

		ASN	2008-WSA-72-COA
		Case Status	EXPIRED
		Date Created	11/25/2008
		Date Submitted	12/09/2008
Proponent Organization		Sponsor	NASA DFRC
		Attn Of	Lawrence Davis, Director of Flight Operations
		Address	P.O. Box 273
		Address2	MS 2802
		City	Edwards
		State	CA
		Postal Code	93523
		Telephone	(661) 276-2312
		Email	lawrence.r.davis@nasa.gov
Declaration		Declaration(a)	Yes
		Declaration(b)	Yes
Point of Contact		Representative	Matt S. Graham
		Address	P.O. Box 273
		Address2	MS 2134
		City	Edwards
		State	CA
		Postal Code	93523
		Telephone	(661) 276-3202
		Email	matt.s.graham@nasa.gov
Operational Description	Requested Effective Period	Beginning	
		End	
		Light out operation	No
		VFR operation	No
		IFR operation	Yes
		Day operation	Yes
		Night operation	Yes
		Program Executive Summary	NASA Global Hawk 872 will conduct flights for the Global Hawk Pacific Mission (GloPac) in support of the Aura Validation Experiment. GloPac will take place out of Dryden Flight Research Center beginning on March 15, 2009. Flights are expected to encompass Oakland Oceanic airspace and the US controlled Arctic region with a total of 4-5 flights, from 12-30 hours in duration.
		Operational Summary	In the NAS, flight altitudes will generally be between FL500 and FL650, with the exception of 3-5 dip maneuvers to descend down to FL440 and climb back up to cruise-climb altitude. Flight tracks in the Pacific Ocean will be bounded within the Oakland Oceanic Flight Information Region (FIR) and include Honolulu Center. A minimum of one flight will be conducted in the Arctic (above 80N latitude). This area is bounded within the Anchorage Oceanic, Continental, and Arctic FIRs. More details are in the Flight Operations Plan and Special Circumstances sections.
	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	Yes
		Class-G	
System Description		Aircraft Type	102154748 - Global Hawk
		Aircraft Type And Model Description Attachment	1
		Control Station Attachment	1
		Communications System Attachment	1
		List Certified Components (TSO) Attachment	1
		Other Attachment	0
Performance Characteristics		Climb Rate (feet/Minute)	3200
		Descent Rate (feet/Minute)	5000
		Turn Rate (Degrees/Second)	3
	Cruise Speed	Maximum	130
		Minimum	100
		Approach Speed	100
	Operating Attributes	Maximum MSL	65000
		Minimum MSL	0
		Gross Takeoff Wt	26500.0
		Launch/Recovery Attachment	1
Airworthiness		FAA Type Certificate	
		If No FAA Certificate (Public Aircraft Only) Attachment	1
Procedures		Lost Link/Mission Procedures Attachment	1

		Lost Communications Procedures Attachment	1
		Emergency Procedures Attachment	1
Avionics/Equipment		Equipment Suffix Type	1
		GPS	Yes
		Moving map indicator (Command Station)	Yes
		Tracking capability	No
		TCA/MCAS	No
		ELT	No
	Transponder	Transponder	Yes
		On	Yes
		Off	Yes
		Standby	Yes
		Ident	Yes
		Mode S	No
		Mode C	Yes
		Transponder Retuneable in Flight	Yes
Lights		Landing	Yes
		Position/Navigation	Yes
		Anti-collision	Yes
		Infrared (IR)	No
Spectrum Analysis Approval		Data Link	Yes
		Data Link Attachment	0
		Control Link(s)	Yes
		Control Link Attachment	0
		Operations utilizing Radio Control (R/C) frequencies as described in Title 47 CFR 95	No
		NTIA/FCC Authorization Attachment	1
ATC Communications	Transmitter VHF Band	VHF Band	Yes
		Quantity	1
		In-Flight Retunable	Yes
	Transmitter UHF Band	UHF Band	Yes
		Quantity	1
		In-Flight Retunable	Yes
	Transmitter HF band	HF Band	No
		Quantity	
		In-Flight Retunable	No
	Receiver VHF Band	VHF Band	Yes
		Quantity	1
		In-Flight Retunable	Yes
	Receiver UHF Band	UHF Band	Yes
		Quantity	1
		In-Flight Retunable	Yes
	Receiver HF band	HF Band	No
		Quantity	
		In-Flight Retunable	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	No
		Relay via aircraft	Yes
Electronic Surveillance/Detection Capability		EO/IR	No
		Terrain detection	No
		Weather/icing detection	Yes
		Radar	No
		Other Attachment	1
		Electronic detection systems	No

		Electronic detection systems attachment	0	
		Radar observation	Yes	
		NAS Operational Capability Attachment	1	
Visual Surveillance/ Detection Capability	Maximum Distance from UA	Vertical	0 Feet	
		Horizontal	0.0 Nautical Miles	
		Airborne based (Chase Aircraft)	No	
		Ground based	No	
		Visual observation from one or more ground sites	No	
		Forward or side looking cameras	No	
		Attachment for All	0	
Aircraft Performance Recording		Flight data recording	Yes	
		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	No	
		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		
		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	The 2009 GloPac has no requirement for Chase/observer operations in the NAS. All flight operations below FL180			
DOD certified/trained	No			
Other Certified Training	No			
Trained on FAR Part 91 Requirement	No			
DOD Certified Training Attachment	1			
Medical Certification Class (FAA or DOD equivalent)	3			
Currency Status	The 2009 GloPac has no requirement for Chase/observer operations in the NAS. All flight operations below FL180 (class A airspace) will be performed in the R-2508/R-2515 special use airspace (SUA).			
Duty Time Restrictions	The 2009 GloPac has no requirement for Chase/observer operations in the NAS. All flight operations below FL180 (class A airspace) will be performed in the R-2508/R-2515 special use airspace (SUA).			
Single UAS Control	Yes			
UAS Description				
Total Numbers of UAS Controlled	1			
Special Circumstances	Special Circumstances			

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		0	
ARRIVAL					DINTY-RP		0	

Total Map Attachment 1

Maximum	Minimum	ξ Radius	SUA Description		
0		34-54-30.80N	117-53-01.56W	18000	0
0		34-58-56.50N	117-43-57.38W	53000	18000
0		33-28-58.49N	122-35-02.38W	65000	45000
