



**Federal Aviation Administration  
Air Traffic Organization  
(FAA ATO)**

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**Low Altitude Authorization and Notification Capability  
(LAANC)**

**USS Onboarding Test Procedure and Report  
Version 9.0  
April 2025**

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## REVISION HISTORY

Version	Description	Date
1.0	Release Version.	2/26/18
1.1, 1.2, & 1.3	Skipped for constant versioning across program documents.	12/4/18
1.4	Revised for new rules, procedure adjustments, § 44809 operator capability, and other editorial corrections.	3/22/19
1.4.1	Updated Scenarios: 4, 9, 10 and other editorial changes.	4/23/19
1.5	LAANC v1.5 O&M (Scenario 11) and Scenario 2 updates.	6/24/19
2.x & 3.x	Skipped for baselining and alignment of FAA-USS Documents (i.e., Performance Rules, ICD, Test Procedure).	N/A
4.0	Tests updated in alignment with new rules, revisions, and other editorial changes and corrections made to the Performance Rules and ICD.  Overhauled procedure and report format and structure.	3/12/20
4.1	<ul style="list-style-type: none"> <li>Section 3.3: Addition of close operation to FAA checklist; minor edits.</li> <li>Changed nautical mile unit abbreviation from “nmi” to “NM”.</li> <li>Scenario #1, Step 19: Addition of close operation test location; cross-reference linking.</li> <li>Scenario #5: Reordered reasonable filtering test steps; changes IAW with Rule [3.7c] changes; terminology edits.</li> <li>Scenario #7, Step 24: Revised guidance to perform close operation during test window.</li> <li>Scenario #8: Reordered reasonable filtering test steps; changed test location for Rule [3.7e]; changes IAW with Rule [3.7c] changes; terminology edits.</li> <li>Scenario #9: Removal of test guidance Notes for optional test of the PT NSUFR.</li> </ul>	4/17/20
5.0	Updated in alignment with USS Performance Rules and API Specification for 2021 USS implementation and onboarding.	2/19/21
6.0	Overhauled procedure and report format and structure to streamline testing based on lessons learned from previous testing session.	2/4/22
6.1	Scenario 4 <ul style="list-style-type: none"> <li>Step 6: removed</li> <li>Step 7 [now step 6]: Step has been specified to reflect Part 107 only</li> <li>Step 8 [now step 7]: Was specific to Part 107, now also acknowledges 44809</li> </ul>	11/8/22
7.0	Updated in alignment with USS Performance Rules and API Specification for 2023 USS implementation and onboarding. Scenario 1 <ul style="list-style-type: none"> <li>Step 10: Time interpretation [new step]</li> <li>Step 20: Delete operation [new step]</li> <li>Step 21: Data Protection plan [clarification]</li> <li>Step 22: 3.11a &amp; 3.11b [new rules]</li> <li>Step 24: Night Operations [includes 44809]</li> <li>Step 25: Class E Caveat [clarification] (Rule 3.4.5)</li> </ul> Scenario 2 Step 4: Added "further than 72 hrs." Scenario 6 <ul style="list-style-type: none"> <li>Step 11: Added Note "The date &amp; time of the operation"</li> </ul>	2/3/23

Version	Description	Date
	<p>must fall within the current PT NSUFR active window, per the secondary PT NSUFR source."</p> <ul style="list-style-type: none"> <li>Step 17: Demonstrate how your application will block any further activity before the invalid operations are canceled. [new step]</li> </ul> <p>Scenario 8 Step 2: Made conditional in observance of DSL</p> <p>Scenario 7 Step 10: Demonstrate how your application will block any further activity before the rescission is acknowledged. [new step]</p>	
7.0.1	Corrected a typo Scenario 8 Step 2 [missing rule reference]	3/3/23
7.0.2	<p>Scenario 1 Step 22: [removed]</p> <p>Scenario 1 Step 23-29: renumbered</p> <p>Scenario 3 Step 7c: Criteria notes updated to reflect rule change.</p>	4/5/23
8.1	<p>Updated the Scope (1.3), Test Scope (3.2), and Final Test Results &amp; Signature (5) to include B4UFLY.</p> <p>LAANC Scenario 1</p> <ul style="list-style-type: none"> <li>Step 5: Added TFR and SUA Schedule information types.</li> <li>Step 8: Explain how your application processes operations submitted within an active TFR and how your application handles TFRs that begin above 400 ft AGL or other restrictions such as speeds that would exceed regularly expected drone operations. [revised step]</li> <li>Step 11: Provide a screenshot of the operator advisement in the event of protracted unavailability of the FAA's LAANC system lasting more than 4 hours. [new step]</li> <li>Step 23: Added Results field for Part 107 and 44809. [revised step]</li> <li>Step 26: Provide a screenshot of the TFR data completion and accuracy disclaimer. [new step]</li> </ul> <p>LAANC Scenario 3</p> <ul style="list-style-type: none"> <li>Renumbered Steps 7a – 7c.</li> <li>Step 9: Demonstrate how your application processes and displays TFR data for operator use and awareness. [revised step]</li> </ul> <p>LAANC Scenario 5</p> <ul style="list-style-type: none"> <li>Step 16: Updated to include the reason: Altitude – Resubmit 100' Lower. [revised step]</li> <li>Step 18: Updated to include that the message must include the specified reason for the denied further coordination request. [revised step]</li> <li>Updated note to wait 69 hours for the operations to automatically cancel before completing Steps 22 &amp; 23.</li> <li>Step 22 &amp; 23: Changed 24 hours to 3 hours. [revised step]</li> </ul> <p>LAANC Scenario 8 Step 2: Correction to the local times</p> <p>Added B4UFLY Test Scenarios</p>	2/20/24
8.1.1	Removed step 5.k (SUA Schedule) from Scenario #1	5/20/24

Version	Description	Date
9.0	<p>LAANC Scenario 1</p> <ul style="list-style-type: none"> <li>Updated 5f (SEAMS)</li> <li>Added Step 30 (FC statement)</li> <li>Added Step 31 (Invalidation verification)</li> <li>Added Step 32 (Emergency messaging)</li> <li>Added Step 33 (LAANC data retention)</li> </ul> <p>LAANC Scenario 3</p> <ul style="list-style-type: none"> <li>Added Test Step 5 and Figure #6 (DC SFRA)</li> <li>Added Test Steps 11-13 (SEAMS)</li> <li>Renumbered Steps 11- 12</li> </ul> <p>LAANC Scenario 4</p> <ul style="list-style-type: none"> <li>Removed Step 9 and renumbered steps</li> </ul> <p>LAANC Scenario 6</p> <ul style="list-style-type: none"> <li>Revised Test Step 16 (Invalidation)</li> </ul> <p>LAANC Scenario 9</p> <ul style="list-style-type: none"> <li>Revised System Health and Versions for SEAMS</li> </ul> <p>B4UFLY Scenario 1</p> <ul style="list-style-type: none"> <li>Added Test Step 10 (NASA ASRS link)</li> <li>Renumbered Test Steps 10-14</li> <li>Added Test Steps 12e-12h (Wilderness Areas)</li> </ul> <p>B4UFLY Scenario 2</p> <ul style="list-style-type: none"> <li>Added Test Steps 7-8 (SATA)</li> </ul> <p>B4UFLY Scenario 3</p> <ul style="list-style-type: none"> <li>Added Test Steps 6-8 (SEAMS)</li> <li>Removed Wrigley Field stadium example and Figure 23</li> <li>Renumbered remaining test steps</li> </ul> <p>B4UFLY Scenario 5</p> <ul style="list-style-type: none"> <li>Added Test Steps 5-10 (Wilderness Areas)</li> </ul> <p>B4UFLY Scenario 6</p> <ul style="list-style-type: none"> <li>Added Test Steps 3-4 (FRIAs)</li> </ul>	4/18/25

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# 1 INTRODUCTION

## 1.1 Background

As the Federal Aviation Administration (FAA) and industry move toward integration of Unmanned Aerial Systems (UAS) into the National Airspace System (NAS), small UAS (sUAS) – defined as UAS that weigh less than 55 pounds – are governed by two legal frameworks for their operational requirements in the NAS: 14 CFR Part 107 and 49 U.S.C. § 44809(a)(5) (referred to hereinafter simply as “§ 44809”). Low Altitude Authorization and Notification Capability (LAANC) provides sUAS operators an automated, streamlined, and efficient solution to receive airspace authorization in controlled airspace from Air Traffic (AT) in accordance with applicable sUAS regulations and laws. LAANC includes a collaboration between the FAA and industry UAS Service Suppliers (USSs).

## 1.2 Purpose

This document correlates the USS Performance Rules to USS Onboarding test activities, designed to verify that a USS is ready to participate as a provider of LAANC and/or B4UFLY services. This USS Test Procedure and Report is tailorable to accommodate the operation types and delivery platforms a USS intends to provide for their business model.

## 1.3 Scope

The scope of this document is to provide interested applicants and existing partner USSs with the current onboarding tests, which must be passed as part of the FAA’s approval to operate as a LAANC service provider. This document also provides FAA-approved USSs with the current B4UFLY onboarding tests, which must be passed as part of the FAA’s approval to operate as a B4UFLY service provider. LAANC and B4UFLY are expected to implement additional features and capabilities in the future, beyond what is contained in this document. As additional features and capabilities are developed and implemented in LAANC or B4UFLY, it will be communicated to current and prospective USSs as well as the public.

LAANC capabilities in this phase of deployment include:

- support for Part 107 automatic approval authorizations, using altitude maps established by the FAA around airport facilities;
- a mechanism for Part 107 Further Coordination authorizations;
- support for § 44809 automatic approval authorizations, using the same altitude maps used for Part 107 authorizations, and;
- providing sUAS operations information to AT personnel.

## 2 TEST OVERVIEW

### 2.1 FAA-USS Documents

The following FAA-USS reference documents are utilized to test USS compliance:

- LAANC USS Performance Rules
- USS-FAA LAANC API Specification
- LAANC USS Onboarding Test Procedure and Report

### 2.2 Test Guidance

USSs may support all LAANC operation types or any combination of operation types to support their business model, including Part 107 Auto-Approval (AA), Part 107 Further Coordination (FC), and §44809 Auto-Approval. According to the desired operation type(s) of a USS, the USS will be tested against the corresponding scenarios listed below\*:

**Table 1: Test Scenario Matrix**

Scenario #	Part 107 Auto-Approval	Part 107 Further Coordination	§ 44809 Auto-Approval
1	✓	✓	✓
2	✓	✓	✓
3	✓	✓	✓
4	✓		✓
5	✓	✓	
6	✓	✓	✓
7	✓		✓
8	✓	✓	
9	✓	✓	✓

The USS's test system should be configured to connect to the FAA's designated onboarding test environment. Sources for FAA information should be configured to actual authoritative sources, per the USS Performance Rules (e.g., Class Airspace, SUAs, etc.). The exception to this is the UASFM source and PT NSUFR source, which are specifically utilized for onboarding test purposes, reflected below:

- Main website: <https://laancussob-faa.opendata.arcgis.com/>
- Primary Test UASFM: (FAA will provide URL before test)
- Secondary Test UASFM: (FAA will provide URL before test)
- Primary Test PT NSUFR: (FAA will provide URL before test)
- Secondary Test PT NSUFR: (FAA will provide URL before test)

Note: In certain test scenarios, USSs will switch between the Primary and Secondary – UASFM and PT NSUFR – sources to successfully demonstrate certain functionality of their system handling data changes. The appropriate mechanisms must be built into the USS system to quickly change UASFM URLs and load maps for test demonstration purposes.

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\* All variant products (e.g., Web-Based, Android, iOS) are subject to the same level of testing.

## 2.3 Test Recording

The FAA's Test Team will utilize this document to administer and record the results of the test scenarios & steps, in accordance with the operation types offered by a USS (See Table 1, above). Each test step with USS Performance Rules under test includes a "Results" field to indicate "Pass", "Fail", or "N/A" for the test step. Test steps that do not apply during a test event (for example, § 44809 tests when only Part 107 is being tested) will be marked "N/A"; unless the whole scenario does not apply, in which case all checkboxes will be left blank and noted in the test report.

All test steps (both those with and without rules under test) include a section for test notes to describe USS system behavior or unique test elements; as well as any FAA recommendations, actions, and/or remedies for successful alignment with the FAA's expectations for LAANC providers.

### 3 ONBOARDING TEST EVENT LOG

*This section begins documentation and recording of a USS's test event(s).*

#### 3.1 Test Event Details

*The table below details the information for a USS's test event(s).*

USS	Click or tap here to enter text.
USS Representatives	Click or tap here to enter text.
FAA Representatives	Click or tap here to enter text.
Date & Time	Click or tap here to enter text.
Test Format	Choose an item.
Test Type	Choose an item.

#### 3.2 Test Scope

*The table below indicates the USS operation types and platform types under evaluation.*

USS Operation Types:	USS Platform Types:
<input type="checkbox"/> 14 CFR Part 107 Auto-Approval	<input type="checkbox"/> Web-Based
<input type="checkbox"/> 14 CFR Part 107 Further Coordination	<input type="checkbox"/> Android Click or tap here to enter text.
<input type="checkbox"/> 49 U.S.C. § 44809 Auto-Approval	<input type="checkbox"/> iOS Click or tap here to enter text.

USS Operation Types:	USS Platform Types:
<input type="checkbox"/> B4UFLY	<input type="checkbox"/> Web-Based
	<input type="checkbox"/> Android
	<input type="checkbox"/> iOS

#### 3.3 Test Setup Checklist

*The table below indicates items the FAA Test Team will verify are in place before proceeding to the Test Scenarios.*

Test Initialization Checklist:
<input type="checkbox"/> Verify connection to USS.
<input type="checkbox"/> Confirm time with USS to switch the onboarding data sets.
<input type="checkbox"/> TFR to be used: [Scenario #3, Step 8]
<input type="checkbox"/> PT NSUFR date & time to be used: [Scenario #6, Steps 8 & 11]
<input type="checkbox"/> (If applicable) Create/direct FC operation 72 hours in advance for automatic cancel operation test: [Scenario #5, Step 19]

### 3.4 Product Details

*Additional USS product details for FAA awareness and record keeping.*

1. **Anticipated launch date of USS product(s):** Click or tap here to enter text.
2. **Will USS product(s) be available to the public:** Click or tap here to enter text.
3. **Other details:** Click or tap here to enter text.

## 4 GENERAL TEST NOTES

*This section details any general or overarching notes from FAA testing that may not be directly applicable to a specific test scenario & step or may apply to several areas throughout the test procedure.*

### **Notes:**

## 5 FINAL TEST RESULTS & SIGNATURE

*This page contains the Final USS Onboarding Test Results and authorized approval signatures from the FAA and USS.*

### LAANC Final Test Results

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- ☐ **Pass | USS is *Approved*** to participate in operational LAANC system.
- ☐ **Fail | USS is *Not Approved*** to participate in operational LAANC system.
- ☐ **Final Outcome *Pending* | Further Testing Required**

*If final outcome pending, note sections below to be tested in a future test event:*

Click or tap here to enter text.

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### B4UFLY Final Test Results

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- ☐ **Pass | USS is *Approved*** to be a B4UFLY Service Provider.
- ☐ **Fail | USS is *Not Approved*** to be a B4UFLY Service Provider.
- ☐ **Final Outcome *Pending* | Further Testing Required**

*If final outcome pending, note sections below to be tested in a future test event:*

Click or tap here to enter text.

- ☐ **N/A | Not Tested**
- 

### Signatures Approving Test Event and Documented Outcomes

FAA: \_\_\_\_\_

Date: \_\_\_\_\_

USS: \_\_\_\_\_

Date: \_\_\_\_\_

## 6 LAANC ONBOARDING TEST SCENARIOS

This section contains the USS LAANC Onboarding test scenarios for evaluation of a USS's operation types and platform types. Each scenario contains test steps directing a series of actions to be performed for system evaluation. Test steps correlate to specific USS Performance Rules under test or other procedural directions required as part of the test administration and evaluation process.

Each test step is contained in an individual table with fields to reflect the following:

- **Test Step** – Test step number within the test scenario.
- **Test Actor** – Simulated actor to perform the test step. Actors are:
  - Operator
  - USS
  - FAA: Tester
  - FAA: AT (Air Traffic)
- **Test Procedure** – The procedure to be performed for evaluation. This field may contain:
  - “*Notes*” to aid in the demonstration of the step.
  - “*Criteria Notes*” to further understand the evaluation criteria.
- **Rule(s)** – A list of the USS Performance Rule(s) that are under evaluation for the test step.
- **Results** – Contains checkboxes for “Pass”, “Fail”, and “N/A”.
  - Results are specific to the operation type under test (i.e., Part 107, § 44809) or are general for operation type agnostic tests.
- **Test Notes** – FAA test team Notes specific to the step; IAW Section 2.3 Test Recording.

Test scenarios are accompanied with figures depicting the area under test, location of authorizations, and other features of the test such as airspace boundaries, SUAs, and NSUFRs. Authorizations are depicted as yellow circular areas or polygons; the authorizations are for demonstration only and do not have defined coordinates or other geometric properties that a USS needs to exactly replicate.



## Scenario #1

### Operator Account, Datasets, Endpoints & Operator Messages

#### Scenario Overview

This scenario applies to the following LAANC operation types:

Part 107 Auto-Approval	Part 107 Further Coordination	§ 44809 Auto-Approval
✓	✓	✓

This scenario checks:

- Required data sources and endpoints
- Various required statements and safeguards

#### Test Steps

Test Step	Test Procedure	Rule(s)
Step 1.	Explain user account management and reasonably secure identification methods.	[3.1b]
	Results: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
USS	Click or tap here to enter text.	

Test Step	Test Procedure	Rule(s)
Step 2.	Explain the process by which LAANC data records will be made available to the FAA on request.	[3.9.5d] [3.9.5e]
	<b>Criteria Notes:</b> This is expected to be a manual process. Please describe any special processes, other than using USS contact information on file, that the FAA should use. Also describe the anticipated format of provided data and timeliness of response.	
	Results: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
USS	Click or tap here to enter text.	

Test Step	Test Procedure	Rule(s)
Step 3.	Explain how the operator can access the LAANC association statement. Provide a screenshot of the statement presented to the operator.	[3.1c]
	Results: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
USS	Click or tap here to enter text.	

Test Step	Test Procedure		Rule(s)
Step 4.	Explain how the operator can access the FAA Privacy Statement hyperlink.		[3.1d]
	Results:	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:		
USS	Click or tap here to enter text.		

**Step 5. For each of the following information types (Steps 5a-5j):**

- i. Identify the authoritative data source, and
- ii. How frequently your system retrieves the data.

Test Step	Test Procedure	Rule(s)
Step 5a.	UAS Facility Maps (UASFMs)	[3.2.2a] [3.2.2k] [3.2.2l]
	Results: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
USS	Click or tap here to enter text.	

Test Step	Test Procedure	Rule(s)
Step 5b.	Full-Time National Security UAS Flight Restrictions (FT NSUFRs)	[3.2.2b] [3.2.2k] [3.2.2l]
	Results: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
USS	Click or tap here to enter text.	

Test Step	Test Procedure	Rule(s)
Step 5c.	Part-Time National Security UAS Flight Restrictions (PT NSUFRs)	[3.2.2c] [3.2.2k] [3.2.2l]
	Results: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
USS	Click or tap here to enter text.	

