



NORTHAMPTON POLICE DEPARTMENT

Jody D. Kasper
CHIEF OF POLICE



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July 31, 2020

Trevor Eckhart

Westfield, MA 01085

Dear Mr. Eckhart:

This is in response to your public records request dated July 24, 2020 in which you requested:

- All policies regarding Northampton Police use of drone deployment.
- All policies regarding keeping of statistics, video, and data concerning the use of drones
- All data kept regarding the deployment of drones within the department. This includes any data on how they are used and flight logs.

- All policies regarding Northampton Police use of Amazon's Ring Doorbell network or neighbor's app
- All policies regarding keeping of statistics, video and data concerning the use of consumer grade surveillance doorbell devices.
- All data kept regarding the use of Amazon's Ring Doorbell/Neighbors App. This includes how they are being utilized

- All policies regarding Northampton Police use of automated license plate reader technology
- All policies regarding keeping of statistics and data concerning the use of Automated License Plate Reader Technology.

I have attached a copy of the Northampton Police Department's Flight Logs and a copy of the department's policy on the use of drones.

I must inform you that Northampton Police Department does not use Amazon's Ring Doorbell/Neighbors App. Nor does this department use Automated License Reader Technology. Therefore there are no records of such.

If you have any further questions regarding this, please contact me.

Sincerely,

A handwritten signature in blue ink that reads "Jane Lawnicki". The signature is written in a cursive style with a large initial "J".

Jane Lawnicki

Records Supervisor

Northampton Police Department


NORTHAMPTON POLICE DEPARTMENT Administration & Operations Manual		
Policy: Small Unmanned Aircraft Systems		AOM: O-506
Massachusetts Police Accreditation Standards Referenced:		Issuing Authority Jody Kasper Chief of Police
Dissemination Date: 12/14/2016	Amended: 12/17, 2/20*	
Effective Date: 12/14/2016	Reviewed: 12/18	

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I. Purpose

This policy is intended to provide authorized officers assigned responsibilities associated with the deployment and use of small unmanned aircraft systems (sUAS) with instructions on when and how this technology and the information it provides may be used for law enforcement and public safety purposes in accordance with law.

II. Policy

It is the policy of this department that duly trained and authorized agency personnel may deploy the sUAS when such use is appropriate in the performance of their official duties, and where deployment use, the collection, and use of any audio/video recordings or other data originating from or generated by the sUAS, comport with the policy provisions provided herein and applicable law.

III. Definitions

1. Digital Multimedia Evidence (DME): Digital recording of images, sounds, and associated data.
2. Model Aircraft: A remote controlled aircraft used by hobbyists that is built, produced, manufactured, and operated for the purposes of public safety, sport, recreation, and/or competition.
3. Unmanned Aircraft (UA) or Unmanned Aerial Vehicle (UAV): An aircraft that is intended to navigate in the air without an on-board pilot. Also alternatively called Remotely Piloted Aircraft (RPA), Remotely Operated Vehicle (ROV), or Drone.
4. Unmanned Aircraft System (UAS): A system that includes the necessary equipment, network, and personnel to control an unmanned aircraft.
5. Small Unmanned Aircraft Systems (sUAS): UAS system that utilize UAV's weighing more than .55 pounds and less than 55 pounds and are consistent with the Federal Aviation Administration (FAA) regulations governing model aircraft.

6. UAS Flight Crewmember: A pilot, visual observer, payload operator, maintenance technician or the person assigned duties for a UAS for the purpose of flight training exercises.
7. Unmanned Aircraft Pilot: A person who exercises control over a UA/UAUVG/UAS during flight.
8. Night Time Flight: A deployment which occurs in time between the end of evening civil twilight and the beginning of morning civil twilight
9. Aircraft Lighting: The sUAS is equipped with a white strobe light that is visible 360 degrees for a minimum of 3 statute miles at night. This light is mounted directly to the top of the sUAS and is powered by an independent battery system. The sUAS is equipped with navigation light system with red LED lights observable from the front of the sUAS and green LED lights observable from the rear to allow the PIC to maintain orientation while in flight. A flashing status light is also visible from the rear of the sUAS providing information on the aircraft positioning status and battery level status. In addition to the manufacturer installed lighting system, the sUAS will also be equipped with a red LED strobe on the left side of the sUAS, a green LED strobe light on the right side of the sUAS, and a white LED strobe light on the rear of the sUAS. These strobes have been shown to meet the requirement of 3 statute miles referenced in 14 CFR part 107.29 and provide effective orientation lighting.

IV. Procedures

All deployments of sUAS must be specifically authorized by the OIC or sUAS Supervisor. The Northampton Police has adopted the uses of sUAS to provide an aerial visual perspective in responding to emergency situation and exigent circumstances, and for the following objectives:

1. Situational Awareness: To assist Incident Command in understanding the nature, scale, and scope of an incident and/or for planning and coordinating an effective response.

