

		ASN	2007-AHQ-1-COA
		Case Status	EXPIRED
		Date Created	12/05/2006
		Date Submitted	02/14/2007
Proponent Organization		Sponsor	NASA JPL
		Attn Of	(b) (6)
		Address	Mail Stop 82-105
		Address2	4800 Oak Grove Dr.
		City	Pasadena
		State	CA
		Postal Code	91109
		Telephone	(818)354-1531
		Email	(b) (6)
Declaration		Declaration(a)	Yes
		Declaration(b)	Yes
Point of Contact		Representative	(b) (6)
		Address	Mail Stop 82-105
		Address2	4800 Oak Grove DR
		City	Pasadena
		State	CA
		Postal Code	91109
		Telephone	(818)354-1531
		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	
		Operational Summary	
	Location	State	CA
		County	San Bernardino
		Nearest Airport	SOUTHERN CALIFORNIA LOGISTICS
		AOR	California - Southern
	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)	600
		Descent Rate (feet/Minute)	600
		Turn Rate (Degrees/Second)	15
	Cruise Speed	Maximum	15
		Minimum	0
		Approach Speed	0
	Operating Attributes	Maximum MSL	4400
		Minimum MSL	2900
		Gross Takeoff Wt	75 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	No
		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	0
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	Yes
		SATCOM	No
		Relay via aircraft	No

Electronic Surveillance/ Detection Capability		EO/ R	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	1500 Feet
		Horizontal	0.6 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	Yes
		Control station recording	Yes
		Voice Recording	No
Flight Aircrew Qualifications	Pilots	Private (Written)	No
		Private (Certified)	No
		Instrument	No
		Commercial	No
		Air Transport	No
		Unique Trained Pilot	Yes
		Unique Trained Pilot Description	Our pilot has 30 years experience flying RC model aircraft and he has multiple flights with the JPL blimp.
		DOD certified/trained	No
		Other Certified Training	No
		Trained on FAR Part 91 Requirement	No
		Medical Certification Class (FAA or DOD equivalent)	3
		Currency Status	Our pilot averages 2-3 RC aircraft flights per month.
		Duty Time Restrictions	None
		Single UAS Control	Yes
		UAS Description	Air space at the flight location is controlled by the SCLA
		Total Numbers of UAS Controlled	1
	Observers	Private (Written)	No
		Private (Certified)	No
		Instrument	No
		Commercial	No
		Air Transport	No
		Unique Trained Pilot	Yes
		Unique Trained Pilot Description	Our ground obsrvers have operated the JPL blimp for over 3 years covering approximately 30 flights.
		DOD certified/trained	No
		Other Certified Training	No
		Trained on FAR Part 91 Requirement	No
		DOD Certified Training Attachment	0
		Medical Certification Class (FAA or DOD equivalent)	3
		Currency Status	N/A
		Duty Time Restrictions	None
		Single UAS Control	Yes
		UAS Description	Air space at the flight location is controlled by the SCLA
		Total Numbers of UAS Controlled	1

Special Circumstances		Special Circumstances	<ol style="list-style-type: none">1. Our point of contact at the Southern California Logistics Airport (SCLA) is (b) (6). He can be reached at (b) (6). Peter is cognizant and supportive of this CoA application and the kind of blimp test flights that we plan to do.2. All flight operations planned at SCLA are done under the cognizance and monitoring of the SCLA air traffic control.3. The pilot is able to toggle back and forth between teleoperation mode and autonomous flight mode at all times. Therefore, if problems develop with the autonomous control, he is able to switch back to teleoperation control immediately.
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