Test Step	Test Procedure	Rule(s)
Step 5d.	Class Airspace	[3.2.2d] [3.2.2k] [3.2.2l]
	Results: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
USS	Click or tap here to enter text.	

Test Step	Test Procedure	Rule(s)
Step 5e.	Airports	[3.2.2e] [3.2.2k] [3.2.2l]
	Results: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
USS	Click or tap here to enter text.	

Test Step	Test Procedure	Rule(s)
Step 5f.	Sporting Event Automated Monitoring System	[3.2.2f] [3.2.2k] [3.2.2l]
	Results: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
USS	Click or tap here to enter text.	

Test Step	Test Procedure	Rule(s)
Step 5g.	Washington D.C. FRZ	[3.2.2g] [3.2.2k] [3.2.2l]
	Results: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
USS	Click or tap here to enter text.	

Test Step	Test Procedure	Rule(s)
Step 5h.	Special Use Airspace	[3.2.2h] [3.2.2k] [3.2.2l]
	Results: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
USS	Click or tap here to enter text.	

Test Step	Test Procedure	Rule(s)
Step 5i.	Airspace Schedule	[3.2.2i] [3.2.2k] [3.2.2l]
	Results: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
USS	Click or tap here to enter text.	

Test Step	Test Procedure	Rule(s)
Step 5j.	TFRs	[3.2.2j] [3.4.4a] [3.2.2l]
	Results: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
USS	Click or tap here to enter text.	

Test Step	Test Procedure	Rule(s)
Step 6.	Explain the process by which your system checks the authoritative sources of information for currency and frequency.	[3.2.2l]
	Results: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
USS	Click or tap here to enter text.	

Test Step	Test Procedure		Rule(s)
Step 7.	Explain how your application identifies and blocks spurious submissions.		[3.7a]
	Results:	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:		
USS	Click or tap here to enter text.		

Test Step	Test Procedure	Rule(s)
Step 8.	Explain how your application processes operations submitted within an active TFR.	[3.4.4a]
	Also, describe how your application handles TFRs that begin above 400 ft AGL or other restrictions, such as speeds that would exceed regularly expected drone operations.	
	Results: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
USS	Click or tap here to enter text.	

Test Step	Test Procedure	Rule(s)
Step 9.	Describe the method used to calculate the requested submission time displayed to the user.	[3.5b] [3.6b]
	<i>Note: USSs may choose to assist the pilot by converting UTC time. This may include operator's physical location, the location of the proposed operation, etc.</i>	
	Results: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
USS	Click or tap here to enter text.	

Test Step	Test Procedure			Rule(s)
Step 10.	Explain how your application will continue to function in the contingency situation that FAA LAANC systems are unavailable.			[3.8a]
	Results:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail	
Test Actor	Test Notes:			
USS	Click or tap here to enter text.			

Test Step	Test Procedure		Rule(s)
Step 11.	Provide a screenshot of the operator advisement in the event of protracted unavailability of the FAA's LAANC system lasting more than 4 hours.		[3.8b]
	Results:	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:		
USS	Click or tap here to enter text.		

Test Step	Test Procedure	Rule(s)
Step 12.	Explain how you will notify the Enterprise Control Center (ECC) of scheduled outages at least 24 hours in advance.	[3.9.5a]
	Results: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
USS	Click or tap here to enter text.	

Test Step	Test Procedure		Rule(s)
Step 13.	Explain how you will notify the ECC of unscheduled outages within 1 hour of detection.		[3.9.5b]
	Results:	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:		
USS	Click or tap here to enter text.		

Test Step	Test Procedure		Rule(s)
Step 14.	Explain and describe how the USS intends to provide the FAA with user accounts for their service(s).		[3.9.5c]
	Results:	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:		
USS	Click or tap here to enter text.		

Test Step	Test Procedure		Rule(s)
Step 15.	Explain the method and frequency that your system checks the FAA’s operational status and system versions.		[3.9.1a]
	Results:	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:		
USS	Click or tap here to enter text.		

Test Step	Test Procedure	Rule(s)
Step 16.	Explain the method and frequency that your system queries operational statistics from the FAA.	[3.9.2a]
	Results: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
USS	Click or tap here to enter text.	

Test Step	Test Procedure	Rule(s)
Step 17.	Explain the method and frequency that your system queries open authorizations from the FAA.	[3.9.3a]
	Results: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
USS	Click or tap here to enter text.	

Test Step	Test Procedure	Rule(s)
Step 18.	Explain the method and frequency that your system queries operation history from the FAA.	[3.9.4a]
	Results: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
USS	Click or tap here to enter text.	

Test Step	Test Procedure
Step 19.	Indicate whether your system offers the 'close operation' and/or the 'update operation' capabilities.
Test Actor	Test Notes:
USS	<input type="checkbox"/> Close Operation <input type="checkbox"/> Update Operation <input type="checkbox"/> N/A

Test Step	Test Procedure
Step 20.	Indicate whether your system offers 'delete operation' within the application or manually.
Test Actor	Test Notes:
USS	<input type="checkbox"/> In-App deletion <input type="checkbox"/> Manual Deletion

Test Step	Test Procedure		Rule(s)
Step 21.	Confirm and provide a developed Data Protection Plan to the FAA, with current date.  <i>Notes: If Data Protection Plan has been previously submitted, the plan must be resubmitted with current date.</i>		[3.10a]
	Results:	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:		
USS	Click or tap here to enter text.		

Test Step	Test Procedure	Rule(s)
Step 22.	Provide a screenshot of the operator advisement for civil twilight periods, including associated requirements.	[3.4.5g]
	Results: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
USS	Click or tap here to enter text.	

Test Step	Test Procedure	Rule(s)
Step 23.	Provide a screenshot of the operator advisement for night operations, including associated requirements.	[3.4.5c] [3.4.5d]
	Results   Part 107: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
	Results   § 44809: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
USS	Click or tap here to enter text.	

Test Step	Test Procedure		Rule(s)
Step 24.	Provide a screenshot of the operator advisement for the Class E caveat.		[3.4.6a]
	Results:	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:		
USS	Click or tap here to enter text.		

Test Step	Test Procedure		Rule(s)
Step 25.	Provide a screenshot of the operator advisement for stadium UAS restrictions.		[3.4.5]]
	Results:	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:		
USS	Click or tap here to enter text.		

Test Step	Test Procedure			Rule(s)
Step 26.	Provide a screenshot of the TFR data completion and accuracy disclaimer.			[3.4.4b]
	Results:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail	
Test Actor	Test Notes:			
USS	Click or tap here to enter text.			

Test Step	Test Procedure		Rule(s)
Step 27.	Provide a screenshot of the operator advisement indicating a successful submission and discourage operators from contacting AT.		[3.4.2f]
	Results:	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:		
USS	Click or tap here to enter text.		

Test Step	Test Procedure		Rule(s)
Step 28.	Provide a screenshot of the operator advisement that is displayed when an operation is created that overlaps in time with another non-pending operation.		[3.7e]
	Results:	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:		
USS	Click or tap here to enter text.		

Test Step	Test Procedure			Rule(s)	
Step 29.	Provide a screenshot of the authorization text provided to the Part 107 and 44809 operators.			[3.5a]	
				[3.5b]	
	Results   Part 107:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail	<input type="checkbox"/> N/A	[3.6a]
	Results   § 44809:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail	<input type="checkbox"/> N/A	[3.6b]
Test Actor	Test Notes:				
USS	Click or tap here to enter text.				

Test Step	Test Procedure	Rule(s)
Step 30.	If the USS does not offer Further Coordination, provide a screenshot of the statement presented to the operator that Further Coordination is available through other USSs.	[3.4b]
	Results: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
USS	Click or tap here to enter text.	

Test Step	Test Procedure	Rule(s)
Step 31.	Explain how your application processes previous submissions that have become invalid due to a dataset change (i.e., previously authorized operations are immediately invalidated, or authorization are invalidated within 3 hours of its start time).	[3.4.11b]
	Results: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
USS	Click or tap here to enter text.	

Test Step	Test Procedure	Rule(s)		
Step 32.	<p>To facilitate quick deployment of emergency messaging, the USS must have the ability to enable a pre-configured emergency notification at the request of the FAA.</p> <p>Provide a screenshot of the emergency message using the following <u>sample</u> text:</p> <p><i>“Drone operators are advised to use caution while operating in areas affected by Hurricane Milton to ensure safety for aircraft, including drones, conducting rescue and recovery operations. Always check NOTAMS and TFRs before you fly. You can learn more at <a href="https://www.faa.gov/air_traffic/flight_info/hurricane_season#dronepilots">https://www.faa.gov/air_traffic/flight_info/hurricane_season#dronepilots</a>.”</i></p>	[3.12a]		
	<table><tr><td>Results:</td><td><input type="checkbox"/> Pass</td><td><input type="checkbox"/> Fail</td><td><input type="checkbox"/> N/A</td></tr></table>		Results:	<input type="checkbox"/> Pass
Results:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail	<input type="checkbox"/> N/A	
Test Actor	Test Notes:			
USS	Click or tap here to enter text.			

Test Step	Test Procedure		Rule(s)
Step 33.	Confirm the USS will retain its LAANC data record for at least 45 calendar days.		[3.9.5f]
	Results:	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:		
USS	Click or tap here to enter text.		



## Scenario #2 Overlapping Authorizations

### Scenario Overview

This scenario applies to the following LAANC operation types:

Part 107 Auto-Approval	Part 107 Further Coordination	§ 44809 Auto-Approval
✓	✓	✓

This scenario checks:

- User identification and authentication
- Temporally overlapping authorizations exceed allowable spatial distance
- Excessive number of temporally overlapping authorizations
- Update operation (if offered)

### Test Steps

Test Step	Test Procedure	Rule(s)
Step 1.	Demonstrate how an operator logs into your application.	[3.1b]
	Results: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
USS	Click or tap here to enter text.	

Test Step	Test Procedure			Rule(s)
Step 2.	Demonstrate operator access to the LAANC association statement.			[3.1c]
	Results:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:			
USS	Click or tap here to enter text.			

Test Step	Test Procedure		Rule(s)
Step 3.	Demonstrate operator access to the FAA Privacy Statement hyperlink.		[3.1d]
	Results:	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:		
USS	Click or tap here to enter text.		

The area of the test operation is in Chester, PA (near Philadelphia, PA) over Widener University. The test operation is under the PHL UASFM.

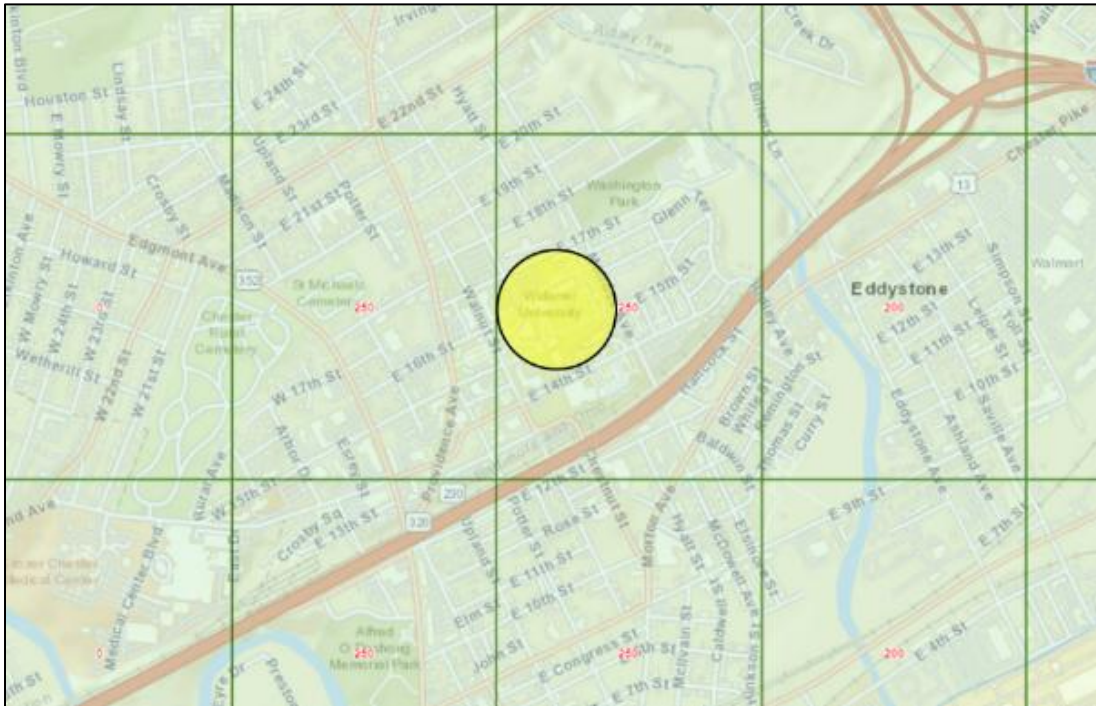


Figure 1: Scenario #2 | Widener University | Chester, PA

Test Step	Test Procedure	Rule(s)
Step 4.	Initialize an authorization further than 72 hours in this area for a flight maximum altitude of 200'.	[3.1a]
	Results   Part 107: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
	Results   § 44809: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
Operator	Click or tap here to enter text.	

Test Step	Test Procedure
Step 5.	Submit the operation to the FAA. Record the LAANC Reference Code(s).
Test Actor	Test Notes:
Operator/ FAA: Tester	Click or tap here to enter text.

Test Step	Test Procedure			Rule(s)	
Step 6.	Verify on the FAA side that the submission is received with the correct content.			[3.2.1a]	
	Results   Part 107:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail		<input type="checkbox"/> N/A
	Results   § 44809:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail		<input type="checkbox"/> N/A
Test Actor	Test Notes:				
FAA: AT	Click or tap here to enter text.				

Test Step	Test Procedure	Rule(s)
Step 7.	Create an operation under the IPT UASFM [Williamsport, PA] (over 100 NM away) that overlaps in time with the operation created in Step 5.	[3.7d]
	Demonstrate that the submission is blocked.	
	<b>Results   Part 107:</b> <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A <b>Results   § 44809:</b> <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
<b>Test Actor</b>	<b>Test Notes:</b>	
Operator/ USS	Click or tap here to enter text.	

Test Step	Test Procedure	Rule(s)
Step 8.	Return to the Philadelphia airspace – Create 4 additional non-pending operations that overlap in time with the operation created in Step 5.	[3.7d] [3.7e]
	Demonstrate that the warning message is displayed following each of the 4 overlapping submissions.	
	<b>Criteria Notes:</b> If the USS offers both Part 107 AA and Part 107 FC, then this step must have at least one <b>approved Further Coordination</b> authorization.	
	<b>Results   Part 107:</b> <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A <b>Results   § 44809:</b> <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
<b>Test Actor</b>	<b>Test Notes:</b>	
Operator/ USS	Click or tap here to enter text.	

Test Step	Test Procedure	Rule(s)
Step 9.	Create a 6 <sup>th</sup> operation that overlaps in time with the operations created in Steps 5 & 8. Demonstrate that the 6 <sup>th</sup> operation is blocked.	[3.7c]
	<b>Criteria Notes:</b> Blocking before the 6th submission is permissible, but not required.	
	<b>Results   Part 107:</b> <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A <b>Results   § 44809:</b> <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
<b>Test Actor</b>	<b>Test Notes:</b>	
Operator/ USS	Click or tap here to enter text.	

**\*\*Steps 10-12 to be performed ONLY if the Update Operation capability is offered. \*\***

Test Step	Test Procedure	Rule(s)
Step 10.	Demonstrate how the operator can change something about the operation created in Step 5 (time, altitude, etc.).	[3.4.8a]
	<b>Results   Part 107:</b> <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
	<b>Results   § 44809:</b> <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
<b>Test Actor</b>	<b>Test Notes:</b>	
USS	Click or tap here to enter text.	

Test Step	Test Procedure
Step 11.	Submit the change to the FAA. Record the LAANC Reference Code(s).
Test Actor	Test Notes:
Operator/ FAA: Tester	Click or tap here to enter text.

Test Step	Test Procedure	Rule(s)
Step 12.	Verify on the FAA side that the change is received with the correct content.	[3.2.1a] [3.4.8b]
	Results   Part 107: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
	Results   § 44809: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
FAA: AT	Click or tap here to enter text.	

## Scenario #3 Basic Geospatial Processing

### Scenario Overview

This scenario tests the required geospatial processing based on data sources required for all LAANC provided airspace authorization as required within the Performance Rules.

This scenario applies to the following LAANC operation types:

Part 107 Auto-Approval	Part 107 Further Coordination	§ 44809 Auto-Approval
✓	✓	✓

This scenario checks:

- Blocking in the DC FRZ
- Operations in the DC SFRA
- Blocking where LAANC is disabled
- Blocking Enabled fields
- Blocking adjacent airspace without a UASFM
- Blocking in Prohibited SUAs
- Blocking in Restricted SUAs
- Processing TFRs
- Sporting Event TFRs
- Blocking authorization areas that are too large

### Test Steps

**LAANC READY FLAG DISABLED:** The area of the test operation is Walker Park (and the St Joseph River) in Elkhart, IN. The test operation is under the EKM UASFM.

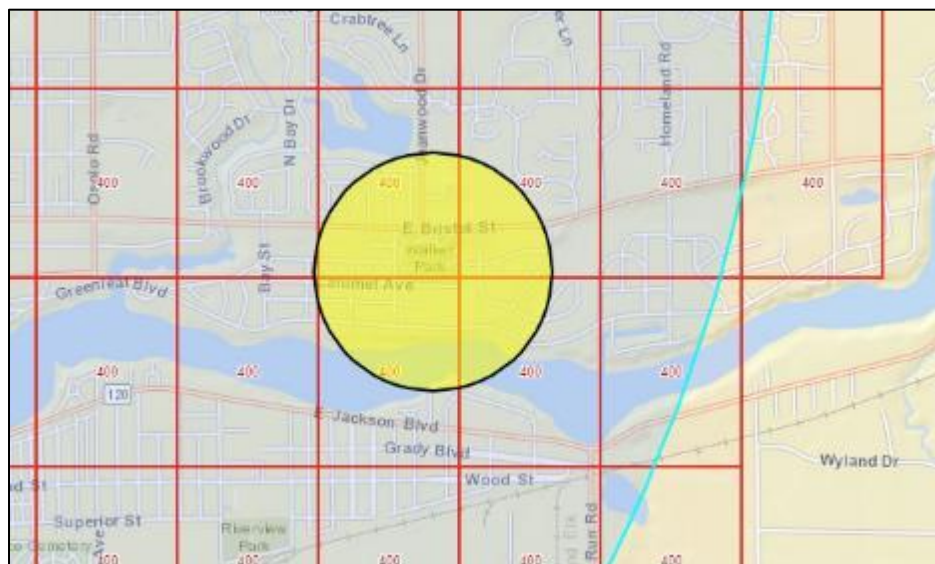


Figure 2: Scenario #3 | Walker Park | Elkhart, IN

Test Step	Test Procedure	Rule(s)
Step 1.	Initialize an operation over Walker Park.	[3.3.6a]
	Demonstrate how your application will inform the operator that this location is not available for an airspace authorization through LAANC.	
	Results: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
Operator/ USS	Click or tap here to enter text.	

