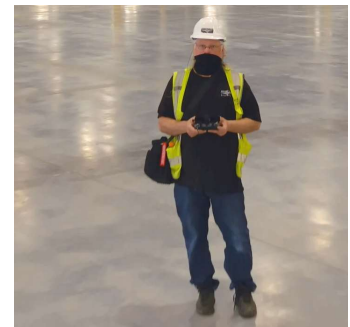
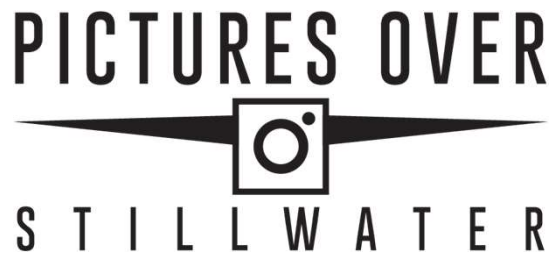


Airspace Planning & Authorization For Drone Operators

Tools, Tips And Tricks - Drone Safety Day April 25th 2026



By Greg Schulz – Pictures Over Stillwater

FAA Part 107 Certificated (Current) with OOP & OOMV Waivers

MnDoT Aeronautics Licensed Commercial Drone Operator

Professional Photographer, Videographer and FPV - MN FAASite Team Lead Rep DronePro

PicturesOverStillwater.com/links | facebook.com/PicturesOverStillwater
vimeo.com/picturesoverstillwater | twitter.com/POStillwater | Instagram.com/PicturesOverStillwater
picturesoverstillwater.smugmug | youtube.com/@picturesoverstillwater

Airspace Planning & Authorization for Drone Operators

Flying Smart, Flying Safe – Big Picture and Resources

<https://www.faasafety.gov/>

faasafety.gov/FAASTApp/directory/default.aspx

Select at least one of the following positions in your report

NFM
 Nat'l Admin
 RPOC
 FPM
 Lead Rep
 Rep
 Service Provider
 Industry Member
 Unassigned

Click to Hide Map

Click a State to view find FAASafety leaders by state.

Airspace Planning & Authorization for Drone Operators

General Reminders – National Air Space (NAS)

- ✓ NAS regulations apply to all (Hobby/Rec/TRUST, FPV, Part 107, Part 91 (Public UAS), 1st Responders, etc.)
- ✓ You as the operator are responsible for knowing what airspace you are or will be operating in
- ✓ This includes are you in controlled or uncontrolled airspace, are there any TFRs or NOTAMs

Some *Myth's* and *Reality*:

Myth: Hobby/Recreational operators can fly higher than 400' AGL if within 400' of a structure

Reality: 107.51(b) tower / inspection relief (within 400' of a structure) applies to Part 107 operators

Myth: Part 107 pilots in controlled airspace can fly higher than published grid within 400' of a structure

Reality: Unless a special authorization allows, controlled airspace authorizations are absolute AGL.

Myth: Airspace authorizations and TFRs don't apply to Hobby/Rec, FPV operators or drones less than 249g

Reality: TFRs apply to everyone, NAS authorization is required for everyone flying in controlled airspace

Myth: I don't need authorization as my peers don't do it and nobody gets caught

Reality: People have been caught, increase in drone detection technology make it more likely to get caught

Myth: Flying in the backyard with FPV or drone less than 249g below the trees don't need authorization

Reality: When in controlled airspace and/or TFR everyone needs an authorization

Airspace Planning & Authorization for Drone Operators

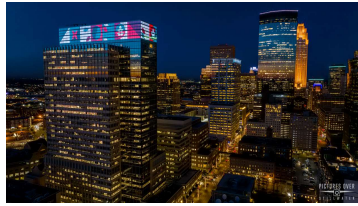
General Reminders – Licenses, Certificates, Registrations, Authorizations

- You are responsible for knowing the rules of the road (airspace)
 - Are you in controlled or uncontrolled airspace, do you have authorizations?
 - Are there any TFR or other airspace restrictions in place?
 - Are there any weather constraints (e.g. low ceiling) impacting airspace authorizations?
 - Saying I didn't know, nobody told me, that wasn't on the test, are not excuses
- People get Certificates aka Certifications
 - Some refer to as Licensed aka TRUST, Part 107, Part 91 (Public UAS) COW, Part 61, etc....
 - The Recreational UAS Safety Test (TRUST) certificate for Hobby/Recreational is free
https://www.faa.gov/uas/recreational_flyers/knowledge_test_updates
 - Reminder: Part 107 needs recurrent testing every 24 months (Free at faasafety.gov)
- Vehicles e.g. Aircraft get Registrations
 - Drones get registered* and if registered they require RID unless flown in a FRIA
 - Register your drones at FAA DroneZone (<https://faadronezone-access.faa.gov>)

* All Part 107 drones require registration & RID, Hobby/Recreational drones > 249g require registration & RID

Airspace Planning & Authorization for Drone Operators

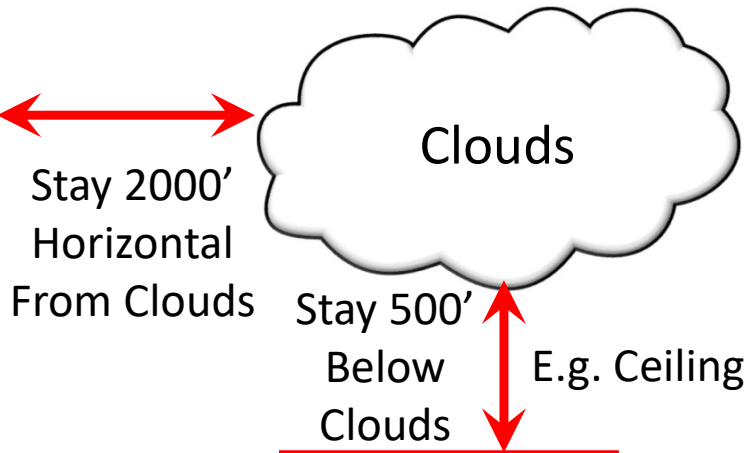
General Reminders – Outdoor NAS Drone Regulations



3 statute mile
visibility

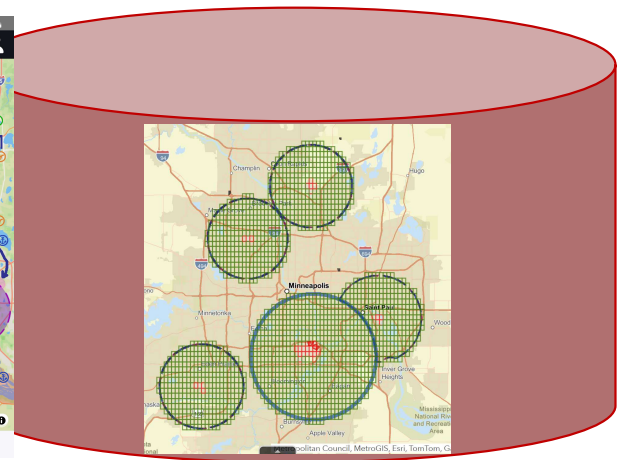
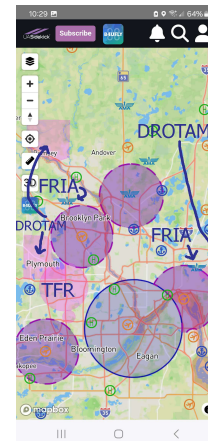


OOP/OOMV



Max Alt(1) 400' AGL
Unless Specified
Lower In Controlled
Airspace Grid

- What Airspace Will You Be Flying In?
- Controlled, Uncontrolled, Both?
- Airspace Authorization (LAANC) needed?
- Do you have or need any waivers?
- Any TFRs/MOAs or restricted areas?
- Any Ground Restrictions (e.g. Parks etc.)?



- (1) Hobby/Rec limited to 400' AGL in uncontrolled, altitudes in Controlled are absolute unless waiver or special authorization
- (2) Pay attention to OOP/OOMV regulations, aircraft requirements, waiver criteria for operations

Airspace Planning & Authorization for Drone Operators

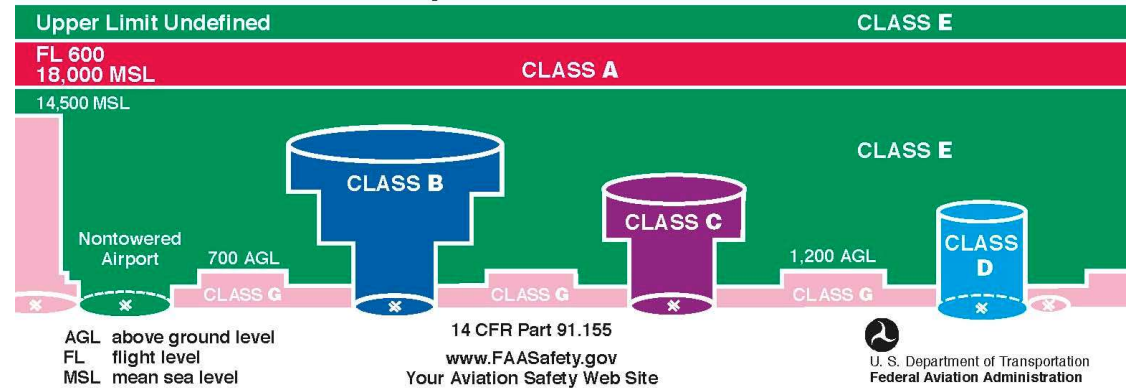
Flying Smart, Flying Safe – Airspace Big Picture Review

The National Air Space (NAS):

- Uncontrolled
 - E.g. Class G
- Controlled
 - Class A “Alpha”
 - Class B “Bravo”
 - Class C “Charlie”
 - Class D “Delta”
 - Class E “Echo” *
- Special Use
 - Military Operation Area (MOA)
 - Prohibited Areas and others
- Temporary Flight Restrictions (TFR)
 - Security, VIP, Emergency, Hazardous
 - Sporting Events, Locations like Disney

* There are various Class E “Echo” some require authorizations

U.S. Airspace Classes at a Glance



Airspace Class	Entry Requirement	Pilot Certificate or Rating	Two-Way Communication	Altitude Encoding Transponder	VFR Min. Visibility Below 10,000 MSL	VFR Min. Visibility 10,000 MSL and Above	VFR Cloud Clearance Below 10,000 MSL	VFR Cloud Clearance 10,000 MSL and Above
A	ATC Clearance	Instrument	Yes	Yes	N/A	N/A	N/A	N/A
B	ATC Clearance	Private Certificate or student with endorsement	Yes	Yes within 30 nm of the class B primary airport ¹	3 miles	3 miles	Clear of clouds	Clear of clouds
C	VFR: Radio Contact IFR: Clearance	Student Certificate	Yes	Yes within C space and above lateral limits of C space ¹	3 miles	3 miles	500 below 1,000 above 2,000 horizontal	500 below 1,000 above 2,000 horizontal
D	VFR: Radio Contact IFR: Clearance	Student Certificate	Yes	No unless required by other airspace	3 miles	3 miles	500 below 1,000 above 2,000 horizontal	500 below 1,000 above 2,000 horizontal
E	VFR: None IFR: Clearance	Student Certificate	IFR only	No unless required by other airspace	3 miles	5 miles	500 below 1,000 above 2,000 horizontal	1,000 below 1,000 above 1 mile horizontal
G	None	Student Certificate	No	No unless required by other airspace	Day: 1 mile Night: 3 miles	5 miles ²	500 below 1,000 above 2,000 horizontal	1,000 below 1,000 above 1 mile horizontal

¹ An altitude encoding transponder is required above 10,000 MSL.

² When flying 1,200 AGL or below: DAY: 1 mile visibility and clear of clouds; NIGHT: 3 miles visibility, 500 below, 1,000 above, 2,000 horizontal.