2. Search and Rescue: To assist missing person investigations, Amber alerts, and other search and rescue missions.
3. Tactical Deployment: To support the tactical deployment of officers and equipment in emergency situations (e.g., Incident involving hostages and barricades, support for large tactical operations, and temporary perimeter security situations).
4. Visual Perspective: To provide an aerial visual perspective to assist officers in providing direction for crowd control, traffic incident management, and temporary perimeter security.
5. Scene Documentation: To document a crime scene, accident scene, or other major scene (e.g., disaster managing, incident response, large scale forensic investigation).

V. Procedures of sUAS USE:

The Northampton Police must obtain applicable authorizations, permits, or certificates required by the Federal Aviation Administration prior to deploying or operating the sUAS, and these authorizations, permits, and certifications shall be maintained and current.

1. The sUAS will be operated only by personnel (pilots and crewmembers) who have been trained and certified in the operation of the system.
2. The sUAS pilot in command shall follow flight notification procedures in accordance with the FAA waiver assigned to the department.
3. The sUAS pilot shall notify Northampton Airport (7B2) prior to the deployment of the sUAS and describe the area of deployment and approximate flight time. The date/time and representative at the FBO (Fixed Base Operator) shall be recorded by the sUAS pilot. Upon the conclusion of sUAS operations, the sUAS pilot shall again notify Northampton Airport and advise that sUAS operation has been terminated.

4. All sUAS certified personnel shall inspect and test sUAS equipment prior to deployment to verify the proper functioning of all equipment and airworthiness of the devices.
5. The sUAS equipment is the responsibility of the assigned officer(s) and will be used with reasonable care to ensure proper functioning. Equipment malfunctions shall be brought to the attention of the sUAS Supervisor.
6. The sUAS equipment and all data, images, video, and metadata captured, recorded, or otherwise produced by the equipment is the sole property of the Northampton Police Department.
7. All flights will be documented on a form or database designed for that purpose, and all flight time shall be accurately recorded. In addition, each deployment of the sUAS shall include information regarding the reason for the flight; time, date, and location of the flight; the name of the supervisor approving the deployment and the staff assigned; and a summary of the activities covered, actions taken, or outcomes from the deployment.
8. Except for those instances where officer safety or investigation could be jeopardize and where reasonably possible and practical, agencies should consider notifying the public.
9. Where there are specific and articulable grounds that the sUAS will collect evidence of criminal wrong doing and/or if the sUAS will be used in a manner that may intrude upon reasonable expectations of privacy, the agency will obtain a search warrant prior to conducting the flight.
10. Where the deployment is conducted at night, the landing pad will include lighting that allows the pilot to locate the landing area using the sUAS camera and orient for a safe descent to landing. This includes 1 steady amber light indicating takeoff direction

orientation and three flashing red lights for landing pad identification. The takeoff/landing area will be dimly lit so as to not degrade flight crew night vision. All flight crew members will wear high visibility vests in the vicinity of the takeoff/landing area for easy identification during the flight operation.

11. The primary takeoff/landing area will have a perimeter marked with four (4) illuminated orange cones in a perimeter of 30 feet surrounding the illuminated landing pad. No persons are to be inside of the perimeter without authorization of the PIC. No takeoff, approach, or landing will be conducted if any person enters the 30-foot perimeter around the takeoff/landing pad. This area will be constantly monitored by the PIC or assigned ground support personnel.

VI. DME Retention and Management:

1. All DME (Digital Multimedia Evidence) shall be handled in accordance with existing policy on data and records retention. (AOM S-200).
2. All DME shall be securely downloaded at the completion of each mission. The sUAS certified operators will record information on the file that shall include the date, time, location, and case reference numbers or other identifiers and identity of the sUAS personnel involved in the mission.
3. Officers shall not edit, alter, erase, duplicate, share, or otherwise distribute any sUAS DME without prior authorization and approval of the sUAS Supervisor.
4. All access to the sUAS DME must be specifically authorized by the sUAS Supervisor his or her designee and all access is to be audited to ensure that only authorized users are accessing the data for legitimate and authorized purposes.

5. Files shall be securely stored in accordance with department policy and retention laws.

VII. Supervision and Reporting

1. The sUAS supervisor shall manage all deployments and uses of the sUAS to ensure that officer(s) equipped with sUAS devices utilize them in accordance with policy and procedure defined herein.
2. An authorized sUAS supervisor or administrator will audit flight documentation and maintenance.
3. The sUAS supervisor of his/ her designee shall publish an annual report documenting the agency's deployment and use of the sUAS device.
4. The sUAS Pilot in Command shall be responsible for immediately reporting to the FAA in compliance with the FAA, Part 107, any crashes or collisions involving the aircraft and shall also immediately notify the OIC who shall notify the sUAS supervisor and Captain of Operations. The Pilot in Command and any sUAS crew member(s) present during the crash shall complete an incident report and forward it to the sUAS supervisor.