**ENABLED FIELDS:** The area of the test operation is Grapevine, TX. The test operation is under the DFW UASFM.

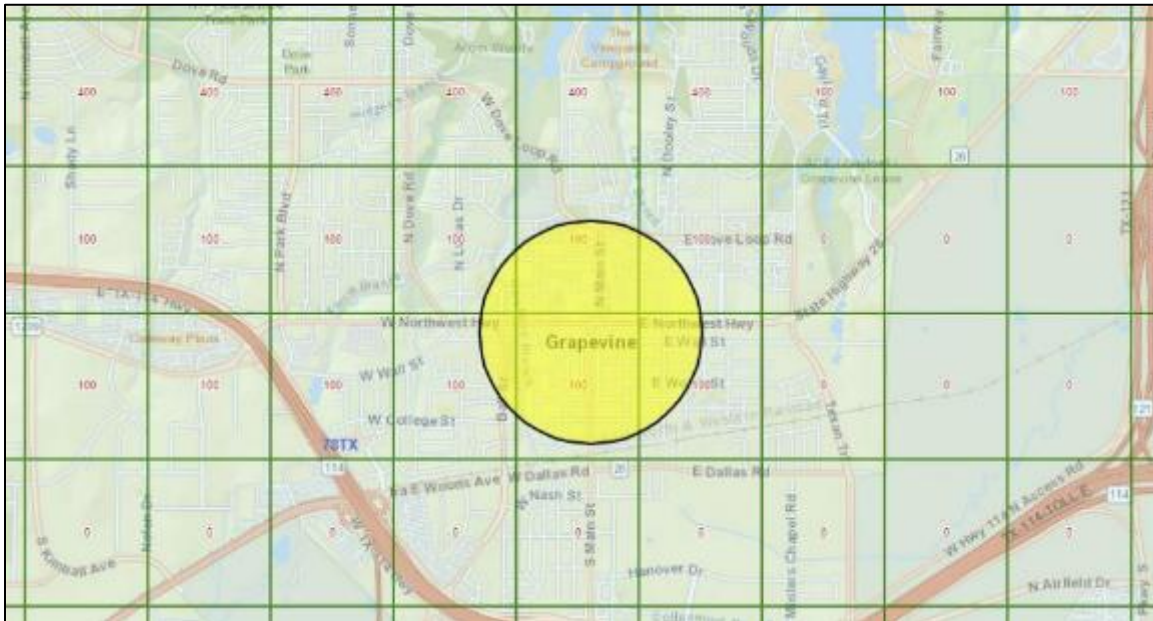
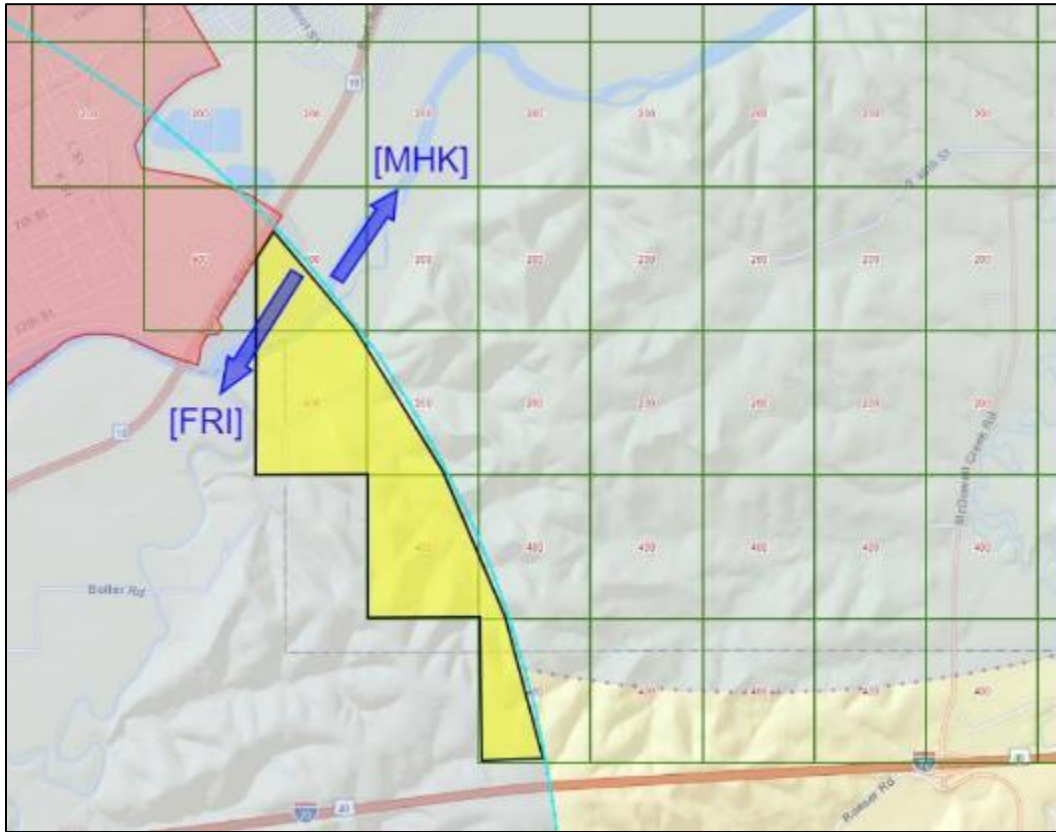


Figure 3: Scenario #3 | Grapevine, TX

Test Step	Test Procedure	Rule(s)
Step 2.	Initialize an operation for a flight maximum altitude of 400'.	[3.3.1a] [3.3.6b]
	Demonstrate how your application will inform the operator their request is not eligible for further coordination.	
	Notes: This location has Enabled fields of "107-AA" and "44809-AA", thereby only allowing auto-approved submissions.	
	Results: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
Operator/ USS	Click or tap here to enter text.	



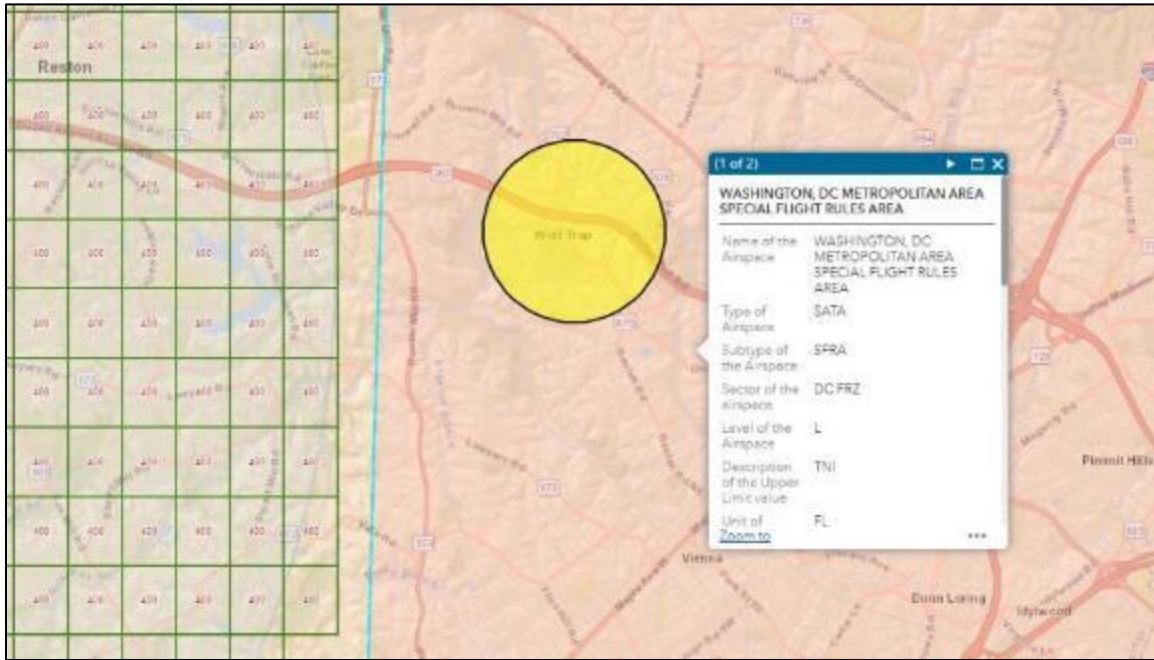
**ADJACENT SURFACE AIRSPACE (without a UASFM):** The area of the test operation is around Fort Riley Blvd in Manhattan, KS. The test operation is under the spillover of the MHK UASFM (northeast airspace), but it is in FRI airspace (southwest airspace, which has no UASFM).



**Figure 4: Scenario #3 | Fort Riley Airspace | Manhattan, KS**

Test Step	Test Procedure	Rule(s)
<b>Step 3.</b>	Initialize an operation within the FRI airspace and the MHK UASFM.	[3.3.4c]
	Demonstrate how your application will block an operator from submitting an operation within a surface airspace that has no UASFM.	
	<b>Results:</b> <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
<b>Test Actor</b>	<b>Test Notes:</b>	
Operator/ USS	Click or tap here to enter text.	

**D.C. FRZ:** The area of the test operation is Wolf Trap, VA. The test area is to the east of Washington-Dulles Airport and within the Washington D.C. Flight Restriction Zone (FRZ).

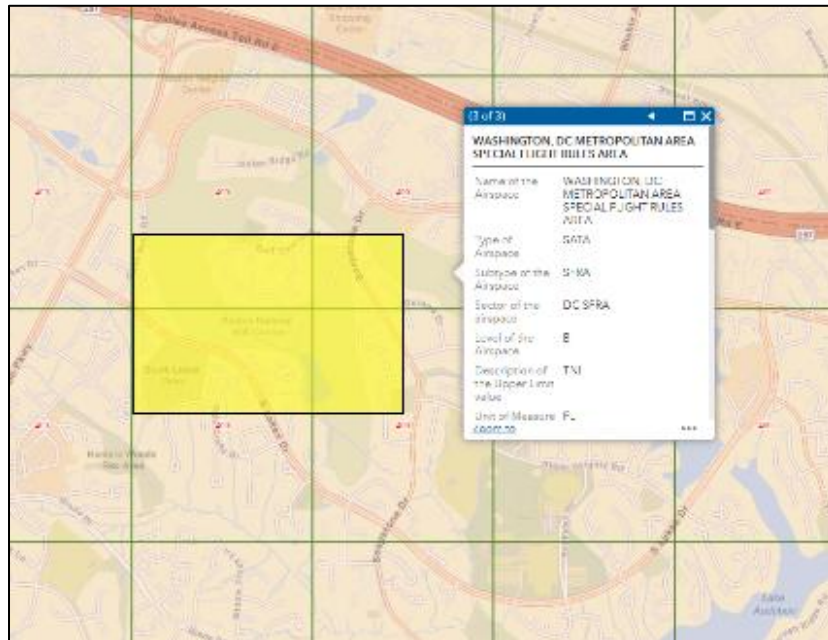


**Figure 5: Scenario #3 | Wolf Trap, VA**

Test Step	Test Procedure	Rule(s)
<b>Step 4.</b>	Initialize an operation in Wolf Trap in the D.C. FRZ.	[3.4.5a] [3.4.5e]
	Demonstrate how your application will block an operator from submitting operations located within the Washington D.C. FRZ.	
	<b>Results:</b> <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
<b>Test Actor</b>	<b>Test Notes:</b>	
Operator/ USS	Click or tap here to enter text.	



**D.C. SFRA:** The area of the test operation is Reston National Golf Course in Reston, VA. The test area is to the east of Washington-Dulles Airport and within the Washington D.C. SFRA.



**Figure 6: Scenario #3 | Reston National Golf Course | Reston, VA**

Test Step	Test Procedure	Rule(s)
<b>Step 5.</b>	Initialize an operation in Reston National Golf Course in the D.C. SFRA.	[3.4.5a] [3.4.5k]
	Demonstrate how your application will allow an operator to submit an operation located within the Washington D.C. SFRA and provides a link to <a href="https://www.faa.gov/uas/resources/community_engagement/no_drone_zone/dc">https://www.faa.gov/uas/resources/community_engagement/no_drone_zone/dc</a> .	
	<b>Results:</b> <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
<b>Test Actor</b>	<b>Test Notes:</b>	
Operator/ USS	Click or tap here to enter text.	

**RESTRICTED AREA:** The area of the test operation is Oliver Beach, MD. This operation is under the MTN UASFM and is encompassed by restricted airspace, R-4001A.

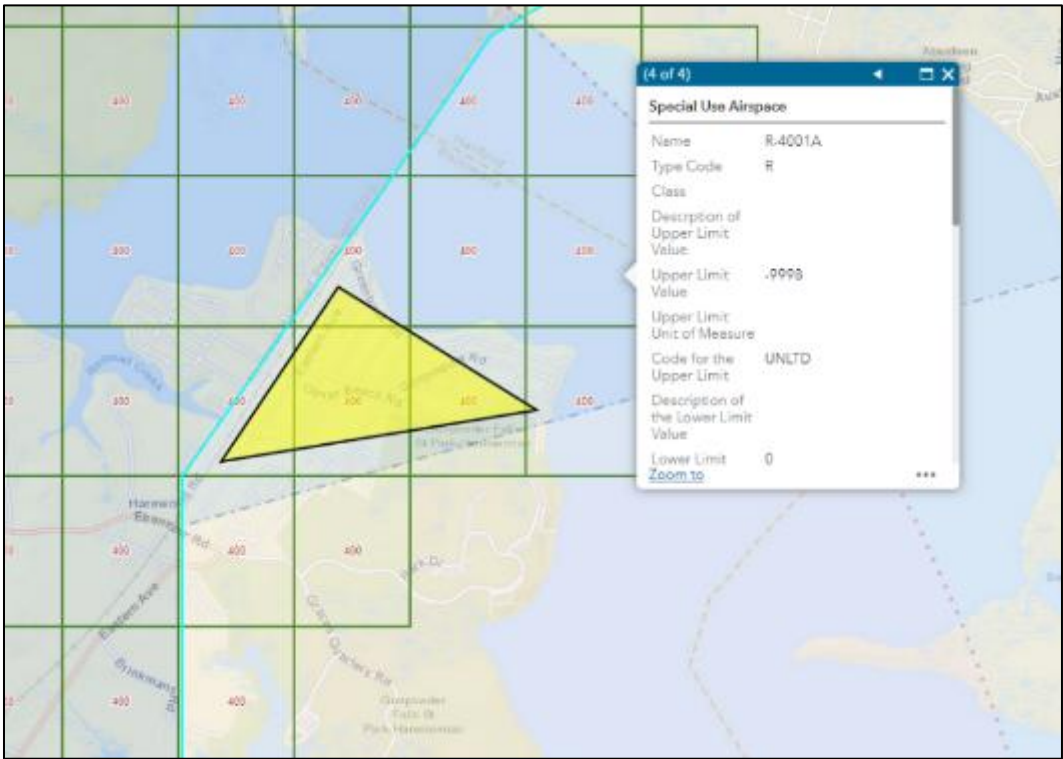


Figure 7: Scenario #3 | SUA: R-4001A | Oliver Beach, MD

Test Step	Test Procedure	Rule(s)
Step 6.	Initialize an operation within SUA: R-4001A.	[3.4.5a] [3.4.5f]
	Demonstrate how your application will advise or block an operator from submitting operations located within R-4001A.	
	Results: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
Operator/ USS	Click or tap here to enter text.	

**PROHIBITED AREA:** The area of the test operation is Kennebunkport, ME. This operation is encompassed by prohibited airspace, P-67.

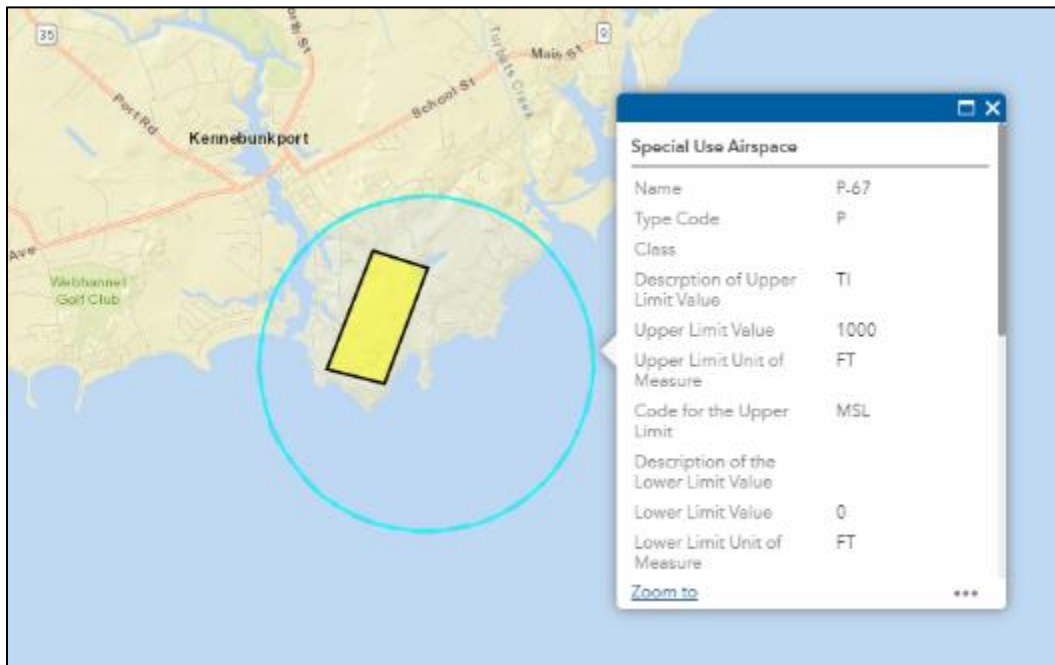


Figure 8: Scenario #3 | SUA: P-67 | Kennebunkport, ME

Test Step	Test Procedure	Rule(s)
Step 7.	Initialize an operation within SUA: P-67.	[3.4.5a] [3.4.5f]
	Demonstrate how your application will block an operator from submitting operations located within P-67 near Kennebunkport, ME.	
	Results: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
Operator/ USS	Click or tap here to enter text.	

**ACTIVE TFR:** Temporary Flight Restrictions (TFRs) are issued for special events, VIP movement, and security/emergency response. Exact location or issuance is generally not known more than a few days, or hours, in advance.

Test Step	Test Procedure
Step 8.	The FAA Test Team will select an active TFR from an official source, such as <a href="https://tfr.faa.gov">https://tfr.faa.gov</a> .
Test Actor	Test Notes:
FAA: Tester	Click or tap here to enter text.

Test Step	Test Procedure
Step 9.	Initialize an operation within the identified TFR during its effective time.
	<b>Notes:</b> Reference Scenario #1, Step 8 for TFR processing.
Test Actor	Test Notes:
Operator	Click or tap here to enter text.

Test Step	Test Procedure		Rule(s)
Step 10.	Demonstrate how your application processes and displays TFR data for operator use and awareness.		[3.4.4a] [3.4.5h]
	Results:	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:		
USS	Click or tap here to enter text.		

**SPORTING EVENT TFR:** The Sporting Event Automated Monitoring System (SEAMS) provides near-real-time Stadium TFR data.

Test Step	Test Procedure
Step 11.	The FAA Test Team will select a Sporting Event TFR from the SEAMS dataset.
Test Actor	Test Notes:
FAA: Tester	Click or tap here to enter text.

