

		ASN	2008-WSA-10-COA
		Case Status	EXPIRED
		Date Created	03/13/2008
		Date Submitted	03/25/2008
Proponent Organization		Sponsor	NASA - DFRC Operations
		Attn Of	Lawrence Davis, Director, Flight Operations Directorate
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Declaration		Declaration(a)	Yes
		Declaration(b)	Yes
Point of Contact		Representative	Greg Buoni
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Operational Description	Requested Effective Period	Beginning	
		End	
		Light out operation	No
		VFR operation	Yes
		IFR operation	No
		Day operation	Yes
		Night operation	Yes
		Program Executive Summary	2008 NASA Ikhana Western States Fire Mission (WSFM). Fly over selected western United States wildfires in 11 states (that include 6 ARTCC's) to acquire infrared data to support the National Interagency Fire Center (NIFC) and other fire fighting organizations. Fly within 2 nm of selected areas of the Canadian and Mexican borders to support fire fighting operations.
		Operational Summary	<p>Operations of the NASA DFRC Ikhana aircraft (N870NA) in Class A airspace from the Canadian border to the Mexican border from the Pacific Ocean to east of Denver, Colorado as defined in the requested COA boundary. Fly within 2 nm of selected areas of the Canadian and Mexican borders to support fire fighting operations.</p> <p>Operations Overview: The following attachments are the core description of the planned operation: 1. Procedures: Lost Link/Mission Procedures: NASA 2008 - Mission and Lost Link Procedures 2. Procedures: Emergency Procedures: NASA 2008 - Emergency Procedures</p> <p>A general description of the planned operation follows: 1. Aircraft will launch/recover from Edwards AFB and climb/descend within R-2508/R-2515 Special Use Airspace. 2. Aircraft will fly to fire incident areas, loiter over those incident areas for sufficient time for an infrared sensor to image the ground/fire area of interest, then proceed along the flight plan to the next incident area. 3. Loiters inside an incident area will generally consist of multiple, parallel North/South or East/West data tracks, although some fire incident areas are covered by other orientations of data tracks.</p> <p>Number of Flights: Although it is impossible to predict requests from emergency organizations, 4-5 flights are expected.</p> <p>Altitude: Class A airspace, outside of RVSM. FL180 to FL290 for most flights, although flight above FL420 is a possibility for a small number of flights.</p> <p>Times of flight: Expected to be ~0800 takeoff on Thursdays, depending on fire fighters requirements.</p> <p>Duration of Flight: Up to 20+ hours depending on fire fighters' requirements.</p> <p>Frequency of Flight: Generally planning one 20+ hour flight per week with takeoff on Thursdays, but expecting hi priority fire fighting operations and emergency situations to arise that will require multiple flights/operations during a week.</p>
	Location	State	CA
		County	Kern
		Nearest Airport	EDWARDS AFB
		AOR	California - Southern
	Class Of Airspace	Class-A	Yes
		Class-B	
		Class-C	
		Class-D	
		Class-E	
		Class-G	
System Description		Aircraft Type	
		Aircraft Type And Model	
		Description Attachment	1
		Control Station Attachment	1

	Receiver HF band	HF Band	No
		Quantity	
		In-Flight Returnable	No
	Guard (Emergency) Frequencies VHF Band	VHF Band	Yes
		Quantity	1
	Guard (Emergency) Frequencies UHF Band	UHF Band	Yes
		Quantity	1
	Instantaneous Two-Way Voice	Direct to pilot	Yes
		SATCOM	Yes
		Relay via aircraft	Yes
(b)(3)(A), (b)(3)(B)			
(b)(3)(A), (b)(3)(B)			
Aircraft Performance Recording		Flight data recording	No
		Control station recording	Yes
		Voice Recording	Yes
Flight Aircrew Qualifications	Pilots	Private (Written)	Yes
		Private (Certified)	Yes
		Instrument	Yes
		Commercial	Yes
		Air Transport	No
		Unique Trained Pilot	Yes
		Unique Trained Pilot Description	See Flight Aircrew Qualification Description attachment.
		DOD certified/trained	Yes
		Other Certified Training	Yes
		Trained on FAR Part 91 Requirement	Yes
		Medical Certification Class (FAA or DOD equivalent)	1,2
		Currency Status	See Flight Aircrew Qualification Description attachment.
		Duty Time Restrictions	See Flight Aircrew Qualification Description attachment.
		Single UAS Control	Yes
		UAS Description	The NASA GCS will be controlling one UAV (NASA 870 Ikhana).
		Total Numbers of UAS Controlled	1
	Observers	Private (Written)	No
		Private (Certified)	No
		Instrument	No
		Commercial	No
		Air Transport	No
		Unique Trained Pilot	No
		Unique Trained Pilot Description	See Visual Surveillance/Detection Capability attachment.
		DOD certified/trained	No
		Other Certified Training	No
		Trained on FAR Part 91 Requirement	No

		DOD Certified Training Attachment	2
		Medical Certification Class (FAA or DOD equivalent)	3
		Currency Status	See Visual Surveillance/Detection Capability attachment.
		Duty Time Restrictions	See Visual Surveillance/Detection Capability attachment.
		Single UAS Control	Yes
		UAS Description	The chase/observer and/or ground observer will be observing one UAV (NASA 870 Ikhana).
		Total Numbers of UAS Controlled	1
Special Circumstances		Special Circumstances	1. NASA DFRC Airworthiness and Flight Safety Review - Prior to flight, a detailed review of the airworthiness and flight safety of the structure, installation, and operation by NASA DFRC management per NASA DFRC Airworthiness and Flight Safety Review Guidelines DHB-X-001 and NASA DFRC Airworthiness and Flight Safety Review Process DCP-X-009 (see attached files under "Aircraft System - Other") will be conducted and passed.

Flight Operations Area/Plan

Type	User Defin Point	Loc ID	Degree	Distance	Latitude	Longitude	MSL Ceilin	MSL Floor
DEPARTURE					EDW-APT		0	
WAYPOINT					EDW-VORTAC		93	
WAYPOINT					EDW-VORTAC		318	
ARRIVAL					EDW-APT		0	

Total Map Attachment 1

Maximum	Minimum	Radius	SUA Description		
0		34-54-19.80N	117-53-01.24W	18000	0
20		34-57-51.12N	117-19-38.52W	29000	18000
23		35-16-02.16N	118-02-44.98W	29000	18000
0		34-54-19.80N	117-53-01.24W	29000	0
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