

NORTHAMPTON POLICE DEPARTMENT Jody D. Kasper CHIEF OF POLICE

29 CENTER STREET, NORTHAMPTON, MA 01060-3090 (413) 587-1100 FAX (413) 587-1137

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. Therefor there are no records of such. If you have any further questions regarding this, please contact me.

Sincerely,

Records Supervisor

Northampton Police Department

NORTHAMPTON POLICE DEPARTMENT Administration & Operations Manual



Policy: Small Unmanned Aircraft Systems

AOM: 0-506

Massachusetts Police Accreditation Standards Referenced:

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

- Digital Multimedia Evidence (DME): Digital recording of images, sounds, and associated data.
- 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.
- 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.
- Unmanned Aircraft System (UAS): A system that includes the necessary equipment, network, and personnel to control an unmanned aircraft.
- 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.

- 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.
- Unmanned Aircraft Pilot: A person who exercises control over a UA/UAVG/UAS during flight.
- 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:

 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.

- Search and Rescue: To assist missing person investigations, Amber alerts, and other search and rescue missions.
- 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).
- Visual Perspective: To provide an aerial visual perspective to assist
 officers in providing direction for crowd control, traffic incident
 management, and temporary perimeter security.
- 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.

- The sUAS will be operated only by personnel (pilots and crewmembers) who have been trained and certified in the operation of the system.
- 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.

- 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.
- 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.
- 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.
- 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:

- All DME (Digital Multimedia Evidence) shall be handled in accordance with existing policy on data and records retention. (AOM S-200).
- 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.
- Officers shall not edit, alter, erase, duplicate, share, or otherwise distribute any sUAS DME without prior authorization and approval of the sUAS Supervisor.
- 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.

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

VII. Supervision and Reporting

- 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.
- An authorized sUAS supervisor or administrator will audit flight documentation and maintenance.
- 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:

- 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

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

- 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.
- All agency personnel with sUAS responsibility, including command, shall also be trained in local and federal laws and regulations, as well and this policy governing the use of sUAS.
- 4. sUAS Flight Crew Member selection will be accordance with existing policy AOM A-112 (Specialized Assignments).
- 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

 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

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.

Coordinates Lannehor 42.313484,-72.658725 I

Date

4/28/2020 Marie 2 Fee

5/20/2020 Maris 2 Fee

5-5/2020 Maria 2 Fee

6/5/2020 Mayin 2 Fee

7/4/2020 Mayin 2 Fee

7/18/2020 Mayés 2 Fee

3/25/2920 Mayic 2 Fee

Marie 2 Est

Marrie 2 Eur Marie 2 Fee SUMBIL Maria 2 Fee 9LMRH Marie 2 Fee STWEET NPDATAMIN Marie 2 Fee SWIE Mayie 2 Fee Marrie 2 Est. Marrie 2 Est. Merrie 2 Ent. Mavie 2 Est. TOTAL FLIGHTS OTAL FLIGHT TIME

MONTANE

9LMRH

9LMRH

SUMBH

SUMBH

Case# Location

Dog perk

Dog perk

111 Kennety Bred

Court House

42313484,-72.658725 42313484,-72.658725 42348500,-72.715396 42319937,-72.631397

1 2

10 10 177 177

NORTHAMPTON POLICE SUAS UNTI-

FT (AGL)

44

180

236

174

Reconstice

12 797

Max Abitale | Total Picht Time |

Training Time

10 106

20 106 203

10 106

20 106 236

160 236 106

20 189 166

PIC Observer

2,66 160

204 236

Used speaker with Board of Health notice to leave the park.

FUR SEARCH FOR FIRE AND SUSPECTS

Protest-Stone interference

montration

mondration

Demonstration

			202	PHANTOM 4 MALFUNCTION REPORTS	
Dane	Time	Isration	France		

Coordinates

Launches

NORTHAMPTON POLICE SUAS UNIT 2020 DJI Spark FLIGHT LOG Max Athude Total Flight Time FT (MGL) (minutes)

PIC Observer Battery#

							2020 DJI INS	PIRE 1V.2 FLX	BHT LOG					
200000	MI 3 - X6										POST TO SERVICE SERVIC	200000000000000000000000000000000000000		
Date	Aircraft	ID/FAA#	Case #	Location	Coordinates	Max Altitude	Launches	Recoveries	Total Flight Time (Mins)	Training Time (minutes)	PIC	Observer	Battery#	
5/2/2020		FA33CWF9MM	20-13140	Rainbow Beach	42.324888, -72.586833	400	3	3	15	30	236	288	1.3	Notes
5/21/2020		FA33CWF9MM		elks club	42.33140272.679867	190	1	1	4	5	106	200		VPS testing and test flight
6/6/2020	DJI Inspire	FA33CWF9MM		Cout House	42.32398772.640039	196	- 1	-	16	20	235	106		
66/6/20	DJI Inspire	FA33CWF9MM		Clark School	42.323998,-72.640077	220		ė	20	50	236	106	_	Interference
									20	- 00	230	106		Protest
						- 6			-					