Test Step	Test Procedure
Step 12.	Initialize an operation within the identified Sporting Event TFR during its effective time.
Test Actor	Test Notes:
Operator	Click or tap here to enter text.

Test Step	Test Procedure		Rule(s)
Step 13.	Demonstrate how your application processes and displays Sporting Event TFR data for operator use and awareness.		[3.4.5j]
	Results:	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:		
USS	Click or tap here to enter text.		



**AUTHORIZATION AREA TOO LARGE:** The area of the test operation is Banner, WY. The test operation is under the SHR UASFM.

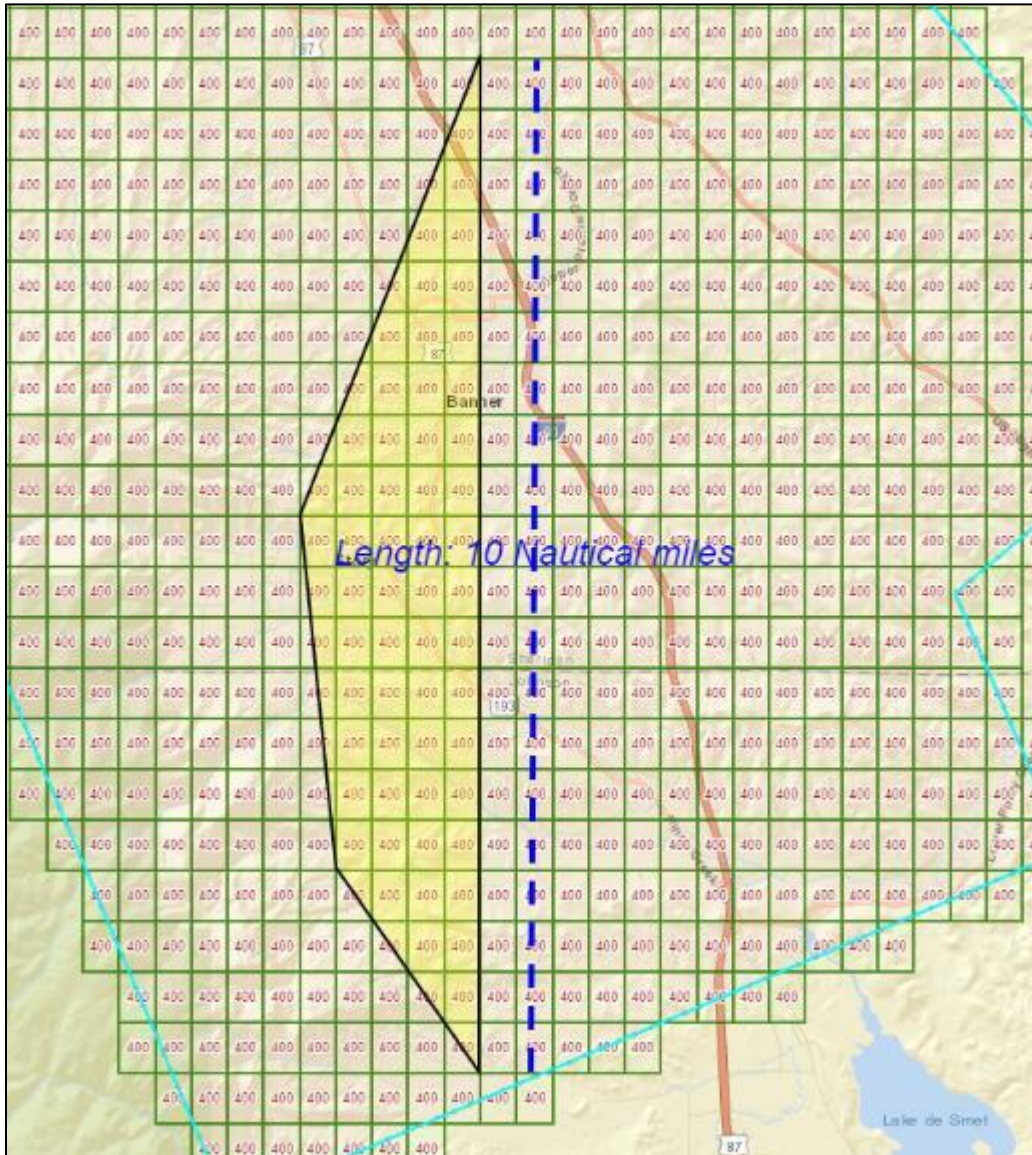


Figure 9: Scenario #3 | 10 NM Polygon | Banner, WY

Test Step	Test Procedure		Rule(s)
Step 14.	Initialize an operation that has at least 10 NM between any two vertices (not necessarily adjacent).		[3.7b]
	Demonstrate that the authorization is blocked.		
	<b>Notes:</b> <i>For reference – each UASFM grid is 0.5 NM.</i>		
	<b>Results:</b>	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:		
Operator/ USS	Click or tap here to enter text.		

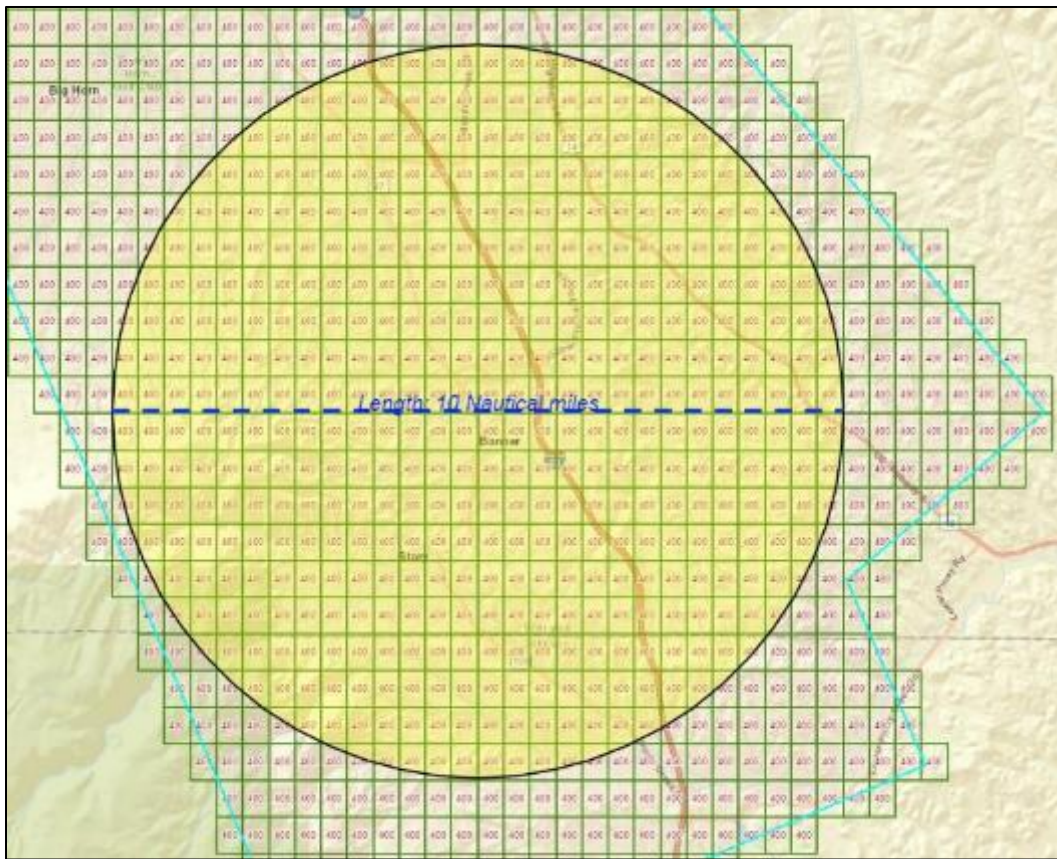


Figure 10: Scenario #3 | 10 NM Point Radius | Banner, WY

Test Step	Test Procedure	Rule(s)
Step 15.	Initialize an operation that has a diameter of at least 10 NM.	[3.7b]
	Demonstrate that the authorization is blocked.	
	<b>Notes:</b> For reference – each UASFM grid is 0.5 NM. <b>Results:</b> <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
Operator/ USS	Click or tap here to enter text.	



## Scenario #4

### Automatic Authorizations, Validity Checks & Operator Advisements

#### Scenario Overview

This scenario applies to the following LAANC operation types:

Part 107 Auto-Approval	Part 107 Further Coordination	§ 44809 Auto-Approval
✓		✓

This scenario checks:

- Part 107 Auto-Approval authorization
- § 44809 Auto-Approval authorization
- Advance submission time period
- Exceeding 400 feet
- Flying at night and during civil twilight
- Class E notification
- Cancel operation
- Close operation (*if offered*)

#### Test Steps

The area of the test operation is David T. Lawrence Country Club in Lawrence, KS. The test operation is under the LWC UASFM.

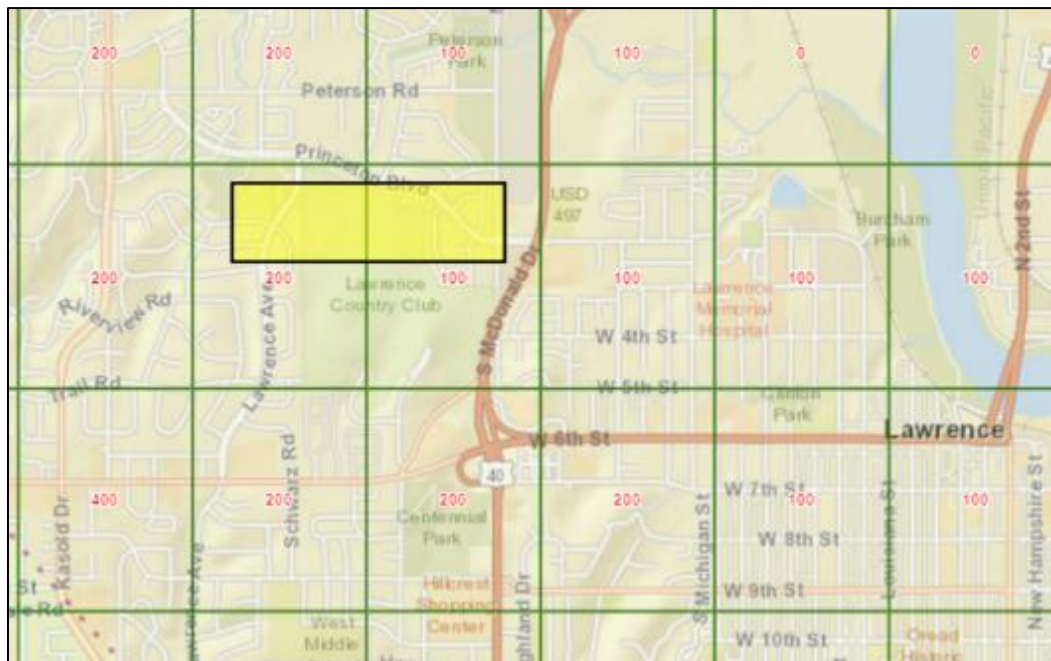


Figure 11: Scenario #4 | David T. Lawrence Country Club | Lawrence, KS

Test Step	Test Procedure			Rule(s)	
Step 1.	Initialize an operation over Lawrence Country Club for a flight maximum altitude of 100'.			[3.1a]	
	Results   Part 107:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail		<input type="checkbox"/> N/A
	Results   § 44809:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail		<input type="checkbox"/> N/A
Test Actor	Test Notes:				
Operator	Click or tap here to enter text.				

Test Step	Test Procedure			Rule(s)	
Step 2.	Demonstrate how your application identifies the operation as eligible for auto-approved authorization.			[3.3.1a]	
				[3.3.6a]	
	Results   Part 107:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail	<input type="checkbox"/> N/A	[3.3.6b]
	Results   § 44809:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail	<input type="checkbox"/> N/A	[3.4a]
Test Actor	Test Notes:				
USS	Click or tap here to enter text.				

Test Step	Test Procedure			Rule(s)	
Step 3.	Demonstrate how your application prevents the operation from submitting an authorization request more than 90 days in the future.			[3.4.1b]	
	Results   Part 107:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail		<input type="checkbox"/> N/A
	Results   § 44809:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail		<input type="checkbox"/> N/A
Test Actor	Test Notes:				
USS	Click or tap here to enter text.				

Test Step	Test Procedure			Rule(s)	
Step 4.	Demonstrate how your application checks against operations exceeding 400 feet.			[3.4.5a] [3.4.5b]	
	Results   Part 107:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail		<input type="checkbox"/> N/A
	Results   § 44809:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail		<input type="checkbox"/> N/A
Test Actor	Test Notes:				
USS	Click or tap here to enter text.				

Test Step	Test Procedure	Rule(s)
Step 5.	§ 44809 Only – Initialize an authorization in this area for a flight maximum altitude of 300’.	[3.1a] [3.4a]
	Demonstrate how your application informs the operator their request exceeds the altitude limit on the UASFM.	
	Results   § 44809: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
Operator/ USS	Click or tap here to enter text.	

Test Step	Test Procedure	Rule(s)
Step 6.	§ Part 107 Only – Demonstrate how your application advises operators of civil twilight periods and associated requirements.	[3.4.5g]
	Results   Part 107: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
Operator/ USS	Click or tap here to enter text.	



Test Step	Test Procedure			Rule(s)	
Step 7.	Demonstrate how your application advises operators of night operation requirements.			[3.4.5c] [3.4.5d]	
	Results   Part 107:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail		<input type="checkbox"/> N/A
	Results   § 44809:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail		<input type="checkbox"/> N/A
Test Actor	Test Notes:				
USS	Click or tap here to enter text.				

Test Step	Test Procedure			Rule(s)	
Step 8.	Demonstrate how the Class E caveat is provided to the operator.			[3.4.6a]	
	Results   Part 107:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail		<input type="checkbox"/> N/A
	Results   § 44809:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail		<input type="checkbox"/> N/A
Test Actor	Test Notes:				
USS	Click or tap here to enter text.				

Test Step	Test Procedure
Step 9.	Submit the operation to the FAA. Record the LAANC Reference Code(s).
Test Actor	Test Notes:
Operator/ FAA: Tester	Click or tap here to enter text.

Test Step	Test Procedure	Rule(s)
Step 10.	Verify on the FAA side that the submission is received with the correct content.	[3.2.1a]
	Results   Part 107: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
	Results   § 44809: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
FAA: AT	Click or tap here to enter text.	

Test Step	Test Procedure	Rule(s)
Step 11.	Demonstrate how and when your application indicates a successful auto-approved authorization.	[3.4.1a]
	Results   Part 107: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
	Results   § 44809: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
USS	Click or tap here to enter text.	

Test Step	Test Procedure			Rule(s)	
Step 12.	Demonstrate the operator’s access to the 12-character operation reference code.			[3.4.7a] [3.4.7b]	
	Results   Part 107:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail		<input type="checkbox"/> N/A
	Results   § 44809:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail		<input type="checkbox"/> N/A
Test Actor	Test Notes:				
USS	Click or tap here to enter text.				

Test Step	Test Procedure	Rule(s)
Step 13.	Demonstrate how the authorization text is provided to the operator.	[3.5a] [3.5b]
	Results   Part 107: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	[3.6a]
	Results   § 44809: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	[3.6b]
Test Actor	Test Notes:	
USS	Click or tap here to enter text.	

Test Step	Test Procedure	Rule(s)
Step 14.	Demonstrate how an operator will quickly access the operation-specific authorization information in a form that can be produced.	[3.5c] [3.6c]
	<b>Criteria Notes:</b> The text could be within the application or provided via email or SMS message.	
	Results   Part 107: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
	Results   § 44809: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
USS	Click or tap here to enter text.	

Test Step	Test Procedure	Rule(s)
Step 15.	Demonstrate how the operator will manually cancel the authorization.	[3.4.9a]
	Results   Part 107: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
	Results   § 44809: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
USS	Click or tap here to enter text.	

Test Step	Test Procedure
Step 16.	Submit the manual cancellation.
Test Actor	Test Notes:
Operator	Click or tap here to enter text.

Test Step	Test Procedure	Rule(s)
Step 17.	Verify on the FAA side that the operation has been manually cancelled.	[3.2.1a]
	Results   Part 107: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
	Results   § 44809: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
FAA: AT	Click or tap here to enter text.	

**\*\*Steps 18-21 to be performed ONLY if the Close Operation capability is offered. \*\***

Test Step	Test Procedure
Step 18.	Submit a new, similar operation with an operation start time of 2 minutes in the future with a duration of 15+ minutes. Record the LAANC Reference Code(s).
Test Actor	Test Notes:
Operator/ FAA: Tester	Click or tap here to enter text.

Test Step	Test Procedure	Rule(s)
Step 19.	Verify on the FAA side that the submission is received with the correct content.	[3.2.1a]
	Results   Part 107: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
	Results   § 44809: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
FAA: AT	Click or tap here to enter text.	

Test Step	Test Procedure
Step 20.	Close the operation that was created in Step 20.  <i>Criteria Notes: Close must be completed following the start time of the operation, but prior to its termination.</i>
Test Actor	Test Notes:
Operator	Click or tap here to enter text.

Test Step	Test Procedure	Rule(s)
Step 21.	Verify on the FAA side that the operation has been closed.	[3.2.1a]
	Results   Part 107: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
	Results   § 44809: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
FAA: AT	Click or tap here to enter text.	

## Scenario #5

### FC Authorizations, Validity Checks & Operator Advisement

#### Scenario Overview

This scenario applies to the following LAANC operation types:

Part 107 Auto-Approval	Part 107 Further Coordination	§ 44809 Auto-Approval
✓	✓	

This scenario checks:

- Crossing airspace boundary [Controlled-Uncontrolled]
- Temporally overlapping authorizations exceed allowable spatial distance
- Excessive number of temporally overlapping authorizations

#### Test Steps

The area of the test operation is David T. Lawrence Country Club in Lawrence, KS. The test operation is under the LWC UASFM.

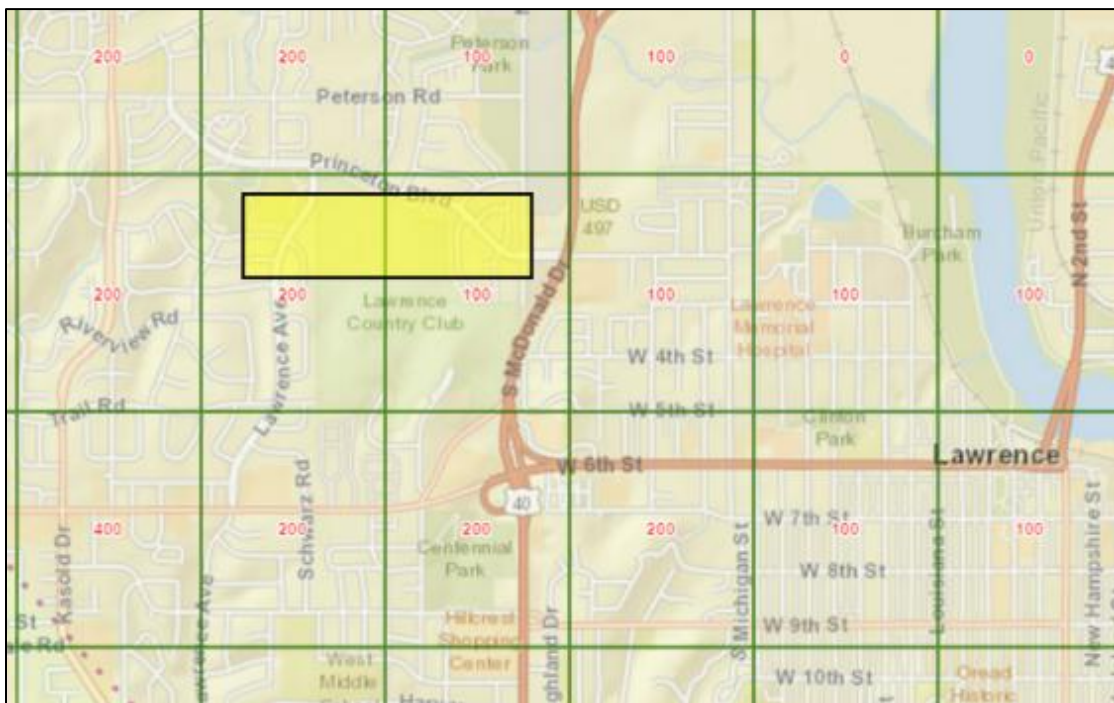


Figure 12: Scenario #5 | David T. Lawrence Country Club | Lawrence, KS

Test Step	Test Procedure	Rule(s)
Step 1.	Initialize an operation over David T. Lawrence Country Club for a flight maximum altitude of 200'.	[3.1a]
	Results   Part 107: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
Operator	Click or tap here to enter text.	