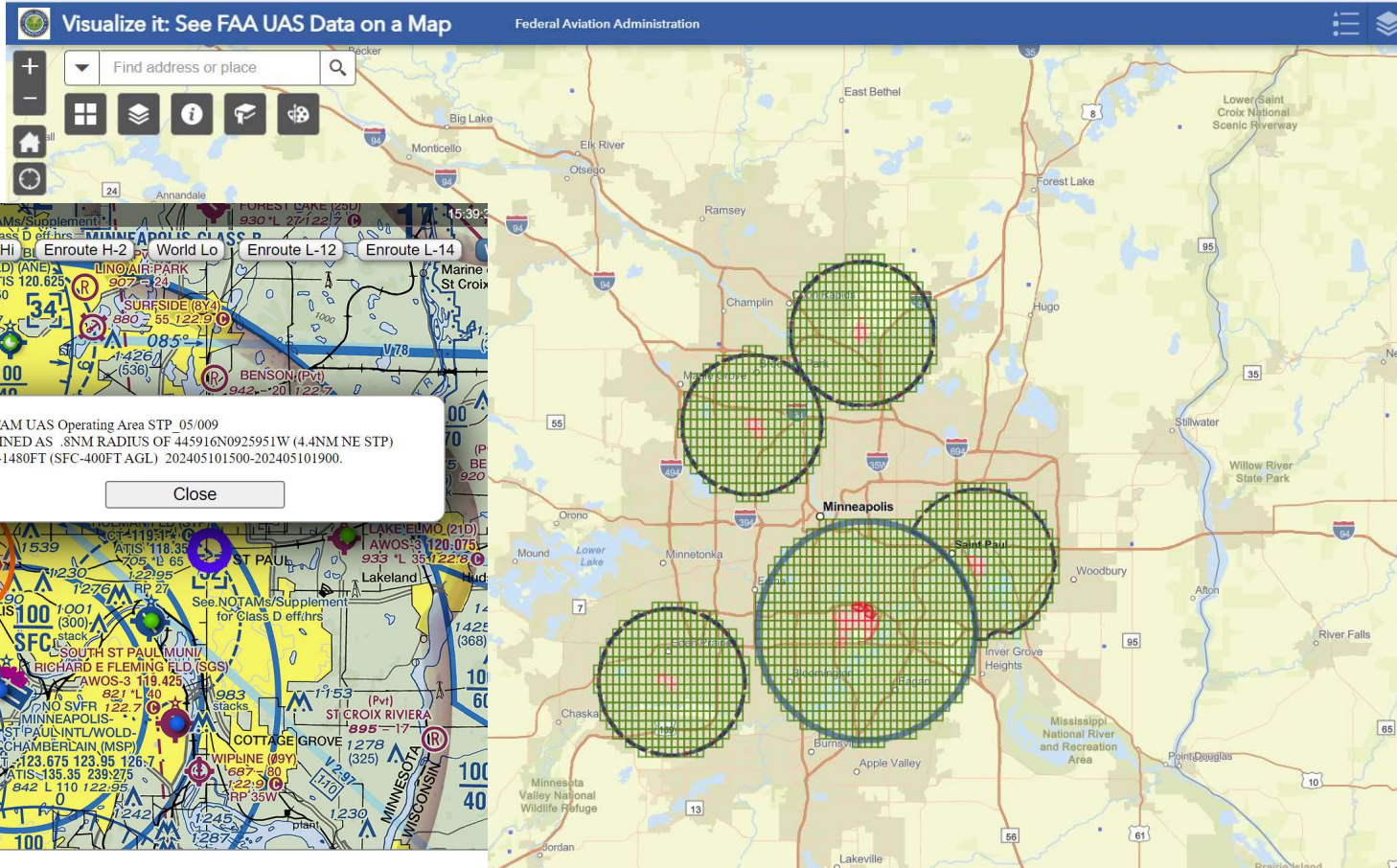
05/2016

Airspace Planning & Authorization for Drone Operators

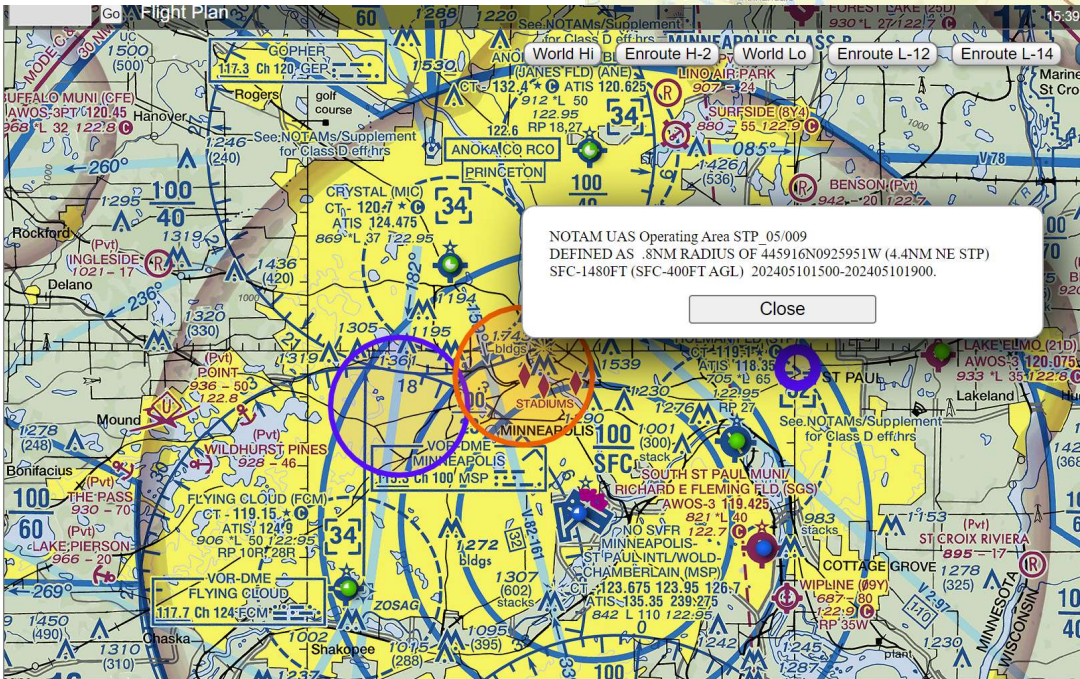
Looking at some airspace scenarios and tools near KMSP

Via FAA Visualize IT

← → ↻ arcgis.com/apps/webappviewer/index.html?id=9c2e4406710048e19806ebf6a06754ad



Via Skyvector

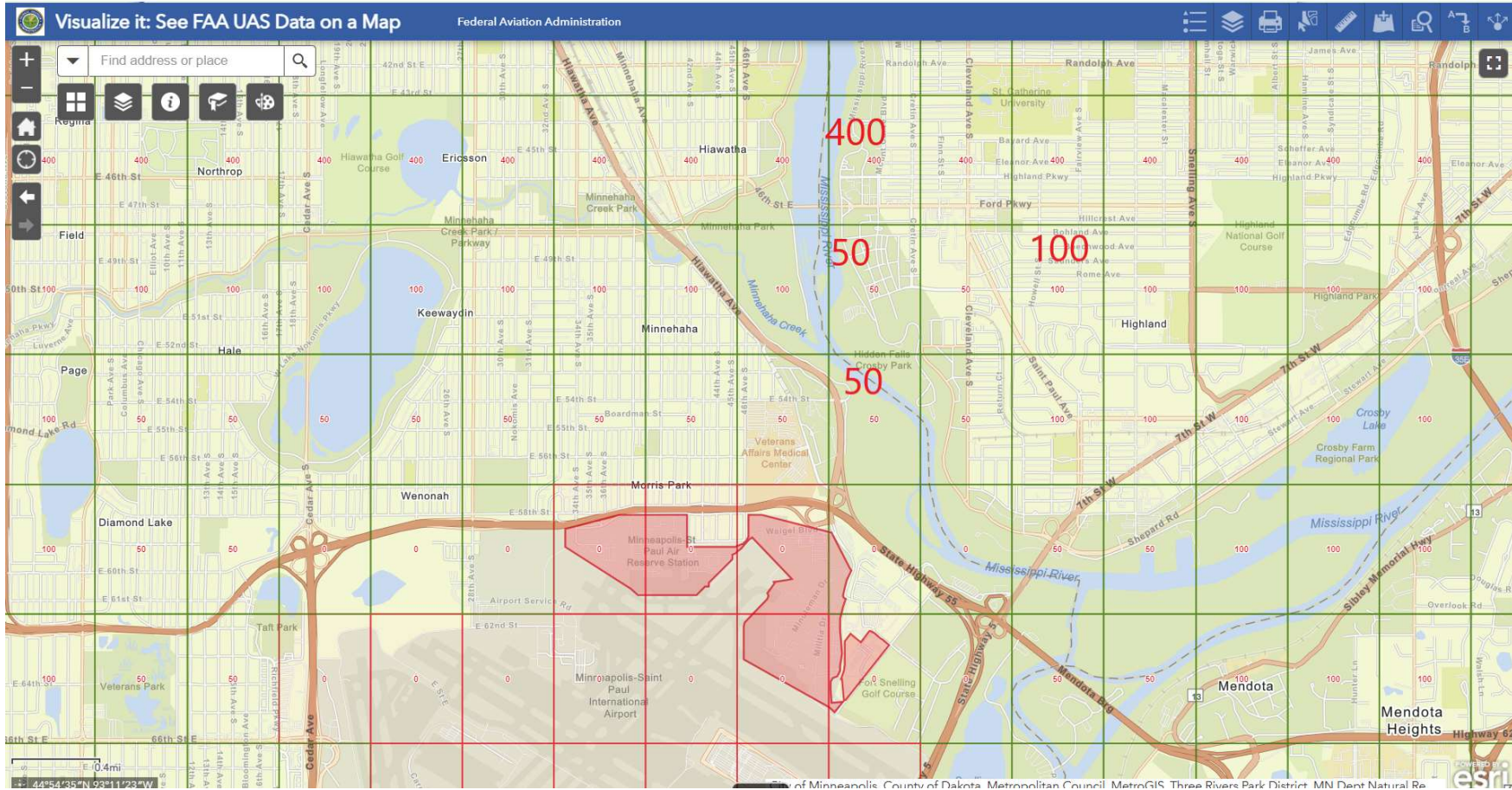


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Airspace Planning & Authorization for Drone Operators

Some airspace scenarios - Various Grid Altitudes (Altitudes are Absolute)

arcgis.com/apps/webappviewer/index.html?id=9c2e4406710048e19806ebf6a06754ad



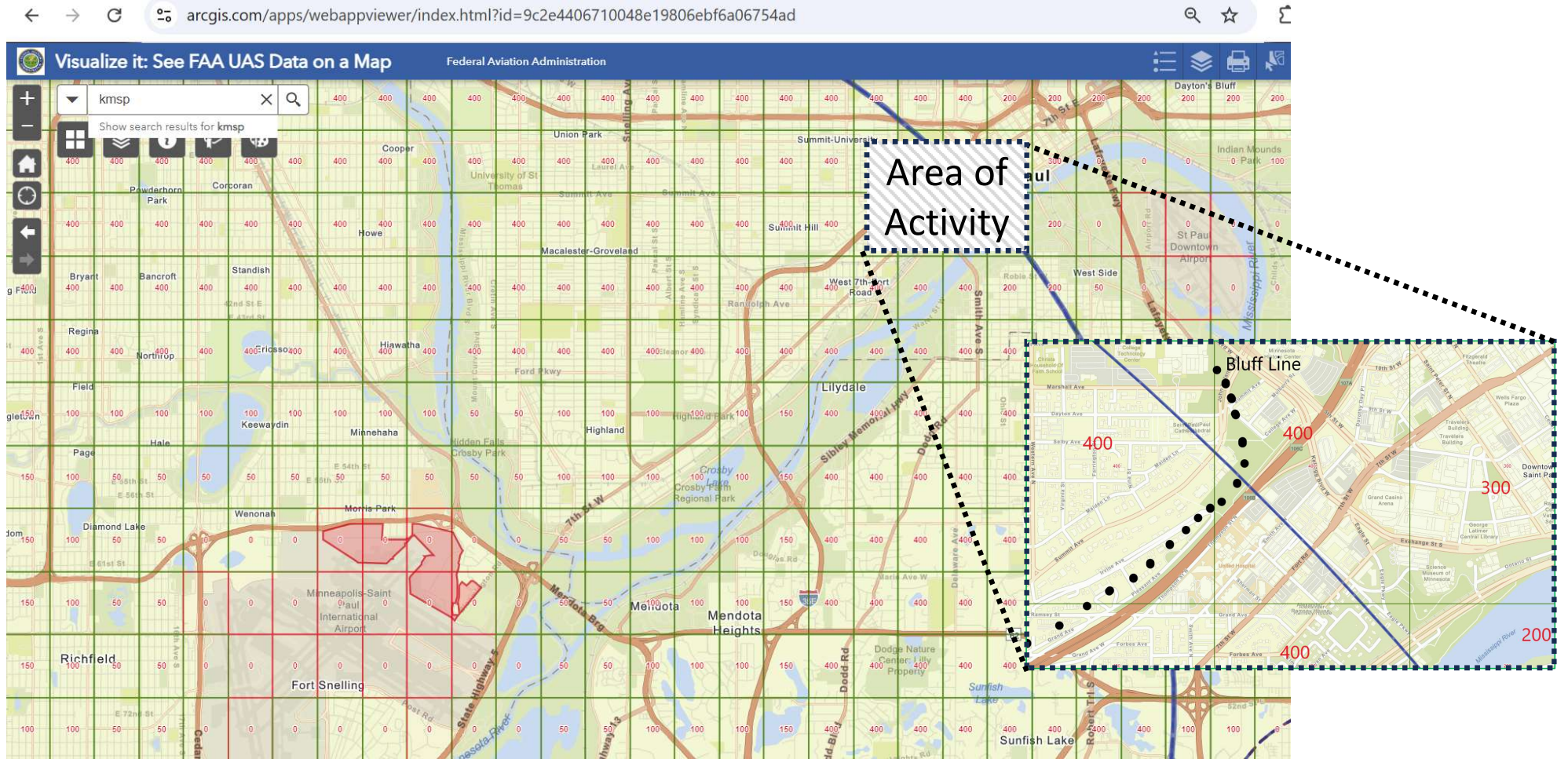
Airspace Planning & Authorization for Drone Operators

General Reminders – Airspace Authorizations

- LAANC – Low Altitude Authorization and Notification Capability
 - TRUST (44809/Hobby/Rec) and Part 107 operations can use LAANC
 - LAANC standard requests are generally very fast to get
 - You can request LAANC requests ad-hoc as needed, or in advance
 - You can have multiple LAANC in same area however there are limits
 - LAANC requests can also overlap, for addressing different grids (example of this later)
 - Enabled apps facilitate automated airspace authorization where available
 - B4UFly, Airdata, Aloft Aircontrol, UASidekick and many others
 - Some providers also have on-line web portals for LAANC (e.g. Aloft etc.)
 - For part 107, some areas may be eligible for further coordination (special authorizations)
 - Further coordination request requires at least 72 hours before operation
 - Tip: Be realistic, request what you need vs. what you want, be flexible and proactive
 - Tip: Read the details of your LAANC authorization, for example Class E weather minimums
 - Reminder: Acceptance of submission IS NOT an authorization, you will receive that separately