| Date | Aircraft | MentiFAA# Case# Location | Coordinates | Coordinates

19-1130-OF Hocksoum Rd Meadows

Pine Street Arts Building

525 Mt. Tom Road

Accasum Field

Meadow Stores

Parking Garage

Village Hil

City Hall

Chicopee St @ Springfield St

25 Main St, Northampton

Belchertown Police

3/2/2019 Dil Phantom 4 FAIN

3/25/2019 DJI Phantom 4 FA3NE

4/4/2019 D.II Phantom 4 FA3NE

4/4/2019 DJI Phantom 4 FA3NF

D.II Phantom 4

D.II Phantom 4

D.II Phantom 4

9/19/2019 DJI Phantom 4 FA3NRLTCY

11/25/2019 DJI Phantom 4 FABNRLITCY

6/2019 Dil Phantom 4 Exampli T/CV

FARNELITCY

FASNELLTCY 19-347-AC

FARNELLTCY

FARNELITCY

EARNELLTCY

None

None

None

Nece

4/19/2019 D.II Phantom 4 543N

7/15/2019 DJI Phantom 4

7/19/2019 D.II Phantom 4

10/5/2019 DJI Phantom 4

10/5/2019 DJI Phantom 4

10/12/2019 D.II Phantom 4

10/3/2019 D.II Phantom 4

8/31/2019 D.II Phantom 4

FLIGHTS: 22 FLIGHT TIME: 6.4 hours TRAINING TIME: 9 hours

LLTCY	Blarney	UMASS Amherst	42" 23" 28.16" N 72" 31" 36.1596" W	Г
LLTCY	19-115-AC	492 Easthampton Road	42° 17' 54.0168" N 72° 39' 22.9104" W	T
LLTCY		Elks Club Body	42* 19' 52.788" N,72" 40' 49.9332" W	T
LLTCY		Ellos Club Body	42" 19" 52.788" N.72" 40" 49.9332" W	t
RLITCY	19-836-OF	Marian Street	42" 21" 21.1752" N 72" 38" 49.2252" W	T



42" 19" 4.404" N,72" 37" 48.2484" W

42"18'55.25"N 72"38'44.95"W

42" 19" 4.224" N.72" 37" 55.1496" W

43" 18" 59 9544" N 72" 87" 56 0784" W

42" 19" 55 4664" N 72" 18" 7 764" W

42719713 4"N 72"38'28 17M

42"19"12.84" N 72"37"44.81"W



393

116

2019 DILPHANTOM & FLIGHT LOG

May Allique Launches Recoverier

Flight Time

10

15

20

PIC Observer
Batterys

189 106 123

204 106

204

students

106

106

123

123

Blamey

Unattended Death

Unattended Death

Missing Person

Roof Inspection for foreign materials

Beichertown Youth Police Academy

Drone Deploy for Serious Crash

raining Flights on Flight modes and skills/ Communication involvment as well

Orone Declay testing

MCP Pres. Train Station

IACP Pres

DPW Tree documentation for Tree Western

Imaging and Drone Deploy Training

NFD Open House

Homicide Suspect Search for MSP

Possible Elec prob on room/op canceled due to pigeon hazard

Missing Person/Suicidal/Unknown Location, 3 PIC in order listed

Serious MVC

| Date | Alexant | Medical Part | Me

59,616" W

2019 DJI INSPIRE 1V 2 FLIGHT LOG

179

15

20

106

236

148 Post repair test flight

8/27/2019	Inspire 1v.2	FA33CW
11/12/2019	Inspire 1v.2	FA33CW

M Test F

DAY DESCRIPTION OF THE PERSON		DOM: NO.			PERSONAL TRANSPORT		Harry Harry				30,024			
Date	Aircraft	Ident/FAMI	Cased	Location	Coordinates	Launches	Recoveries	Max Attitude FT (AGL)	Total Flight Time (minutes)	Training Time	PIC	Observer	Battery#	
1/2/2019	DJEMAVIC	NPD4FA3NRLLT CY	19-1-AC	Bridge Street School	42.318523,72.636851	7	7	197	21	40	106			Printes Crime Scene documentation and evidence search.
3/28/2019	DJI MAVIC	NPO4FA3NRLLT	Test Flight	NHS	42.305818,72.651923	3	,	148	10		106			Fixed lending leave and Elic training

3/28/2019	Test Flight	NHS	42.325818,72.651923	3	3	148	10	8	106		Fixed landing issue and Filr training.

