

		ASN	2012-WSA-45-COA
		Case Status	APPROVED
		Date Created	04/05/2012
		Date Submitted	04/09/2012
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>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 used throughout the year long COA for training and evaluation purposes. The locations listed provide are ideal locations that can be controlled, secured and used throughout the year. The COA approved area will aid in training while mitigating any potential risk to people, property or wildlife.</p>
	Location	State	WA
		County	King
		Nearest Airport	ELLIOTT PARK
		AOR	Washington
	Class Of Airspace	Class-A	
		Class-B	
		Class-C	
		Class-D	Yes
		Class-E	
		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)	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
		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
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	None	
	Single UAS Control	Yes	
	UAS Description	One Draganflyer X6 UAS only per pilot	
	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	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	None	
	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 one year agreement exists between the Proponent and the property owner of Camp Parsons location at Jackson Cove. The property owner has agreed to release the Proponent of any liability.</p> <p>A memo of understanding exists between the Proponent and the Washington State Patrol, owners of the North Bend Fire Training Academy, in which the limitations and acceptances of liability are defined.</p> <p>A one year agreement exists between the Proponent and the property owner of the Stoneway Quarry in Tukwila. The property owner has agreed to release the Proponent of any liability.</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	Discovery Park		1					
USER DEFINED ARE	Magnuson Park		1					
USER DEFINED ARE	Jackson Cove		1					
USER DEFINED ARE	WA Fire Trng Acdmy		1					
USER DEFINED ARE	Carkeek Park		1					
USER DEFINED ARE	Stoneway Tukw Quar		1					
USER DEFINED ARE	Smith Bros Farm		1					

Total Map Attachment 3

Maximum	Minimum	ξ Radius	SUA Description		
	47-39-38.29N		122-25-19.56W	681	281
	47-40-56.07N		122-14-58.94W	445	45
	47-44-45.60N		122-52-03.15W	400	0
	47-27-16.31N		121-39-44.20W	1951	1551
	47-42-40.54N		122-22-44.92W	400	0
	47-28-48.19N		122-14-19.21W	512	121
	47-21-24.54N		122-15-05.27W	440	40
