

		ASN	2011-WSA-105-COA-R
		Case Status	CANCEL_CASE
		Date Created	10/12/2011
		Date Submitted	10/12/2011
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	reuben.omelanchuk@seattle.gov
Declaration		Declaration(a)	Yes
		Declaration(b)	Yes
Point of Contact		Representative	James Britt
		Address	610 5 Ave
		Address2	
		City	Seattle
		State	WA
		Postal Code	98104
		Telephone	(206) 684-5497
		Email	james.britt@seattle.gov
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	<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" 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, remain within, and recover from City of Seattle controlled and owned property. Duration of each flight will be approximately 15 minutes, will not exceed a ceiling of 400 feet AGL, and the same location will be used throughout the year long COA for training purposes. The city property mentioned above provides an ideal controlled atmosphere for training. The training ground contains hilly terrain, non-occupied vehicles, and buildings. The COA approved area will aid in training without 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	
		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	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)	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	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 one year agreement exists between the City and the property owner of the Parson's Pier location at Jackson Cove. The property owner has agreed to release the City of any liability. This location is the primary training location. The City owned property is to be considered the secondary training location. Prior to beginning any activity with the UAS, the police will depopulate the area and will advise the surrounding areas of the activity.</p> <p>The proponent acknowledges that the Pilot in Command and Observer will have a valid FAA Class 2 Medical or Greater issued under 14 CFR part 67, and to have it in their possession before UAS operations begin.</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					

Total Map Attachment 3

Maximum	Minimum	ξ Radius	SUA Description		
	47-39-40.05N		122-25-40.03W	400	143
	47-40-45.52N		122-15-02.57W	400	0
	47-44-46.14N		122-51-54.81W	400	0

3	0	0.25
3	0	0.25
3	0	0.5