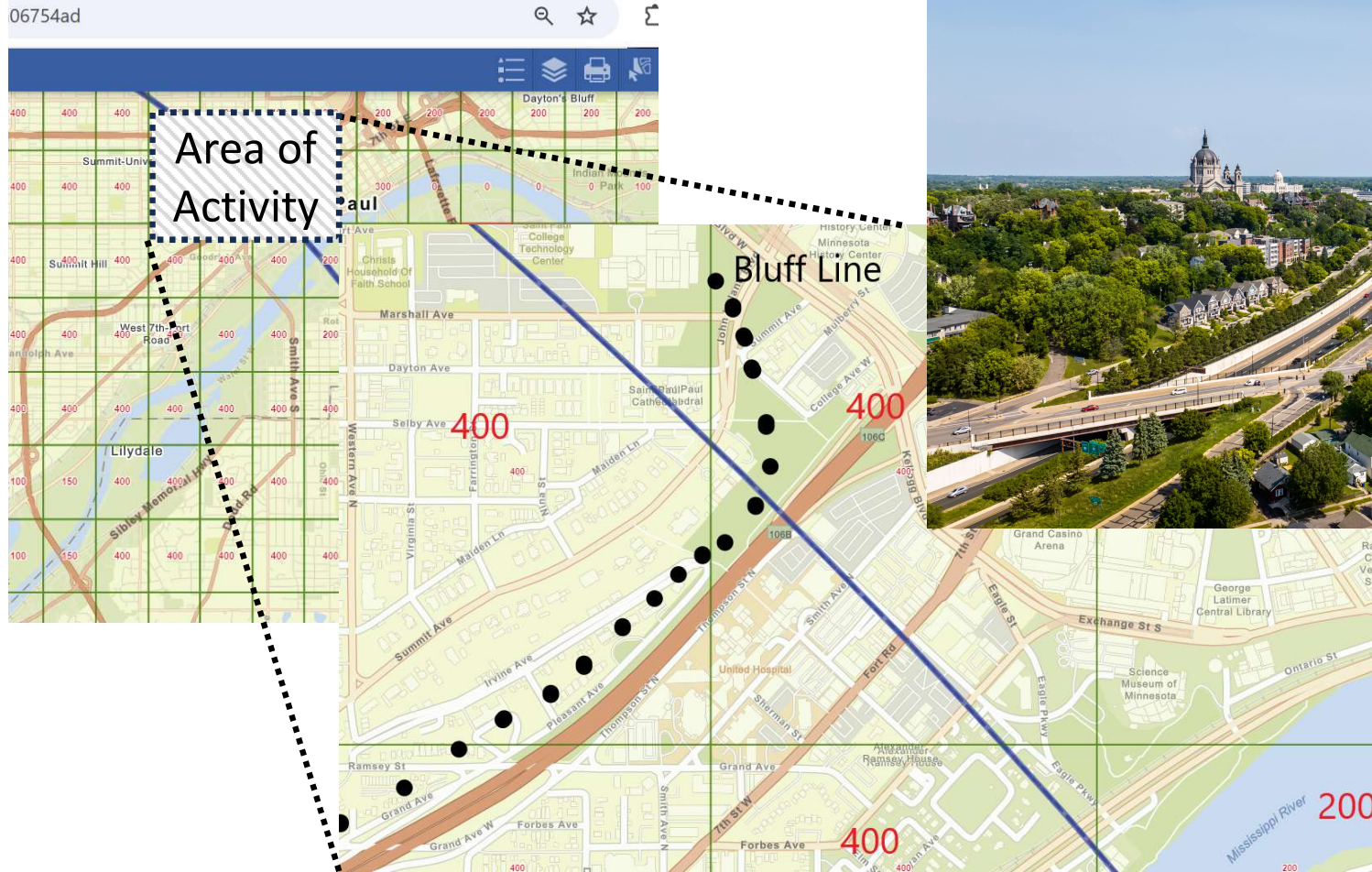
Airspace Planning & Authorization for Drone Operators

Some airspace scenarios – Working with sloping terrain/ bluffs in controlled airspace



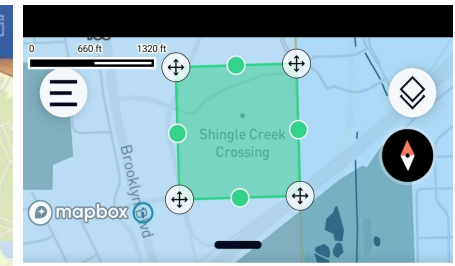
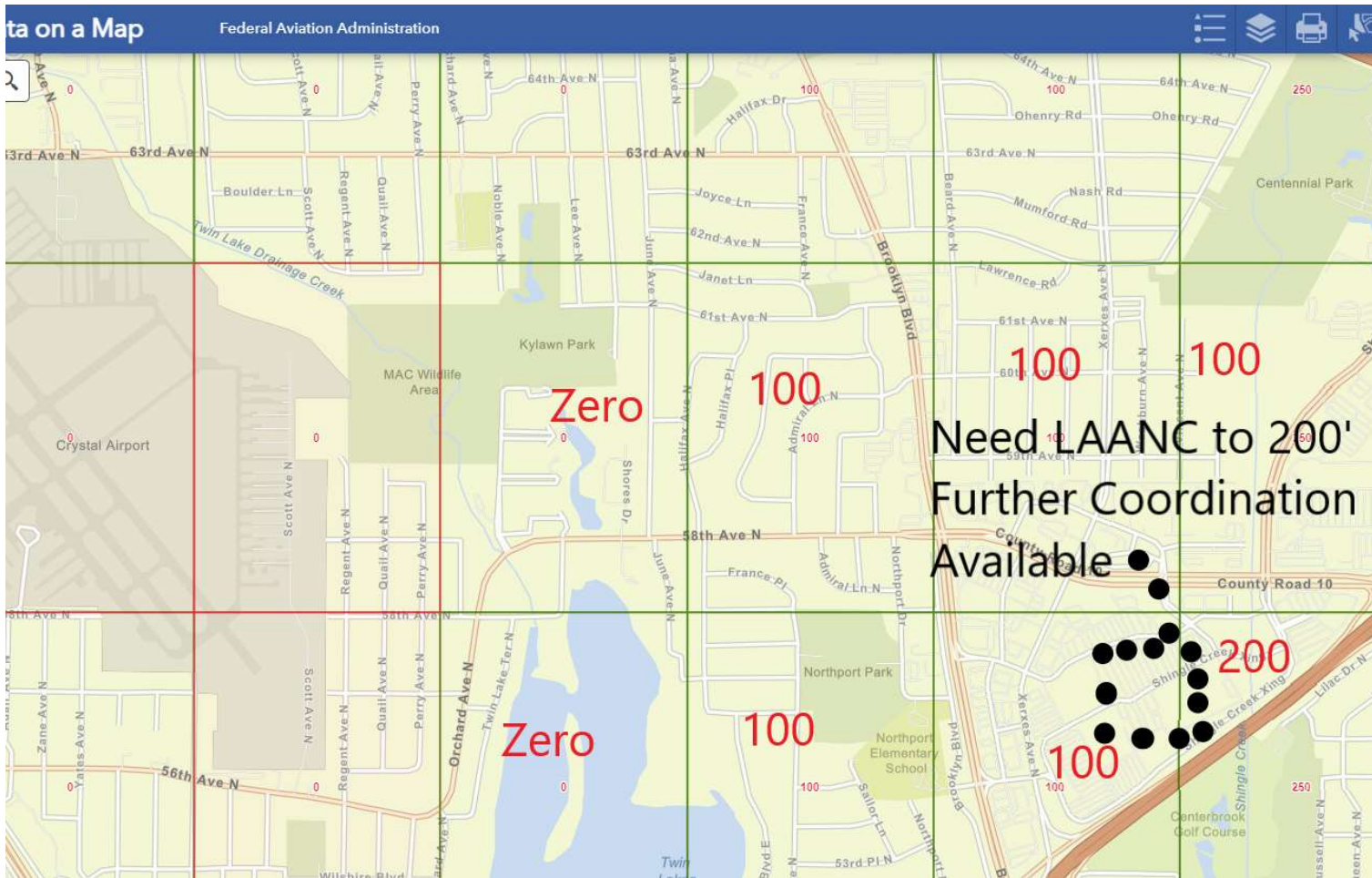
Airspace Planning & Authorization for Drone Operators

Some airspace scenarios – Working with sloping terrain/ bluffs in controlled airspace



Airspace Planning & Authorization for Drone Operators

Some airspace scenarios – LAANC Further Coordination near KMIC



Home Missions **LAANC**

LAANC Authorization Request
Eligible for further coordination up to 400 ft

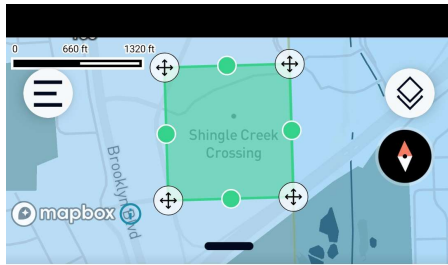


- ✓ Plan ahead
- ✓ At least 72 hours
- ✓ Request what you need
- ✓ Vs. what you want
- ✓ Be flexible
- ✓ Verify dates & times

[NEXT >](#)

Airspace Planning & Authorization for Drone Operators

Some airspace scenarios – LAANC Further Coordination near KMIC



Home Missions **LAANC**

LAANC Authorization Request

When & how long?

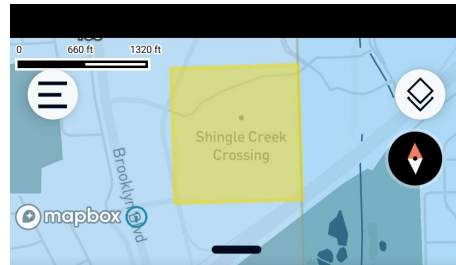
Date and Time
Apr 11, 2026 12:00p

Duration
2 hr 0 min

LAANC Notes:

- Authorizations can be made up to 90 days in advance.
- Each authorization can be made for up to 12 hours in duration and 10 nautical miles in area.
- All civil twilight operations require anti-collision lighting visible for at least

< BACK ●●● NEXT >



Home Missions **LAANC**

LAANC Authorization Request

Pre-Check Results

⚠ Eligible for Further Coordination

Authorizing Airport: MIC	Airspace Class: D
Start Date & Time: Apr. 11 2026 @ 12:00PM CDT	End Date & Time: Apr. 11 2026 @ 2:00PM CDT
Duration: 2 hr 0 min	

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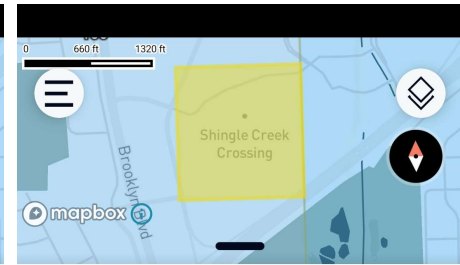
Home Missions **LAANC**

LAANC Authorization Request

Pre-Check Results

The operation exceeds the threshold of pre-approved authorizations from MIC airport. You may still submit for further coordination & review by the FAA. Further coordination is a manual process with commensurate timelines. The further coordination process targets less than 30 days but may take up to 90 days for the FAA to produce authorization or denial – or may expire without resolution. During this process, you'll receive updates from Aloft. Any direct contact with Air Traffic by phone may result in the request being denied by the FAA.

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Home Missions **LAANC**

LAANC Authorization Request

Pre-Check Results

up to 90 days for the FAA to produce authorization or denial – or may expire without resolution. During this process, you'll receive updates from Aloft. Any direct contact with Air Traffic by phone may result in the request being denied by the FAA.

LAANC authorizations are for operations in controlled airspace. If your flight plan covers both controlled and uncontrolled airspace (by time or location), only the proposed area of operation within the controlled airspace will be submitted to the FAA.

< BACK ●●● NEXT >

Airspace Planning & Authorization for Drone Operators

Some airspace scenarios – LAANC Further Coordination near KMIC

Home Missions LAANC

LAT: 45.056217
LONG: -93.319174

7 KMIC | Class D 51°

Airspace Weather

UAS Facility Map
Permissible altitude for authorization: 100 ft.

LAANC ALTNR8SOUHIO
Starts in 3 days.

Home Missions LAANC

LAANC Authorization Request

Review Info & Submit to FAA

Name: greg schulz
Phone Number: [REDACTED]
Part 107 Certification: [REDACTED]
Part 107 Issued Date: May 27, 2018

About LAANC
Aloft is a provider of UAS services within the FAA's Low-Altitude Authorization and Notification Capability (LAANC). LAANC may be used to satisfy compliance with Air Traffic authorization. Information provided here is based on real-time

AGREE & SUBMIT

10:01 5G+

Aloft LAANC

Wednesday, April 8

LAANC ALTNR8SOUHIO Submitted for Manual Review Pending FAA Review

The request is submitted to FAA for Further Coordination. Further Coordination is a manual process

with com timelines Further

Timeline

Wed, 04/08/2026 12:00pm CDT

Request Approved
Authorized by FAA

ALTNR8SOUHIO / MIC 04/11/26 12:00 pm CDT - 04/11/26 2:00 pm CDT 200ft. In accordance with Title 14 CFR Part 107.41, your operation is authorized within the designated airspace and timeframe constraints. Altitude limits are absolute values above ground level which shall not be added to the height of any structures. This Authorization is subject to cancellation at any time upon notice by the FAA Administrator or his/her authorized representative. This Authorization does not constitute a waiver of any State law or local ordinance. greg schulz is the person designated as responsible for the overall safety of UAS operations under this Authorization. During UAS operations for on-site communication/local, greg schulz shall be continuously available for direct contact at (612) 810-9890 by Air Traffic. Remote pilots are responsible to check the airspace they are operating in and comply with all restrictions that may be present in accordance with 14 CFR 107.45 and 107.49 (a)(2), such as restricted and Prohibited Airspace, Temporary Flight Restrictions, etc. Remote pilots are also responsible for complying with the operating requirements in 14 CFR 107.29(a) when operating at night. Operations are not authorized in Class E airspace when there is a weather ceiling less than 1,000 feet AGL. If the UAS loses communications or loses its GPS signal, it must return to a predetermined location within the operating area and land. The remote pilot in command must abort the flight in the event of unpredicted obstacles or emergencies. This certificate shall be presented for inspection upon the request of any authorized representative of the Federal Aviation Administration, or of any Federal, State, or municipal official charged with the duty of enforcing local laws or regulations.

