)

Unmanned Aircraft Systems (UASs)				
UAS Module	**Personnel/Pilot Requirements**	**UAS Ordering Procedures**	**Special Considerations**	**Specialized Equipment**
Type 3 Rotorcraft	Two or more aerial ignition pilots	• Place the orders through your respective dispatch/ordering unit.	In the Special Needs section, note: • Specify Type 3 or 4 with desired capabilities. **Example:** Need Type 3 UAS with EO and IR capabilities. • Other small UAS, sensors, support equipment, cell phone, tablets, televisions, laptops authorized per 41 Code of Federal Regulations (CFR) 102 33.20. • Large SUV/pickup truck, off-road-capable rental vehicle or NERV large SUV/pickup truck (emergency operations only), off-road-capable vehicle authorized.	Moderate Quality IR

Unmanned Aircraft Systems (UASs)				
UAS Module	**Personnel/Pilot Requirements**	**UAS Ordering Procedures**	**Special Considerations**	**Specialized Equipment**
Type 4 Rotorcraft	Two or more aerial ignition pilots	• Place the orders through your respective dispatch/ordering unit.	In the Special Needs section, note: • Specify Type 3 or 4 with desired capabilities. **Example:** Need Type 3 UAS with EO and IR capabilities. • Other small UAS, sensors, support equipment, cell phone, tablets, televisions, laptops authorized per 41 CFR 102 33.20. • Large SUV/pickup truck, off-road-capable rental vehicle or NERV large SUV/pickup truck (emergency operations only), off-road-capable vehicle authorized.	Moderate Quality IR

Other UAS ordering guidelines and notes:
- Orders will be placed through your respective dispatch ordering unit.
- UAS orders should be coordinated with the Regional UAS Specialist or Agency Representative for efficiency.
- UAS personnel are in high demand. Please order trainees when approved/possible to help build the future capacity of the interagency UAS program.
- Cooperators wishing to fly UAS on federally managed incidents must have a Cooperator letter issued by DOI or USFS.

Time Conversion Table

Conversion From USA Time Zones to Coordinated Universal Time (UTC)/Zulu		
HST	Hawaiian Standard Time	UTC – 10
ALST	Alaskan Standard Time	UTC – 9
ALDT	Alaskan Daylight Time	UTC – 8
PST	Pacific Standard Time	UTC – 8
PDT	Pacific Daylight Time	UTC – 7
MST	Mountain Standard Time	UTC – 7
MDT	Mountain Daylight Time	UTC – 6
CST	Central Standard Time	UTC – 6
CDT	Central Daylight Time	UTC – 5
EST	Eastern Standard Time	UTC – 5
EDT	Eastern Daylight Time	UTC – 4
AST	Atlantic Standard Time	UTC – 4

UTC (Zulu)	HST	ALST	PST/ ALDT	PDT/ MST	MDT/ CST	CDT/ EST	EDT/ AST
0000*	1400	1500	1600	1700	1800	1900	2000
0100	1500	1600	1700	1800	1900	2000	2100
0200	1600	1700	1800	1900	2000	2100	2200
0300	1700	1800	1900	2000	2100	2200	2300
0400	1800	1900	2000	2100	2200	2300	Midnight
0500	1900	2000	2100	2200	2300	Midnight	0100
0600	2000	2100	2200	2300	Midnight	0100	0200
0700	2100	2200	2300	Midnight	0100	0200	0300
0800	2200	2300	Midnight	0100	0200	0300	0400

UTC (Zulu)	HST	ALST	PST/ ALDT	PDT/ MST	MDT/ CST	CDT/ EST	EDT/ AST
0900	2300	Midnight	0100	0200	0300	0400	0500
1000	Midnight	0100	0200	0300	0400	0500	0600
1100	0100	0200	0300	0400	0500	0600	0700
1200	0200	0300	0400	0500	0600	0700	0800
1300	0300	0400	0500	0600	0700	0800	0900
1400	0400	0500	0600	0700	0800	0900	1000
1500	0500	0600	0700	0800	0900	1000	1100
1600	0600	0700	0800	0900	1000	1100	Noon
1700	0700	0800	0900	1000	1100	Noon	1300
1800	0800	0900	1000	1100	Noon	1300	1400
1900	0900	1000	1100	Noon	1300	1400	1500
2000	1000	1100	Noon	1300	1400	1500	1600
2100	1100	Noon	1300	1400	1500	1600	1700
2200	Noon	1300	1400	1500	1600	1700	1800
2300	1300	1400	1500	1600	1700	1800	1900
2400	1400	1500	1600	1700	1800	1900	2000

Aviation Checklists

Deconfliction Checklist

This checklist provides guidance to ensure that multiple aircraft operating in the same airspace do not interfere with each other.