DJIMAMO

Date 000

None Oxbow, Northampton DTF

18,6590

Amherst

Motual Aid

Homeless

Assist NFD

searching fo

Training

Community

event

Community

Policino

Search and

18-590-AD

Suspect Search

Search for

missing Dog

Date Aircraft Ident/FAA# Cosed

1/29/2018 Inspire 2/FA33CWF9 18,3594

2/6/2018 Inenine tu t

2/14/2018

2/23/2018

2/24/2018 Inspire 1v.2 2/FA33CWF9 Training

2/27/2018 Inspire 1v.2 2/FA33CWF Training

3/3/2018

4/26/2018

5/17/2018 Inspire 1v.2 2/FA33CW

7/3/2018

7/30/2018

8/7/2018

8/26/2018

9/1/2018 Inspire 1v.2 2/FA33CWF9 Crime Scene

9/19/2018

10/11/2018

12/24/2018

12/29/2018

TOTAL DEPLOYMENTS: 18 TOTAL FLIGHT TIME: 6 hours 51 min TOTAL TRAINING TIME: 15 hours 22 min

NDC

MM

WESMM

MM

2/FA33CWF Inspire 1v.2

2/FA33CWF Inspire 1v.2

> MM fce/smoke

Inspire 1v.2 2/FA33CWF9

Inspire 1v 2 2/FA33CWF

Insoire 1v.2 2/FA33CWF9

Inspire 1v 2 2/FA33CWE

MM

NPD

Inspire 1v.2 2/FA33CWF

Inspire 1v.2 2/FA33CWF Training

Inspire 1v2 2/FA33CWF9

Inspirety 2 2/FA33CWF

Inspire 1v.2 2/FA33CWF

Inspire 1v.2 2/FA33CW/

42*18'42.1"N -72*39'11 0"M 2 Ferry St, Easthampton

Oxbow, Northampton

Puffion Village Dr.

Amherst (Puffion Village)

Lyman Rd, Northampton

Burts Pit Rd, High

Meadow Rd. Florence

17 Pine Street Eloranos

Smith College Jon Carls

Meadow Street

Ryan Road Schook

Cross Path Road

Mill River/Maines Field

Chemplastica

Holyoke

Mountain St @ Rocks Rd

Hatfield

Location

N. Elm Street (St. Marys) Oxbow, Northampton

Ellerbrook Field, Dog Park 42*18'42.1"N, -72*39'11.0"W

42*18*19.10*,-72*36*42.70 42° 20' 14.6868" N, -72° 39' 25 855° W 42*17'20'N, -72*37'47" W 42"17"20"N -72"37"47" W

42"24"19" N .72"31"50" W

42*18*23" N .72*37*46* W

42"18"49" N, -72"39"34" W

42" 19" 51 9564" N 72" 40"

46.56° W

42" 18" 58 68" N 72" 38"

28 9572" W

42" 20" 5 1" N 72" 40"

49 998" W

42" 19" 4.116" N 72" 41"

37.7195° W

42" 19" 8 6304" N 72" 36

59.2272° W

42" 19" 41.052" N,72" 40"

11.82° W

42" 19' 49 23" N 72" 40'

28.20

42° 16' 23 196" N 72° 36'

42" 23" 54 042" N 72" 30"

20 9484" W

15,4008" W

Coordinates

Launches

2

3 3 393

7 7

2

2 2 395

2

4

2

2

2

4 399 36

NORTHAMPTON POLICE SHAS HINT 2018 DJI INSPIRE 1V.2 FLIGHT LOG

ET /AGL

215

377 30

395 12

399 25

400 25

385

395

395

259

395

228 8

3696

155

4 396 31

Max Altitude | Total Flight Time | Training Time

15

19

58

9

16

15

11

6

45

39

12

PIC Observer

204 106

106 None

106 None

189 236

204 108

187

None

None

189

45 238 None

60 236 187

120 204 106

60

20 238 None

20

240 204 153

30

35 238 260 NFD

20

30 106 189

30

20

60

60

10 204 189

50

12 204 108

1,2 Assist with looking for missing dog. FLIR system utilized Training with "Precisionflight". Drone did not complete mission. YouTube Live Link training was successful. Amherst Mutual Aid for "Blamey Blow Out". Scene assemesment and public 1,2,3,4 safety. Used YouTube live, worked once out of 4 launches. 1,2 Surveying homeless camps off Lyman Rd area. 3.4 Heavy smoke in a large area, FLIR utilized to search for heat source. Für Demonstation for Jon Caris' class at Smith College Communication and imaging testing Training flight for landing and travel mode issues while community policing- Kids

Training flight, thermal camera familiarization.