Wed, 04/08/2026 10:01am CDT

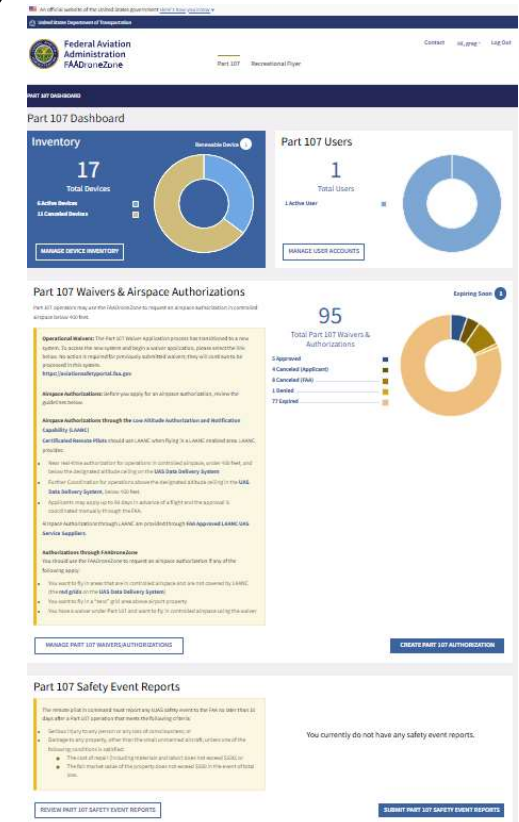
- ✓ Plan ahead, approval time can vary
- ✓ Allow time in case request rejected
- ✓ If rejected there will be a reason
- ✓ Resubmit adjusting request
- ✓ Be flexible, time, area, altitude
- ✓ View WX forecast (wind direction)
- ✓ Look at authorization details (wx)
- ✓ DON'T CONTACT TOWER unless told to do so...

Airspace Planning & Authorization for Drone Operators

General Reminders – Aircraft Registrations, Authorizations

- FAA DroneZone – Aircraft registrations, authorizations, waivers

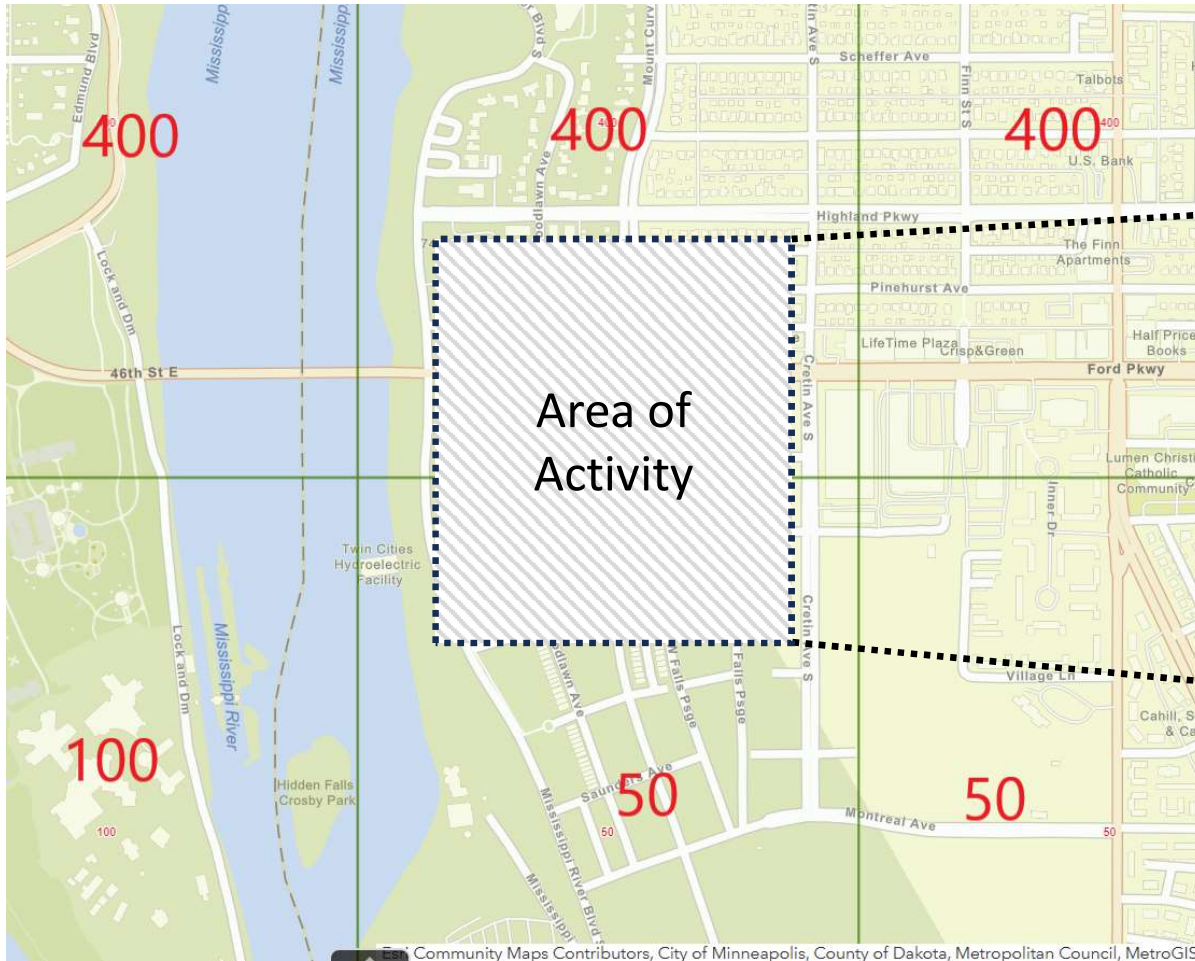
- For Hobby/Rec/44809 and Part 107 aircraft registration
- Airspace authorizations and waivers for Part 107
- Waivers can provide relief from Part 107 regulations
- Airspace authorizations 107.41 Certificate of Authorization (CoA)
 - Special airspace access and altitudes
 - Recurring flights at a given location
 - Require advance planning, they take more time
 - May have special requirements when used
 - Special CoA combine waivers & airspace authorizations
- Tip: Be specific, flexible for what you need, specify risk mitigation
- Tip: Plan ahead, be prepared in advance vs. last minute
- Tip: Look at approved waivers when you prepare a waiver request
- For SGI and TFR authorizations visit TSA/FAA AAP:
 - <https://waivers.faa.gov/aap>



faadronezone-operator.faa.gov

Airspace Planning & Authorization for Drone Operators

Some airspace scenarios – Standard LAANC, further coordination and DroneZone



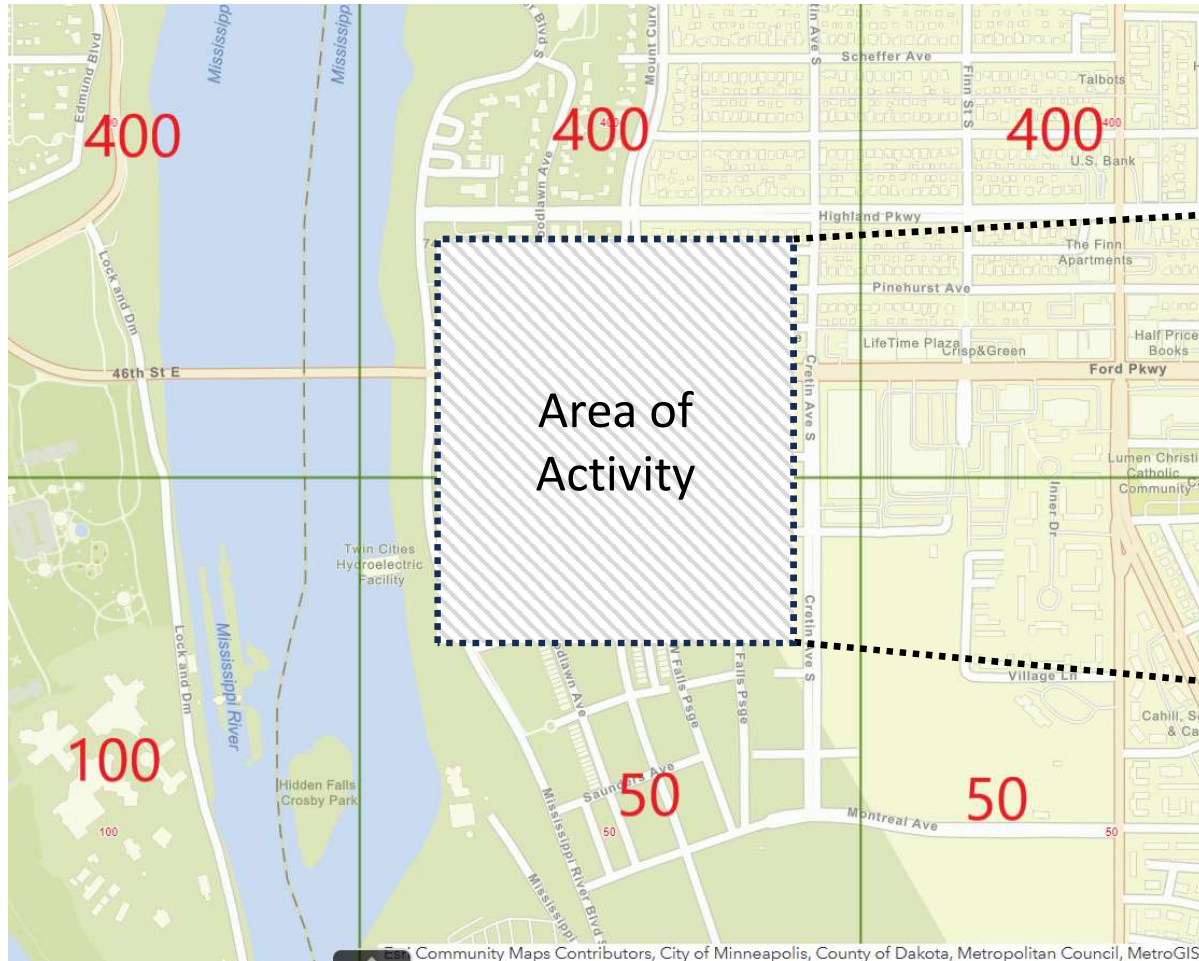
Part 107 may be eligible for further coordination at least 72 hours in advance, also via DroneZone.

400' AGL LAANC #2	No Fly Without Special Authorization Special Conditions May Apply
LAANC #1 50' AGL	

If you had to fly a scenario like above, do 2 LAANC overlap authorizations.
Tip: Watch your Auto RTH altitudes!!!
Reminder altitudes are Absolute

Airspace Planning & Authorization for Drone Operators

Some airspace scenarios – Standard LAANC, further coordination and DroneZone



In this scenario, you have either received further coordination via LAANC or a Dronezone 107.41 CoA to fly up to 150' vs 50' AGL Absolute.

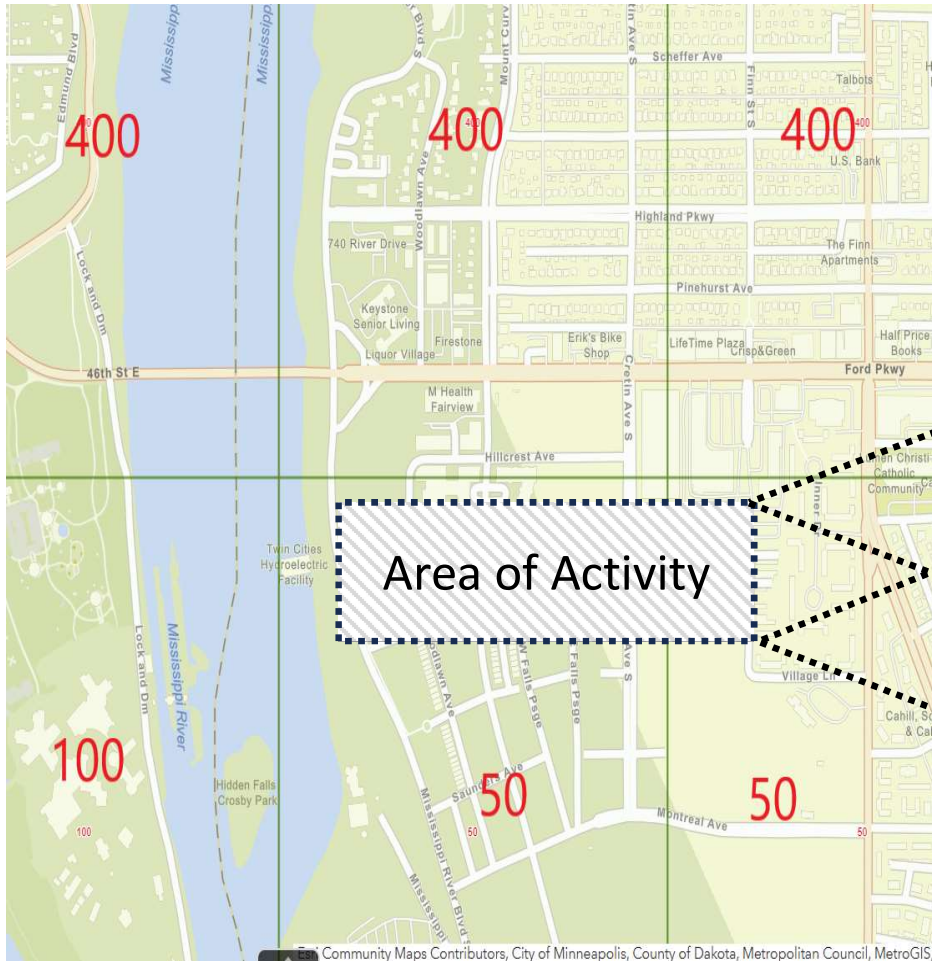
400' AGL
LAANC #2
No Fly Without Special Authorization
Special Conditions May Apply

CoA 107.41
150' AGL

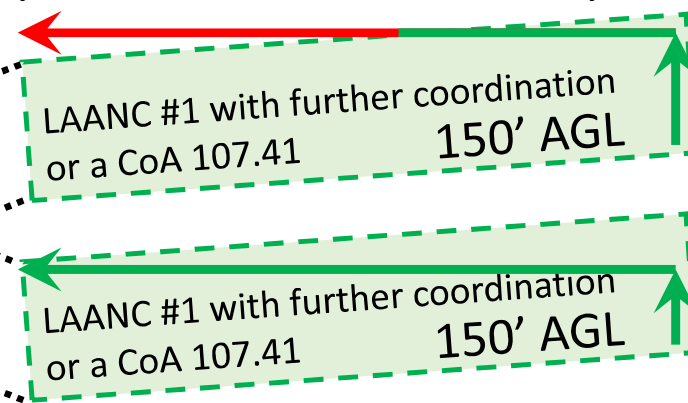
For a scenario like above, do a LAANC for the 400' grid, and then underlap the lower grid below the 400' with 107.41 CoA for the 150' in 50' grid.