Deconfliction Checklist	
☐	Are maps updated and available? • Sectional Aeronautical Charts • Aircraft Hazard Maps
☐	Are publications current and accessible? • Area Planning AP/1B book and charts • Federal Aviation Regulations (FAR)/Aeronautical Information Manual (AIM) • Chart supplements • AP/1A Handbook • *NWCG Standards for Airspace Coordination*, PMS 520
☐	Are there current contact phone lists? • Scheduling agencies/activities for SUA/MTRs • FAA contacts
☐	Is airspace identified for the geographical area?
☐	Are airspace agreements established and current?
☐	Are forms accessible? • *Temporary Flight Restriction Request Form*, PMS 520-2 • Checklists • *Federal Wildland Fire Temporary Tower Request Form*, PMS 520-3
☐	Are appropriate agency personnel trained? • Able to plot bearing/distance • Latitude/longitude mapping • Airspace coordination

*Centers may modify this checklist to their specific needs.

Flight Planning Checklist

Flight Planning Checklist	
Required Information	
☐	Document passenger names, body weights, and baggage weights.
☐	Document the date/time of the requested flight.
☐	Document the flight route/itinerary.
☐	Identify pickup/drop off location for passengers (fixed-base operator [FBO]).
☐	Establish a chief of party/flight manager for the flight.
☐	List the cargo type/weight/volume and any hazardous materials. • Will cargo fit through the aircraft door?

☐	Complete a cost comparison.
	• Determine alternate means of travel.
	   o Commercial airliner
	   o Government-owned aircraft

Environmental Factors	
☐	Is it a day or night flight? • Night flights require a twin-engine Instrument Flight Rules (IFR) aircraft for passengers. • Single engine aircraft for cargo is adequate at night with pilot discretion.
☐	Are there weather factors to consider? • Thunderstorms • High temperatures • Winds • Ice conditions • Visibility (fog/dust/smoke)
☐	Are there terrain factors to consider? • High elevation • Mountains
☐	What is the density altitude? • High temperatures and elevation: Aircraft will need 25% more runway for takeoff. • The number of passengers and amount of cargo an aircraft can transport may be reduced.

Airport Factors	
☐	Is the runway length adequate?
☐	Is the runway gravel or hard surface? • Can the aircraft operate on gravel?
☐	What is the runway load bearing weight? • Is the aircraft too heavy for the airport?
☐	What is the elevation of the runway?
☐	Does the runway have lights?
☐	Is there an IFR approach?
☐	What fueling facilities are available? • Type of fuel available (e.g., aviation gasoline [avgas], jet)
☐	Are there any noise restrictions?
Aircraft Criteria	
☐	Is the aircraft approved?
☐	What is the number of insured seats?
☐	What is the payload?
☐	Is it multi-engine or single engine?
☐	Is it IFR or Visual Flight Rules (VFR)?
☐	Is it equipped with de-icing equipment?
☐	What is the speed?
☐	What is the fuel type and consumption?
☐	Is it a high wing or low wing aircraft?
☐	Does it have any avionics requirements?
Pilot Criteria	
☐	Is the pilot approved for the specific flight (e.g., IFR, multi-engine qualified)?

☐	What is the pilot's duty day limitation? • When did the duty day start? • The maximum duty day for a pilot is 14 hours.
☐	What is the flight crew's flight time limitation within a 14-hour duty day? • Single pilot: Up to 8 hours flight time • Two pilots: Up to 10 hours flight time

National Interagency Fire Center (NIFC) Large Transport Requirements (Note: The National Interagency Coordination Center (NICC) is responsible for all flight planning.)

☐	Notify the local airport manager of the jet's arrival.
☐	Notify the local fire department (if required).
☐	Notify the crew desk/supervisory dispatcher/Ramp Manager (RAMP).
☐	Determine if an auxiliary power unit (APU) is available.
☐	Determine if stairs are available.

Dispatcher Responsibilities

☐	Relay flight information to the vendor, pilot, RAMP, and overhead desk.
☐	Determine the means of flight following.
☐	Relay flight following information to the GACC and sending and receiving units.
☐	Brief the flight manager.

Flight Manager Responsibilities

☐	Ensure that all passengers are at the initial departure location.
☐	Brief the pilot and passengers on the flight.
☐	Inform dispatch of any changes in passengers or flight route.
☐	Verify that the aircraft and pilot are agency approved.
☐	Ensure that passengers receive a safety briefing from the pilot.
☐	Ensure the pilot complies with flight following procedures.
☐	Verify flight invoice entries.
☐	Complete and submit an Aviation Safety Communiqué (SAFECOM) for any flight irregularities.

