

		ASN	2007-AHQ-13-COA	
		Case Status	EXPIRED	
		Date Created	02/26/2007	
		Date Submitted	04/20/2007	
Proponent Organization		Sponsor	NASA ARC	
		Attn Of	(b) (6)	
		Address	Aviation Management Office	
		Address2	Mail Stop 158-1	
		City	Moffett Field	
		State	CA	
		Postal Code	94035	
		Telephone	(b) (6) 3	
		Email	(b) (6)	
Declaration		Declaration(a)	Yes	
		Declaration(b)	Yes	
Point of Contact		Representative	(b) (6)	
		Address	NASA Ames Research Center, N260/112	
		Address2		
		City	Moffett Field	
		State	CA	
		Postal Code	94035	
		Telephone	(b) (6)	
	Email	(b) (6)		
Operational Description	Requested Effective Period	Beginning		
		End		
			Light out operation	No
			VFR operation	Yes
			IFR operation	No
			Day operation	Yes
			Night operation	No
			Program Executive Summary	Exploration Aerial Vehicle (EAV) Program provides low-cost low-risk flight test capability for validating flight control technologies in support of the IRAC (Intelligent Resilient Aircraft Controls) project and SFW (subsonic fixed-wing) project, in support of aviation research conducted under funding from the Aerospace Research Mission Directorate (ARMD).
			Operational Summary	The EAV will conduct flights with a frequency as high as twice per week during heavy testing, and as low as once per month during development phases. Flights will be conducted throughout the year and will vary with the given frequency, averaging around 30 flights per year. Each flight test date will consist of two flights. Each flight has a maximum duration of 30 minutes.
Location		State	CA	
		County	Santa Clara	
		Nearest Airport	MOFFETT FEDERAL AFDL	
		AOR	California - Northern	
Class Of Airspace		Class-A		
		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	
		Communications System Attachment	1	
		List Certified Components (TSO) Attachment	1	
		Other Attachment	0	
Performance Characteristics		Climb Rate (feet/Minute)	500	
		Descent Rate (feet/Minute)	500	
		Turn Rate (Degrees/Second)	45	
	Cruise Speed		Maximum	50
			Minimum	20
			Approach Speed	30
	Operating Attributes		Maximum MSL	2500
			Minimum MSL	0
		Gross Takeoff Wt	23.0	

		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	X
		GPS	Yes
		Moving map indicator (Command Station)	Yes
		Tracking capability	Yes
		TCA/MCAS	No
		ELT	No
	Transponder	Transponder	No
		On	
		Off	
		Standby	
		Ident	
		Mode S	
		Mode C	
		Transponder Retuneable in Flight	
Lights		Landing	No
		Position/Navigation	No
		Anti-collision	No
		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	Yes
		NTIA/FCC Authorization Attachment	1
ATC Communications	Transmitter VHF Band	VHF Band	Yes
		Quantity	1
		In-Flight Retunable	No
	Transmitter UHF Band	UHF Band	Yes
		Quantity	1
		In-Flight Retunable	No
	Transmitter HF band	HF Band	No
		Quantity	
		In-Flight Retunable	No
	Receiver VHF Band	VHF Band	Yes
		Quantity	1
		In-Flight Retunable	No
	Receiver UHF Band	UHF Band	Yes
		Quantity	1
		In-Flight Retunable	No
	Receiver HF band	HF Band	No
		Quantity	
		In-Flight Retunable	No
	Guard (Emergency) Frequencies VHF Band	VHF Band	No
		Quantity	

	Guard (Emergency) Frequencies UHF Band	UHF Band	No
		Quantity	
	Instantaneous Two-Way Voice	Direct to pilot	Yes
		SATCOM	No
		Relay via aircraft	No
Electronic Surveillance/ Detection Capability		EO/IR	No
		Terrain detection	No
		Weather/icing detection	No
		Radar	No
		Other Attachment	0
		Electronic detection systems	No
		Electronic detection systems attachment	0
		Radar observation	No
		NAS Operational Capability Attachment	0
Visual Surveillance/ Detection Capability	Maximum Distance from UA	Vertical	2500 Feet
		Horizontal	1.0 Nautical Miles
		Airborne based (Chase Aircraft)	No
		Ground based	Yes
		Visual observation from one or more ground sites	Yes
		Forward or side looking cameras	No
		Attachment for All	0
Aircraft Performance Recording		Flight data recording	Yes
		Control station recording	Yes
		Voice Recording	No
Flight Aircrew Qualifications	Pilots	Private (Written)	Yes
		Private (Certified)	No
		Instrument	No
		Commercial	No
		Air Transport	No
		Unique Trained Pilot	No
		Unique Trained Pilot Description	Manual R/C control by pilots.
		DOD certified/trained	No
		Other Certified Training	No
		Trained on FAR Part 91 Requirement	Yes
		Medical Certification Class (FAA or DOD equivalent)	3
		Currency Status	Primary pilot current. Research pilot current.
		Duty Time Restrictions	None.
		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	Ground-based observers.
		DOD certified/trained	No
		Other Certified Training	No
		Trained on FAR Part 91 Requirement	Yes

		DOD Certified Training Attachment	0
		Medical Certification Class (FAA or DOD equivalent)	3
		Currency Status	Observers current.
		Duty Time Restrictions	None.
		Single UAS Control	Yes
		UAS Description	
		Total Numbers of UAS Controlled	1
Special Circumstances		Special Circumstances	