Airspace Planning & Authorization for Drone Operators

Some airspace scenarios – Working with sloping terrain and constrained airspace



In this scenario assume the ground slopes downward 50' from east to west, right to left over the width of the grid. Assume you have an authorization up to 150' AGL In the 50' Grid (Absolute). Assume take off from east side of grid, you fly up to 140' AGL and fly west, you would be out and above your authorization.



Take off to 140' AGL, fly west no buffer

Take off to 100' AGL, fly west with a buffer

For scenarios like above, have a buffer for slope terrain or adjust flt altitude to compensates. Example, you could set your altitude to 100' AGL from take off point, then fly level. Tip: verify your RTH heights.

Airspace Planning & Authorization for Drone Operators

General Reminders – Airspace Authorizations and Waivers

- FAA Part 107 Waivers and air space authorizations (beyond LAANC)
 - Utilize the FAA DroneZone website <https://faadronezone-access.faa.gov>
 - For airspace authorization, specify why needed vs. using LAANC (e.g. recurring, special)
 - For waiver planning, utilize the FAA Part 107 waivers page:
https://www.faa.gov/uas/commercial_operators/part_107_waivers
 - Tip: For airspace, know your area, adjacent airports, their ops during various wx/wind
 - Tip: Be prepared and patient, be practical and flexible, waivers can take time
 - Tip: Plan ahead, convey your risk mitigation and safety process in your request
 - Tip: Review approved waivers, see what requirements listed, address those in your request
 - Tip: Demonstrate that you have done your homework for a safe operation
 - Tip: You may need an additional authorization to combine your airspace with waiver
 - Tip: Read through your waiver, especially if you had someone else prepare it for you!
 - Note: For SGI Emergency and TFR request, use the AAP site/process (shown later)

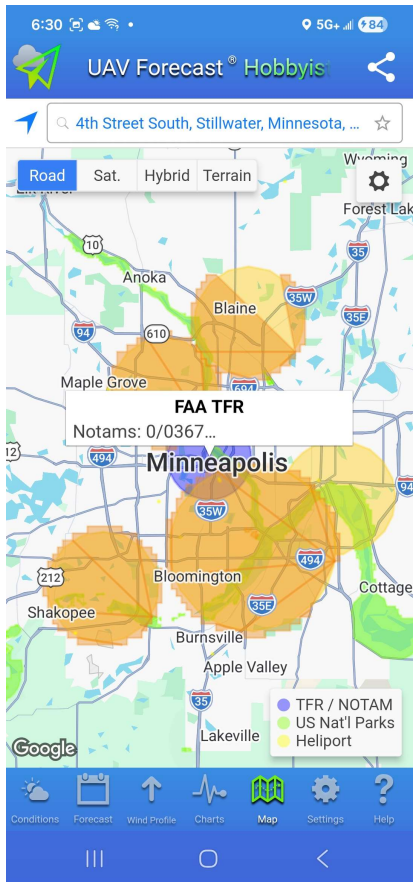
Airspace Planning & Authorization for Drone Operators

General Reminders – Temporary Flight Restrictions (TFRs)

- Temporary Flight Restrictions (TFRs) - <https://tfr.faa.gov/tfr3/?page=list>
 - Read the text of TFRs to see where, when, who applies to and contact info
 - There are different types of TFRs initiated by FED on behalf of requestor:
 - 91.137 Hazard TFRs
 - ❖ 137(a)(1) Hazardous sites, accidents; 137(a)(2) Fire fighting; 137(a)(3) Sight seeing (rare)
 - 91.141 VIP TFRs
 - ❖ POTUS & VPOTUS
 - 91.143 Space TFRs (Launch) and 99.7 National Security TFR
 - ❖ Public Interest, Sports, Mass Gatherings, Certain Locations
 - Relatively new: 49 USC 44812 “Drone only” – Initiated by credentialed LEOs
 - Federal, State, Local, Tribal, Territorial/SLTT credentialed LEOs can request
 - Request at least 30 days before event, designated location 30,000 or more seats, or outdoors
 - Smaller venues with aggregate attendance of 100,000 over event dates
 - SGIs can operate within the TFR they request and manage

Airspace Planning & Authorization for Drone Operators

Some airspace scenarios – TFRs – 0/0367 Major Sporting Events (Manned & UAS)

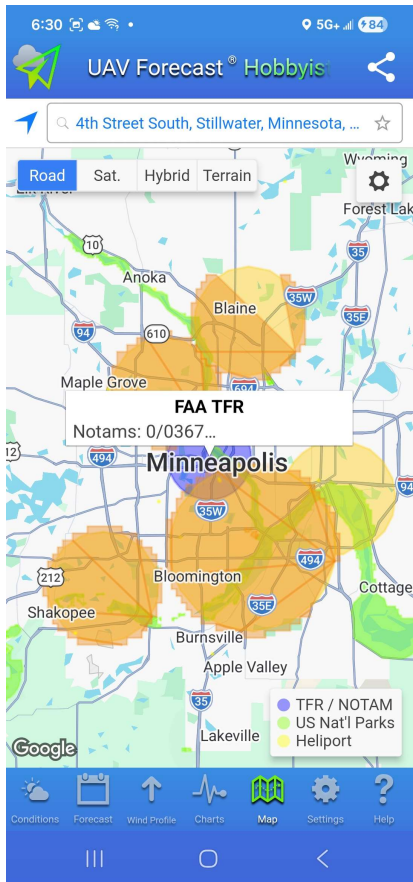


- MLB, NFL, NCAA Football (30K attendees), NASCAR among others
https://tfr.faa.gov/tfr3/?page=detail_0_0367
- 3 Nautical Mile radius around event, up to/including 3000' AGL
- Applies from an hour before until an hour after an event
- Contacts: UASHELP@FAA.GOV, 844-FLY-MY-UA, SOSC: 202-267-8276, TSA: 571-227-2071
[HTTPS://WAIVERS.FAA.GOV](https://waivers.faa.gov) and [HTTP://NOTAMS.AIM.FAA](http://notams.aim.faa) also FAA AAP site

FDC 0/0367 FDC PART 1 OF 4 SECURITY SPECIAL SECURITY INSTRUCTIONS (SSI) FOR SELECT SPORTING EVENTS. THIS NOTAM REPLACES FDC NOTAM 7/4319 TO CLARIFY ATC AUTHORIZATION OF TRANSITING FLIGHTS. THIS NOTAM IMPLEMENTS SECTION 352 OF PUBLIC LAW 108-7 AS AMENDED BY SECTION 521 OF PUBLIC LAW 108-199. PURSUANT TO 49 USC 40103(B)(3), THE FEDERAL AVIATION ADMINISTRATION (FAA) CLASSIFIES THE AIRSPACE DEFINED IN THIS NOTAM AS 'NATIONAL DEFENSE AIRSPACE'. PILOTS WHO DO NOT ADHERE TO THE FOLLOWING PROCEDURES MAY BE INTERCEPTED, DETAINED AND INTERVIEWED BY LAW ENFORCEMENT/SECURITY PERSONNEL. ANY OF THE FOLLOWING ADDITIONAL ACTIONS MAY ALSO BE TAKEN AGAINST A PILOT WHO DOES NOT COMPLY WITH THE REQUIREMENTS OR ANY SPECIAL INSTRUCTIONS OR PROCEDURES ANNOUNCED IN THIS NOTAM: A) THE FAA MAY TAKE ADMINISTRATIVE ACTION, INCLUDING IMPOSING CIVIL PENALTIES AND THE SUSPENSION OR REVOCATION OF AIRMEN CERTIFICATES; OR B) THE UNITED STATES GOVERNMENT MAY PURSUE CRIMINAL CHARGES, INCLUDING CHARGES UNDER TITLE 49 OF THE UNITED STATES CODE, SECTION 46307; OR C) THE UNITED STATES GOVERNMENT MAY USE DEADLY FORCE AGAINST THE AIRBORNE AIRCRAFT, IF IT IS DETERMINED THAT THE AIRCRAFT POSES AN IMMINENT SECURITY THREAT. SECTION I. STADIUM OR SPORTS EVENTS: PURSUANT TO TITLE 14 CFR SECTION 99.7, SPECIAL SECURITY INSTRUCTIONS, ALL MANNED AND UNMANNED 2001150001-PERM END PART 1 OF 4 FDC 0/0367 FDC PART 2 OF 4 SECURITY SPECIAL SECURITY INSTRUCTIONS AIRCRAFT OPERATIONS ARE PROHIBITED EXCEPT AS SPECIFIED BELOW WITHIN AN **AREA DEFINED AS: 3 NMR OF A QUALIFYING STADIUM** OR OTHER SPORTING VENUE HOSTING A QUALIFYING EVENT **UP TO AND INCLUDING 3000FT AGL**. QUALIFYING LOCATIONS AND EVENTS ARE DEFINED AS ANY STADIUM OR OTHER SPORTING VENUE HAVING A **SEATING CAPACITY OF 30,000 OR MORE** WHERE: A. A REGULAR OR POST SEASON MAJOR LEAGUE BASEBALL, NATIONAL FOOTBALL LEAGUE, OR NCAA DIVISION ONE FOOTBALL GAME IS OCCURRING; OR B. A NASCAR CUP, INDY CAR, OR CHAMP SERIES RACE IS OCCURRING, EXCLUDING QUALIFYING AND PRE-RACE EVENTS. THIS FLIGHT PROHIBITION IS IN EFFECT ONE HOUR BEFORE THE SCHEDULED START UNTIL ONE HOUR AFTER THE END OF A QUALIFYING EVENT. SECTION II. OPERATING REQUIREMENTS (BASIC): THIS FLIGHT PROHIBITION APPLIES TO ALL MANNED AND UNMANNED AIRCRAFT OPERATIONS (INCLUDING TRAINING, PARACHUTE JUMPING, AND MODEL AIRCRAFT FLIGHTS) UNLESS THE AIRCRAFT OPERATOR MEETS AT LEAST ONE OF THE FOLLOWING REQUIREMENTS: A. THE AIRCRAFT OPERATION HAS BEEN AUTHORIZED BY ATC FOR OPERATIONAL OR SAFETY PURPOSES, INCLUDING AUTHORIZATION OF FLIGHTS SPECIFICALLY ARRIVING AT OR DEPARTING FROM AN AIRPORT DESIGNATED BY ATC USING STANDARD ATC PROCEDURES AND ROUTES; B. THE AIRCRAFT OPERATION IS BEING CONDUCTED FOR OPERATIONAL, SAFETY, OR SECURITY PURPOSES 2001150001-PERM END PART 2 OF 4 FDC 0/0367 FDC PART 3 OF 4 SECURITY SPECIAL SECURITY INSTRUCTIONS SUPPORTING THE QUALIFYING EVENT, AND IS AUTHORIZED BY AN AIRSPACE SECURITY WAIVER APPROVED BY THE FAA; C. THE AIRCRAFT OPERATION IS ENABLING BROADCAST COVERAGE FOR THE BROADCAST RIGHTS HOLDER FOR THE QUALIFYING EVENT, AND IS AUTHORIZED BY AN AIRSPACE SECURITY WAIVER APPROVED BY THE FAA; D. THE AIRCRAFT OPERATION HAS BEEN AUTHORIZED BY ATC FOR NATIONAL SECURITY, HOMELAND SECURITY, LAW ENFORCEMENT, OR AIR AMBULANCE PURPOSES; SECTION III. RESOURCES: A. PILOTS OPERATING IN THE DEFINED AIRSPACE ARE REMINDED THAT AN FAA AIRSPACE SECURITY WAIVER DOES NOT RELIEVE OPERATORS FROM OBTAINING ALL OTHER NECESSARY AUTHORIZATIONS, INCLUDING THOSE SPECIFIC TO FLIGHTS OVER EVENTS HELD IN STADIUMS AND OTHER SPORTING VENUES, AND COMPLYING WITH ALL APPLICABLE FEDERAL AVIATION REGULATIONS. B. PILOTS MUST CONTINUOUSLY SQUAWK AN ATC-ASSIGNED BEACON CODE AND MAINTAIN 2-WAY RADIO CONTACT WITH ATC WHILE OPERATING IN THE DEFINED AIRSPACE. C. UAS OPERATORS WHO DO NOT COMPLY WITH APPLICABLE AIRSPACE RESTRICTIONS ARE WARNED THAT PURSUANT TO 10 U.S.C. SECTION 1301 AND 6 U.S.C. SECTION 124N, THE DEPARTMENT OF DEFENSE (DOD), THE DEPARTMENT OF HOMELAND SECURITY (DHS) OR THE DEPARTMENT OF JUSTICE (DOJ) MAY TAKE SECURITY ACTION THAT RESULTS IN THE INTERFERENCE, DISRUPTION, SEIZURE, DAMAGING, OR 2001150001-PERM END PART 3 OF 4 FDC 0/0367 FDC PART 4 OF 4 SECURITY SPECIAL SECURITY INSTRUCTIONS DESTRUCTION OF UNMANNED AIRCRAFT DEEMED TO POSE A CREDIBLE SAFETY OR SECURITY THREAT TO PROTECTED PERSONNEL, FACILITIES, OR ASSETS. D. ALL PREVIOUSLY ISSUED WAIVERS TO FDC NOTAM 7/4319 REMAIN VALID UNTIL THE SPECIFIED END DATE BUT NOT TO EXCEED 90 DAYS FOLLOWING THE EFFECTIVE DATE OF THIS NOTAM. INFORMATION ABOUT AIRSPACE SECURITY WAIVER APPLICATIONS AND TSA SECURITY AUTHORIZATIONS CAN BE FOUND AT [HTTP://WWW.TSA.GOV/STAKEHOLDERS/AIRSPACE-WAIVERS-0](http://www.tsa.gov/stakeholders/airspace-waivers-0) OR BY CALLING [TSA AT 571-227-2071](tel:571-227-2071). E. SUBMIT REQUESTS FOR FAA AIRSPACE WAIVERS AT [HTTPS://WAIVERS.FAA.GOV](https://waivers.faa.gov). F. FAA RECOMMENDS THAT ALL AIRCRAFT OPERATORS CHECK NOTAMS FREQUENTLY FOR POSSIBLE CHANGES TO THIS TFR PRIOR TO OPERATIONS WITHIN THIS REGION AT [HTTP://NOTAMS.AIM.FAA.GOV](http://notams.aim.faa.gov) AND SELECT NOTAM SEARCH. G. THE **SYSTEM OPERATIONS SUPPORT CENTER (SO SC) IS THE POINT OF CONTACT AND COORDINATION FACILITY FOR ANY QUESTIONS REGARDING THIS NOTAM** AND ARE AVAILABLE DAILY FROM 0700-2300 EASTERN, [PHONE 202-267-8276](tel:202-267-8276). 2001150001-PERM END PART 4 OF 4