Follow-up, Demobilization, and Closeout Checklist

	Follow-up, Demobilization, and Closeout Checklist
☐	Confirm the release of tactical air resources with incident.
☐	Check with the local Dispatch Center Manager, neighbors, and GACC for possible reassignment of resources prior to releasing them to the home unit.
☐	Confirm the dispatch center notified the GACC of Type I and Type II helicopters available for reassignment.
☐	Send the Aircraft Flight Request/Flight Schedule to the GACC if aircraft are leaving the geographical area.
☐	Confirm the GACC notified the NICC of availability of Type I and Type II helicopters ready for reassignment/release.
☐	Relay the released aircrafts' estimated times of arrival (ETAs) through dispatch channels.
☐	Complete documentation and close out resource orders and/or the Aircraft Flight Request/Flight Schedule.
☐	Confirm the flight following procedures for the aircraft prior to release.
☐	Check the regional mobilization guide for geographical procedures.

Frequency Management Checklist

	Frequency Management Checklist
☐	Order additional temporary emergency radio frequencies through the GACC to the NICC.

☐	Use area-assigned very high frequency (VHF)-AM frequencies.
	• Airtanker base ramp frequency: **123.975 megahertz (MHz)**
	• National Flight Following frequency: **168.6500 MHz**
	    ○ Frequency for tracking shared national resources (e.g., airtankers, LPs, helicopters) between geographic areas
	    ○ Frequency is not for local flight following
	• National Air Guard frequency: **168.6250 MHz**
	    ○ Frequency is for emergency communication only.
	        ▪ Air-to-air emergency contact and coordination
	        ▪ Ground-to-air emergency contact
	        ▪ Initial call, recall, and redirection of aircraft when no other contact frequency is available

Infrared (IR) Checklist

This checklist provides instructions for requesting IR technology to be used to detect and monitor wildfires.

Infrared (IR) Checklist
☐	Go to the following link: https://iaa-nifc.hub.arcgis.com/ • You must have a NIFC ArcGIS Online (AGOL) account. If you do not have an account, complete the NIFC Org New Account Request Form: https://forms.office.com/Pages/ResponsePage.aspx?id=4F2CSwVwPUuaFHhBHyhmA14USreJkFhEsrkRJOAmpmtUMlZWMkg4NTMyTzRVRTEwOFlOQjlTMkE5OSQlQCN0PWcu • New accounts are created within 24 hours.
☐	Select "Request IAA Support."

☐	After logging in, select the requesting GACC or agency.
	• This is who is making the request.
	• If you are on a federal incident, identify which GACC is making the request.
	   o A numbers are not needed for USFS Incident Awareness and Assessment (IAA) resources.
	   o A numbers are required for National Infrared Operations (NIROPS).
	• If you are on a California Department of Forestry and Fire Protection (CAL FIRE) incident, make sure to select CAL FIRE and identify if the request is in North and South Ops.

Important! There are a limited number of IAA-capable aircraft and satellites and many competing incidents. Be as descriptive as possible and only request what you need in the order that you need it. There is not a set deadline for the request. However, please make every effort to submit your request as early as possible; the day before is preferred, as this helps to ensure resources are not already committed to other missions.

Mobile Retardant Base (MRB) Checklist

This checklist provides instructions for ordering and establishing a MRB to support aviation operations.

	Mobile Retardant Base (MRB) Checklist
☐	Determine a suitable base. • Adequate water source • Airtanker or helicopter operations
☐	Coordinate the base operation with the airport manager.
☐	Select a private vendor.
☐	Assign an agency liaison for safety, efficiency, cost-effectiveness, and contract assistance.
☐	Identify the lead time for operation setup.

Portable Airtanker Base (PAB) Checklist

This checklist provides instructions for ordering and establishing a PAB to support aviation operations.

	Portable Airtanker Base (PAB) Checklist
☐	Determine a suitable base. • Adequate water source • Airtanker or helicopter operations
☐	Coordinate the base operation with the airport manager.
☐	Order additional personnel.
☐	Arrange housing/meals/transportation.
☐	Order support equipment and arrange facilities.
☐	Order communication equipment.
☐	Consider private vendors that are available and self-supporting.
☐	Assign an agency liaison for safety, efficiency, cost-effectiveness, and contract assistance.
☐	Identify lead time for operation setup.
☐	Order emergency response/safety equipment.