Test Step	Test Procedure	Rule(s)
Step 2.	Demonstrate if your application subdivides the operation into two adjacent operational volumes; one for auto-approval, and one for further coordination.	[3.3.3a] [3.3.3b]
	<i><b>Criteria Notes:</b> Subdividing the operation is preferred by the FAA, so that AT only needs to manually approve parts of the operation that require it. However, it is permissible by the USS Performance Rules to submit this operation as a single Further Coordination.</i>	
	<b>Results   Part 107:</b> <div><input type="checkbox"/> Pass<input type="checkbox"/> Fail<input type="checkbox"/> N/A</div>	
Test Actor	Test Notes:	
USS	Click or tap here to enter text.	

Test Step	Test Procedure	Rule(s)
Step 3.	Demonstrate how your application will block a further coordination request more than 90 days in the future.	[3.4.2d]
	Results   Part 107: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
USS	Click or tap here to enter text.	

Test Step	Test Procedure	Rule(s)
Step 4.	Demonstrate how your application will block a further coordination request less than 72 hours in the future.	[3.4.2b]
	Results   Part 107: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
USS	Click or tap here to enter text.	

Test Step	Test Procedure
Step 5.	Adjust the operation start time to be more than 72 hours in the future.
	Submit the operation to the FAA. Record the LAANC Reference Code(s).
<b>Test Actor</b>	<b>Test Notes:</b>
Operator/ FAA: Tester	Click or tap here to enter text.

Test Step	Test Procedure			Rule(s)
Step 6.	Demonstrate how your application indicates a successful submission and discourages operators from contacting AT.			[3.4.2f]
	Results   Part 107:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail	
Test Actor	Test Notes:			
USS	Click or tap here to enter text.			

Test Step	Test Procedure	Rule(s)
Step 7.	Demonstrate how the operator is informed of the manual timeline of further coordination.	[3.4.2e]
	Results   Part 107: <div><input type="checkbox"/> Pass<div><input type="checkbox"/> Fail<input type="checkbox"/> N/A</div></div>	
Test Actor	Test Notes:	
USS	Click or tap here to enter text.	

Test Step	Test Procedure	Rule(s)
Step 8.	Verify on the FAA side that the submission is received with the correct content.	[3.2.1a]
	Results   Part 107: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
FAA: AT	Click or tap here to enter text.	

Test Step	Test Procedure
Step 9.	Approve the authorization request on the FAA side.
Test Actor	Test Notes:
FAA: AT	Click or tap here to enter text.

Test Step	Test Procedure	Rule(s)
Step 10.	Verify that the approval message was received.	[3.2.1a] [3.4.2a]
	Results   Part 107: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
USS	Click or tap here to enter text.	

Test Step	Test Procedure	Rule(s)
Step 11.	Demonstrate how your application indicates an approved further coordination request to the operator.	[3.1a] [3.4.2a]
	Results   Part 107: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
USS	Click or tap here to enter text.	

Test Step	Test Procedure	Rule(s)
Step 12.	Demonstrate the authorization text provided to the operator.	[3.5a]
	Results   Part 107: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	[3.5b]
Test Actor	Test Notes:	
USS	Click or tap here to enter text.	

Test Step	Test Procedure	Rule(s)
Step 13.	Initialize another authorization in this area for a flight maximum altitude of 300'.	[3.3.1a] [3.3.6a] [3.3.6b] [3.4a]
	Demonstrate how the operator is informed that the operation is eligible for further coordination.	
	Results   Part 107: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
Operator/ USS	Click or tap here to enter text.	

Test Step	Test Procedure
Step 14.	Submit the operation to the FAA. Record the LAANC Reference Code(s).
Test Actor	Test Notes:
Operator/ FAA: Tester	Click or tap here to enter text.

Test Step	Test Procedure	Rule(s)
Step 15.	Verify on the FAA side that the submission is received with the correct content.	[3.2.1a]
	Results   Part 107: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
FAA: AT	Click or tap here to enter text.	

Test Step	Test Procedure
Step 16.	Deny the further coordination request and include the reason: Altitude – Resubmit 100’ Lower.
Test Actor	Test Notes:
FAA: AT	Click or tap here to enter text.

Test Step	Test Procedure	Rule(s)
Step 17.	Verify that the denial message was received.	[3.4.2a] [3.4.2g]
	Results   Part 107: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
USS	Click or tap here to enter text.	

Test Step	Test Procedure	Rule(s)
Step 18.	Demonstrate how your application indicates a denied further coordination request and advises the operator not to submit an operation with the same input parameters as the one that was denied. The message must include the specified reason for the denied further coordination request.	[3.4.2a] [3.4.2g] [3.4.2h]
	<b>Criteria Notes:</b> Advisement to the operator must be substantially similar to the suggested message accompanying Rule [3.4.2g].	
	Results   Part 107: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
USS	Click or tap here to enter text.	

Test Step	Test Procedure
Step 19.	Initialize another authorization in this area for a flight maximum altitude of 300’, set for 72 hours in the future.
Test Actor	Test Notes:
Operator	Click or tap here to enter text.

Test Step	Test Procedure
Step 20.	Submit the operation to the FAA. Record the LAANC Reference Code(s).
Test Actor	Test Notes:
Operator/ FAA: Tester	Click or tap here to enter text.

Test Step	Test Procedure	Rule(s)
Step 21.	Verify on the FAA side that the submission is received with the correct content.	[3.2.1a]
	Results   Part 107: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
FAA: AT	Click or tap here to enter text.	

**\*\*Wait 69 hours for the operation to automatically cancel before completing Steps 22 & 23. \*\***

Test Step	Test Procedure	Rule(s)
Step 22.	Demonstrate how your application automatically cancels unanswered requests 3 hours before the requested operation start time.	[3.4.2c]
	Results   Part 107: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
USS	Click or tap here to enter text.	

Test Step	Test Procedure			Rule(s)
Step 23.	Verify that the request is automatically cancelled at the 3-hour mark.			[3.2.1a] [3.4.2c]
	Results   Part 107:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail	
Test Actor	Test Notes:			
FAA: Tester	Click or tap here to enter text.			



## Scenario #6

### NSUFR Blocking, Operation Changes, Invalidated & Rescinded

#### Scenario Overview

This scenario applies to the following LAANC Operation Types:

Part 107 Auto-Approval	Part 107 Further Coordination	§ 44809 Auto-Approval
✓	✓	✓

This scenario checks:

- Blocking in a NSUFR:
  - (1) Full-Time (FT)
  - (2) Part-Time (PT)
- Detect invalid authorization [data source change]
- Cancel invalid operation

#### Test Steps

The area of the test operations is near Diablo Creek Golf Course in Concord, CA. The test operations are under the CCR UASFM.

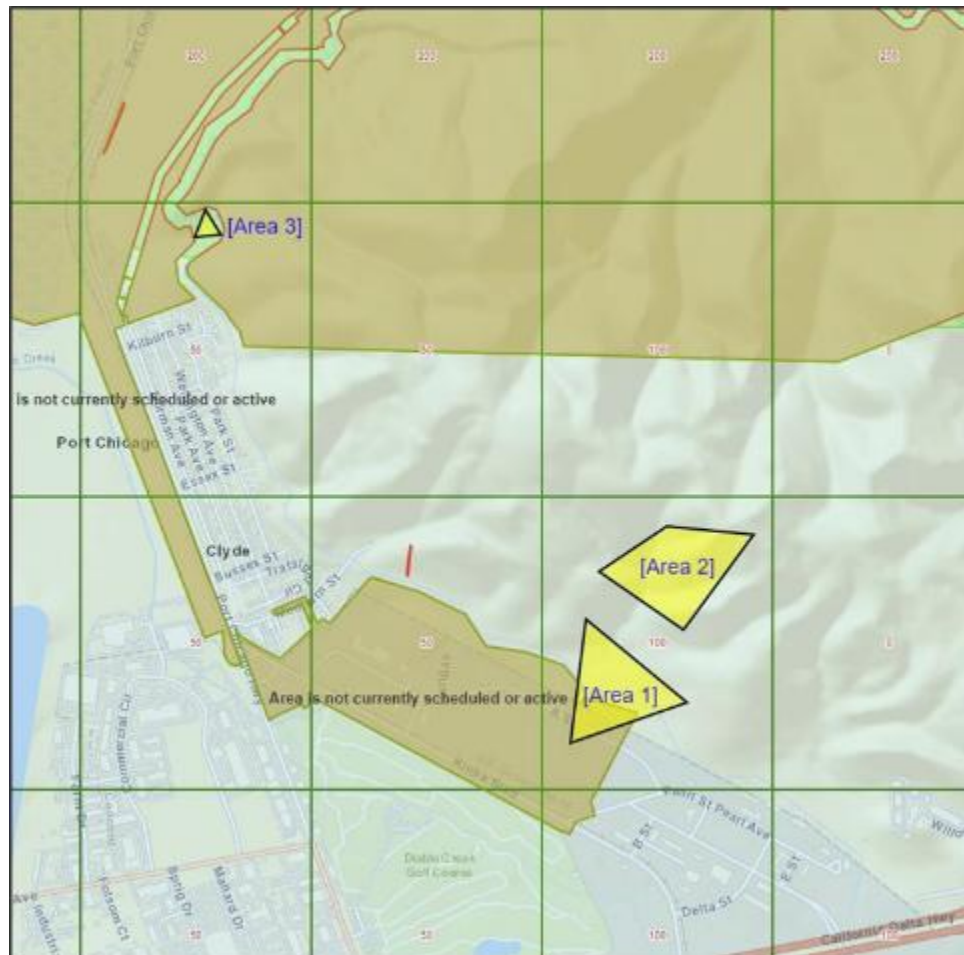


Figure 13: Scenario #6 | Diablo Creek Golf Course | Concord, CA

Test Step	Test Procedure			Rule(s)	
Step 1.	Initialize an operation in this area to include part of the FT NSUFR [Area 1] for a flight maximum altitude of 100'.			[3.1a]	
	Results   Part 107:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail		<input type="checkbox"/> N/A
	Results   § 44809:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail		<input type="checkbox"/> N/A
Test Actor	Test Notes:				
Operator	Click or tap here to enter text.				

Test Step	Test Procedure			Rule(s)	
Step 2.	Demonstrate how your application explicitly checks for and blocks FT NSUFRs.			[3.4.5a]	
	Results   Part 107:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail	<input type="checkbox"/> N/A	[3.4.5e]
	Results   § 44809:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail	<input type="checkbox"/> N/A	
Test Actor	Test Notes:				
USS	Click or tap here to enter text.				

Test Step	Test Procedure
Step 3.	Adjust the area of operation outside of the FT NSUFR [Area 2] and submit the operation to the FAA. Record the LAANC Reference Code(s).
Test Actor	Test Notes:
Operator/ FAA: Tester	Click or tap here to enter text.

Test Step	Test Procedure			Rule(s)	
Step 4.	Verify on the FAA side that the submission is received with the correct content.			[3.2.1a]	
	Results   Part 107:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail		<input type="checkbox"/> N/A
	Results   § 44809:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail		<input type="checkbox"/> N/A
Test Actor	Test Notes:				
FAA: AT	Click or tap here to enter text.				

Test Step	Test Procedure			Rule(s)
Step 5.	Part 107 FC Only – Initialize an operation for a flight maximum altitude of 300’ in [Area 2].			[3.1a]
	Results   Part 107:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail	
Test Actor	Test Notes:			
USS	Click or tap here to enter text.			

Test Step	Test Procedure
Step 6.	Part 107 FC Only – Submit the request to the FAA. Record the LAANC Reference Code.
Test Actor	Test Notes:
Operator/ FAA: Tester	Click or tap here to enter text.

Test Step	Test Procedure	Rule(s)	
Step 7.	<b>Part 107 FC Only</b> – Verify on the FAA side that the submission is received with the correct content.	[3.2.1a]	
	<b>Criteria Notes:</b> <i>Operation should be Part 107 FC pending authorization.</i>		
	<b>Results   Part 107:</b>		<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A
Test Actor	Test Notes:		
FAA: AT	Click or tap here to enter text.		



Figure 14: Scenario #6 | PT NSUFR | Concord, CA

Test Step	Test Procedure	Rule(s)			
Step 8.	Initialize an operation in this area to include part of the PT NSUFR [Area 3] for a flight maximum altitude of 50’.	[3.1a]			
	<b>Notes:</b> <ul style="list-style-type: none"><li>The date &amp; time of the operation must fall within the current PT NSUFR active window, per the secondary PT NSUFR source.</li><li>In Figure 14, [Area 3] is fully encompassed by the PT NSUFR. The [FT-PT NSUFR] areas depicted in the figure represent areas covered by both FT &amp; PT NSUFRs.</li></ul>				
	Results   Part 107:		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail	<input type="checkbox"/> N/A
	Results   § 44809:		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail	<input type="checkbox"/> N/A
Test Actor	Test Notes:				
Operator	Click or tap here to enter text.				

Test Step	Test Procedure
Step 9.	Submit the operation to the FAA. Record the LAANC Reference Code(s).
<b>Test Actor</b>	<b>Test Notes:</b>
Operator/ FAA: Tester	Click or tap here to enter text.

Test Step	Test Procedure			Rule(s)	
Step 10.	Verify on the FAA side that the submission is received with the correct content.			[3.2.1a]	
	Results   Part 107:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail		<input type="checkbox"/> N/A
	Results   § 44809:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail		<input type="checkbox"/> N/A
Test Actor	Test Notes:				
FAA: AT	Click or tap here to enter text.				

Test Step	Test Procedure	Rule(s)	
Step 11.	<b>Part 107 FC Only</b> - Initialize an operation in this area to include part of the PT NSUFR [Area 3] for a flight maximum altitude of 200’.	[3.1a]	
	<i>Notes: The date &amp; time of the operation must fall within the current PT NSUFR active window, per the secondary PT NSUFR source.</i>		
	Results   Part 107:		<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A
Test Actor	Test Notes:		
Operator	Click or tap here to enter text.		

Test Step	Test Procedure
Step 12.	<b>Part 107 FC Only</b> - Submit the operation to the FAA. Record the LAANC Reference Code(s).
<b>Test Actor</b>	<b>Test Notes:</b>
Operator/ FAA: Tester	Click or tap here to enter text.

Test Step	Test Procedure	Rule(s)	
Step 13.	<b>Part 107 FC Only</b> – Verify on the FAA side that the submission is received with the correct content.	[3.2.1a]	
	<i>Criteria Notes: Operation should be Part 107 FC pending authorization.</i>		
	<b>Results   Part 107:</b>		<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A
Test Actor	Test Notes:		
FAA: AT	Click or tap here to enter text.		

Test Step	Test Procedure
Step 14.	<b>Part 107 FC Only</b> - Submit the operation to the FAA. Record the LAANC Reference Code(s).
<b>Test Actor</b>	<b>Test Notes:</b>
Operator/ FAA: Tester	Click or tap here to enter text.

Test Step	Test Procedure
Step 15.	<p>Switch to the secondary test UASFM source and the secondary PT NSUFR source; load the datasets into the USS system.</p> <p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>The secondary test UASFM source will change the altitude limit to 50' for the operations in [Area 2];</li> <li>The secondary PT NSUFR source will set the PT NSUFR to "Active" for the operations in [Area 3].</li> </ul>
Test Actor	Test Notes:
USS	Click or tap here to enter text.

**\*\* If prior authorizations are not immediately invalidated, wait until 3 hours before the PT NSUFR start time before completing the remaining test steps. \*\***

Test Step	Test Procedure	Rule(s)
Step 16.	<p>Demonstrate how your system handles map changes that invalidate prior authorizations.</p> <p><b>Criteria Notes:</b></p> <ul style="list-style-type: none"> <li>A proper response in this case is to detect the conflict and prompt the operator, via the strongest available mechanisms, to cancel the invalid operations.</li> <li>If prior authorizations are not immediately invalidated, demonstrate how your application will invalidate authorizations within 3 hours of the PT NSUFR start time.</li> </ul>	[3.2.1a] [3.4.11a] [3.4.11b]
	<b>Results   Part 107:</b> <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
	<b>Results   § 44809:</b> <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
USS	Click or tap here to enter text.	

Test Step	Test Procedure	Rule(s)
Step 17.	<p>Demonstrate how soon operator contact is initiated and how the operator is directed to cancel the invalid operations.</p> <p><b>Notes:</b> Do not cancel the invalid operations.</p>	[3.4.11c] [3.4.11d] [3.4.11e]
	<b>Results   Part 107:</b> <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
	<b>Results   § 44809:</b> <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
USS	Click or tap here to enter text.	

Test Step	Test Procedure			Rule(s)	
Step 18.	Initialize an operation in [Area 2] for a flight maximum altitude of 50'. Demonstrate how your application will block any further submissions before the invalid operations are canceled.			[3.4.11f]	
	Results   Part 107:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail		<input type="checkbox"/> N/A
	Results   § 44809:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail		<input type="checkbox"/> N/A
Test Actor	Test Notes:				
USS	Click or tap here to enter text.				

Test Step	Test Procedure
Step 19.	Cancel the invalid operations.
Test Actor	Test Notes:
Operator	Click or tap here to enter text.

Test Step	Test Procedure			Rule(s)	
Step 20.	Verify that the invalid operations are cancelled on the FAA side.			[3.4.11e]	
	Results   Part 107:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail		<input type="checkbox"/> N/A
	Results   § 44809:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail		<input type="checkbox"/> N/A
Test Actor	Test Notes:				
FAA: AT	Click or tap here to enter text.				

Test Step	Test Procedure
Step 21.	Initialize a new authorization in [Area 3], to include part of the PT NSUFR, for a flight maximum altitude of 50'.  <i>Notes: The date &amp; time of the operation must fall within the current PT NSUFR active window, per the secondary PT NSUFR source.</i>
Test Actor	Test Notes:
Operator	Click or tap here to enter text.