VIII. Restricting on using the sUAS use:

1. The sUAS shall not be operated in an unsafe manner or in violation of Federal Aviation Administration (FAA) regulations.
2. The sUAS shall not be equipped with any weapons.

IX. Qualifications and Training

1. Police personnel who are assigned to deploy the sUAS must complete an agency approved training program to ensure proper use and operation.

2. Additional training may be required at periodic intervals to ensure the continued effective use, operation, proper calibration, and performance of the equipment to incorporate changes.
3. All agency personnel with sUAS responsibility, including command, shall also be trained in local and federal laws and regulations, as well as this policy governing the use of sUAS.
4. sUAS Flight Crew Member selection will be accordance with existing policy AOM A-112 (Specialized Assignments).
5. Any persons utilized as a required flight crew member for night operations will be required to successfully pass a 10 question, multiple choice test regarding these night illusions prior to being authorized to act as a PIC, or VO, for night operations.

X: Storage

1. The sUAS shall be stored in a locked hard case in the Incident/Training Room (209). Access to the case will be to all agency personnel assigned to the sUAS Unit.

XI: Maintenance

1. The sUAS shall have a regular maintenance schedule in place that is in accordance with the recommendations set forth by the sUAS manufacture for the specific aircraft, payload, intelligent batteries, and firmware. Maintenance to the sUAS and accessories shall be recorded in a digital maintenance log with restricted access to sUAS personnel and the Chief or her/his designee.

The sUAS supervisor shall oversee the maintenance of the sUAS and conduct monthly audits of maintenance records. The sUAS supervisor shall assign a Maintenance Technician within the sUAS special assignment to conduct all maintenance associated with the sUAS and record keeping of maintenance conducted on the sUAS.

2020 PHANTOM 4 MALFUNCTION REPORTS

Date	Name	Location	Category	Description
11/15/20	1100	Quail Run	Phantom	malfunction on start up and failed start. Prop Only damaged

2019 DJI PHANTOM 4 FLIGHT LOG

Date	Aircraft	Ident/FAA#	Case#	Location	Coordinates	Max Altitude	Launches	Recoveries	Total Flight Time (minutes)	Training Time (minutes)	PIC	Observer	Battery#	Notes
1/3/2019	DJI Phantom 4	FA3NRLLTCY	10-28-cl	51 village Hill	42° 18' 44.874" N, 72° 38' 49.8932" W	381	1	1	4	10	106	189	1	Murder/Suicide scene
2/12/2019	DJI Phantom 4	FA3NRLLTCY	19-85-ac	Pleasant St	42° 19' 2.7812" N, 72° 37' 33.96" W	102	1	1	5	10	106	189	2	Pedestrian Accident
3/2/2019	DJI Phantom 4	FA3NRLLTCY	Blamey	UMASS Amherst	42° 23' 28.16" N 72° 31' 38.1586" W	348	7	7	63		189	204	1,2,3	Blamey