Airspace Planning & Authorization for Drone Operators

Some airspace scenarios – NOTAM – 6/4375 DOD/DHS/DOE – UAS



- Special NOTAM/TFR April 16, 2026 https://tfr.faa.gov/tfr3/?page=detail_6_3366
 - Replaces previously posted NOTAM/TFRs from January 16, 2026
 - DOD (Military), DOE (Nuclear Plants etc.), DHS (Coast Guard, CBP, etc.) & DOJ
 - Applies to fixed facilities, convoys, ships/vehicles in transit
 - Also view <https://udds-faa.opendata.arcgis.com/pages/active-uas-notams>

FDC 6/3366 FDC PART 1 OF 4 SECURITY..SPECIAL SECURITY INSTRUCTIONS FOR UNMANNED AIRCRAFT SYSTEM (UAS) OPERATIONS FOR MULTIPLE LOCATIONS NATIONWIDE. THIS NOTAM **REPLACES NOTAM FDC 5/2595** TO PROVIDE UPDATED INSTRUCTIONS. PURSUANT TO 49 U.S.C. SECTION 40103(B)(3), THE FAA CLASSIFIES THE AIRSPACE DEFINED IN THIS NOTAM AND IN FURTHER DETAIL AT THE FAA WEBSITE IDENTIFIED BELOW AS 'NATIONAL DEFENSE AIRSPACE'. OPERATORS WHO DO NOT COMPLY WITH THE FOLLOWING PROCEDURES MAY FACE THE FOLLOWING ENFORCEMENT ACTIONS: THE UNITED STATES GOVERNMENT MAY PURSUE CRIMINAL CHARGES, INCLUDING CHARGES UNDER 49 U.S.C. SECTION 46307; AND THE FAA MAY TAKE ADMINISTRATIVE ACTION, INCLUDING IMPOSING CIVIL PENALTIES AND REVOKING FAA CERTIFICATES OR AUTHORIZATIONS TO OPERATE UNDER TITLE 49 U.S.C. SECTIONS 44709 AND 46301. IN ADDITION, PURSUANT TO 10 U.S.C. SECTION 1301, 10 U.S.C. SECTION 6227, 6 U.S.C. SECTION 124N, AND 50 USC 3515A THE DEPARTMENT OF DEFENSE (DOD), DEPARTMENT OF ENERGY (DOE), DEPARTMENT OF HOMELAND SECURITY (DHS), DEPARTMENT OF JUSTICE (DOJ), OR CENTRAL INTELLIGENCE AGENCY (CIA) RESPECTIVELY, MAY TAKE SECURITY ACTION AT OR IN THE VICINITY OF SPECIFIC LOCATIONS PRE-COORDINATED WITH THE FAA WI A SUBSET OF THE DEFINED AIRSPACE, OR IN RESTRICTED OR PROHIBITED AIRSPACE ADJ TO SUCH LOCATIONS, THAT RESULTS IN THE 2604161700-2804161659 END PART 1 OF 4 FDC 6/3366 FDC PART 2 OF 4 SECURITY..SPECIAL SECURITY INSTRUCTIONS FOR UNMANNED INTERFERENCE, DISRUPTION, SEIZURE, DAMAGING, OR DESTRUCTION OF UNMANNED ACFT CONSIDERED TO POSE A SAFETY OR SECURITY THREAT TO FACILITIES OR ASSETS. PURSUANT TO 14 C.F.R. SECTION 99.7, SPECIAL SECURITY INSTRUCTIONS (SSI), ALL UAS FLIGHT OPS ARE **PROHIBITED: WI THE DEFINED AIRSPACE OVER SELECT NATIONAL SECURITY SENSITIVE LOCATIONS EXCEPT AS PROVIDED FOR BELOW.** REFER TO THE FOLLOWING FAA WEBSITE: [HTTPS://UDDS-FAA.OPENDATA.ARCGIS.COM](https://udds-faa.opendata.arcgis.com) FOR: A LIST OF THESE SELECTED LOCATIONS AND FACILITIES, AND VISUAL DEPICTIONS, ALTITUDES, AND GEOSPATIAL DEFINITIONS OF THE OVERLYING AIRSPACE IN WHICH UAS OPS ARE PROHIBITED; A LIST OF A SPECIFIC SUBSET OF LOCATIONS AND FACILITIES, AND VISUAL DEPICTIONS, ALTITUDES, AND GEOSPATIAL DEFINITIONS OF THE OVERLYING AIRSPACE IN WHICH NON-COMPLIANT UAS OPS MAY BE SUBJECT TO THE SECURITY ACTION CITED ABV; DESIGNATED FACILITY CONTACTS, WHICH MAY BE CONTACTED BY UAS OPERATORS NEEDING TO OPERATE IN THE DEFINED AIRSPACE FOR OVERRIDING REASONS OF PUBLIC INTEREST OR NECESSITY (SUCH AS IN DIRECT SUPPORT OF AN ACTIVE NATIONAL DEFENSE, HOMELAND SECURITY, LAW ENFORCEMENT, FIREFIGHTING, SEARCH AND RESCUE, OR DISASTER RESPONSE MISSION; OR COMMERCIAL ACTIVITY); AND OTHER IMPORTANT INFORMATION, 2604161700-2804161659 END PART 2 OF 4 FDC 6/3366 FDC PART 3 OF 4 SECURITY..SPECIAL SECURITY INSTRUCTIONS FOR UNMANNED INCLUDING THE TIMES IN WHICH THE SSI ARE IN EFFECT. THE SSI APPLIED TO THE DEFINED AIRSPACE ARE CONTINUOUS UNLESS OTHERWISE INDICATED BY THE FAA'S UDDS WEBSITE. SOME SSI ARE ONLY IN EFFECT DURING RECURRING INTERMITTENT PERIODS SPECIFIED BY THE FAA IN THE UDDS WEBSITE. OPERATORS ARE URGED TO CHECK THIS FAA WEBSITE FREQUENTLY BEFORE AND DURING UAS FLIGHTS, ESPECIALLY WHEN OPERATING IN THE VCY OF OR WI THE DEFINED AIRSPACE TO WHICH RECURRING INTERMITTENT SSI ARE APPLIED. SOME OF THE DEFINED SSI AIRSPACE MAY BE NEAR OR ADJACENT TO SPECIAL USE AIRSPACE (SUA), INCLUDING PROHIBITED AREAS AND RESTRICTED AREAS ESTABLISHED PURSUANT TO 14 C.F.R. PART 73. OPERATORS MUST MAINTAIN FAMILIARITY AND COMPLY WITH SUA REQUIREMENTS. UAS OPS ARE AUTH WI THE DEFINED SSI AIRSPACE IF IN COMPLIANCE WITH THE REQUIREMENTS LISTED BELOW AND THE UAS FLIGHT OPERATION COMPLIES WITH ALL OTHER APPLICABLE FEDERAL AVIATION REGULATIONS: THE UAS FLIGHT OPERATION HAS BEEN PRE-APPROVED BY THE DESIGNATED FACILITY CONTACT BASED ON CRITERIA ESTABLISHED BY THE SPONSORING FEDERAL AGENCY IN COORDINATION WITH THE FAA; OR IF THE UAS FLIGHT OPERATION IS CONDUCTED IN DIRECT SUPPORT OF AN ACTIVE NATIONAL DEFENSE, HOMELAND SECURITY, LAW ENFORCEMENT, FIREFIGHTING, 2604161700-2804161659 END PART 3 OF 4 FDC 6/3366 FDC PART 4 OF 4 SECURITY..SPECIAL SECURITY INSTRUCTIONS FOR UNMANNED SEARCH AND RESCUE, OR DISASTER RESPONSE MISSION, AND PRIOR NOTIFICATION HAS BEEN PROVIDED TO THE DESIGNATED FACILITY CONTACT; OR IF THE UAS FLIGHT OPERATION IS CONDUCTED IN DIRECT SUPPORT OF A SIGNIFICANT AND URGENT GOVERNMENTAL INTEREST AND IS APPROVED BY THE FAA'S SYSTEM OPERATIONS SUPPORT CENTER (SOSC) IN ADVANCE OF ENTERING THE DEFINED SSI AIRSPACE. OPERATORS UNABLE TO SUCCESSFULLY COORDINATE WITH THE DESIGNATED FACILITY CONTACTS MAY **CONTACT THE FAA SYSTEM OPERATIONS SUPPORT CENTER (SOSC) AT 202-267-8276** FOR FURTHER ASSISTANCE. 2604161700-2804161659 END PART 4 OF 4

Airspace Planning & Authorization for Drone Operators

General Reminders – Special Airspace Authorizations (TFR and Restricted Access)

- FAA Airspace Access Program (AAP) - <https://waivers.faa.gov/aap>

- For special airspace authorizations (e.g. for TFRs or other special access)

- Plan ahead, allow time for processing

- Have permissions on signed letterhead

- Manifest (pilot, crew, passengers)

- For UAS you specify remote pilot

- Security process and statement

- Flight operations narrative and maps

- Equipment to be used (reg, SN#)