Training flight w/thermal camera

1,2,3,4 Assist DTF with situational awareness

3.4 Training

1,2,3,4 Training with both lenses

playing at Ryan Road School

1,2,3,4 Search for Missing Person (FLIR)

2.3.4 Search for bank robbery suspect using FLIR

2 Search for missing dog using FUR

1.2.3.4 Search for suspect in corn field- Night Flight (FLIR)

Search for wanted person from Domestic A&B. (FLIR)

Florence Fields 42" 20" 5.03" ; -72" 40" 50.44" Recreation Area Florence Fields Recreation Area

Location

Leeds School/ Bike

198 Pine St

Florence

296 Nonotuck St

Florence

2 Ferry St.

Easthampton

Orhow

Marina, Northampto

Main Street

Haldey Lower

Potash Rd Northamot

1095 Florence Road

135 Main Street Leeds

Hatfield

Meadowbrook

West Springleld

205 Rockyhill

7 Mulberry Street

132 Crosspath

Elks Lodge, Pine Street

289 Rusts Str Board

201add Elecance

576 Riverside Drive

Marina, Northampton

Rd. Hatfield

259 Elm St

Path

Date Aircraft

1/20/2018 DJI Phantom 4

1/20/2018 D.II Phonton

1/20/2018 DJI Phantom 4

2/2/2018 DJI Phantom 4

5/25/2018 DJI Phantom 4

6/3/2018

2/14/2018 DJI Phantom 4 NPD1/FA3NRLLTC

2/27/2018 DJI Phantom 4 NPD1/FA3NRLLTC

3/24/2018 DJI Phantom 4 NPD1/FA3NRLLTC

4/28/2018 DJI Phantom 4 NPD1/FA3NRLLTC

5/3/2018 DJI Phantom 4 NPD1/FA3NRLLT

6/25/2018 DJI Phantom 4 NPD1/FA3NRLLTT

7/3/2018 DJI Phantom 4 NPD1/FA3NRULTT

7/3/2018 DJI Phantom 4 NPD1/FA3NRLLTT

7/3/2018 DJI Phantom 4 NPD1/FA3NRUTT

7/18/2018 DJI Phantom 4 NPD1/FA3NRLLTT

7/19/2018 DJI Phantom 4 NPD1/FA3NRLLTT

9/1/2018 DJI Phantom 4 NPD1/FA3NRLLTT

9/19/2018 DJI Phantom 4 NPD1/FA3NRLL

9/19/2018 DJI Phantom 4 NPD/FA3NRLI

10/6/2018 DJI Phantom 4 NPD1/FA3NRLLTC

12/29/2018 DJI Phantom 4 NPD1/FA3NRLLTC

12/24/2018 DJI phantom 4 NPD1/FA3NRLLTC Assist Other

9/19/2018 DJI Phantom 5

9/20/2018 DJI Phantom 4

FLIGHTS: 20 FLIGHT TIME: 7 hours 38 mins TRAINING TIME: 12 hours 22

DUI Phantom 4 NPD1/FA3NRULT

Ident/FAA# Case#

NPD1/FA3NRL

NPD1/FA3NRL

NPD1/FA3NRL

NPD1/FA3NRL

NPD1/FA3NRL

NPD1/FA3NRLLT

NPD/FA3NRLL 18-2191-0

18-149-OF

18-149-OF

18-149-06

18-149-OF

17-270-OE

Assist Other

Community

18-14583

18,1195.4

18-1249-of

18-1448-of

MED

18,2045-4

18-2191-00

18-2191-0

18-2191-00

Missing Dog

42* 21' 3.48" : -72* 41' 51 49' 42* 20' 5.03" ; -72* 40' 50.44" 42" 19" 51.69" ; -72" 40" 35.48" Indoor Flight

42°18'19" N -72°36'42" W

42" 17" 24" N,-72" 37" 39" W

42" 19" 11.5392" N,72" 37" 54.8616"

42" 21" 14.4" N, 72" 33" 49.32" W

42" 18" 22.6152" N -72" 37" 43.4598"

42" 17" 39.282" N,72" 40" 25.6944" W

42" 19" 25.2444" N,72" 39' 15.7536"

42" 20' 51.2808" N,72" 41' 56.3244"

42" 17" 41.496" N.72" 37" 54.7896" W.