SAFECOM Submission Checklist

Purpose of the Form

The purpose of the SAFECOM form is to:
- Report and document any damage or injury that does not meet "accident" criteria, as well as any condition, act, observance, maintenance problem, or circumstance that has potential to cause an aviation-related accident.
- Perform trend analyses for short- or long-term changes in policy and procedures, identify areas needing training, etc.
- Establish accountability on the part of all aviation mission participants for meeting flight and employee safety objectives.

Applicability

The form is to be completed for any one of five occurrences:
- Maintenance deficiency
- Aviation hazard
- Incident
- Incident with potential
- Accident

SAFECOM Form Location

Electronic versions of the SAFECOM form are online at https://www.safecom.gov/.

SAFECOM Submission Checklist
Responsibility and Requirements for Completion
Incident/Aviation Hazard/Maintenance Deficiency Report   It is the responsibility of any individual (including contractors) who observes or who is involved in an aviation incident/hazard/maintenance deficiency to report the occurrence immediately to local aviation management staff. The local aviation manager is responsible for reviewing the report and forwarding it through agency channels.   **Note:** Serious incidents with potential to cause an accident (e.g., occurrences which meet "incident" criteria, and especially near mid-air collisions) shall be reported immediately.

☐	Within **two** working days after an aircraft incident, aviation hazard, or maintenance deficiency, the local aviation manager or participant in the flight shall complete and submit a SAFECOM Form (Form OAS-34/FS 5700-14).
☐	Within **three** working days after the occurrence, the report shall be forwarded by express mail or fax to the state, area, or regional aviation manager.

☐	Within **five** working days after the occurrence of the incident/hazard (with the exception of incidents with serious potential), the state/area/regional aviation manager shall review, add comments as necessary, and forward the report to the Office of Aviation Services (OAS) and the bureau/office aviation safety manager.

Initial Report of the Incident or Accident

☐	The responsible employee shall document the facts and immediately file the report with their supervisor. Regions shall immediately report all aviation accidents or incidents with potential to the national Aviation Safety Officer (ASO) by telephone.
☐	Each individual/organization has an obligation to others in aviation to share hazard, mishap, and causal information. Each unit's aviation accident prevention plan should, therefore, contain provisions for encouraging the reporting of such information by individuals. The information is documented and processed for system-wide distribution.
☐	Copies are routed to the Regional Aviation Safety Manager (RASM) and Forest Aviation Officer (FAO) as soon as possible. Accidents and incidents with potential are to be reported immediately.

State and Local Agency Reports

☐	Reference local formats. • Federal personnel managing helibases or engaging in helicopter missions for state or local agencies should complete the state or local format. • If none exists, complete Form OAS-34/FS 5700-14 and submit it to the local unit aviation manager.

Supplemental Information Checklist

Supplemental Information Checklist
If the order is for relief planning for Fixed-Wing, Air Tactical (FWAA)/Fixed-Wing, Leadplane (FWLP)/Fixed-Wing, Aerial Supervision Module (FASM), determine if the following are needed:
☐ Duration of incident
☐ Pilot flight hour and duty day limitations
☐ Aircraft refueling
☐ Rest break for the pilot
If the order is for relief planning for infrared (IR), determine if the following is needed:
☐ IR interpreter/IR request
If the order is for relief planning for aerial ignition, determine if the following are needed:
☐ Manager/module/operator firing equipment
☐ Fuel
If the order is for relief planning for Single Engine Airtanker (SEAT), determine if the following are needed:
☐ Manager retardant
☐ Water source/tender
If the order is for relief planning for detection, determine if the following are needed:
☐ Radio kit with VHF-FM capability
☐ Qualified observer

Temporary Flight Restriction (TFR) Request Checklist

Document all actions pertaining to TFRs. Check your local geographical area procedures for processing.

Temporary Flight Restriction (TFR) Request Checklist	
☐	Provide the A number to the GACC.
☐	Request a TFR from Air Route Traffic Control Centers (ARTCC).
☐	Provide the following information: • Estimated duration of operations • Brief description of the incident, hazard, or nature of airborne relief • Circular latitude/longitude and radius • Polygon latitude/longitude • Notice to Airmen (NOTAM) with the number of TFRs being replaced • Altitude • Geographic location of the incident • Agency in charge • Incident name • 24-hour phone number • VHF (AM air-to-air frequency) • Effects on SUA (e.g., Military Operations Area [MOA], restricted area [RA], warning area [WA], prohibited area [PA], alert area [AA])
☐	Request a call back from ARTCC with confirmation that a TFR is in place.
☐	Request an advisory NOTAM from the local Flight Service Station (FSS) for both disaster and non-disaster air operations.
☐	Relay TFR information and status to the unit dispatch, GACC, Incident Commander (IC), and responding air resources.
☐	Consult with the IC, Air Operations Branch Director (AOBD), or project manager on whether TFR dimensions are adequate. Modify TFR dimensions as necessary.
☐	Cancel the TFR with ARTCC when it is no longer needed.
☐	Disseminate a map and NOTAM to the following: • Airtanker bases • Helibases • FBOs • Military schedulers • GACC

Source: *Temporary Flight Restriction Request Form*, PMS 520-2

Temporary Tower Checklist

This checklist provides instructions for ordering and activating a temporary tower to support aviation operations.