3/25/2019	DJI Phantom 4	FA3NRLLTCY	19-115-AC	492 Easthampton Road	42° 17' 54.0168" N 72° 39' 22.9104" W	200	1	1	10	10	189	191	1	Serious MYC
4/4/2019	DJI Phantom 4	FA3NRLLTCY		Elks Club Body	42° 19' 52.788" N, 72° 40' 49.9332" W	132	1	1	5	10	106	189	3	Unattended Death
4/4/2019	DJI Phantom 4	FA3NRLLTCY		Elks Club Body	42° 19' 52.788" N, 72° 40' 49.9332" W	390	1	1	12	15	189	106	2	Unattended Death
4/19/2019	DJI Phantom 4	FA3NRLLTCY	19-836-OF	Merien Street	42° 21' 21.1792" N 72° 38' 49.2252" W	390	3	3	34	40	189	170	1,2,3	Missing Person
5/16/2019	DJI Phantom 4	FA3NRLLTCY	19-1033-OF	Turkey Hill Quarry	42°18'36.36"N, 72°43'46.18"W	400	3	3	37	60	204,196,236	106,236	1,2,3	Missing Person/Suicidal/Unknown Location. 3 PIC in order listed.
5/27/2019	DJI Phantom 4	FA3NRLLTCY	19-1130-OF	Hockanum Rd Meadows	42°18'07.3"N 72°37'07.8"W	53	1	1	15	15	189	228	3	Vehicle Fire
7/15/2019	DJI Phantom 4	FA3NRLLTCY		Pine Street Arts Building	42° 19' 53.148" N, 72° 40' 47.3796" W	309	1	1	11	10	106		1	Roof inspection for foreign materials
7/19/2019	DJI Phantom 4	FA3NRLLTCY		Belchertown Police	42° 16' 18.2928" N, 72° 25' 52.8924" W	393	1	1	11	15	106	students	3	Belchertown Youth Police Academy
9/7/2019	DJI Phantom 4	FA3NRLLTCY	19-947-AC	525 Mt. Tom Road	42°17'32.7"N 72°37'07.6"W	185	1	1	4	15	189	106	1	Drone Deploy for Serious Crash
9/11/2019	DJI Phantom 4	FA3NRLLTCY		Arcanum Field	42° 20' 45.4668" N, 72° 40' 12.9828" W	302	7	7	30	43	189	106	128	Training Flights on Flight modes and skills/ Communication involvement as well
9/18/2019	DJI Phantom 4	FA3NRLLTCY		Meadow Street	42° 20' 5.1612" N, 72° 40' 50.412" W	138	3	3	37	47	106	187	1,2,3	Drone Deploy testing
9/19/2019	DJI Phantom 4	FA3NRLLTCY		Union Station	42° 19' 5.394" N, 72° 37' 35.6504" W	227	3	3	10	35	204	106	1,2,3	IACP Prep, Train Station
9/19/2019	DJI Phantom 4	FA3NRLLTCY		Parking Garage	42° 19' 4.404" N, 72° 37' 48.2484" W	368	3	3	37	50	204	106	1,2	IACP Prep.
9/26/2019	DJI Phantom 4	FA3NRLLTCY	None	Village Hill	42°18'35.25"N 72°38'46.95"W	393	1	1	15	20	204	189	1	DPW Tree documentation for Tree Warden
10/5/2019	DJI Phantom 4	FA3NRLLTCY	None	City Hall	42° 18' 4.234" N, 72° 37' 55.1496" W	116	2	2	15	30	106	189	1,2,3	Gutter inspection
10/5/2019	DJI Phantom 4	FA3NRLLTCY	None	Round House Lot	42° 18' 59.9544" N, 72° 37' 56.0784" W	319	2	2	15	30	189	106	1,2,3	Imaging and Drone Deploy Training.
10/13/2019	DJI Phantom 4	FA3NRLLTCY	none	NPD	42° 19' 55.4664" N, 72° 38' 2.764" W	395	7	7	23	40	106		1,2,3	NFD Open House
10/19/2019	DJI Phantom 4	FA3NRLLTCY	None	Chicopee St @ Springfield St	42°09'03.4"N 72°38'28.1"W	100	1	1	10	30	189	106	1	Homicide Suspect Search for MSP
11/25/2019	DJI Phantom 4	FA3NRLLTCY	none	25 Main St, Northampton	42°19'12.84" N 72°37'44.81"W	110	1	1	2	5	204	247	1	Possible Elec prob on roof canceled due to pigeon hazard
FLIGHTS: 33														
FLIGHT TIME: 6.4 hours														
TRAINING TIME: 9 hours														

