

		ASN	2011-CSA-65-COA
		Case Status	APPROVED
		Date Created	08/16/2011
		Date Submitted	08/23/2011
Proponent Organization		Sponsor	NIST
		Attn Of	Alexander Maranghides
		Address	100 Bureau Drive
		Address2	
		City	Gaitherburg
		State	MD
		Postal Code	20899
		Telephone	(301) 252-8747
		Email	alexander.maranghides@nist.gov
Declaration		Declaration(a)	Yes
		Declaration(b)	Yes
Point of Contact		Representative	Gene Robinson
		Address	290 Brunson Lane
		Address2	
		City	Wimberley
		State	TX
		Postal Code	78676
		Telephone	(512) 665-9990
		Email	gene@rpflightsystems.com
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	UA asset to be for utilized fire support, research, and in disaster mitigation. EO/IR/nearIR images will be collected for predictive fire/fuel analysis. Procedures for UA use under NIMS protocols will developed solely for fire mitigation.
		Operational Summary	Flights are on an "as needed" basis dependent upon weather. Average duration of flight 15-30 minutes.
	Location	State	TX
		County	Hays
		Nearest Airport	WINN RANCH
		AOR	Texas - Central
	Class Of Airspace	Class-A	
		Class-B	
		Class-C	
		Class-D	
		Class-E	
		Class-G	Yes
System Description		Aircraft Type	102154739 - Other
		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)	750
		Turn Rate (Degrees/Second)	5.0
	Cruise Speed	Maximum	62
		Minimum	34
		Approach Speed	34
	Operating Attributes	Maximum MSL	400
		Minimum MSL	200
		Gross Takeoff Wt	34.0
		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	2
		Emergency Procedures Attachment	1
Avionics/Equipment		Equipment Suffix Type	A

		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	No
		Data Link Attachment	0
		Control Link(s)	No
		Control Link Attachment	0
		Operations utilizing Radio Control (R/C) frequencies as described in Title 47 CFR 95	No
		NTIA/FCC Authorization Attachment	0
ATC Communications	Transmitter VHF Band	VHF Band	Yes
		Quantity	1
		In-Flight Retunable	Yes
	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	Yes
	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	Yes
		Quantity	1
	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	Yes
		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	400 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	Yes
		Attachment for All	2
Aircraft Performance Recording		Flight data recording	Yes
		Control station recording	Yes
		Voice Recording	No
Flight Aircrew Qualifications	Pilots	Private (Written)	Yes
		Private (Certified)	Yes
		Instrument	No
		Commercial	No
		Air Transport	No
		Unique Trained Pilot	Yes
		Unique Trained Pilot Description	Pilot shall have unique training by manufacturer in respect to UA operation and flight characteristics. Shall be NIMS certified 100, 300, 700
		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	Pilot in Command (PIC) shall maintain a Class II flight medical.
		Duty Time Restrictions	None
		Single UAS Control	Yes
		UAS Description	No multi-agent flights are intended under this COA
		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	Shall be NIMS certified 100, 300, 700
		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	Observers require a class II flight medical
		Duty Time Restrictions	None
		Single UAS Control	Yes
		UAS Description	n/a
		Total Numbers of UAS Controlled	1
Special Circumstances		Special Circumstances	Every circumstance shall be considered a special circumstance. No operations will be conducted without briefing and approval by the Incident Commander in each situation. Observers will be required to have a Class II flight physical.

Flight Operations Area/Plan

Type	User Defin Point	Loc ID	Degree	Distance	Latitude	Longitude	MSL Ceilin	MSL Floor
DEPARTURE								

Total Map Attachment 1

Maximum	Minimum	Radius	SUA Description		
	29-58-00.00N		98-06-37.00W	400	200

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3.0