	Temporary Tower Checklist
☐	Activate a temporary tower when: • An operation is being conducted from, or in the proximity of, an uncontrolled airport. • A high volume of aircraft is anticipated near each other. • There is a high frequency of non-incident aircraft using common airspace. • Visibility is limited at an uncontrolled airport.
☐	The request for a temporary tower is done using an aircraft resource order through normal dispatch channels. • The temporary tower consists of two FAA controllers (no actual tower). • Refer to *NWCG Standards for Airspace Coordination*, PMS 520 for more details.
☐	Check with the incident/project whether relief controllers will be required.

☐	Discuss the required support for the temporary tower with the incident/project.
	• Radio (VHF base station)
	• Anemometer
	• Windsock
	• Altimeter
	• Thermometer
	• Compass
	• Shelter with a view of the entire airport
	    ○ Trailer
	    ○ Electric
	    ○ Telephone
	• Lodging and meals

☐	Notify the regional Airspace Coordinator (ASCO) of the temporary tower request.
☐	Ensure that temporary tower information is disseminated to all appropriate units. • FAA NOTAM
☐	Consult with the airport manager.
☐	Ensure the Unit Aviation Officer briefs the FAA controller on their arrival.

Aviation Contacts

Aviation Contacts Form			
Position	**Contact**	**Work Phone Number**	**Cell Phone Number**
Local FSS			
RASM			
Regional ARTCC			
Regional ASCO			
Regional Aviation Maintenance Technical			
Regional/State Aviation Officer			
Regional/State Helicopter Specialist			
Unit Aviation Officer			
Unit HMGB			
Unit SEAT Manager			
Others			

General References

Forms			
Title	**Purpose(s)**	**Source**	**Support**
Aircraft Flight Request/Flight Schedule	• Document flight request and manifest information. • Select a flight following action.	https://gacc.nifc.gov/swcc/dc/azpdc/operations/documents/aircraft/forms/Flight%20Strip%20Form-National.pdf	• IA • Aviation
Cost Comparison Travel Worksheet (FS-5700-11)	• Conduct a cost analysis.	https://www.fs.usda.gov/sites/default/files/2019-05/fs-5700-11_cost_comparison_travel_worksheet.pdf	• IA • Aviation
Day Trip Authorization (FS-5700-12)	• Approve and document non-federal passengers and contractors on USFS-controlled aircraft.	https://www.fs.usda.gov/sites/default/files/2019-05/fs_5700_12_day_trip_authorization_0-93.pdf	• IA • Aviation
Federal Wildland Fire Temporary Tower Request Form, PMS 520-3	• Request an FAA temporary tower.	https://www.nwcg.gov/publications/pms520-3	• IA • Aviation
Five Steps to a Safe Flight (Orange Card) (OAS-103)	• Determine information on which helicopter passengers should be briefed.	https://www.iat.gov/docs/oas-103.pdf	• IA • Aviation
Flight Request, Justification and Approval for Administrative Use of Aircraft (AUA-1)	• Obtain flight approval.	https://www.fs.usda.gov/sites/default/files/2019-05/flight_request-_justification-_approval_adm_use_aircraft_form_aua-1_2019.pdf	• IA • Aviation

Forms			
Title	**Purpose(s)**	**Source**	**Support**
Flight Strips	• Document flight following information.	Local dispatch office	• IA • Aviation •
Infrared Aircraft Scanner Order	• Request an incident IR flight.	https://gacc.nifc.gov/eacc/logistics/aviation/forms/documents/infrared-aircraft-scanner-request.pdf	• IA • Aviation
NWCG Aircraft Dispatch Form, PMS 250	• Used by the HMGB and pilot with incident information.	https://www.nwcg.gov/publications/pms250	• IA • Aviation
NWCG Passenger/ Crew and Cargo Manifest, PMS 245	• Document passengers' names, weights, home units, and cargo weight.	https://www.nwcg.gov/publications/pms245	• IA • Aviation
SAFECOMs	• Document unsafe aviation practices.	http://www.safecom.gov	• IA • Aviation
Senior Federal Travel Form (0322-GSA-AN)	• Report the travels of the SES, non-federal passengers, and contractors on government-controlled aircraft.	https://www.gsa.gov/system/files/GSA_3641.pdf	• IA • Aviation
Smokejumper Initial Attack Request	• Request a smokejumper.	Local dispatch office	• IA • Aviation
Tactical Aircraft Form	• Document aircraft responding to or on an incident.	Local dispatch office	• IA • Aviation