42" 20" 24.0086" N,72" 39" 44.3916"

42" 8" 14.4348" N.72" 37" 12.864" W

43" 18' 21.5028" N,72" 39' 29.7792"

42° 21' 13.2696" N,72" 42' 1.2204" W

42" 19" 19.5348" N,72" 37' 4,6272" W

42° 19' 50.865° N. -72° 40' 46.7112"

42" 18" 49.2"N, -72" 39" 29.8"

42" 19" 9.1"N. -72" 39" 46 0"W

42° 19' 19.45" N 72" 39' 40.43" W

42° 17' 39.3576" N,72" 37' 55,7616"

Mountain St @ Rocks 42" 23" 54.042" N 72" 39' 20 9484"

42" 16" 23.2464" N,72" 36' 15.5088"

Coordinates

302ft 3316 194ft 312ft 22ft 395 Ft

200

372 1

329

394 Fr

267 3 3

241

264

246

223 fr

400 ft

210 ft 4 4

194

325

212

3

Max Altitude Launches Recoveries

> 2 2 4

2

2

2018 DJI PHANTOM 4 FLIGHT LOG

2

2

4

2

6

3

6

3

1

1

1

Total Flight Time | Training Time

20

20

20 204 None

60 204 106

60 106

45 106

3 hours 106

> 30 204 N/A

15 106 None

20 106 None

20 204 106

20 106 204

15 106 None

30 106

30 106

30 106

20 204

36 204

20 204 None

60 106 None

20 106 None

10

10

9

34

10

18

20

8

17

49

40

4

14

14

12

18

31

17

37

25

10

2

Observer

189 106

189 106

189 106

189 106

106 171

189 236

106 204 Battery# Notes

1.2.3

B&E Scene Imagry

B&E Scene Imagry

B&E Scene Imagry

B&E Scene Imagry

2,3 Precision Mapper testing

1.2.3 Public Safety event

3 Fire Investigation

1.2.3 Homicide Investigation

1,2,3 Homicide Investigation

Situational awareness, assist DTF

2 Survey property lines and homeless tents

3 Precision Mapper File Creation

Images of case location

Homicide Investigation

Damage to hav fields

2 Documented no parking zone on city property

Search for missing person in Mill River

2,3 Search for missing person in Mill River

4 Search for missing person in Mill River

1,2,3 Search for missing person in Mill River

1.2.3 Precison Mapping Test Flight

3 Armed robbery suspect search

Search for missing dog

Video and Images of large protest for security

1,2,3 Mapping of sink hole for DPW including Geo Referced images.

Fight inside of large warehouse to document crime scene.

Cated Location Coordinates None nod Suas unit NO GPS Indoor Mone nod Suas unit

npd Suas unit

nod Suas unit

Ray Ellerbrook Field

Damon Road

Meadow Street

Mt Tom Bond

NPD 2nd floor

Gettysburg PA

Witcht Ave

Date

7/24/2018

7/28/2018 Dii SoARK EASESPINCI D

7/30/2018 DI SOARK FA3F3RMCLF None

9/1/2018 DJI Spark FA3F3RMCLF

9/4/2018 DJI Spark FA3F3RMCLF

9/7/2018 D.II Snark FA3F3RMCLE

9/7/2018

9/29/2018 DJI Spark FA3F3RMCLE

9/30/2018 D.II Spark EASESBMCLE

10/30/2018 DJI Spark FA3F3RMCLE

12/27/2018 DJI Spark

TOTAL FLIGHTS: 12 TOTAL FLIGHT TIME: 1 hour 47 mins TOTAL TRAINING TIME: 3 hours 50 mins

Ident/FAA# Aircraft

FA3F3RMCLI DJI Spark

Training

None

Training

Training

Training

Training

Training

FA3F3RMCLF Traffic Plannin

Dii SoARK FA3F3RMCLF

DI SAARK FASESRMOLE

NO GPS Indoor 42° 15' 2.3076" N.72° 39" Easthamoton Ma 43.56" W NO GRS Intov

NO GPS Index

42" 18" 35 6004" N 72" 39"

7.8444° W

42° 20' 9.06" N.72° 37'

24.51° W

42" 20" 9 1068" N 72" 40"

49.3104" W

42" 18" 39 7388" N 72" 37

28.9056" W

NO GPS Indoor

39° 50' 35.16" N.77" 11'

32.28" W

42" 18" 45,4932" N,72" 37"

33,996" W

Launches Recoveries

> 11 11 194 32

NORTHAMPTON POLICE 4HAS HINT 2018 DJI Spark FLIGHT LOG

FT (AGL)