**NORTHAMPTON POLICE sUAS UNIT
2019 DJI INSPIRE 1V.2 FLIGHT LOG**

Date	Aircraft	Ident/FAA#	Case#	Location	Coordinates	Launches	Recoveries	Max Altitude FT (AGL)	Total Flight Time (minutes)	Training Time (minutes)	PIC	Observer	Battery#	Notes
3/2/2019	Inspire 1v.2	FA33CWF9MM	Blamey	UMASS Amherst	42° 23' 28.18" N 72° 31' 36.159" W	3	3	342 FT	19		204	189	1,2,3,4	UMASS- Proactive flights to monitor campus
4/19/2019	Inspire 1v.2	FA33CWF9MM	19-838-OF	Marian Street	42° 21' 21.1752" N 72° 38' 49.2552" W	1	0	265FT	14		189	170	2	Missing person, Drone damaged by tree, sent for repairs.
5/27/2019	Inspire 1v.2	FA33CWF9MM	Test Flight	Spare Time Bowl	42° 18' 39.5208" N, 72° 37' 28.2036" W	1	1	179	7	20	189	106	148	Post repair test flight
11/13/2019	Inspire 1v.2	FA33CWF9MM	19-34898	Dexter Park, Orange	42° 34' 41.88" N 72° 15' 59.616" W	2	2	399FT	15		236	Orange PD Erving FD	3,4	Assist Orange PD with missing person search

TOTAL FLIGHTS: 4
TOTAL FLIGHT TIME: 55 Minutes
TOTAL TRAINING TIME: 20 Minutes

NORTHAMPTON POLICE sUAS UNIT

2019 DJI Mavic FLIGHT LOG

Date	Aircraft	Ident/FAA#	Case#	Location	Coordinates	Launches	Recoveries	Max Altitude FT (AGL)	Total Flight Time (minutes)	Training Time (minutes)	PIC	Observer	Battery#	Notes
1/30/2019	DJI MAVIC	NPC047ADNRLLT GT	19-1-AC	Bridge Street School	42.318203, -72.628851	7	7	197	21	40	100			Crime Scene documentation and evidence search.
3/28/2019	DJI MAVIC	NPC047ADNRLLT GT	Test Flight	NHS	42.505818, -72.651903	3	3	148	10	8	100			Fixed landing issue and FIR training.
11/13/2019	DJI MAVIC	NPC047ADNRLLT GT	19-34828	Dexter Park, Orange	42° 34' 41.88" N 72° 19' 59.535" W	3	3	399	10	10	200	Orange PD		Missing person search, assist Orange PD/EO
TOTAL FLIGHTS: 3														
TOTAL FLIGHT TIME: 41 minutes														
TOTAL TRAINING TIME: 58 minutes														