Forms			
Title	**Purpose(s)**	**Source**	**Support**
Tactical Fixed-Wing Information Sheet	• Obtain transit tactical aircraft and vendor information.	Local dispatch office	• IA • Aviation
Temporary Flight Restriction Request Form, PMS 520-2	• Request a TFR.	https://www.nwcg.gov/publications/pms520-2	• IA • Aviation
Travel Cost Analysis (OAS-110)	• Obtain cost analysis and flight approval.	https://www.doi.gov/sites/default/files/documents/2024-09/opm-07-appendix-6.pdf	• IA • Aviation

Guides			
Title	**Agency**	**Source**	**Support**
Basic Aviation Safety	Interagency	https://www.iat.gov/help/guides/basic_aviation_safety_guide_2013_05.pdf	• IA • Aviation
Emergency Response Guidebook (ERG)	U.S. Department of Transportation (DOT)	https://www.phmsa.dot.gov/training/hazmat/erg/emergency-response-guidebook-erg	• IA • Aviation
Field Reference Guide for Aviation Users	DOI	https://www.iat.gov/Training/Attachments/Uploads/M3_Field_Reference_Guide_2014.pdf	• IA • Aviation

Guides			
Title	**Agency**	**Source**	**Support**
Interagency Air Tactical Group Supervisor's Guide (National Fire Equipment System [NFES] 1393)	Interagency	https://gacc.nifc.gov/nrcc/dispatch/aviation/ATGSguide.pdf	• IA • Aviation
Interagency Aviation Training Aircraft Library	Interagency	https://www.iat.gov/docs/aircraft_library.pdf	• IA • Aviation
Interagency Aviation Training Guide	Interagency	https://www.iat.gov/docs/IAT_Guide.pdf	• IA • Aviation
Interagency Aviation User Pocket Guide (NFES 1373)	Interagency	https://www.npshistory.com/publications/fire/interagency-aviation-user-guide-2008.pdf	• IA • Aviation
Interagency Call-When-Needed Helicopters	Interagency	• GACC • NICC	• IA • Aviation
Interagency Helicopter Rappel Guide (IHRG)	Interagency	https://www.fs.usda.gov/Internet/FSE_DOCUMENTS/fsbdev3_046176.pdf	• IA • Aviation
Interagency Retardant Base Planning Guide	Interagency	https://www.fs.usda.gov/t-d/pubs/pdf/06511803.pdf	• IA • Aviation
Interagency Smokejumper Pilots Operations Guide	Interagency	https://www.fs.usda.gov/sites/default/files/media_wysiwyg/ispog_final_2018.pdf	• IA • Aviation

Guides			
Title	**Agency**	**Source**	**Support**
Local/Geographical Mobilization Guides	Interagency	• GACC • Local dispatch offices • Office web pages	• IA • Aviation
National Interagency Aviation Frequency Guide	Interagency	https://gacc.nifc.gov/rmcc/dispatch_centers/r2cdc/dispatch/Aviation_folder/National%20Interagency%20Aviation%20Frequency%20Guide.pdf	• IA • Aviation
National Interagency Standards for Resource Mobilization	Interagency	https://www.nifc.gov/nicc/logistics/reference-documents	• IA • Aviation
NWCG Airtanker Base Directory, PMS 507	Interagency	https://www.nwcg.gov/publications/pms507	• IA • Aviation
NWCG Aviation Mishap Response Guide and Checklist, PMS 503	Interagency	https://www.nwcg.gov/publications/pms503	• IA • Aviation
NWCG Aviation Technical Assistance Directory, PMS 504	Interagency	https://www.nwcg.gov/publications/pms504	• IA • Aviation
NWCG Incident Response Pocket Guide (IRPG), PMS 461	Interagency	https://www.nwcg.gov/publications/pms461	• IA • Aviation
NWCG Standards for Aerial Ignition, PMS 501	Interagency	https://www.nwcg.gov/publications/pms501	• IA • Aviation