246 11

394 21

243 14

n/a 18

santetormine

394

Max Altitude | Total Flight Time | Training Time

undetermined

PIC Obsesses

189 106

None

106 189

Familiarization

Familiarization

Familiarization

Familiarization

Person search

2.3.5 Indoor search training with D.II Gorolea

1-5 batteries excersie

Windows condition and power usage testing

1.2.3.4.5 DJI Goggles training-Flight log viewed through DelCon

Mapping of Wright Ave for traffic planning

34 Training

1.4 Training

15

15 106 None

20 106 None

15 106 Mone

20 106 None

35

10 106 None

20 106 None

45 106 189

25 105 204

undetermined

10 106 None Notes

Total Flight Time Aircraft Ident/FAA# Cosell Location Coordinates Max Altitude Recoveries Training Time Observer Battery# OJI Phantom 4 Training NPD Range Indeer TCY 4 feet 60 60 106 204 PD1/FA3NBU South Lot-Oll Phantom 4 Training P-Mode. Point of Interest, Follow Me, Object Tracking, Training Manuvers, Landings, Take-42" 7" 45.39" N. -72" 48" 10.63" W 305 feet 44 60 204 None 1/29/2017 DJI Phantom 4 Training Gateway P-Mode, Manual Point of Interest, Video, Photos, Landings, Take-Offs, Obsticle Avoidance. 42" 15" 8.7" N, -72" 52" 9.18" W 395 feet 29 45 204 None Distance Flight, High Altitude (395 Ft) PD1/FA3NRU 2/19/2017 Dil Shanton 4 Training Smith Voc 42" 19" 51.93" N. --72" 39" 39.43" W 100 feet 2 58 90 106 189 1,2,3 P-Mode, Special Considerations, Wildlife Avoidance, Search Exercise NPD1/FAINBLE DII Phantom 4 Training DPW 42" 20" 2.01" N. -72" 39" 25.24" W 35 60 106 P-Mode, Obstacle Avoidance, Foot Print Tracking, Flight Near Metal Objects Dil Phantom 4 NPD1/FA3NRLL 17-435-08 42" 19" 3.2" N, -72" 41" 34.11" W 395 feet 5 15 204 106 Crime Scene Photographs 100

2/2017	Uit Phantom 4	TCY	Training	JFK	42" 20" 45.77" N, -72" 40" 42.1" W	395	1	1	14	30	106	None		Training, Return to Home, Max Altitude
2/2017	Dil Phantom 4	TCY	Training	Station/Deck	42° 19′ 10.41° N, -72° 37′ 56.39° W	350 Feet	3	3	28	60	204	106	200.00	W.D. 00.00
7/2017	DJI Phantom 4	NPD1/FA3NRLL TCY	17-13379	Look Park	42" 20" 41.84" N, -72" 41" 18.26" W	395 feet ·	3	3	17	60	204	106/120		Deployment from root, area vantage point, deployment from dect, return home Search for three missing deer from Look Park roo. Negative results.
15/2017	DJI Phantom 4	NPD1/FA3NRLL TCY	Assist OPW	Barett Street	42" 19" 55.29" N ₂ -72" 38" 14.14" W	400 Feet	1	1	20	30	106	187/216		-
8/2017	DJI Phantom 4	NPD1/FA3NRLL TCY	17-846-OF	46 Graves Ave	42" 19" 22.32" N, -72" 37" 36.67" W	333 Feet	3	3	45	120	204	191	000	Images and video of the Barrett Street marsh so requested by Rich Parsells
19/2017	DJI Phantom 4	NPD1/FA3NRLL	17-857-OF	155 Locust St	42" 20" 2 69" N . 22" NY 45 O4"	500 feet	,	,	16				1,3	Assist with Structure Fire Supression, Video

NORTHAMPTON POLICE SUAS UNIT 2017 DII PHANTOM 4 FLIGHT LOG

1/7/2017

1/16/2017

2/20/207

2/23/2017

8/17/2017

8/17/2017 Dil Physics 4

8/17/2017 **Cill Phanteen 4**

10/4/2017 Oil Phantom 4

10/15/2017 Oil Phantom 6

11/23/2017 Oll Phantom 4

11/23/2017 Oil Phanton 4

PAINING TIME: 1655

			NPD1/FA3NRLL												
ı	4/2/2017	Dil Phantom 4	TCY	Training	JFK	42" 20" 45.77" N, -72" 40" 42.1" W	395	1	1	14	30	106	None		Training, Return to Home, Max Abbude
	4/2/2017	Dil Phantom 4	NPD1/FA3NRLL TCY	Training	Station/Deck	42" 19" 10.41" N, -72" 37" 56.39" W	350 Feet	3	3	28	60	204	106	12	
	4/7/2017	DJI Phantom 4	NPD1/FA3NRLL TCY	17-13379	Look Park	42" 20" 41.84" N, -72" 41" 18.26" W	395 feet ·	3	3	17	60	204	106/120		Deployment from roof, area vantage point, deployment from deck, return home
ı	4/15/2017	DJI Phantom 4	NPD1/FA3NRLL TCY	Assist OPW	Barett Street	42" 19" 55.29" N, -72" 38" 14.14" W	400 Feet	1	1	20	30	106	187/216	-	Search for three missing deer from Look Park 200. Negative results.
ı	4/18/2017	DJI Phantom 4	NPD1/FA3NRLL TCY	17-846-OF	46 Graves Ave	42" 19" 22.32" N, -72" 37" 36.67" W	333 Feet	3	3	45	120	204	191	2	Images and video of the Savrett Street marsh as requested by Rich Parsells
ı	4/19/2017	DJI Phantom 4	NPD1/FA3NRLL TCY	17-857-OF	155 Locust St	42" 20" 7.69" N, -72" 39" 46.04"	389 Feet	2	2	16	60	204	None	1,3	Assist with Structure Fire Supression, Video
ı	4/20/2017	DJI Phantom 4	NPD1/FA3NRLL TCY	17-862-OF	64 W Farms Ro	42" 18" 25.12" N, -72" 42" 58.33"	395 Feet	1	. 1	16	60	204	153	1,3	Assist with brush fire, Photos
I	4/25/2017	Dil Phantom 4	NPD1/FA3NRUL TCY	17-17330/17- 331	Three County Fair Grounds	42° 19° 29.61° N, -72° 57° 7.44°	324 Feet	3	3	31	120	204	228	- 2	Requested by SES - Area Search for Evidence. Photos
ł			NPD1/FA3NRLL				_					_		1,2,3	Extravagana: Self Initiated-crowd documentation, traffic documentation, event attendance
Į	5/9/2017	Dil Phantom 4	TCY	None	80 Locust St	42"19"49.9224" N, -072"39'21.1176" W	177 Feet	.1	1	13	60	204	106	1	Mark Fatal Accident scene documentation and demonstration