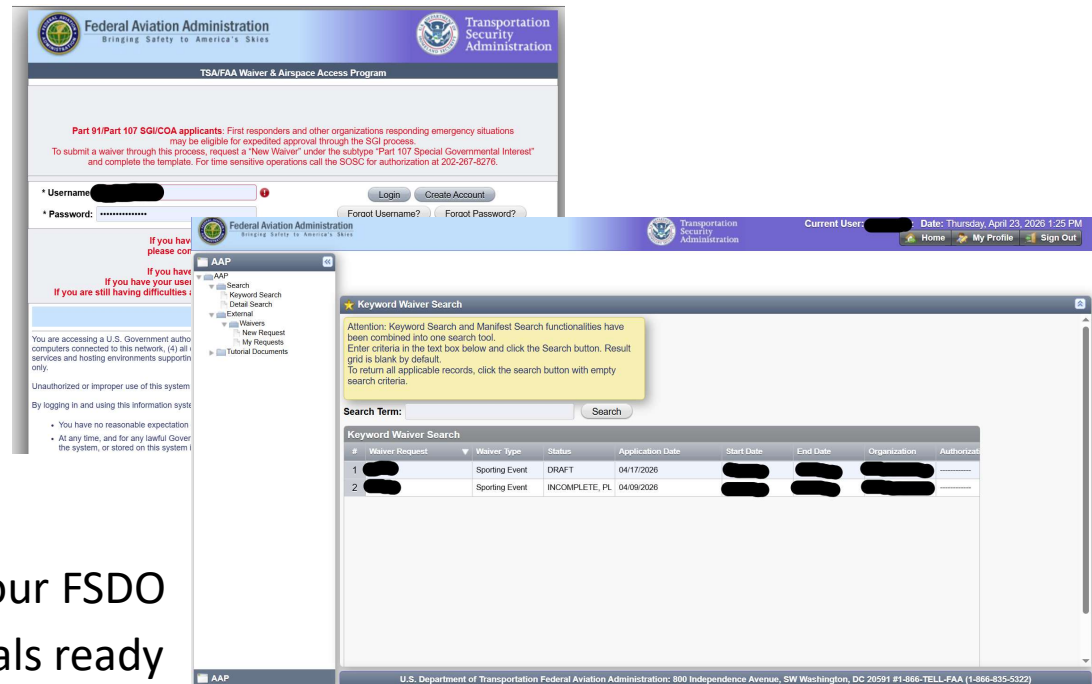
- You would still need airspace auth

- Tip: Read TFR for contact agency/entity

- Tip: Be prepared, plan ahead, talk with your FSDO

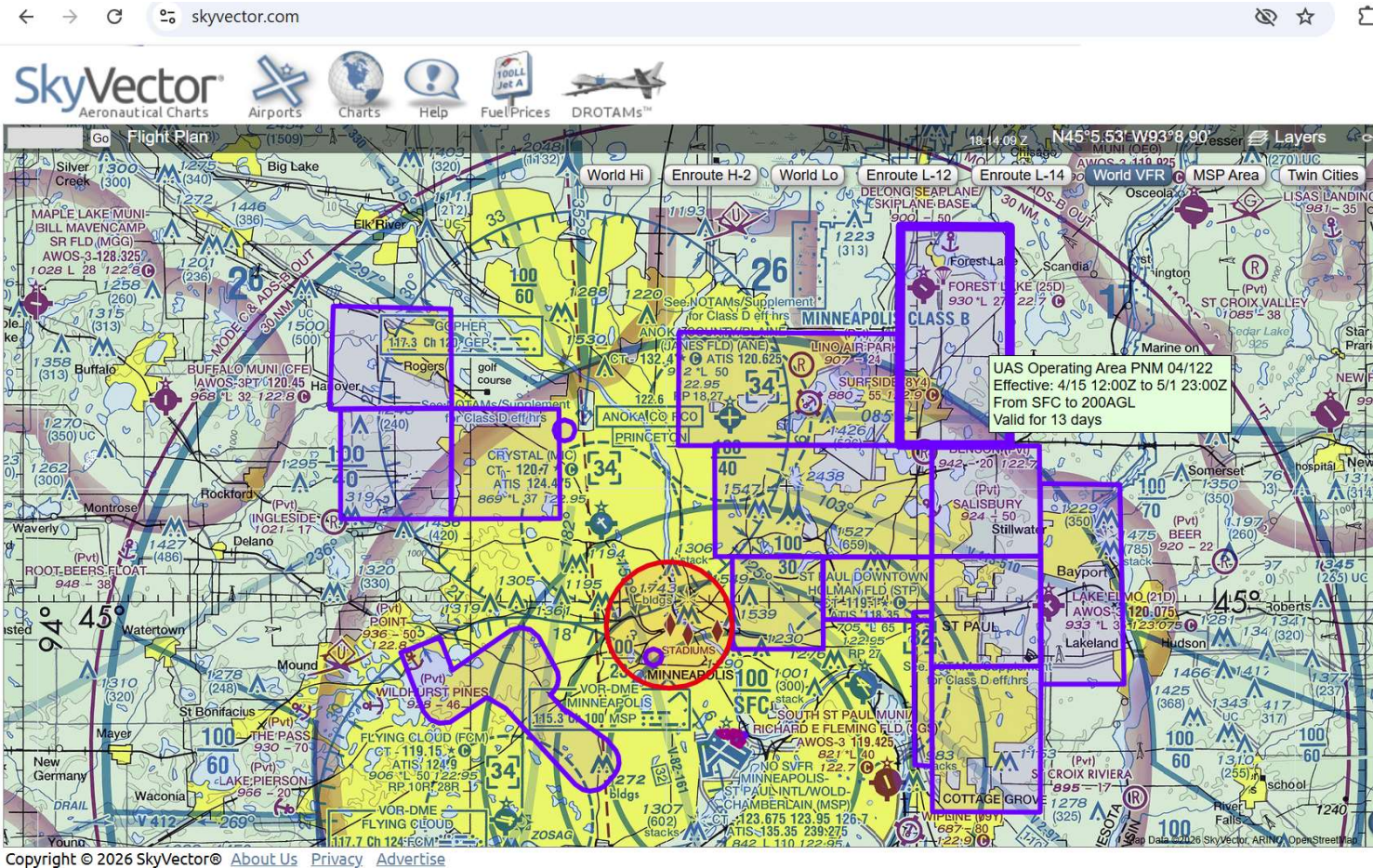
- Tip: Have your passport, airman credentials ready

- Part 91/Part 107 SGI/COW **Emergency time sensitive** ops contact SOSC: 202-267-8276



Airspace Planning & Authorization for Drone Operators

Some airspace scenarios – TFRS and Drone NOTAMS (DROTAMS)



- DROTAM in BLUE
- TFR 0/0367 ORANGE
- A Waiver may require a DROTAM to be posted
- They provide awareness
- Be realistic with area
- To file DROTAM
- Call Leidos 877-487-6867
- Provide location info:
 - ✓ Lat/Lon DMS
 - ✓ Radius / shape
 - ✓ Altitude
 - ✓ Start/Stop time
 - ✓ Your Org & Initials

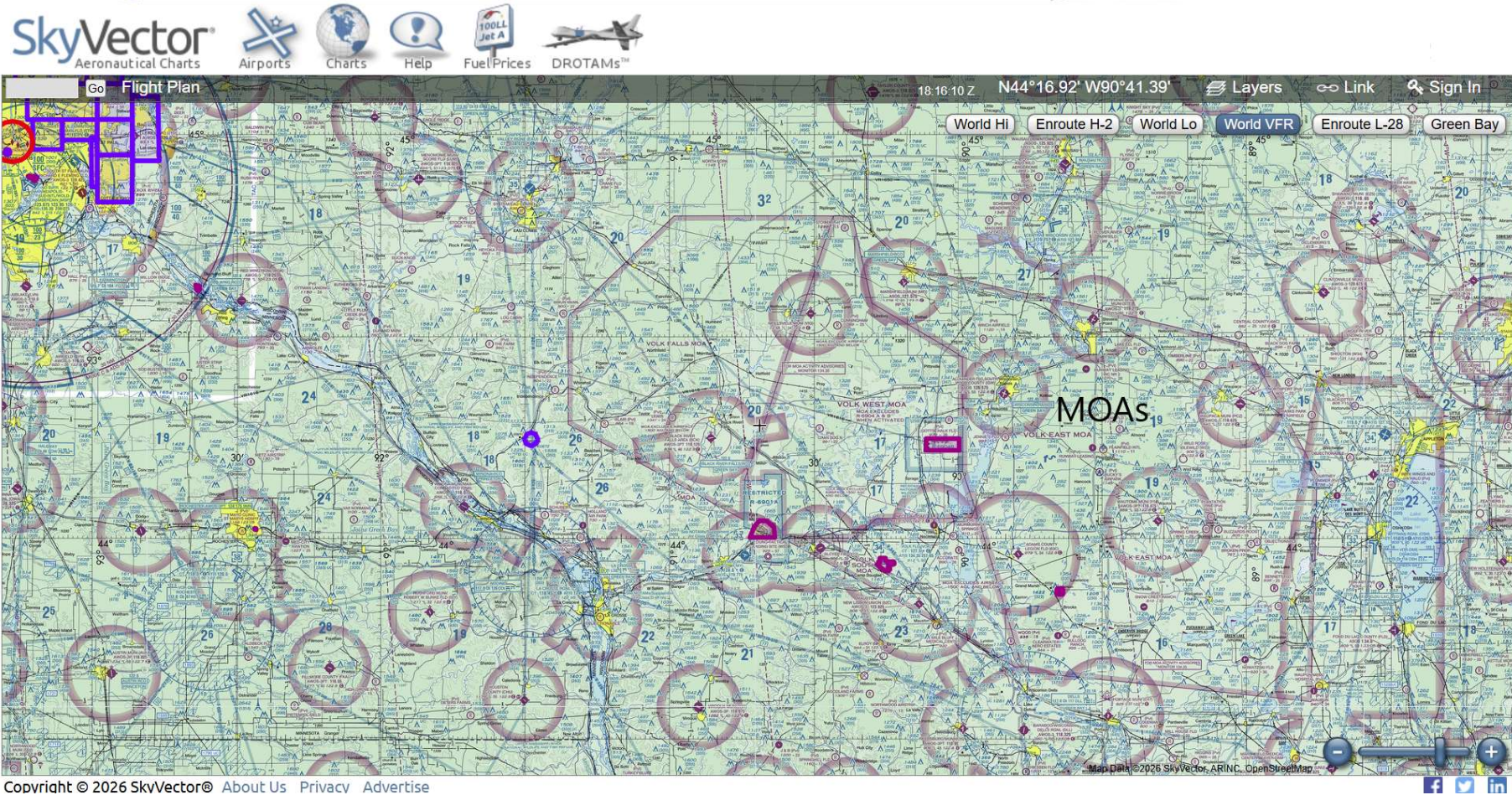
Airspace Planning & Authorization for Drone Operators

General Reminders – Licenses, Certificates, Registrations, Authorizations

- Some general tips, reminders and resources:
 - Note if you are operating in feet or meters, AGL or MSL, drones ***usually*** show alt above take off
 - Active UAS NOTAMS <https://udds-faa.opendata.arcgis.com/pages/active-uas-notams>
 - Besides TFRs, there are also Military Operation Area (MOA) and Prohibited areas
 - FAA NOTAM search: <https://notams.aim.faa.gov/notamSearch/>
 - FAA Recognized Identification Areas (FRIAs) for Hobby/Rec w/o RID
 - Hobby/Rec/44809 areas where aircraft can be flown w/o RID
 - Aircraft and Operators remain within the FRIA area, pay attention to TFRs
 - FRIA notes https://www.faa.gov/documentLibrary/media/Advisory_Circular/AC_89-3.pdf
 - Use multiple tools to verify airspace, check for TFRs and NOTAMS
 - Check schedule for local MLB, NFL, NCAA D1, NASCAR and other events for TFRs
 - Contact local FAA FSDO with questions, they are there to help (They are not ATC nor do waivers)
 - FAA UAS resources include Help line uashelp@faa.gov or call 844-FLY-MY-UA
 - FAA SOSC: 202-267-8276 & TSA: 571-227-2071 and FAA Hotline 866-835-5322
 - For educational RID relief contact RIDAuthorizations@faa.gov

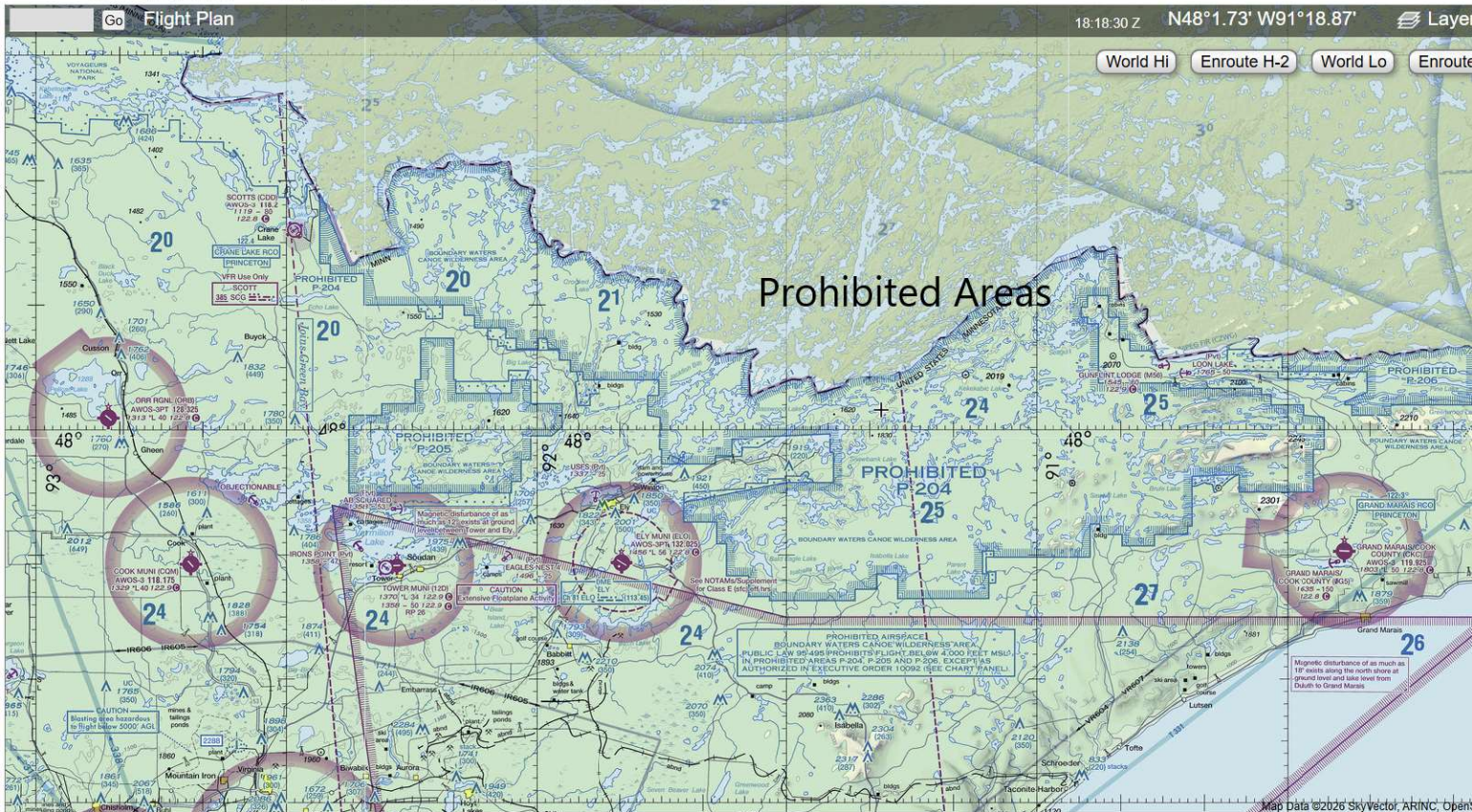
Airspace Planning & Authorization for Drone Operators

Some airspace scenarios – MOAs (Military Operating Areas)



