

		ASN	2008-WSA-76-COA
		Case Status	EXPIRED
		Date Created	12/03/2008
		Date Submitted	12/15/2008
Proponent Organization		Sponsor	NASA ARC
		Attn Of	Mark Sumich
		Address	Aviation Management Office
		Address2	Mail Stop 158-1
		City	Moffett Field
		State	CA
		Postal Code	94035
		Telephone	(650)604-6193
		Email	mark.sumich@nasa.gov
Declaration		Declaration(a)	Yes
		Declaration(b)	Yes
Point of Contact		Representative	Stanley Herwitz
		Address	UAV Collaborative
		Address2	NASA Research Park MS 18-2
		City	Moffett Field
		State	CA
		Postal Code	94035
		Telephone	(650)604-2192
		Email	stanley.r.herwitz@nasa.gov
Operational Description	Requested Effective Period	Beginning	
		End	
		Light out operation	Yes
		VFR operation	Yes
		IFR operation	No
		Day operation	Yes
		Night operation	No
		Program Executive Summary	The Vision UAV will be operating at San Bernabe Vineyard for the purpose of NASA flight training and pilot proficiency activities, and for data acquisition for agricultural applications.
		Operational Summary	The frequency of the Vision UAV operations at San Bernabe Vineyard is expected to be approximately 1 to 2 times per month during the growing season. The number of Vision UAV flights at San Bernabe Vineyard is expected to be approximately 6 to 12 flights per operational deployment. The anticipated duration of each flight is expected to be approximately 6 to 12 minutes.
	Location	State	CA
		County	Monterey
		Nearest Airport	MEE MEMORIAL HOSPITAL
		AOR	California - Northern
	Class Of Airspace	Class-A	
		Class-B	
		Class-C	
		Class-D	
		Class-E	Yes
		Class-G	Yes
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)	1000
		Descent Rate (feet/Minute)	500
		Turn Rate (Degrees/Second)	60
	Cruise Speed	Maximum	45
		Minimum	0
		Approach Speed	10
	Operating Attributes	Maximum MSL	9000
		Minimum MSL	0
		Gross Takeoff Wt	30.0
		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	No
		Moving map indicator (Command Station)	No
		Tracking capability	No
		TCA/MCAS	No
		ELT	No
		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	No
		Quantity	
		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	No
		Quantity	
		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	No	
	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	1000 Feet
		Horizontal	0.75 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	1
Aircraft Performance Recording		Flight data recording	No
		Control station recording	No
		Voice Recording	No
Flight Aircrew Qualifications	Pilots	Private (Written)	Yes
		Private (Certified)	Yes
		Instrument	No
		Commercial	No
		Air Transport	No
		Unique Trained Pilot	No
		Unique Trained Pilot Description	PIC has passed the private pilot written exam and is a certified rotorcraft pilot.
		DOD certified/trained	No
		Other Certified Training	No
		Trained on FAR Part 91 Requirement	Yes
		Medical Certification Class (FAA or DOD equivalent)	2
		Currency Status	Current.
		Duty Time Restrictions	None.
		Single UAS Control	Yes
		UAS Description	
		Total Numbers of UAS Controlled	1
		Observers	
Private (Certified)	No		
Instrument	No		
Commercial	No		
Air Transport	No		
Unique Trained Pilot	No		
Unique Trained Pilot Description	N/A		
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)	2		
Currency Status	Current.		
Duty Time Restrictions	None.		
Single UAS Control	Yes		
UAS Description			
Total Numbers of UAS Controlled	1		
Special Circumstances		Special Circumstances	None.

Flight Operations Area/Plan

Type	User Defin Point	Loc ID	Degree	Distance	Latitude	Longitude	MSL Ceilin
USER DEFINED AREA	SBV		1				

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Total Map Attachment 1

<u>MSL Floor</u>	<u>Maximum</u>	<u>Minimum</u>	<u>S Radius</u>	<u>SUA Description</u>	
		36-08-50.00N		121-05-09.00W	1500

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