		TCY	331	Fair Grounds						120	204	226		
00000000	10000 H 0	NPD1/FA3NRLL					_				-		1,2,3	Extravagana: Self Initiated-crowd documentation, traffic documentation, event attendance
5/9/2017	Dill Phantom 4	TCY	None	80 Locust St	42"19"49.9224" N, -072"39'21.1176" W	177 Feet	1	1	13	60	204	106		Mark Fatal Accident scene documentation and demonstration
5/13/2017	Dill Phantom 4	NFD1/FA3NRLL TCY	None	29 Center St	42°19'11.1864"N -72°37'55.3440" W	395 Feet	6	6	28	60	204	106	10.0	Police Day demonstrations & take offs and landings
5/18/2017	Dil Phantom 4	NFD1/FA3NRLL TCY	17-1112-of	S4 Honotuck	42" 19' 26.71" N, -72" 89' 52.21"	200 Feet	1	1	15	30	106	260		Accident scene macoing
\$/19/2017	Dil Phantom 4	NPD1/FA3NRLL TCY	None	Oxbow Soccor Fields	42°17'15.6228" N, -72'37'47.9172" W	354 Feet	4	4	19	90	204	106		Pack Training injections of familiarization, weather brief, preflight checklist, Hover, alport notification, area scanning, area hazonds, Dilgo App introduction. "Tables shut off due to overheating from the sun during flight, Corrected by moving to shade.
5/27/2017	Dil Phantom 4	NPD1/FA3NRLL TCY	Training	N'tom High	42" 19" 33.6714",-72" 39" 7.866"	200	2	2	11	20	106			overnesting from this sun during Right, Corrected by moving to shade. P-Mode and ATR
7/5/2017	Dil Phantom 4	NPD1/FA3NRLL TCY	Accident	New South	42° 18' 55.7172" N.72" 88' 1.0716" W	300	1	1	9	45	106	Kohl		Accident scene mapping
7/13/2017	DII Phantom 4	NPD1/FA3NRLLT CY	Community Policing	Northampton Airport	42.328020, -72.615499	42	1	1		45	Moody	Allard		Account scene mapping Young Aristors Camp at Northampton Airport
4030043	*********	NPO1/FA3NRLLT	Community	JFK Middle	200000000000000000000000000000000000000	1000					_		_	Treung Amators Camp at Northampton Airport

13 30 Allard Moody

36 210 Allerd Deerfield

15

Allard

Cartledge Moody

Allard 204.189

Mondy Alland ocumenting School surrounding and layout for emergency response w/Treeper Barries

Documenting School surrounding and layout for emergency response w/Trooper Barries

Documenting School surrounding and layout for emergency response w/Trooper Barrios

Operation canceled before flight, subject found in adjacent apartment, NOTAM 10/020

follow me app, active track, point of interest, tripod mode

Search for suspect who fled map stop. NOTAM (CEF 10-1003) (CEF 10/004). Total NOTAM time 0900

ight prop, pre flight, COA, area assesment, directed flight, visual line of sight, search and rescue,

42,344796, -72,676737

42.350820, -72.697076

42,317800, -72,693845

42" 18" 35.51", -72" 38" 17.66"

42.519537,-72.621464

42,3357493. -72,6807198

42"20"08.67 N". -072"40"50.50 W"