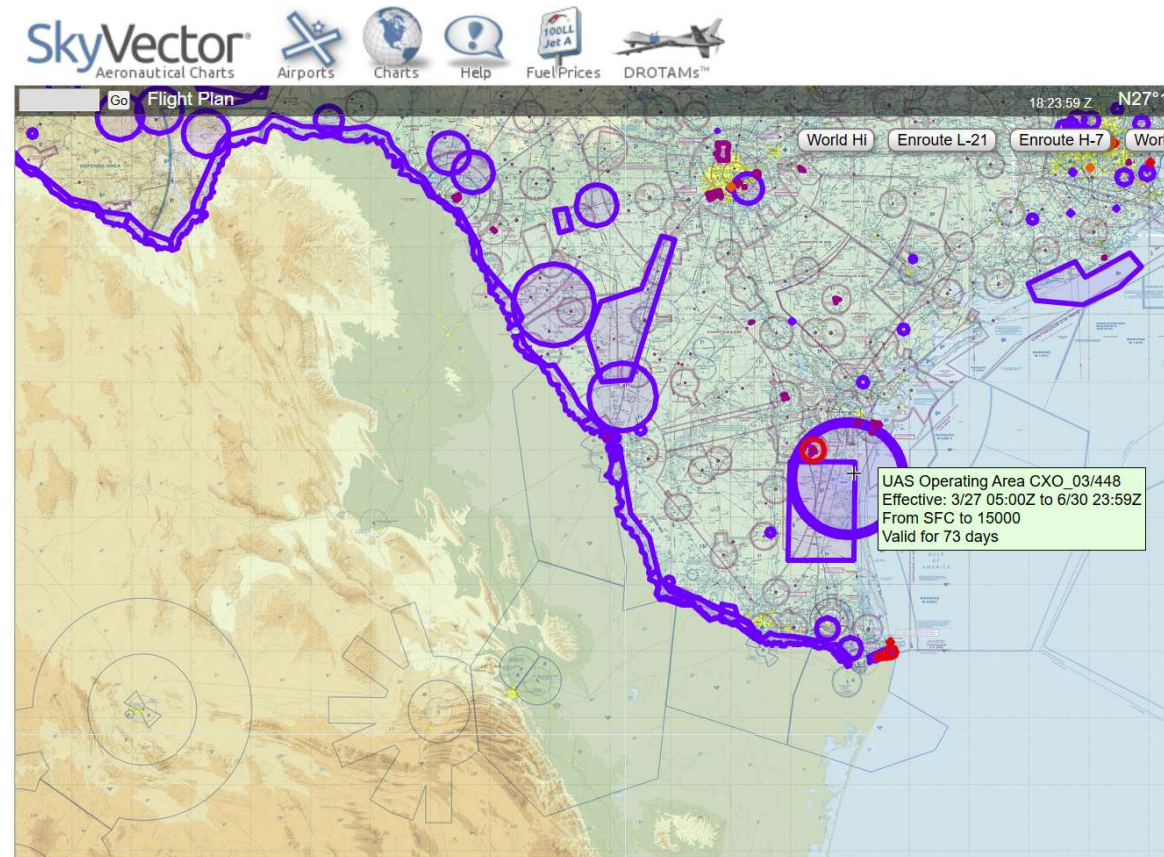
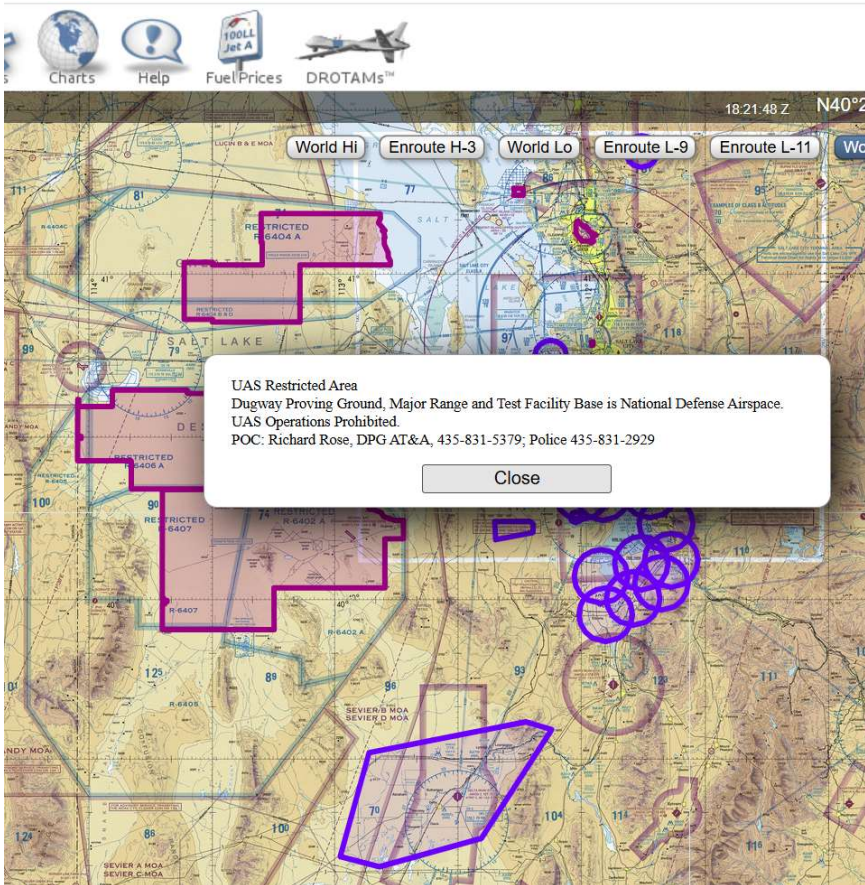
Airspace Planning & Authorization for Drone Operators

Some airspace scenarios – Prohibited Areas



Airspace Planning & Authorization for Drone Operators

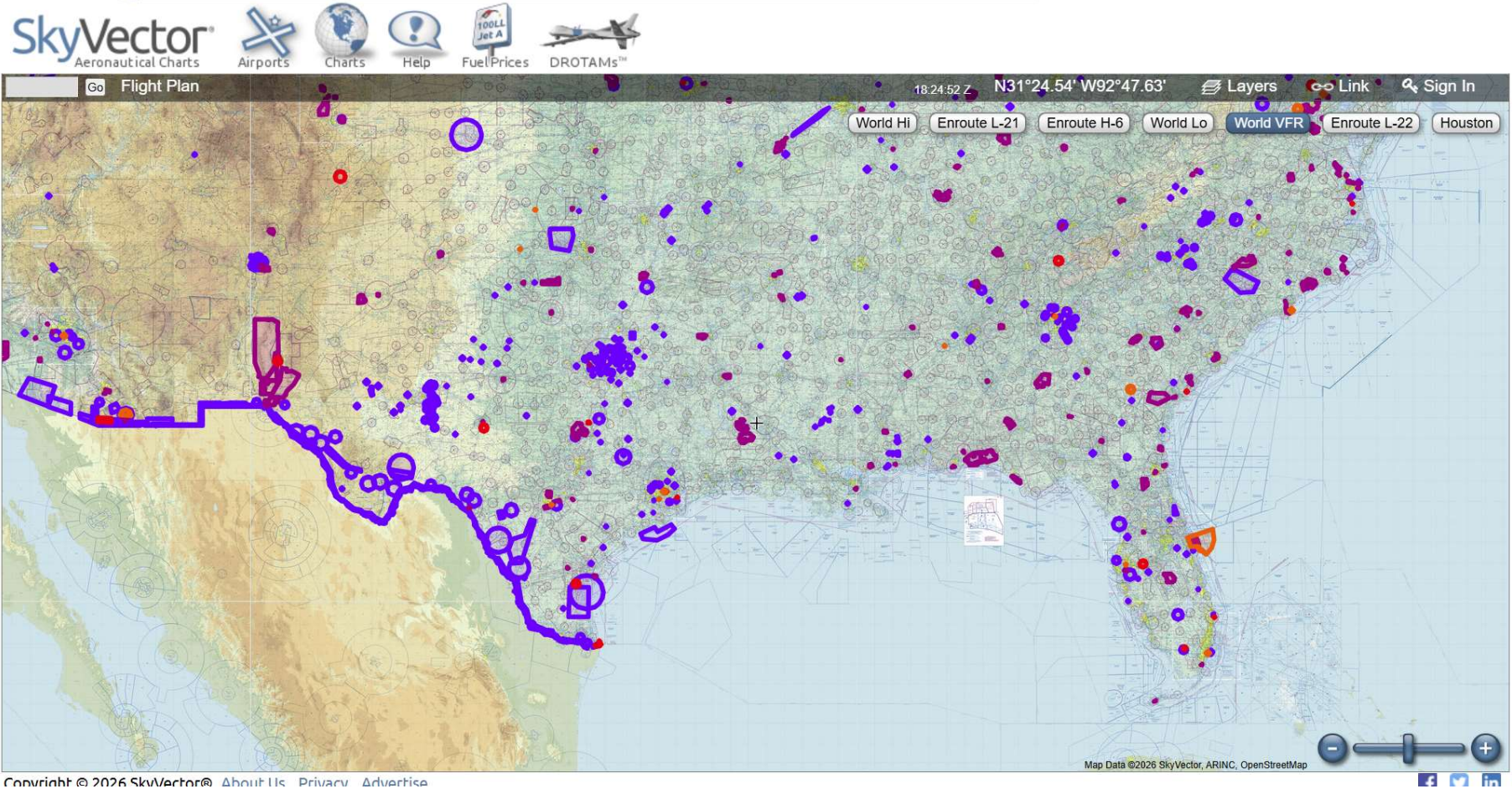
Some airspace scenarios – TFRs, Restricted and Other Areas



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Airspace Planning & Authorization for Drone Operators

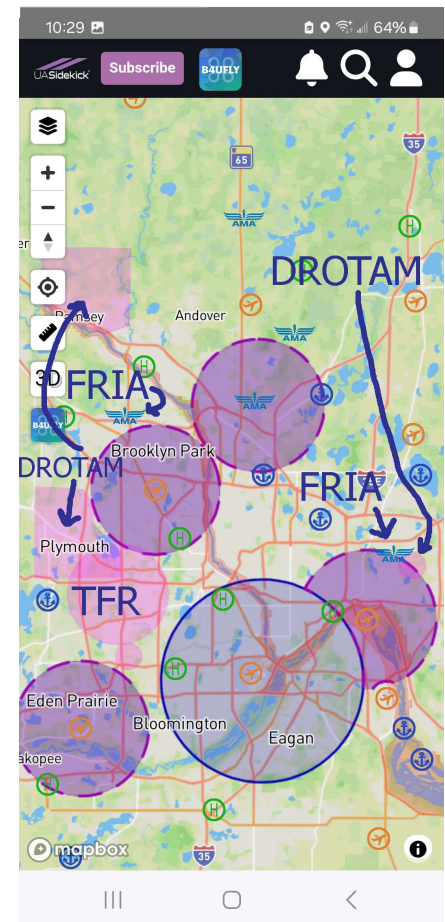
Some airspace scenarios – TFRs, Restricted and Other Areas



Airspace Planning & Authorization for Drone Operators

General Reminders – Safety Tips For Before and During Flights

1. Follow FAA Part 107, Hobby/Rec CBO / TRUST rules
2. Plan ahead and be prepared, use checklists:
 - ✓ Weather conditions (wind, temp, ceiling, visibility)
 - ✓ Location (Airspace, Ground Permissions, Obstacles)
 - ✓ Do you need and have Airspace Authorizations
 - ✓ Are there any TFRs or other airspace concerns
 - ✓ Do you have or need a VO, any Waiver considerations
 - ✓ Know your equipment and how to use it
 - ✓ Is your drone/aircraft and controller ready?
 - ✓ Are your batteries charged, strobe lights on?
4. Maintain situational awareness, you are in shared airspace
5. Keep an eye on your aircraft, watch for other aircraft
6. Watch out for task saturation, use common sense



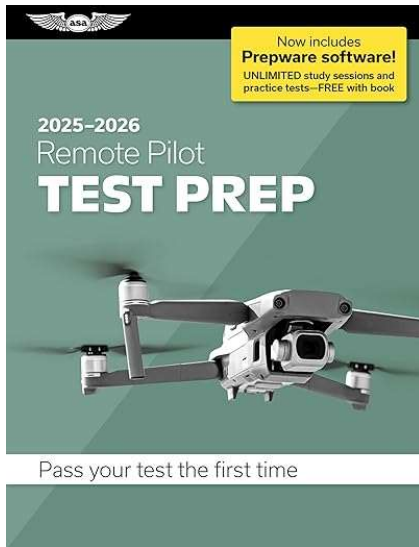
Airspace Planning & Authorization for Drone Operators

General Reminders – Some Airspace Tools, Apps and Resources

- FAA Regular part 107 waivers & authorizations - <https://faadronezone-access.faa.gov>
 - Tip: Be prepared and patient, convey your risk mitigation, review approved waivers
 - Tip: Review waiver info https://www.faa.gov/uas/commercial_operators/part_107_waivers
- FAA “Special” AAP Waivers (e.g. for TFRs & Special areas) - <https://waivers.faa.gov>
 - Tip: Work with your local FAA FSDO who can help guide you through the process
- Some additional tools, apps & sites:
 - FAA TFR <https://tfr.faa.gov/tfr3/?page=list> NOTAM <https://notams.aim.faa.gov/notamSearch>
 - FAA Visualize IT (UAS Facility Map)
<https://www.arcgis.com/apps/webappviewer/index.html?id=9c2e4406710048e19806ebf6a06754ad>
 - Various vendor flight apps (DJI Fly, DJI Pilot, Autel Explorer, Potensic, etc.)
 - Various others, some provide LAANC, some are informational:
FAA B4UFLY, Airspacelink, Aloft Aircontrol, AutoPilot, Avision, UASidekick, UAV Forecast, Foreflight, Dronetag, Drone Deploy, Lithici, Drone Buddy, Drone Scanner, Open Drone ID, TAR ADSB Exchange, My Radar, Skyvector, Windly, VFRmap.com among others

Airspace Planning & Authorization for Drone Operators

Flying Fun, Flying Smart, Flying Safe – Various Resources With More Information



Some Links and Resources:

- ✓ <https://faasafety.gov> and [Faa.gov/uas](https://faa.gov/uas) hot line 866-835-5322
- ✓ <https://faadronezone-access.faa.gov/#/>
- ✓ Rec/hobby 44809 TRUST test (free, follow the links)
https://www.faa.gov/uas/recreational_fliers/knowledge_test_updates/
- ✓ FAA uashelp@faa.gov or call 844-FLY-MY-UA
- ✓ FAA SOOSC: 202-267-8276 & TSA: 571-227-2071
- ✓ For educational RID relief contact RIDAuthorizations@faa.gov
- ✓ View resources including this at PicturesOverStillwater.com/links

ASA 2025-2026 Remote Pilot Test Prep (Via Amazon.com) - <https://amzn.to/3yPqPl1>

Part 107 Small Unmanned Aircraft Systems (small UAS) Recurrent

<https://www.faa.gov/gslac/ALC/CourseLanding.aspx?cID=515>

Part 107 Small Unmanned Aircraft Systems (small UAS) Initial

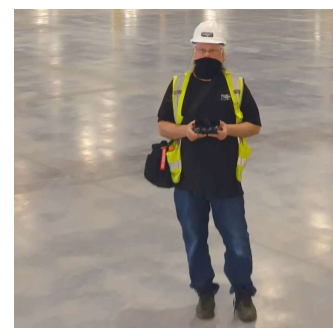
<https://www.faa.gov/gslac/ALC/CourseLanding.aspx?cID=451>

Airspace Planning & Authorization For Drone Operators Tools, Tips And Tricks - Drone Safety Day April 25th 2026

Thank You



PICTURES OVER
STILLWATER



By Greg Schulz – Pictures Over Stillwater

FAA Part 107 Certificated (Current) with OOP & OOMV Waivers

MnDoT Aeronautics Licensed Commercial Drone Operator

Professional Photographer, Videographer and FPV - MN FAAS Team Lead Rep DronePro

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