Guides			
Title	**Agency**	**Source**	**Support**
NWCG Standards for Airspace Coordination, PMS 520	Interagency	https://www.nwcg.gov/publications/pms520	• IA • Aviation
NWCG Standards for Airtanker Base Operations, PMS 508	Interagency	https://www.nwcg.gov/publications/pms508	• IA • Aviation
NWCG Standards for Airtanker Operations, PMS 514	Interagency	https://www.nwcg.gov/publications/pms514	• IA • Aviation
NWCG Standards for Helicopter Operations, PMS 510	Interagency	https://www.nwcg.gov/publications/pms510	• IA • Aviation

Handbooks			
Title	**Agency**	**Source**	**Support**
Aerial Capture, Eradication and Tagging of Animals (ACETA) (OPM – 33)	DOI	https://www.doi.gov/media/document/opm-33pdf	• IA • Aviation
Area Planning, Military Training Routes, North and South America (AP/1B)	U.S. Department of Defense (DOD)	https://www.daip.jcs.mil/pdf/ap1b.pdf	• IA • Aviation
Area Planning, Special Use Airspace, North and South America (AP/1A)	DOD	https://www.daip.jcs.mil/pdf/ap1a.pdf	• IA • Aviation

Handbooks			
Title	**Agency**	**Source**	**Support**
Aviation Fuel Management Handbook	DOI	https://www.doi.gov/sites/default/files/documents/2024-09/doi-aviation-fuel-management-handbook-sept-2024.pdf	• IA • Aviation
Aviation Life Support Equipment (ALSE)	DOI/USFS	https://www.doi.gov/sites/doi.gov/files/interagency-aviation-life-support-equiment-handbook-guide-v3.0.pdf	• IA • Aviation
Fire Behavior Field Reference Guide, PMS 437	Interagency	https://www.nwcg.gov/publications/pms437/fire-behavior-field-reference-guide-pms-437	• IA • Aviation
Forest Service Handbook (FSH) 5709.11 – Fixed-Wing Operations Handbook	USFS	https://www.fs.usda.gov/cgi-bin/Directives/get_dirs/fsh?5709.11	• IA • Aviation
FSH 5709.14 – Smokejumper and Paracargo Handbook	USFS	https://www.fs.usda.gov/cgi-bin/Directives/get_dirs/fsh?5709.14	• IA • Aviation
FSH 5709.16 – Aviation Management and Operations Handbook	USFS	https://www.fs.usda.gov/cgi-bin/Directives/get_dirs/fsh?5709.16	• IA • Aviation
FSH 6309.11 – Contract Administration Handbook	USFS	https://www.fs.usda.gov/cgi-bin/Directives/get_dirs/fsh?6309.11	• IA • Aviation

Handbooks			
Title	**Agency**	**Source**	**Support**
FSH 6709.11 – Health and Safety Code Handbook	USFS	https://www.fs.usda.gov/cgi-bin/Directives/get_dirs/fsh?6709.11	• IA • Aviation
Helicopter Short-Haul Operations Plan	DOI	https://www.nps.gov/subjects/aviation/upload/nps_short-haul_ops_plan.pdf	• IA • Aviation
NIFC Military Use Handbook	Interagency	https://www.nifc.gov/sites/default/files/document-media/Military_Use_Handbook.pdf	• IA • Aviation
NWCG Standards for Aviation Transport of Hazardous Materials, PMS 513	Interagency	https://www.nwcg.gov/publications/pms513	• IA • Aviation
Wild Horses and Burros Management Handbook (H-4700-1)	BLM	https://www.blm.gov/sites/blm.gov/files/uploads/Media_Library_BLM_Policy_H-4700-1.pdf	• IA

Manuals			
Title	**Agency**	**Source**	**Supports**
AIM	FAA	https://www.faa.gov/air_traffic/publications/atpubs/aim_html/index.html	• IA • Aviation
Reference Manual 60: Aviation Management (RM 60)	NPS	https://www.nps.gov/subjects/aviation/rm-60.htm	• IA • Aviation
DOI Departmental Manual, Aviation Management Series, Part 350	DOI	https://www.doi.gov/sites/doi.gov/files/elips/documents/350-dm-1.pdf	• IA • Aviation
Forest Service Manual (FSM) 5700 Aviation Management	USFS	https://www.fs.usda.gov/cgi-bin/Directives/get_dirs/fsm?5700	• IA • Aviation
Indian Affairs Manual, Part 57 Aviation Management	BIA	https://www.bia.gov/sites/default/files/dup/assets/public/raca/manual/pdf/57%20IAM%201%20-%20Responsibilities%20Overview_FINAL_signed_footer_508_%209.20.2018.pdf	• IA • Aviation
Interagency Standards for Fire and Fire Aviation Operations (Red Book)	Interagency	https://www.nifc.gov/sites/default/files/redbook-files/RedBookAll.pdf	• IA • Aviation
Manual Transmittal Sheet, 9400 – Aviation Management	BLM	https://www.blm.gov/sites/blm.gov/files/uploads/mediacenter_blmpolicymanual9400.pdf	• IA • Aviation