156

145

0

2 2

Policing School

Policing School

17-37343

Assist Mith Deerfield

Training

PO1/FAINRULT

CY

PO1/FARNSUL

D1/FAINFLLT Training for Meadow

Leeds

Dementary

Ryan Road

Street

Street

Date	Aircraft	Ident/FAA#	Case#	Location	Coordinates	Launches	Recoveries	Max Altitude FT (AGL)	Total Flight Time (minutes)	Training Time (minutes)	PIC	Observer	Battery#	Notes
/12/2017	DJI Inspire 1 v2	NPD2/FA33CW F9MM	Training	Meadow St	42° 20' 5.14" N, -72" 40' 50.49" W	,	3	354	31	60	Moody	Allerd		Initial flight, familiarization, landings, take offs, video, picture, range. Ipad had issues with the heat (97 degrees), moved to shade. Future use in high heat the Ip.
/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	182	case should be removed and the sun shade utilized. Intital ZemauseXT FUR flight. Switch zoom and FUR methods with pushing the
/20/2017	DJI Inspire 1 v2	NPD2/FA33CW F9MM	Training	Pleasant Street	42° 18' 89.812°,-72° 37' 31.7172°		3	400	30	60	Allard	Netto		right wheel on the remote ZermuseXT FLIR flight training and looking of camps in the woods. Airport notification to Heliv.
/25/2017	Dil Inspire 1 v2	NPD2/FA33CW F9MM	Training	Scottland Rd Meadows, Hatfield	42" 21' 19.13" N, -72' 36' 59.92" W	2	2	400	. 27	60	Moody	Allard		nouncation to hope, Dual controller flight familiritation 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	Dil 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		
7/5/2017	OJI Inspire 1 v2	NPD2/FA33CW F9MM	Training	Northampton Fire	42" 19" 54.84", 72" 38" 10.39"	1	1	395	12	60	Moody	Allard		Ofc. McLaughlin Operator, Ofc. Allard Observer, FLIR Observation and Tutorial
7/4/2017	DJI Inspire 1 v2	NPD2/FA33CW F9MM	Training	Northampton Fire	42" 19" 54.84",-72" 38" 10.39"	2 .	2	395	14	60	Meody	Allard		FLIR presentation for the Fire Department.
7/0/2017	DJI Inspire 1 v2	NPD2/FA33CW F9MM	Yraining	Northampton Fire	42" 19" 54.84",-72" 36" 10.39"	2	2	396	24	60	Meedy	Allard	4	FUR presentation for the Fire Department.
/13/2017	Dil inspire 1 v2	NPD2/FA33CW F9MM	Community Service	Morthampton Airport	42.328029, -72.615519	1	1	55		45	Mondy	Nene		FUR presentation for the Fire Department.
/17/2017	Dil Inspire 1 v2	NPD2/FA33CW F9MM	17-26909	Market Street	42.321179, -72.629847	1	1	291	14	30	Mondy	Nene	1	Young Aviators Summer Comp-Flight Demonstration
1/1/2017	DII Inspire 1 v2	NPD2/FA33CW F9MM	Community	Northampton Airport	42.327981, -72.615393	1	1	80	9	45	Mondy	Allend		Dumpster Truck Fire on Market Street, FLIR deployed.
1/4/2017	DJI Inspire 1 v9	NPD2/FA33CW F9MM	17-29292	Meadow St Athletic Fields	42.334924, -72.684017	6	6	363	40	60	Mondy	Allard/Cartie		Young Arietors Summer Camp-Flight Demonstration
/14/2017	OJI Inspire 1 v10	NPD2/FA33CW F9MM	Training	Minodale, MA	42.424573, -73.096904	2	2	395	20	20	Meody	dge None		Search for missing person with Section 12. Net located and Section 12 canceled by CSO.
/17/2017	DJI Inspire 1 v2	NPD2/FA33CW F9MM	Community Service	Horthampton High School	42.326231, -72.652259	2	2	106	15	30	Meedy	Allard	3,4	Training with FUR, Orientation, Landing, and water searches.
V15/2017	DII Inspire 1 v12	NPD2/FA33CW F9MM	Suspect Search	Leigh Road at Stillwater Road, Deerfield	N 42 31' 10", W -72 37' 17"	,	9	400 ft	80	210	Moody	Allard		Decumenting Nigh School layout for emergency planning w/Trooper Barries Search for suspect wanted by MSP on a warrant for Attempted Mander, Suspect fled into corn fields and surrounding wooded area after a traffic stop on Rs. 91. NOTAM (CEF 10-
/23/2017	DII 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	Alland		1003) (CEF 10/004), Tetal NOTAM time 0900-1230 EST, McLaughlin Training: Pre flight, aircraft set up and break down, familiarization, landing.

TOTAL FUGHT TIME: 397 MINUTES TOTAL TRAINING TIME: 955 MINUTES NORTHAMPTON POLICE SUAS UNIT 2017 DR INSPIRE 1V.2 FLIGHT LOG