NORTHAMPTON POLICE sUAS UNIT
2019 DJI Spark FLIGHT LOG

Date	Aircraft	Ident/FAA#	Case#	Location	Coordinates	Launches	Recoveries	Max Altitude FT (AGL)	Total Flight Time (minutes)	Training Time (minutes)	PGC	Observer	Battery#	Notes
1/22/2019	Spark	FAA#38MCL F	none	2 Parsons Street		1	1	173	4	10	108		4	replanning of school intersection
3/20/2019	Spark	FAA#38MCL F	none	ndd	no GPS	1	1	7	3	10	108		2	CPA Drone class
TOTAL FLIGHTS: 2														
TOTAL FLIGHT TIME: 7 minutes														
TOTAL TRAINING TIME: 20 minutes														

NORTHAMPTON POLICE sUAS UNIT
2018 DJI INSPIRE 1V.2 FLIGHT LOG

Date	Aircraft	Ident/FAA#	Case#	Location	Coordinates	Launches	Recoveries	Max Altitude FT (AGL)	Total Flight Time (minutes)	Training Time (minutes)	PIC	Observer	Battery#	Notes
1/29/2018	Inspire	NPD 2/FA33CWF9 MM	18-3594	Ellerbrook Field, Dog Park	42°18'42.1"N, -72°39'11.0"W	2	2	215	15	45	236	None	3	Training flight, thermal camera familiarization.
2/6/2018	Inspire 1v.2	NPD/2FA33C WF9MM	None	Oxbow, Northampton	42°18'42.1"N, -72°39'11.0"W	3	3	393	19	60	236	187	2, 3	Training flight w/thermal camera.
2/14/2018	Inspire 1v.2	NPD 2/FA33CWF9 MM	DTF	2 Ferry St, Easthampton	42°18'19.10", -72°36'42.70	7	7	399	58	120	204	106	1, 2, 3, 4	Assist DTF with situational awareness
2/23/2018	Inspire 1v.2	NPD 2/FA33CWF9 MM	18-6590	N. Elm Street (St. Mary's)	42° 20' 14.6668" N, -72° 39' 25.866" W	2	2	377	30	60	189	187	1, 2	Assist with looking for missing dog, FLIR system utilized
2/24/2018	Inspire 1v.2	NPD 2/FA33CWF9 MM	Training	Oxbow, Northampton	42°17'20"N, -72°37'47" W	2	2	395	9	20	236	None	3, 4	Training
2/27/2018	Inspire 1v.2	NPD 2/FA33CWF9 MM	Training	Oxbow, Northampton	42°17'20"N, -72°37'47" W	2	2	395	12	20	204	106	2	Training with "Precisionflight". Drone did not complete mission. YouTube Live Link training was successful.
3/3/2018	Inspire 1v.2	NPD 2/FA33CWF9 MM	Amherst Mutual Aid	Puffton Village Dr, Amherst (Puffton Village)	42°24'19" N, -72°31'59" W	4	4	389	36	240	204	153	1, 2, 3, 4	Amherst Mutual Aid for "Blamey Blow Out". Scene assesment and public safety. Used YouTube live, worked once out of 4 launches.
4/26/2018	Inspire 1v.2	NPD 2/FA33CWF9 MM	Survey Homeless Camps	Lyman Rd, Northampton	42°18'23" N, -72°37'46" W	2	2	389	25	30	236	None	1, 2	Surveying homeless camps off Lyman Rd area.
5/17/2018	Inspire 1v.2	NPD 2/FA33CWF9 MM	Assist NFD searching for fire/smoke	Burts Pit Rd, High Meadow Rd, Florence	42°18'49" N, -72°39'34" W	2	2	400	25	35	236	260, NFD	3, 4	Heavy smoke in a large area. FLIR utilized to search for heat source.
7/3/2018	Inspire 1v.2	NPD 2/FA33CWF9 MM	Training	17 Pine Street Florence	42° 19' 51.9564" N, 72° 40' 46.56" W	4	4	385	16	20	106	None	1, 2, 3, 4	Training with both lenses.
7/30/2018	Inspire 1v.2	NPD 2/FA33CWF9 MM	Community event	Smith College -Jon Carls	42° 18' 58.68" N, 72° 38' 28.9572" W	2	2	396	15	30	106	189	3	Flir Demonstration for Jon Carls' class at Smith College
8/7/2018	Inspire 1v.2	NPD 2/FA33CWF9 MM	Training	Meadow Street	42° 20' 5.1" N, 72° 40' 49.998" W	2	2	395	11	30	106	None	1	Communication and Imaging testing
8/26/2018	Inspire 1v.2	NPD 2/FA33CWF9 MM	Community Policing	Ryan Road School	42° 19' 4.116" N, 72° 41' 37.7196" W	1	1	259	6	20	106	None	1	Training flight for landing and travel mode issues while community policing- Kids playing at Ryan Road School
9/1/2018	Inspire 1v.2	NPD 2/FA33CWF9 MM	Crime Scene	Cross Path Road	42° 19' 8.6304" N, 72° 36' 59.2272" W	5	5	395	45	60	106	189	1, 2, 3, 4	Search for suspect in corn field- Night Flight (FLIR)
9/19/2018	Inspire 1v.2	NPD 2/FA33CWF9 MM	Search and Rescue	Mil River/Maines Field	42° 19' 41.052" N, 72° 40' 11.62" W	3	3	228 ft	39	60	189	236	1, 2, 3, 4	Search for Missing Person (FLIR)
10/11/2018	Inspire 1v.2	NPD 2/FA33CWF9 MM	18-590-AR	Chemplastica	42° 19' 49.23" N, 72° 40' 28.20"	1	1	369ft	7	10	204	189	3	Search for wanted person from Domestic A&B, (FLIR)
12/24/2018	Inspire 1v.2	NPD 2/FA33CWF9 MM	Suspect Search	Holyoke	42° 16' 23.196" N, 72° 36' 15.4008" W	4	4	396	31	50	204	106	2, 3, 4	Search for bank robbery suspect using FLIR
12/29/2018	Inspire 1v.2	NPD 2/FA33CWF9 MM	Search for missing Dog	Mountain St @ Rocks Rd, Hatfield	42° 23' 54.042" N 72° 39' 20.5484" W	1	1	355	12	12	204	106	2	Search for missing dog using FLIR
TOTAL DEPLOYMENTS: 18														
TOTAL FLIGHT TIME: 6 hours 51 min														
TOTAL TRAINING TIME: 15 hours 22 min														