Test Step	Test Procedure			Rule(s)	
Step 22.	Demonstrate how your application explicitly checks and blocks PT NSUFRs.			[3.4.5a] [3.4.5e]	
	Results   Part 107:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail		<input type="checkbox"/> N/A
	Results   § 44809:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail		<input type="checkbox"/> N/A
Test Actor	Test Notes:				
USS	Click or tap here to enter text.				

## Scenario #7

### Crossing Adjacent Airspace Boundaries

#### Scenario Overview

This scenario applies to the following LAANC operation types:

Part 107 Auto-Approval	Part 107 Further Coordination	§ 44809 Auto-Approval
✓		✓

This scenario checks:

- Crossing adjacent [LAANC enabled] airspace boundaries
- Crossing airspace boundary [Controlled-Uncontrolled]
- Sequential LAANC reference codes
- Sub-divided operations
- Rescinded operations

#### Test Steps

The area of the test operation is Daytona Beach, FL. The test operation falls under OMN (northern airspace) and DAB (southern airspace) UASFM. The airspace boundary between the two intersects the operational area. Operational area also includes uncontrolled Class G airspace outside the UASFM.

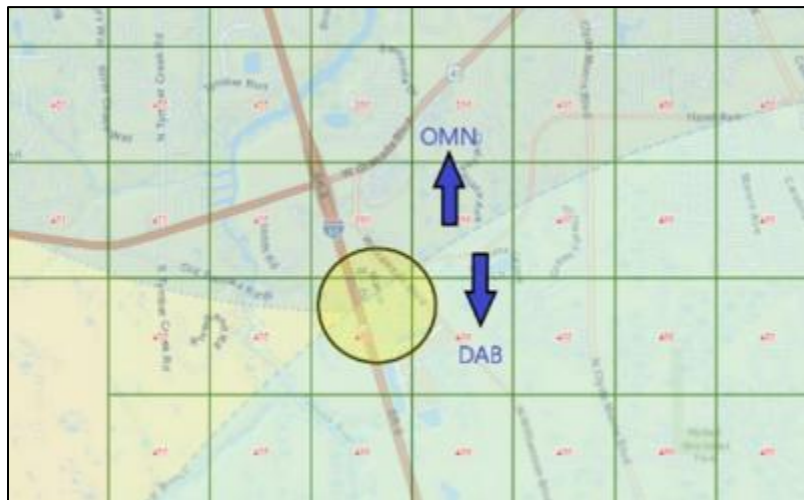


Figure 15: Scenario #7 | Daytona Beach, FL

Test Step	Test Procedure	Rule(s)	
Step 1.	Initialize an operation in this area for a flight maximum altitude of 200’.	[3.1a]	
	<i>Notes: The operation must cross into both the DAB and OMN airspaces, as well as cross into uncontrolled airspace.</i>		
	Results   Part 107:		<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A
	Results   § 44809:		<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A
Test Actor	Test Notes:		
USS	Click or tap here to enter text.		



Test Step	Test Procedure	Rule(s)
Step 2.	Demonstrate how your application manages operations that cross a surface airspace boundary between two facilities that have UASFMs and cross into uncontrolled airspace.	[3.3.3a] [3.3.3b] [3.3.4a] [3.3.4b] [3.3.4d]
	Results   Part 107: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
	Results   § 44809: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
USS	Click or tap here to enter text.	

Test Step	Test Procedure
Step 3.	Submit the operation to the FAA. Record the LAANC Reference Codes.
Test Actor	Test Notes:
Operator/ FAA: Tester	Click or tap here to enter text.

Test Step	Test Procedure			Rule(s)	
Step 4.	Verify on the FAA side that the submission is received with the correct content.			[3.2.1a]	
	Results   Part 107:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail		<input type="checkbox"/> N/A
	Results   § 44809:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail		<input type="checkbox"/> N/A
Test Actor	Test Notes:				
FAA: AT	Click or tap here to enter text.				

Test Step	Test Procedure	Rule(s)
Step 5.	Verify the LAANC Reference Codes have two unique authorization numbers as the last digit.	[3.4.7c]
	<b>Criteria Notes:</b> Per the USS Performance Rules, this is a single “operation” that has been divided into two “authorizations”. The operation reference codes should reflect this association. One authorization should be “ABC123456XX0” and the other “ABC123456XX1”.	
	Results   Part 107: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
	Results   § 44809: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
FAA: Tester	Click or tap here to enter text.	

Test Step	Test Procedure
Step 6.	Rescind the operation that falls within the OMN airspace on the FAA side.
Test Actor	Test Notes:
FAA: AT	Click or tap here to enter text.



Test Step	Test Procedure			Rule(s)	
Step 7.	Demonstrate the USS system’s ability to receive LAANC messages from the FAA.			[3.2.1a]	
	Results   Part 107:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail		<input type="checkbox"/> N/A
	Results   § 44809:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail		<input type="checkbox"/> N/A
Test Actor	Test Notes:				
USS	Click or tap here to enter text.				

Test Step	Test Procedure			Rule(s)	
Step 8.	Demonstrate how soon operator contact is initiated and how the operator is directed to acknowledge the operation in confirmation that it was rescinded.			[3.4.10a]	
	Results   Part 107:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail		<input type="checkbox"/> N/A
	Results   § 44809:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail		<input type="checkbox"/> N/A
Test Actor	Test Notes:				
USS	Click or tap here to enter text.				

Test Step	Test Procedure	Rule(s)
Step 9.	Demonstrate how your application will prompt an operator to acknowledge outstanding rescinded authorizations.	[3.4.10b]
	<i>Notes: Do not acknowledge the rescinded authorization.</i>	
	Results   Part 107: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
	Results   § 44809: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
USS	Click or tap here to enter text.	

Test Step	Test Procedure	Rule(s)			
Step 10.	Initialize an operation in this area for a flight maximum altitude of 200'. Demonstrate how your application will block any further submissions before the recission is acknowledged.	[3.4.10d]			
	Results   Part 107:		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail	<input type="checkbox"/> N/A
	Results   § 44809:		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail	<input type="checkbox"/> N/A
Test Actor	Test Notes:				
USS	Click or tap here to enter text.				

Test Step	Test Procedure
Step 11.	Acknowledge the rescinded operation.
Test Actor	Test Notes:
Operator	Click or tap here to enter text.

Test Step	Test Procedure			Rule(s)	
Step 12.	Verify that the rescinded operation is acknowledged on the FAA side.			[3.2.1a] [3.4.10c]	
	Results   Part 107:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail		<input type="checkbox"/> N/A
	Results   § 44809:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail		<input type="checkbox"/> N/A
Test Actor	Test Notes:				
FAA: AT	Click or tap here to enter text.				

## Scenario #8

### Crossing Geometric/Temporal Airspace Boundaries & Airspace Schedule

#### Scenario Overview

This scenario applies to the following LAANC operation types:

Part 107 Auto-Approval	Part 107 Further Coordination	§ 44809 Auto-Approval
✓	✓	

This scenario checks:

- Crossing adjacent [LAANC enabled] airspace boundaries
- Sequential LAANC reference codes
- Sub-divided operation with mixed authorizations
- Rescinded operation

#### Test Steps

The area of the test operation is Camarillo, CA. The test operation is under the OXR and CMA UASFM.

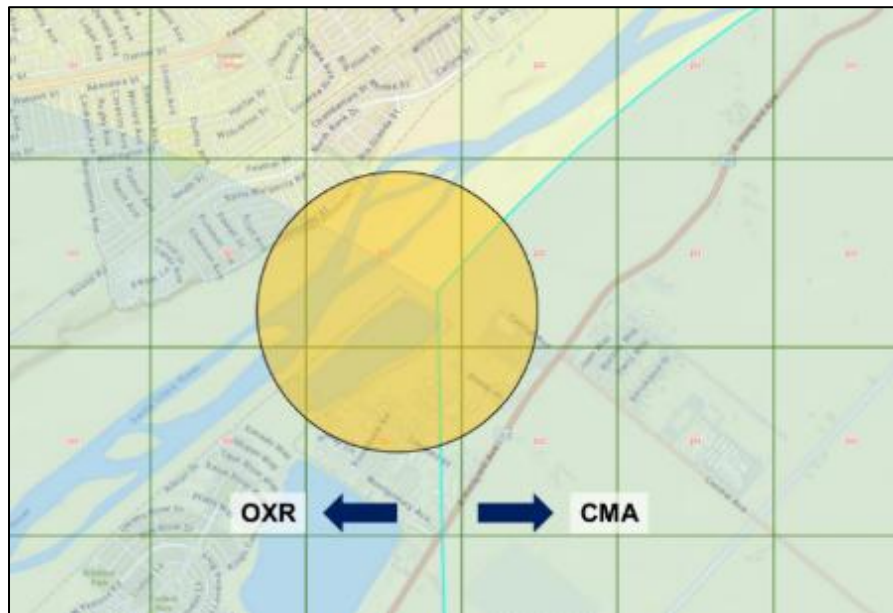


Figure 16: Scenario #8 | Camarillo, CA

Test Step	Test Procedure	Rule(s)
Step 1.	Initialize an operation in this area for a flight maximum altitude of 300’.	[3.1a]
	<p><b>Criteria Notes:</b> Part of the operation requires further coordination with CMA (max 200’), part requires further coordination with OXR (max 200’), and part can be auto-approved with OXR (max 300’).</p> <p><b>Results   Part 107:</b> <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A</p>	
Test Actor	Test Notes:	
USS	Click or tap here to enter text.	

Test Step	Test Procedure	Rule(s)
Step 2.	Set the start time as follows:  During Standard Time start 2000 PST (0400 UTC) and end 0800 PST (1600 UTC)  or  During Daylight Savings Time start 2000 PDT (0300 UTC) and end 0800 PDT (1500 UTC)  <i>Notes: In addition to other required or optional subdivision, this will result in a temporal subdivision one from 2000-2100 PST/PDT and one from 0700-0800 PST/PDT the following day.</i>	[3.1a] [3.3.5a]
	Results   Part 107:	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A
Test Actor	Test Notes:	
USS	Click or tap here to enter text.	

Test Step	Test Procedure			Rule(s)
Step 3.	Demonstrate how your application manages operations that cross a surface airspace boundary between two facilities that have UASFMs.			[3.3.3a]
	Results   Part 107:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail	<input type="checkbox"/> N/A
Test Actor	Test Notes:			
USS	Click or tap here to enter text.			

Test Step	Test Procedure
Step 4.	Submit the operation to the FAA. Record the LAANC Reference Code(s).
Test Actor	Test Notes:
Operator/ FAA: Tester	Click or tap here to enter text.

Test Step	Test Procedure		Rule(s)
Step 5.	Verify on the FAA side that the submission is received with the correct content.		[3.2.1a]
	Results   Part 107:	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:		
FAA: AT	Click or tap here to enter text.		

Test Step	Test Procedure	Rule(s)	
Step 6.	Demonstrate how your application manages authorization requests with an Airspace Schedule.  <b>Criteria Notes:</b> <ul style="list-style-type: none"><li>Per the scope of LAANC and Part 107 / § 44809, no operational information outside controlled airspace is relevant to an authorization.</li><li>Furthermore, the FAA cannot accept information outside controlled airspace in deference to privacy afforded the operator.</li><li>Therefore, USSs should only submit operations or (temporal) portions of operations – that are during active airspace hours – to the FAA.</li></ul>	[3.3.4b] [3.4.3a] [3.4.3b]	
	Results   Part 107:		<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A
	Test Actor		Test Notes:
USS	Click or tap here to enter text.		

Test Step	Test Procedure		Rule(s)
Step 7.	Verify the LAANC Reference Codes have unique authorization numbers as the last digit.		[3.4.7c]
	Results   Part 107:	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:		
FAA: Tester	Click or tap here to enter text.		

Test Step	Test Procedure		Rule(s)
Step 8.	Demonstrate how a partly approved / partly pending operation is indicated in your application.		[3.4.2a]
	Results   Part 107:	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:		
USS	Click or tap here to enter text.		

Test Step	Test Procedure
Step 9.	Approve the OXR further coordination request.
Test Actor	Test Notes:
FAA: Tester	Click or tap here to enter text.

Test Step	Test Procedure	Rule(s)
Step 10.	Verify that the approval message was received by the USS.	[3.4.2a]
	Results   Part 107: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
USS	Click or tap here to enter text.	

Test Step	Test Procedure
Step 11.	Rescind the OXR authorization (resulting from further coordination) on the FAA side.
Test Actor	Test Notes:
FAA: AT	Click or tap here to enter text.

Test Step	Test Procedure	Rule(s)
Step 12.	Demonstrate how soon operator contact is initiated and how the operator is directed to acknowledge the rescinded OXR portion of the operation.	[3.4.10a]
	<b>Criteria Notes:</b> <ul style="list-style-type: none"> <li>The FAA is concerned that the urgency of processing rescinded operations is communicated to the operator.</li> <li>USSs should design their applications accordingly to get the operator's attention (e.g., notification, text message, email, automatic phone call, etc.) and strongly direct them to acknowledge the rescinded operation.</li> </ul>	
	Results   Part 107: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
USS	Click or tap here to enter text.	

Test Step	Test Procedure	Rule(s)
Step 13.	Demonstrate how your application will prompt an operator to acknowledge outstanding rescinded authorizations.	[3.4.10b]
	Results   Part 107: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
USS	Click or tap here to enter text.	

Test Step	Test Procedure
Step 14.	Acknowledge the rescission of the OXR further coordination authorization.
Test Actor	Test Notes:
Operator	Click or tap here to enter text.

Test Step	Test Procedure	Rule(s)
Step 15.	Verify that the rescinded authorization is acknowledged on the FAA side.	[3.2.1a] [3.4.10c]
	Results   Part 107: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
FAA: AT	Click or tap here to enter text.	

Test Step	Test Procedure	Rule(s)
Step 16.	Demonstrate how the operator can request to delete the operation that was just rescinded and acknowledged.	[3.2.1a] [3.4.10c]
	Results   Part 107: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
USS	Click or tap here to enter text.	

Test Step	Test Procedure			Rule(s)
Step 17.	Delete the rescinded acknowledged authorization.			[3.10b]
	Results   Part 107:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail	
Test Actor	Test Notes:			
Operator/ USS	Click or tap here to enter text.			

## Scenario #9 Operations and Maintenance (O&M)

### Scenario Overview

The FAA will call the API endpoints related to the items listed below and will record the results returned by the USS. See the API Specification for specific field details.

This scenario applies to the following LAANC operation types:

Part 107 Auto-Approval	Part 107 Further Coordination	§ 44809 Auto-Approval
✓	✓	✓

This scenario checks:

- System Health and Version(s) Check
- Open Authorization Queries
- Operational Statistics
- Operation History Queries

### Test Steps

Test Step	Test Procedure
Step 1.	The FAA will manually call its own endpoint related to System Health and Version Check(s).
<b>Test Actor</b>	<b>Test Notes:</b>
FAA	Click or tap here to enter text.

Test Step	Test Procedure
Step 2.	The FAA will manually call the USS endpoint related to System Health and Version Check(s).
<b>Test Actor</b>	<b>Test Notes:</b>
FAA	Click or tap here to enter text.

Test Step	Test Procedure	Rule(s)
Step 3.	Compare the content of the results to ensure they match.	[3.9.1b]
	<b>Notes:</b> <i>Discrepancies in the <b>UasfmDataset</b> and/or <b>PtNsufrDataset</b> (due to use of Primary &amp; Secondary sources for testing) and will not be penalized.</i> <b>Results:</b> <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
<b>Test Actor</b>	<b>Test Notes:</b>	
FAA	Click or tap here to enter text.	



**Step 3 Results Recorded:**

System Health and Versions	
status	
ussSystemVersion	
ussApiVersion	
ussUasfmDataset	
ussUasfmDatasetLastEditDate	
ussClassAirspaceDataset	
ussClassAirspaceDatasetLastEditDate	
ussAirportsDataset	
ussAirportsDatasetLastEditDate	
ussFtNsufrDataset	
ussFtNsufrDatasetLastEditDate	
ussPtNsufrDataset	
ussPtNsufrDatasetLastEditDate	
ussSeamsDataset	
ussSeamsDatasetLastEditDate	
ussFrzDataset	
ussFrzDatasetLastEditDate	
ussAPSuaDataset	
ussAPSuaDatasetLastEditDate	
ussAPAirScheduleDataset	
ussAPAirScheduleDatasetLastEditDate	

Test Step	Test Procedure
Step 4.	The FAA will manually call its own endpoint related to Operational Statistics to collect the statistics for the USS being tested since the beginning of the test event.
Test Actor	Test Notes:
FAA	Click or tap here to enter text.

Test Step	Test Procedure
Step 5.	The FAA will manually call the USS endpoint related to Operational Statistics to collect the statistics since the beginning of the test event.
Test Actor	Test Notes:
FAA	Click or tap here to enter text.

Test Step	Test Procedure	Rule(s)
Step 6.	Compare the content of the results to ensure they match.	[3.9.2b] [3.10b]
	Results: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
FAA	Click or tap here to enter text.	

## Step 6 Results Recorded:

Operational Statistics
count107OperationsSubmitted
count107AaSubmitted
count107FcSubmitted
count107FcApproved
count107FcDenied
countAutoCancelled
count107FcExpired <sup>1</sup>
count107Rescinded
count107RescindAck
count107Cancelled
count107InvalidCancel
count107Close
Count107Deleted
count44809OperationsSubmitted
count44809AaSubmitted
count44809Rescinded
count44809RescindAck
count44809Cancelled
count44809InvalidCancel
count44809Close
Count44809Deleted
countLaancCallSuccess <sup>2</sup>

Test Step	Test Procedure
Step 7.	The FAA will manually call its own endpoint related to Open Authorizations for the USS being tested.
Test Actor	Test Notes:
FAA	Click or tap here to enter text.

Test Step	Test Procedure
Step 8.	The FAA will manually call the USS endpoint related to Open Authorizations.
Test Actor	Test Notes:
FAA	Click or tap here to enter text.

Test Step	Test Procedure	Rule(s)
Step 9.	Compare the content of the results to ensure they match <b>and</b> are ordered by the operations submission time.	[3.9.3b]
	Results: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
FAA	Click or tap here to enter text.	

<sup>1</sup> LAANC AP count only.

<sup>2</sup> Includes submitted, cancelled, rescind acknowledged, updated, and deleted.

## Step 9 Results Recorded:

Open Authorizations
operation
submissionType
submissionCategory
state
operation
submissionType
submissionCategory
state
...

Test Step	Test Procedure
<b>Step 10.</b>	FAA test team will choose a Reference Code for an authorization that was processed earlier in the test session.
<b>Test Actor</b>	<b>Test Notes:</b>
FAA	Click or tap here to enter text.

Test Step	Test Procedure
<b>Step 11.</b>	The FAA will manually call its own endpoint related to Operation History for the selected Reference Code.
<b>Test Actor</b>	<b>Test Notes:</b>
FAA	Click or tap here to enter text.

Test Step	Test Procedure
<b>Step 12.</b>	The FAA will manually call the USS endpoint related to Operation History for the selected Reference Code.
<b>Test Actor</b>	<b>Test Notes:</b>
FAA	Click or tap here to enter text.

Test Step	Test Procedure		Rule(s)
Step 13.	Compare the content of the results to ensure they match.		[3.9.4b]
	Results:	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:		
FAA	Click or tap here to enter text.		