Manuals			
Title	**Agency**	**Source**	**Supports**
State aviation	State	State fire organizations	• IA • Aviation
USFWS Service Manual, Aviation Management (Parts 330-339)	USFWS	https://www.fws.gov/policy-library/manuals/logistics	• IA • Aviation
Wildland Fire and Aviation Program Management Operations Guide (Blue Book)	BIA	Regional BIA Fire Operation	• IA • Aviation

Plans			
Title	**Agency**	**Source**	**Supports**
MAFFS Operating Plan	Interagency	Regional or Unit Aviation Manager/Officer	• IA • Aviation
Project Safety Plan	Agency-specific	Unit Aviation Manager/Officer	• IA • Aviation
Regional/State Aviation Safety and Mishap Prevention Plan	Agency-specific	Regional or Unit Aviation Manager/Officer	• IA • Aviation
State/Regional Aviation Plan	Agency-specific	Regional or Unit Aviation Manager/Officer	• IA • Aviation
Unit Aviation Plan	Agency-specific	Unit Aviation Manager/Officer	• IA • Aviation

Publications			
Title	**Agency**	**Source**	**Supports**
Aeronautical chart user guide	N/A	Bookstore or FBO	• IA • Aviation
Airport/facility directories	N/A	Bookstore or FBO	• IA • Aviation
Flight Guide (travel planning website)	N/A	http://www.flightguide.com/	• IA • Aviation
Jane's World Aircraft Recognition Handbook by Derek Wood	N/A	Bookstore	• IA • Aviation
Memorandum of understanding (MOU) and cooperative agreements	Agency-specific	National/Regional/Unit Aviation Manager/Officer	• IA • Aviation
OAS & Interagency Aviation Information Bulletins	DOI	https://www.doi.gov/aviation/library/ib	• IA • Aviation
Office of Management and Budget (OMB) circulars	OMB	https://www.whitehouse.gov/omb/information-for-agencies/circulars/	• IA • Aviation
Operational Procedures Memoranda Index	DOI	https://www.doi.gov/aviation/library/opm	• IA • Aviation
Safety alerts	Agency-specific	National/Regional/Unit Aviation Manager/Officer	• IA • Aviation
USFS Proposed and Interim Directives	USFS	https://www.fs.usda.gov/about-agency/regulations-policies/comment-on-directives	• IA • Aviation

Websites		
Title	**Agency**	**Web Address**
Aircraft and Pilot Carding	USFS	https://www.nwcg.gov/6mfs/aviation/aircraft-and-pilot-carding
AirNav (quick reference for some critical FBO-related items)	N/A	http://www.airnav.com
Automated Flight Following (AFF)	Interagency	http://www.aff.gov
BIA National Aviation Office (NAO)	BIA	https://www.bia.gov/service/wildfire-response/aviation
BLM Office of Fire and Aviation	BLM	https://www.blm.gov/programs/fire/aviation
DOI Office of Aviation Services	DOI	https://www.doi.gov/aviation
Federal Aviation Administration	FAA	https://www.faa.gov/
Great Circle Map	N/A	https://www.greatcirclemap.com/
Helicopters – CWN	USFS	Regional website
National Transportation Safety Board (NTSB)	NTSB	http://www.ntsb.gov
NIFC	Interagency	http://www.nifc.gov
NOTAM Search	FAA	https://notams.aim.faa.gov/notamSearch/
NOTAMs and TFR information	FAA	https://tfr.faa.gov/tfr2/list.html
NPS Aviation Program	NPS	https://www.nps.gov/orgs/aviationprogram/index.htm

Websites		
Title	**Agency**	**Web Address**
SAFECOM Aviation Safety Communiqué	Interagency	https://www.safecom.gov/
Table of Sunrise/Sunset, Moonrise/Moonset, or Twilight Times for an Entire Year	U.S. Navy	https://aa.usno.navy.mil/data/RS_OneYear
Transportation Security Administration (TSA)	TSA	www.tsa.gov
U.S. Department of Homeland Security (DHS)	DHS	www.dhs.gov
USFS Aviation	USFS	https://www.fs.usda.gov/managing-land/fire/aviation
USFWS Aviation	USFWS	https://www.fws.gov/program/aviation
Weather information	National Oceanic and Atmospheric Administration (NOAA)	http://www.noaa.gov