2018 DJI PHANTOM 4 FLIGHT LOG

Date	Aircraft	Ident/FAA#	Case#	Location	Coordinates	Max Altitude	Launches	Recoveries	Total Flight Time (minutes)	Training Time (minutes)	PIC	Observer	Battery#	Notes
1/20/2018	DJI Phantom 4	NPDI/FA3NRL LTCY	18-149-OF	Leeds School/ Bike Path	42° 21' 3.48" ; -72° 41' 51.49" W	302ft	2	2	10	20	189	106	3	B&E Scene Imagry
1/20/2018	DJI Phantom 4	NPDI/FA3NRL LTCY	18-149-OF	Florence Fields Recreation Area	42° 20' 5.03" ; -72° 40' 50.44" W	331ft	2	2	7	20	189	106	2	B&E Scene Imagry
1/20/2018	DJI Phantom 4	NPDI/FA3NRL LTCY	18-149-OF	Florence Fields Recreation Area	42° 20' 5.03" ; -72° 40' 50.44" W	194ft	2	2	10	20	189	106	3	B&E Scene Imagry
1/20/2018	DJI Phantom 4	NPDI/FA3NRL LTCY	18-149-OF	198 Pine St, Florence	42° 19' 51.69" ; -72° 40' 35.48" W	312ft	2	2	9	20	189	106	2	B&E Scene Imagry
2/2/2018	DJI Phantom 4	NPDI/FA3NRL LTCY	17-270-OF	296 Nonotuck St, Florence	Indoor Flight	22ft	2	2	6	20	204	None	1	Flight inside of large warehouse to document crime scene.
2/14/2018	DJI Phantom 4	NPDI/FA3NRL LTY	Assist Other Agency	2 Ferry St, Easthampton	42° 18' 19" N - 72° 36' 42" W	395 Ft	4	4	34	60	204	106	1,2,3	Situational awareness, assist DTF
2/27/2018	DJI Phantom 4	NPDI/FA3NRL LTY	N/S	Oxbow Marina, Northampton	42° 17' 24" N, -72° 37' 39" W	200	2	2	18	60	106	204	2,3	Precision Mapper testing
3/24/2018	DJI Phantom 4	NPDI/FA3NRL LTY	Protest	Main Street	42° 19' 11.5392" N, 72° 37' 54.8616" W	372'	1	1	10	45	106	n/a	1	Video and Images of large protest for security
4/28/2018	DJI Phantom 4	NPDI/FA3NRL LTY	Community	Haldey Loves	42° 21' 14.4" N, 72° 33' 49.32" W	329	6	6	18	3 hours	106		1,2,3	Public Safety event
5/3/2018	DJI Phantom 4	NPDI/FA3NRL LTY	18-145-83	Potash Rd, Northampton	42° 18' 22.6152" N - 72° 37' 43.4596" W	394 Ft	1	1	18	30	204	N/A	2	Survey property lines and homeless tents.
5/25/2018	DJI Phantom 4	NPDI/FA3NRL LTY	18-1195-of	1095 Florence Road	42° 17' 39.282" N, 72° 40' 25.6944" W	267	3	3	20	30	106	171	3	Precision Mapper File Creation
6/3/2018	DJI Phantom 4	NPDI/FA3NRL LTY	18-1249-of	259 Elm St	42° 19' 25.2444" N, 72° 39' 15.7536" W	241	1	1	8	15	106	None	2	Images of case location
6/25/2018	DJI Phantom 4	NPDI/FA3NRL LTY	18-1448-of	135 Main Street Leeds	42° 20' 51.2808" N, 72° 41' 56.3244" W	400	2	3	17	20	106	None	3	Fire Investigation
7/3/2018	DJI Phantom 4	NPDI/FA3NRL LTY	MSP	Hatfield	42° 17' 41.496" N, 72° 37' 54.7896" W	264	5	5	49	20	204	106	1,2,3	Homicide Investigation
7/3/2018	DJI Phantom 4	NPDI/FA3NRL LTY	MSP	Meadowbrook	42° 20' 24.0088" N, 72° 39' 44.3916" W	394	6	6	40	20	106	204	1,2,3	Homicide Investigation
7/3/2018	DJI Phantom 4	NPDI/FA3NRL LTY	MSP	West Springfield	42° 8' 14.4348" N, 72° 37' 12.864" W	309	1	1	4	15	106	None	1	Homicide Investigation
7/18/2018	DJI Phantom 4	NPDI/FA3NRL LTY	DPW	205 Rockyhill	43° 18' 21.5028" N, 72° 39' 29.7792" W	246	3	3	14	30	106	204	1,2,3	Mapping of sink hole for DPW including Geo Referenced images.
7/19/2018	DJI Phantom 4	NPDI/FA3NRL LTY	DPW	7 Mulberry Street	42° 21' 13.2696" N, 72° 42' 1.2204" W	161	3	3	14	30	106	None	2	Documented no parking zone on city property.
9/1/2018	DJI Phantom 4	NPDI/FA3NRL LTY	18-2045-of	152 Crosspath	42° 19' 19.5348" N, 72° 37' 4.6272" W	393	1	1	12	30	106	None	1	Damage to hay fields
9/19/2018	DJI Phantom 4	NPDI/FA3NRL	18-2191-OF	Elks Lodge, Pine Street	42° 19' 50.865" N, -72° 40' 46.7112" W	395 ft	1	1	18	20	204	None	1	Search for missing person in Mill River
9/19/2018	DJI Phantom 4	NPDI/FA3NRL	18-2191-OF	289 Burts Pitt Road	42° 18' 49.2" N, -72° 39' 29.8" W	223 ft	2	2	31	35	204	None	2,3	Search for missing person in Mill River
9/19/2018	DJI Phantom 5	NPDI/FA3NRL	18-2191-OF	20 Lad6, Florence	42° 19' 9.17" N, -72° 39' 46.0" W	400 ft	1	1	17	20	204	None	4	Search for missing person in Mill River
9/20/2018	DJI Phantom 4	NPDI/FA3NRL LTY	18-2191-OF	576 Riverside Drive	42° 19' 19.45" N 72° 39' 40.43" W	210 ft	4	4	37	80	189	236	1,2,3	Search for missing person in Mill River
10/6/2018	DJI Phantom 4	NPDI/FA3NRL LTY	Training	Oxbow Marina, Northampton	42° 17' 39.3576" N, 72° 37' 55.7616" W	194	3	3	25	60	106	None	1,2,3	Precision Mapping Test Flight
12/24/2018	DJI Phantom 4	NPDI/FA3NRL LTY	Assist Other Agency	Holyoke	42° 16' 23.2464" N, 72° 36' 15.5088" W	395	1	1	10	20	106	None	3	Armed robbery suspect search.
12/29/2018	DJI Phantom 4	NPDI/FA3NRL LTY	Missing Dog	Mountain St @ Rocks Rd, Hatfield	42° 23' 54.042" N 72° 39' 20.9484" W	213	1	1	2	2	106	204	2	Search for missing dog
FLIGHTS: 26														
FLIGHT TIME: 7 hours 38 mins														
TRAINING TIME: 12 hours 22														