## Step 13 Results Recorded:

Operation History
submissionType
submissionCategory
submissionDateTime
status
approvalDateTime
changeDateTime
denialDateTime
rescindDateTime
cancelDateTime
ackRescindDateTime
closeDateTime

---

## 7 B4UFLY ONBOARDING TEST SCENARIOS

This section contains the USS B4UFLY Onboarding test scenarios. Each scenario contains test steps directing a series of actions to be performed for system evaluation. Test steps correlate to specific USS Performance Rules under test or other procedural directions required as part of the test administration and evaluation process.

Each test step is contained in an individual table with fields to reflect the following:

- **Test Step** – Test step number within the test scenario.
- **Test Actor** – Simulated actor to perform the test step. Actors are:
  - Operator
  - USS
  - FAA: Tester
- **Test Procedure** – The procedure to be performed for evaluation. This field may contain:
  - “*Facilitator*” notes to aid the facilitator in validating the expected results
  - “*Notes*” to aid in the demonstration of the step.
  - “*Criteria Notes*” to further understand the evaluation criteria.
- **Rule(s)** – A list of the USS Performance Rule(s) that are under evaluation for the test step.
- **Results** – Contains checkboxes for “Pass”, “Fail”, and “N/A”.
- **Test Notes** – FAA test team Notes specific to the step; IAW Section 2.3 Test Recording.

Test scenarios are accompanied with figures depicting the area under test, location of pin drops, and other features of the test such as airspace boundaries, SUAs, and NSUFRs. The pin drops are for demonstration only and do not have defined coordinates or other geometric properties that a USS needs to exactly replicate.

## Scenario #1 B4UFLY Access & Operator Messages

### Scenario Overview

This scenario checks:

- Various required statements and messages

### Test Steps

Test Step	Test Procedure		Rule(s)
Step 1.	The USS must provide free access to B4UFLY.		[5.1a]
	Results:	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:		
USS	Click or tap here to enter text.		

Test Step	Test Procedure	Rule(s)
Step 2.	The USS must not collect any PII or require any login or account creation from users to access B4UFLY.	[5.1b]
	Results: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
USS	Click or tap here to enter text.	

Test Step	Test Procedure		Rule(s)
Step 3.	B4UFLY must be available, at a minimum, to 44809 Recreational Users.		[5.1c]
	Results:	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:		
USS	Click or tap here to enter text.		

Test Step	Test Procedure	Rule(s)
Step 4.	The USS must include a link to LAANC for operations determined to require an authorization in an area that is LAANC enabled. The USS can determine whether to require login and/or payment at that point.	[5.1d]
	Results: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
USS	Click or tap here to enter text.	

Test Step	Test Procedure	Rule(s)			
Step 5.	<p>The USS must make the following general disclaimers available to users in a manner appropriate to its application designs at least once per session:</p> <p><i>“B4UFLY does not provide all necessary tools required to perform a complete Preflight Assessment. Operators/Users should identify the legal requirements and recommendations appropriate to the operation, whether those required under 14 CFR 107.49 or recommended by an FAA-recognized unmanned aircraft Community Based Organization in accordance with 49 USC 44809.”</i></p> <p>Provide a screenshot of the statement presented to the operator.</p>	[5.1e]			
	<b>Results:</b>		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail	<input type="checkbox"/> N/A
Test Actor	Test Notes:				
USS	Click or tap here to enter text.				

Test Step	Test Procedure	Rule(s)			
Step 6.	<p>The USS must make the following general disclaimers available to users in a manner appropriate to its application designs at least once per session:</p> <p><i>“Temporary Flight Restriction (TFR) and other data are updated periodically to reflect near real-time conditions. TFR information may not be provided in advance. Confirm data currency through alternate sources (e.g., tfr.faa.gov, 1800wxbrief.com) and contact your local Flight Service Station for interpretation of TFR data.”</i></p> <p>Provide a screenshot of the statement presented to the operator.</p>	[5.1f]			
	<b>Results:</b>		<input type="checkbox"/> Pass	<input type="checkbox"/> Fail	<input type="checkbox"/> N/A
Test Actor	Test Notes:				
USS	Click or tap here to enter text.				

Test Step	Test Procedure	Rule(s)
Step 7.	The USS must make the following general disclaimers available to users in a manner appropriate to its application designs at least once per session:  <i>All flights must be 400 ft AGL or lower, depending on UASFM maximum allowable altitude.</i>  Provide a screenshot of the statement presented to the operator.	[5.1g]
	Results: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
	Test Actor	
USS	Test Notes:	
	Click or tap here to enter text.	

Test Step	Test Procedure	Rule(s)
Step 8.	<p>The USS must make the following general disclaimers available to users in a manner appropriate to its application designs at least once per session:</p> <p><i>Advisories provided are limited to a 2 nautical mile radius from the location of the pin drop.</i></p> <p>Provide a screenshot of the statement presented to the operator.</p>	[5.1h]
	<div>Results:<div><input type="checkbox"/> Pass<input type="checkbox"/> Fail<input type="checkbox"/> N/A</div></div>	
Test Actor	Test Notes:	
USS	Click or tap here to enter text.	

Test Step	Test Procedure	Rule(s)
Step 9.	Explain how the operator can access the B4UFLY association statement.  “[USS Name] is a provider of UAS services for the FAA’s B4UFLY. B4UFLY is an airspace awareness tool. Information provided here is based on near real-time and available projected information on airspace status and airport-specific maps, and that information is subject to change. Planning tools should be checked prior to flight for any changes that could impact the operation.”  Provide a screenshot of the statement presented to the operator.	[5.1i]
	Results: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
	Test Actor	
USS	Test Notes: Click or tap here to enter text.	

Test Step	Test Procedure	Rule(s)
Step 10.	<p>The USS must make the following statement available to users in a manner appropriate to its application designs:</p> <p>“Anyone involved in UAS operations can file a NASA Aviation Safety Reporting System (ASRS) report to describe close calls, hazards, violations, and safety related incidents. <a href="#">Visit UAS Safety Reporting   NASA ASRS</a> to learn more.”</p> <p>Provide a screenshot of the statement presented to the operator.</p>	[5.1j]
	<div>Results:<div><input type="checkbox"/> Pass<input type="checkbox"/> Fail<input type="checkbox"/> N/A</div></div>	
Test Actor	Test Notes:	
USS	Click or tap here to enter text.	

Test Step	Test Procedure	Rule(s)
Step 11.	The B4UFLY USS must include the safety information and resources in Attachment J.	[5.1k]
	Provide a screenshot of the safety information and resources presented to the operator.	
	Results: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
USS	Click or tap here to enter text.	

**Step 12. For each of the following information types (Steps 12a-12h):**

- iii. Identify the authoritative data source, and
- iv. How frequently your system retrieves the data.

Test Step	Test Procedure			Rule(s)
Step 12a.	Military Training Routes (MTRs)			[5.2.1a] [5.2.1h]
	Results:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail	<input type="checkbox"/> N/A
Test Actor	Test Notes:			
USS	Click or tap here to enter text.			

Test Step	Test Procedure		Rule(s)
Step 12b.	Recreational Flyer Fixed Sites		[5.2.1b]
	Results:	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	[5.2.1h]
Test Actor	Test Notes:		
USS	Click or tap here to enter text.		

Test Step	Test Procedure		Rule(s)
Step 12c.	Part 93 Special Air Traffic Rules (SATA)		[5.2.1c] [5.2.1h]
	Results:	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:		
USS	Click or tap here to enter text.		

Test Step	Test Procedure		Rule(s)
Step 12d.	National Parks		[5.2.1d]
	Results:	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:		
USS	Click or tap here to enter text.		



Test Step	Test Procedure		Rule(s)
Step 12e.	Bureau of Land Management Wilderness Areas		[5.2.1e]
	Results:	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:		
USS	Click or tap here to enter text.		

Test Step	Test Procedure		Rule(s)
Step 12f.	Fish and Wildlife Service Wilderness Areas		[5.2.1f]
	Results:	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:		
USS	Click or tap here to enter text.		

Test Step	Test Procedure		Rule(s)
Step 12g.	Forest Service Wilderness Areas		[5.2.1g]
	Results:	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:		
USS	Click or tap here to enter text.		

Test Step	Test Procedure		Rule(s)
Step 12h.	FAA-Recognized Identification Areas (FRIAs)		[5.2.1h]
	Results:	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:		
USS	Click or tap here to enter text.		

Test Step	Test Procedure	Rule(s)
Step 13.	In the event of protracted unavailability of the FAA's LAANC system lasting more than 4 hours, or at the direction of the FAA, B4UFLY USSs must make the prescribed statement in [5.3ab] available to users in a manner appropriate to its application design.	[5.3ab]
	Provide a screenshot of the statement presented to the operator.	
	Results: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
USS	Click or tap here to enter text.	

Test Step	Test Procedure		Rule(s)
Step 14.	The USSs must provide a data report as a CSV file once per month to the FAA. The monthly data submitted to the FAA must only contain all required data points to include the latitude, longitude, and timestamp of each pin drop.		[5.4a]
	Provide a sample or screenshot of the data report.		
	Results:	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:		
USS	Click or tap here to enter text.		

Scenario #2  
Washington D.C SFRA, FRZ, & Flight Restricted Airspace

Scenario Overview

- This scenario checks:
- DC SFRA & FRZ
  - NSUFR
  - Part 93 Special Air Traffic Rules

- Prohibited Areas
  - National Security Areas/Military Bases

Test Steps

**WASHINGTON D.C. SFRA:** The area of the test operation is within the Washington D.C. SFRA near Leesburg, VA.



Figure 17: B4UFLY Scenario #32 | Washington D.C. SFRA | Leesburg, VA

Test Step	Test Procedure			Rule(s)
Step 1.	Drop a pin over Leesburg, VA, within the boundary of the Washington D.C. SFRA.			[5.3f]
	Results:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail	
Test Actor	Test Notes:			
Operator/ USS	Click or tap here to enter text.			

Test Step	Test Procedure	Rule(s)
Step 2.	Demonstrate how your application will display the required Notice Type, Notice Text, and Notice References/Links.	[5.3f] [5.3s] [5.3t] [5.3v]
	<b>Facilitator:</b> Verify that the correct Notice Type, Notice Text, and Notice References/Links are returned.	
	<b>Expected Results:</b> <ul style="list-style-type: none"><li>• <b>Notice Type:</b> Caution: Special Flight Rules Area (Yellow Alert Icon)</li><li>• <b>Notice Text:</b> Flying a drone for recreational or non-recreational use between 15 and 30 miles from Washington, D.C. is allowed under specific operating conditions. Individuals violating any of these restrictions may be subject to FAA or law enforcement action.</li><li>• <b>Reference/Link:</b> Link to DC Area Prohibited &amp; Restricted Airspace Notice: <a href="https://www.faa.gov/uas/resources/community_engagement/no_drone_zone/dc">https://www.faa.gov/uas/resources/community_engagement/no_drone_zone/dc</a></li></ul> <b>Alerts:</b> <ul style="list-style-type: none"><li>• DC SFRA</li><li>• Leesburg Exec Airport (KJYO) (<i>If the pin is dropped within a 2NM radius</i>)</li></ul>	
	<b>Results:</b>	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A
Test Actor	Test Notes:	
Operator/ USS	Click or tap here to enter text.	

**WASHINGTON D.C. FRZ:** The area of the test operation is within the Washington D.C. FRZ near National Harbor, MD.

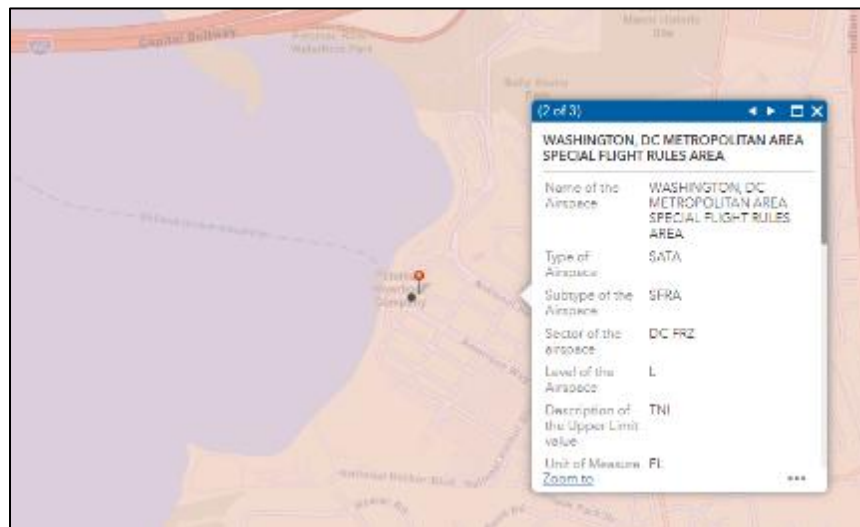


Figure 18: B4UFLY Scenario #2 | Washington D.C. FRZ | National Harbor, MD

Test Step	Test Procedure		Rule(s)
Step 3.	Drop a pin over National Harbor, MD, within the boundary of the Washington D.C. FRZ.		[5.3b]
	Results:	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:		
Operator/ USS	Click or tap here to enter text.		

Test Step	Test Procedure	Rule(s)
Step 4.	Demonstrate how your application will display the required Notice Type, Notice Text, and Notice References/Links.	[5.3b] [5.3s] [5.3t] [5.3v] [5.3w]
	<b>Facilitator:</b> Verify the correct Notice Type, Notice Text, and Notice References/Links are returned  <b>Expected Results:</b> <ul style="list-style-type: none"><li><b>Notice Type:</b> Warning: Flight Restricted Airspace (Red Alert Icon)</li><li><b>Notice Text:</b> No person may operate a small unmanned aircraft in restricted airspace unless that person has permission from the appropriate authority.  Individuals violating any of these restrictions may be subject to FAA and/or law enforcement action.</li><li><b>Reference/Link:</b> Confirm link to the applicable authoritative source. Confirm there are no links to LAANC or FAADroneZone.</li></ul> <b>Alerts:</b> <ul style="list-style-type: none"><li>DC FRZ</li><li>DC SFRA</li><li>DCA Class B Airspace</li><li>National Parks (GW Parkway, National Capital Parks)</li><li>Heliport (National Harbor)</li></ul>	
	<b>Results:</b>	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A
Test Actor	Test Notes:	
Operator/ USS	Click or tap here to enter text.	

**NSUFR:** The area of the test operation is on Liberty Island near the Statue of Liberty in New York, NY. The test operation is within the Hudson River Exclusion.



Figure 19: B4UFLY Scenario #2 | Statue of Liberty | New York, NY

Test Step	Test Procedure		Rule(s)
Step 5.	Drop a pin on Liberty Island near the Statue of Liberty in New York, NY.		[5.3b]
	Results:	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:		
Operator/ USS	Click or tap here to enter text.		

Test Step	Test Procedure	Rule(s)
Step 6.	Demonstrate how your application will display the required Notice Type, Notice Text, and Notice References/Links.	[5.3b] [5.3s] [5.3t] [5.3v] [5.3w]
	<b>Facilitator:</b> Verify the correct Notice Type, Notice Text, and Notice References/Links are returned.	
	<b>Expected Results:</b> <ul style="list-style-type: none"> <li><b>Notice Type:</b> Warning: Flight Restricted Airspace (Red Alert Icon)</li> <li><b>Notice Text:</b> No person may operate a small unmanned aircraft in restricted airspace unless that person has permission from the appropriate authority.  Individuals violating any of these restrictions may be subject to FAA and/or law enforcement action.</li> <li><b>Reference/Link:</b> Confirm link to the applicable authoritative source. Confirm there are no links to LAANC or FAADroneZone.</li> </ul>	
	<b>Alerts:</b> <ul style="list-style-type: none"> <li>DOI NSUFR (Statue of Liberty)</li> <li>NY Class B Airspace Hudson &amp; East River Exclusion SFRA</li> <li>National Parks/Monuments</li> <li>Heliports</li> </ul>	
	<b>Results:</b> <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
<b>Test Actor</b>	<b>Test Notes:</b>	
Operator/ USS	Click or tap here to enter text.	

**PART 93 SPECIAL AIR TRAFFIC RULES:** The area of the test operation is near Taku Lake Park in Anchorage, AK.



Figure 20: B4UFLY Scenario #2 | Taku Lake Park | Anchorage, AK

Test Step	Test Procedure			Rule(s)
Step 7.	Drop a pin on Liberty Island near Taku Lake Park in Anchorage, AK.			[5.3e]
	Results:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail	
Test Actor	Test Notes:			
Operator/ USS	Click or tap here to enter text.			

Test Step	Test Procedure	Rule(s)
Step 8.	Demonstrate how your application will display the required Notice Type, Notice Text, and Notice References/Links.	[5.3e] [5.3v] [5.3w]
	<b>Facilitator:</b> Verify the correct Notice Type, Notice Text, and Notice References/Links are returned.	
	<b>Expected Results:</b> <ul style="list-style-type: none"> <li><b>Notice Type:</b> Warning: Flight Restricted Airspace (Red Alert Icon)</li> <li><b>Notice Text:</b> No person may operate a small unmanned aircraft in restricted airspace unless that person has permission from the appropriate authority. Individuals violating any of these restrictions may be subject to FAA and/or law enforcement action.</li> <li><b>Reference/Link:</b> Include NAME and SECTOR from authoritative source. Confirm LAANC is available.</li> </ul>	
	<b>Alerts:</b> <ul style="list-style-type: none"> <li>Anchorage Special Air Traffic Rules Area (International Segment)</li> <li>Anchorage UASFM</li> <li>Anchorage Class C Airspace</li> </ul>	
	Results: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
Operator/ USS	Click or tap here to enter text.	

**PROHIBITED AREA:** The area of the test operation is Kennebunkport, ME. This operation is encompassed by prohibited airspace, P-67.

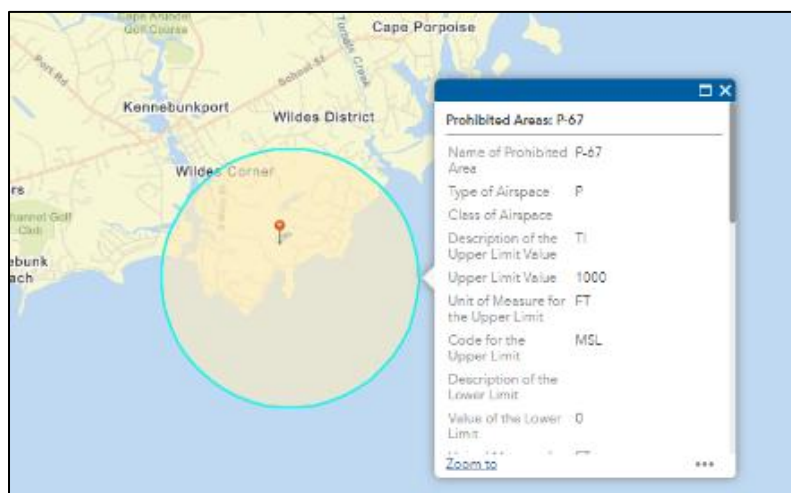


Figure 21: B4UFLY Scenario #2 | SUA: P-67 | Kennebunkport, ME

Test Step	Test Procedure			Rule(s)
Step 9.	Drop a pin within SUA: P-67 near Kennebunkport, ME.			[5.3b]
	Results:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail	
Test Actor	Test Notes:			
Operator/ USS	Click or tap here to enter text.			

