

		ASN	2012-WSA-110-COA
		Case Status	EXPIRED
		Date Created	08/27/2012
		Date Submitted	08/27/2012
Proponent Organization		Sponsor	Seattle Police Department
		Attn Of	Reuben Omelanchuk
		Address	610 5 Ave
		Address2	PO Box 34986
		City	Seattle
		State	WA
		Postal Code	98124-4986
		Telephone	(206) 733-9364
		Email	omelanr@seattle.gov
Declaration		Declaration(a)	Yes
		Declaration(b)	Yes
Point of Contact		Representative	Reuben Omelanchuk
		Address	610 Fifth Avenue
		Address2	PO Box 34986
		City	Seattle
		State	WA
		Postal Code	98124
		Telephone	(206) 733-9364
		Email	omelanr@seattle.gov
Operational Description	Requested Effective Period	Beginning	
		End	
		Light out operation	No
		VFR operation	Yes
		IFR operation	No
		Day operation	Yes
		Night operation	Yes
		Program Executive Summary	<p>The objective of our program is to create a higher standard of safety for members of our community by utilizing the Draganflyer X6 Unmanned Aerial Vehicle in support of numerous Law Enforcement related functions which could include but are not limited to:</p> <ol style="list-style-type: none"> 1)Crash site related to interstate transport of hazardous materials 2)Crash site related to railroad transport of hazardous materials 3)Search & Rescue operations 4)Tactical support of Law Enforcement operations
		Operational Summary	<p>This COA is specifically submitted for "law enforcement only" training to be held during *** OCTOBER 1-4, 2012 *** at Camp Rilea, Warrenton, Oregon. The facilities will be occupied by first responders and any military personel assigned to that location. Operation of the Draganflyer X6 will be utilized in "Class G" and "Class D" airspace at or below 400 feet AGL. The aircraft will be used for flight training, operational testing and payload testing.</p> <p>The operation will launch and recover from property in which the Proponent controls or, where applicable, an agreement exists between the Proponent and the property owner to allow its use. Duration of each flight will be approximately 15 minutes, will not exceed a ceiling of 400 feet AGL, and the same locations will be during the specific week for training and evaluation purposes. The locations listed provide are ideal locations that can be controlled, secured and used throughout the week. The COA approved area will aid in training while mitigating any potential risk to people, property or wildlife.</p>
	Location	State	OR
		County	Clatsop
		Nearest Airport	CAMP RILEA AHP
		AOR	Oregon
	Class Of Airspace	Class-A	
		Class-B	
		Class-C	
		Class-D	
		Class-E	Yes
		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)	1380
		Descent Rate (feet/Minute)	780
		Turn Rate (Degrees/Second)	90.0
	Cruise Speed	Maximum	30
		Minimum	0
		Approach Speed	0
Operating Attributes		Maximum MSL	8000

		Minimum MSL	0
		Gross Takeoff Wt	3.3
		Launch/Recovery Attachment	1
Airworthiness		FAA Type Certificate	
		If No FAA Certificate (Public Aircraft Only) Attachment	2
Procedures		Lost Link/Mission Procedures Attachment	1
		Lost Communications Procedures Attachment	2
		Emergency Procedures Attachment	2
Avionics/Equipment		Equipment Suffix Type	D
		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	Yes
		Position/Navigation	Yes
		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	No
		Quantity	
		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	No
		Quantity	
		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

Electronic Surveillance/ Detection Capability		Relay via aircraft	No
		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	400 Feet
		Horizontal	0.25 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	1
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	Yes
		Unique Trained Pilot Description	Pilot Qualifications: UA pilots will have an understanding of and comply with Federal Aviation Regulations and Military Regulations applicable to the airspace where the UAS will operate. Pilots must have in their possession a current second class (or higher) airman medical certificate that has been issued under 14CFR 67, Medical Standards and Certification. 14CFR 91.17, alcohol or drugs, applies to UA pilots. UA Pilots will have completed a recognized private pilot ground school course and passed FAA Private Pilots basic knowledge test.
		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	Class 2 Medical exam renewed yearly
		Duty Time Restrictions	Restricted to daylight hours only
		Single UAS Control	Yes
		UAS Description	One Draganflyer X6 UAS only per pilot
		Total Numbers of UAS Controlled	1
	Observers	Private (Written)	Yes
		Private (Certified)	No
		Instrument	No
		Commercial	No
		Air Transport	No
		Unique Trained Pilot	No
		Unique Trained Pilot Description	Observer Qualifications: Observers will have met all pilot qualifications, with the exception of the Private Pilot Ground School requirement.
		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	Class 2 Medical exam renewed yearly
		Duty Time Restrictions	Restricted to daylight hours only
		Single UAS Control	Yes
		UAS Description	One Draganflyer X6 UAS only per observer
		Total Numbers of UAS Controlled	1

Special Circumstances		Special Circumstances	<p>A memorandum of understanding will exist between the Proponent and Camp Rilea, in which the limitations and acceptances of liability are defined.</p> <p>Prior to beginning any UAS activity, the area will be secured to mitigate any life safety or property damage.</p> <p>The Proponent acknowledges that the Pilot in Command and Observer will adhere to the specified Flight Aircrew Qualifications as specified.</p>
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Flight Operations Area/Plan

Type	User Defin Point	Loc ID	Degree	Distance	Latitude	Longitude	MSL Ceilin	MSL Floor
USER DEFINED ARE	Mock City		1					
USER DEFINED ARE	Range		1					
USER DEFINED ARE	Ball Field		1					

Total Map Attachment

Maximum	Minimum	ξ Radius	SUA Description		
	46-06-57.45N		123-56-16.15W	154	54
	46-07-14.24N		123-56-20.01W	154	54
	46-07-08.63N		123-56-02.78W	154	54

10	10	0.2
10	10	0.2
10	10	0.2