NORTHAMPTON POLICE sUAS UNIT
2017 DJI INSPIRE 1V.2 FLIGHT LOG

Date	Aircraft	Ident/FAA#	Case#	Location	Coordinates	Launches	Recoveries	Max Altitude FT (AGL)	Total Flight Time (minutes)	Training Time (minutes)	PIC	Observer	Battery#	Notes
6/12/2017	DJI Inspire 1 v2	NPD2/FA33CW F9MM	Training	Meadow St	42° 36' 5.14" N, -72° 40' 50.49" W	3	3	356	31	60	Moody	Allard		Initial flight, familiarization, landings, take off, video, picture, range. Ipad had issues with the heat (97 degrees), moved to shade. Future use in high heat the Ipad case should be removed and the sun shade utilized.
6/17/2017	DJI Inspire 1 v2	NPD2/FA33CW F9MM	Training	Whitebrook, Easthampton	42° 15' 10.7676", -72° 40' 24.3834"	5	5	203	19	35	Allard	N/A	1 & 2	Initial ZemauxXT FLIR flight. Switch zoom and FLIR methods with pushing the right wheel on the remote
6/20/2017	DJI Inspire 1 v2	NPD2/FA33CW F9MM	Training	Pleasant Street	42° 18' 39.812", -72° 37' 31.7172"	3	3	400	30	60	Allard	Netto	1 & 2	ZemauxXT FLIR flight training and looking of camps in the woods. Airport notification to Holly.
6/25/2017	DJI Inspire 1 v2	NPD2/FA33CW F9MM	Training	Scotland Rd Meadows, Hatfield	42° 21' 19.13" N, -72° 36' 59.91" W	2	2	400	27	60	Moody	Allard	3 & 4	Dual controller flight familiarization with camera. Observed large concert on CT. river. Hatfield FD present for flight. Both pilots spent approximately 30 minutes using the camera controller. Used FPV lock, 360 rotation in flight.
7/1/2017	DJI Inspire 1 v2	NPD2/FA33CW F9MM	Training	Milton Street Parking Lot	42° 19' 39.0216" N, 72° 38' 59.9712" W	1	1	352	34	60	Allard	McLaughlin	4	Ofc. McLaughlin Operator, Ofc. Allard Observer, FLIR Observation and Tutorial
7/5/2017	DJI Inspire 1 v2	NPD2/FA33CW F9MM	Training	Northampton Fire	42° 19' 54.84", -72° 38' 10.39"	1	1	395	12	60	Moody	Allard	2	FLIR presentation for the Fire Department.
7/6/2017	DJI Inspire 1 v2	NPD2/FA33CW F9MM	Training	Northampton Fire	42° 19' 54.84", -72° 38' 10.39"	2	2	395	14	60	Moody	Allard	4	FLIR presentation for the Fire Department.
7/8/2017	DJI Inspire 1 v2	NPD2/FA33CW F9MM	Training	Northampton Fire	42° 19' 54.84", -72° 38' 10.39"	2	2	396	24	60	Moody	Allard	3	FLIR presentation for the Fire Department.
7/13/2017	DJI Inspire 1 v2	NPD2/FA33CW F9MM	Community Service	Northampton Airport	42.328029, -72.615519	1	1	55	8	45	Moody	None	1	Young Aviators Summer Camp-Flight Demonstration
7/17/2017	DJI Inspire 1 v2	NPD2/FA33CW F9MM	17-26909	Market Street	42.321179, -72.629847	1	1	291	14	30	Moody	None	2	Dumpster Truck Fire on Market Street. FLIR deployed.
8/1/2017	DJI Inspire 1 v2	NPD2/FA33CW F9MM	Community Service	Northampton Airport	42.317961, -72.615393	1	1	80	9	45	Moody	Allard	4	Young Aviators Summer Camp-Flight Demonstration
8/4/2017	DJI Inspire 1 v9	NPD2/FA33CW F9MM	17-29292	Meadow St Athletic Fields	42.334924, -72.684017	6	6	363	40	60	Moody	Allard/Carte dge	1,2,3,4	Search for missing person with Section 12. Not located and Section 12 canceled by CSO.
8/14/2017	DJI Inspire 1 v10	NPD2/FA33CW F9MM	Training	Hinsdale, MA	42.424571, -73.096904	2	2	395	20	20	Moody	None	3,4	Training with FLIR, Orientation, Landing, and water searches.
8/17/2017	DJI Inspire 1 v2	NPD2/FA33CW F9MM	Community Service	Northampton High School	42.526231, -72.653259	2	2	396	15	30	Moody	Allard	1	Documenting High School layout for emergency planning w/Trespass Barriers
10/15/2017	DJI Inspire 1 v12	NPD2/FA33CW F9MM	Suspect Search	Leigh Road at Stillwater Road, Deerfield	N 42 31' 10", W -72 37' 17"	9	9	400 ft	80	210	Moody	Allard		Search for suspect wanted by MSP on a warrant for Attempted Murder. Suspect fled into corn fields and surrounding wooded area after a traffic stop on Rt. 91. NOTAM (CFE 10-1001) (CFE 10/004). Total NOTAM time 0900-1130 EST.
11/23/2017	DJI Inspire 1 v2	NPD2/FA33CW F9MM	Training	Meadow St Athletic Fields	42°20'09.40" -72°40'49.51"	2	2	373	20	60	Moody	Allard	1,2,3,4	McLaughlin Training: Pre flight, aircraft set up and break down, familiarization, landing, takeoff.
TOTAL FLIGHTS: 16														
TOTAL FLIGHT TIME: 397 MINUTES														
TOTAL TRAINING TIME: 955 MINUTES														