Test Step	Test Procedure	Rule(s)
Step 10.	Demonstrate how your application will display the required Notice Type, Notice Text, and Notice References/Links.	[5.3b] [5.3s]
	<b>Facilitator:</b> Verify the correct Notice Type, Notice Text, and Notice References/Links are returned.	
	<b>Expected Results:</b> <ul style="list-style-type: none"> <li><b>Notice Type:</b> Warning: Flight Restricted Airspace (Red Alert Icon)</li> <li><b>Notice Text:</b> No person may operate a small unmanned aircraft in restricted airspace unless that person has permission from the appropriate authority. Individuals violating any of these restrictions may be subject to FAA and/or law enforcement action.</li> <li><b>Reference/Link:</b> Confirm link to the applicable authoritative source. Confirm there are no links to LAANC or FAADroneZone.</li> </ul>	
	<b>Alerts:</b> <ul style="list-style-type: none"> <li>P-67 Special Use Airspace/Prohibited Area</li> </ul>	
	Results: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
Operator/ USS	Click or tap here to enter text.	

**NATIONAL SECURITY AREA/MILITARY BASE:** The area of the test operation is Luke Air Force Base in Glendale, AZ.

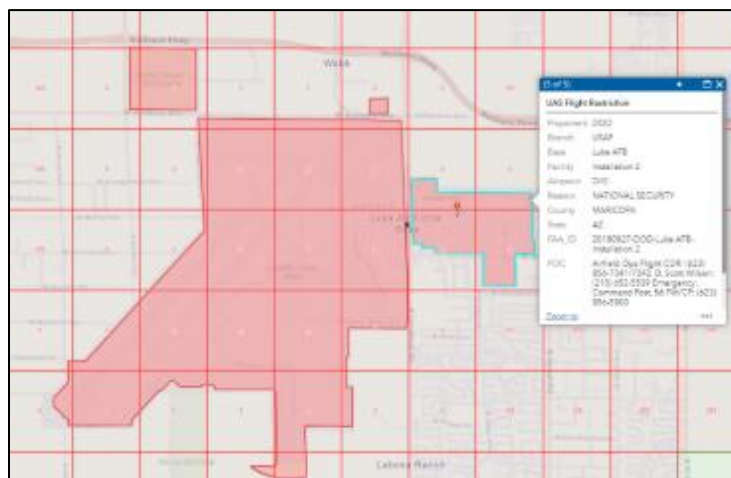


Figure 22: B4UFLY Scenario #2 | Luke Air Force Base | Glendale, AZ



Test Step	Test Procedure		Rule(s)
Step 11.	Drop a pin within the Luke Air Force Base NSUFR near Glendale, AZ.		[5.3b]
	Results:	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:		
Operator/ USS	Click or tap here to enter text.		

Test Step	Test Procedure	Rule(s)
Step 12.	Demonstrate how your application will display the required Notice Type, Notice Text, and Notice References/Links.	[5.3b] [5.3v] [5.3w]
	<b>Facilitator:</b> Verify the correct Notice Type, Notice Text, and Notice References/Links are returned.	
	<b>Expected Results:</b> <ul style="list-style-type: none"> <li><b>Notice Type:</b> Warning: Flight Restricted Airspace (Red Alert Icon)</li> <li><b>Notice Text:</b> No person may operate a small unmanned aircraft in restricted airspace unless that person has permission from the appropriate authority. Individuals violating any of these restrictions may be subject to FAA and/or law enforcement action.</li> <li><b>Reference/Link:</b> Confirm link to the applicable authoritative source. Confirm there are no links to LAANC or FAADroneZone. Include Military POC from authoritative source.</li> </ul>	
	<b>Alerts:</b> <ul style="list-style-type: none"> <li>DOD NSUFRs (Luke AFB)</li> <li>Luke AFB Class D Airspace/UASFM</li> <li>Luke AFB Airport (KLUF)</li> <li>Stadium</li> </ul>	
	<b>Results:</b> <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
<b>Test Actor</b>	<b>Test Notes:</b>	
FAA: Tester	Click or tap here to enter text.	

## Scenario #3

### TFRs, Sporting Event TFRs, & Restricted Areas

#### Scenario Overview

This scenario checks:

- Temporary Flight Restrictions (TFRs)
- Sporting Event TFRs
- Processing Active Times (TFR/SUA)
- Restricted Areas (SUA)

#### Test Steps

**TFR NOTAMS:** TFRs are issued for special events, VIP movement, and security/emergency response. The exact location or issuance is generally not known more than a few days or hours in advance.

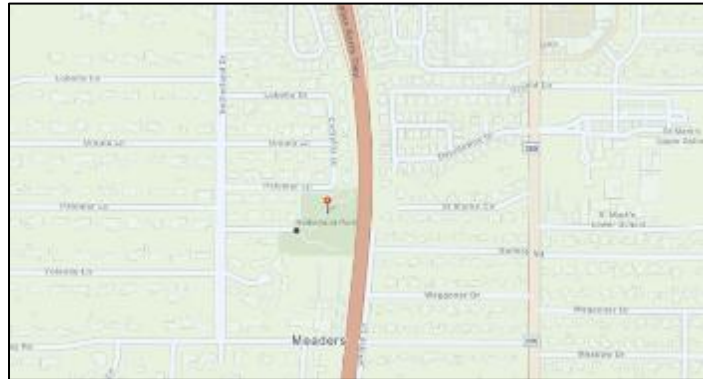
#### SCHEDULED TFR:

Test Step	Test Procedure
Step 1.	The FAA Test Team will select a scheduled TFR from an official source ( <a href="https://tfr.faa.gov">https://tfr.faa.gov</a> ).
Test Actor	Test Notes:
FAA: Tester	Click or tap here to enter text.

Test Step	Test Procedure	Rule(s)
Step 2.	Drop a pin within the identified TFR.	[5.3g]
	Results: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
Operator/ USS	Click or tap here to enter text.	

Test Step	Test Procedure	Rule(s)
Step 3.	Demonstrate how your application will display the required Notice Type, Notice Text, and Notice References/Links.	[5.3g] [5.3s] [5.3t]
	<b>Facilitator:</b> Verify the correct Notice Type, Notice Text, and Notice References/Links are returned.	[5.3v] [5.3w] [5.3y] [5.3aa]
	<b>Expected Results:</b> <ul style="list-style-type: none"> <li><b>Notice Type:</b> Caution: Flight Restricted Airspace (Yellow Alert Icon) <i>If USS does not process active times - Warning: Flight Restricted Airspace (Red Alert Icon)</i></li> <li><b>Notice Text:</b> No person may operate a small unmanned aircraft in restricted airspace unless that person has permission from the appropriate authority.  Individuals violating any of these restrictions may be subject to FAA and/or law enforcement action.</li> <li><b>Reference/Link:</b> Confirm link to the applicable authoritative source.</li> </ul>	
	Results: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
FAA: Tester	Click or tap here to enter text.	

**ACTIVE TFR:** The area of the test operation is Netherland Park in Dallas, TX. This operation is within FDC 9/2934.



**Figure 23: B4UFLY Scenario #3 | Netherland Park | Dallas, TX**

Test Step	Test Procedure			Rule(s)
Step 4.	Drop a pin within Netherland Park in Dallas, TX			[5.3c]
	Results:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail	
Test Actor	Test Notes:			
Operator/ USS	Click or tap here to enter text.			

Test Step	Test Procedure			Rule(s)
Step 5.	Demonstrate how your application will display the required Notice Type, Notice Text, and Notice References/Links.			[5.3c] [5.3s] [5.3u]
	<b>Facilitator:</b> Verify the correct Notice Type, Notice Text, and Notice References/Links are returned.			[5.3v] [5.3x] [5.3z] [5.3aa]
	<b>Expected Results:</b> <ul style="list-style-type: none"><li><b>Notice Type:</b> Warning: Flight Restricted Airspace (Red Alert Icon)</li><li><b>Notice Text:</b> No person may operate a small unmanned aircraft in restricted airspace unless that person has permission from the appropriate authority.  Individuals violating any of these restrictions may be subject to FAA or law enforcement action.</li><li><b>Reference/Link:</b> Confirm link to the applicable authoritative source. Confirm LAANC is enabled (DFW UASFM)</li></ul> <b>Alerts:</b> <ul style="list-style-type: none"><li>FDC 9/2934 Presidential</li><li>UAS Facility Map (DFW)</li><li>Dallas Class B Airspace</li><li>Heliport(s)</li><li>Stadium</li></ul>			
	<b>Results:</b>	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail	<input type="checkbox"/> N/A
Test Actor	Test Notes:			
FAA: Tester	Click or tap here to enter text.			

**SPORTING EVENT TFR:** The Sporting Event Automated Monitoring System (SEAMS) provides near-real-time Stadium TFR data.

Test Step	Test Procedure
Step 6.	The FAA Test Team will select a Sporting Event TFR from the SEAMS dataset.
<b>Test Actor</b>	<b>Test Notes:</b>
FAA: Tester	Click or tap here to enter text.

Test Step	Test Procedure
Step 7.	Drop a pin within the identified Sporting Event TFR.
<b>Test Actor</b>	<b>Test Notes:</b>
Operator	Click or tap here to enter text.

Test Step	Test Procedure	Rule(s)
Step 8.	<p>Demonstrate how your application will display the required Notice Type, Notice Text, and Notice References/Links.</p> <p><b>Facilitator:</b> Verify the correct Notice Type, Notice Text, and Notice References/Links are returned.</p> <p><b>Expected Results:</b></p> <ul style="list-style-type: none"> <li>• <b>Notice Type:</b> Warning: Flight Restricted Airspace (Red Alert Icon) for an active event or Caution: Flight Restricted Airspace (Yellow Alert Icon) for a scheduled event</li> <li>• <b>Notice Text:</b> <ol style="list-style-type: none"> <li>(1) Active Event: Flight operations within 3NM of an FAA-designated stadium or sporting venue are restricted at this time, please check SEAMS for information regarding when this restriction will be lifted.</li> <li>(2) Scheduled Event: Flight operations within 3NM of an FAA-designated stadium or sporting venue are restricted from 1 hour before the planned start time until 1 hour after the end of any qualifying event. Check the stadium schedule found on SEAMS prior to any flight operations.</li> </ol> </li> <li>• <b>Reference/Link:</b> Confirm link to the applicable authoritative source (SEAMS) and confirm link to: <a href="https://www.faa.gov/uas/resources/community_engagement/no_drone_zone/stadiums">https://www.faa.gov/uas/resources/community_engagement/no_drone_zone/stadiums</a></li> </ul>	[5.3d] [5.3h]
	<b>Results:</b> <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
<b>Test Actor</b>	<b>Test Notes:</b>	
USS	Click or tap here to enter text.	

**RESTRICTED AREA:** The area of the test operation is Oliver Beach, MD. This operation is under the MTN UASFM and is encompassed by restricted airspace, R-4001A.

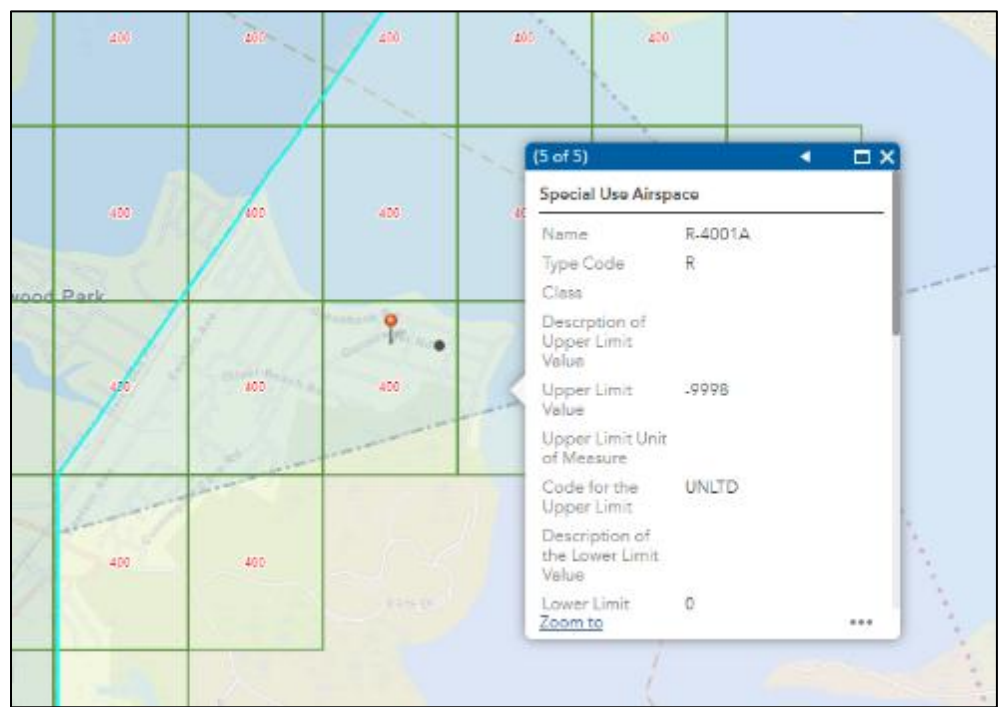


Figure 24: B4UFLY Scenario #3 | SUA: R-4001A | Oliver Beach, MD

Test Step	Test Procedure			Rule(s)
Step 9.	Drop a pin within SUA: R-4001A near Oliver Beach, MD.			[5.3c]
	Results:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail	
Test Actor	Test Notes:			
Operator/ USS	Click or tap here to enter text.			

Test Step	Test Procedure	Rule(s)
Step 10.	Demonstrate how your application will display the required Notice Type, Notice Text, and Notice References/Links.	[5.3c] [5.3u] [5.3v] [5.3x] [5.3z] [5.3aa]
	<p><b>Facilitator:</b> Verify the correct Notice Type, Notice Text, and Notice References/Links are returned.</p> <p><b>Expected Results:</b></p> <ul style="list-style-type: none"> <li><b>Notice Type:</b> Warning: Flight Restricted Airspace (Red Alert Icon)</li> </ul> <p><b>Notice Text:</b> No person may operate a small unmanned aircraft in restricted airspace unless that person has permission from the appropriate authority.</p> <p>Individuals violating any of these restrictions may be subject to FAA and/or law enforcement action.</p> <ul style="list-style-type: none"> <li><b>Reference/Link:</b> Confirm link to the applicable authoritative source. Confirm LAANC is enabled (MTN UASFM)</li> </ul> <p>Note: If USS blocks for LAANC all the time then a link to LAANC is not required.</p> <p><b>Alerts:</b></p> <ul style="list-style-type: none"> <li>R-4001A (4001B/C if pin dropped within 2NM radius)</li> <li>MTN UAS Facility Map</li> <li>Baltimore Class D Airspace</li> <li>DOD NSUFRs (Aberdeen Proving Ground)</li> <li>Fixed Flyer Site</li> </ul>	
	<p><b>Results:</b></p> <p><input type="checkbox"/> Pass      <input type="checkbox"/> Fail      <input type="checkbox"/> N/A</p>	
<b>Test Actor</b>	<b>Test Notes:</b>	
FAA: Tester	Click or tap here to enter text.	

Scenario #4  
Special Use Airspace (MOA, MTR, Warning Areas, Alert Areas)

Scenario Overview

This scenario checks:

- Alert Areas
  - Military Training Routes (MTR)
- Military Operations Areas (MOA)
  - Warning Areas

Test Steps

**ALERT AREA:** The area of the test operation is Andalusia Country Club in Andalusia, AL.

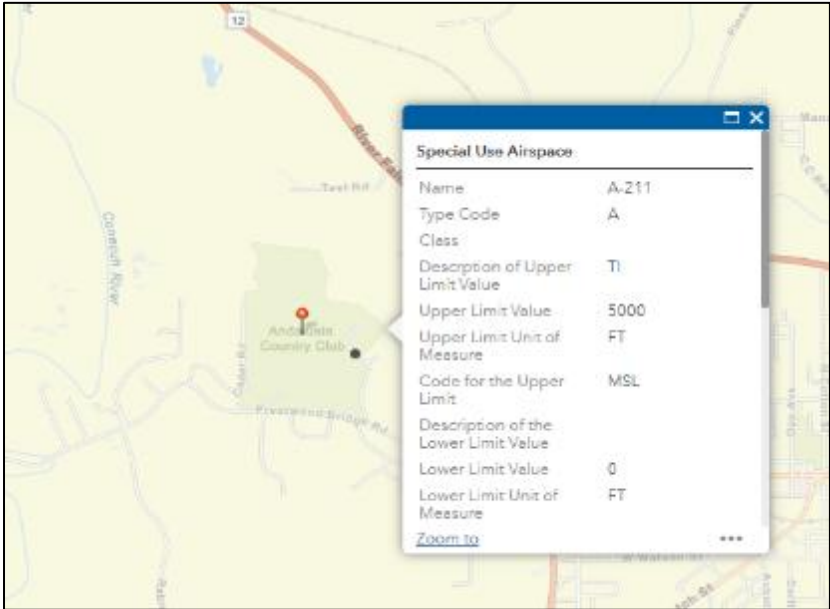
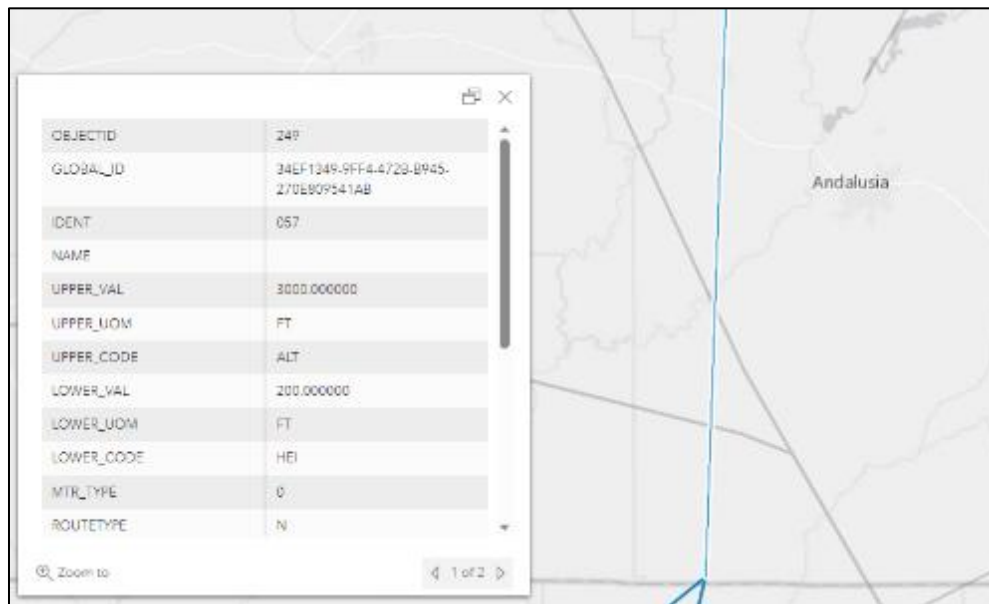


Figure 25: B4UFLY Scenario #54 | Andalusia Country Club | Andalusia, AL

Test Step	Test Procedure			Rule(s)
Step 1.	Drop a pin within Andalusia Country Club in Andalusia, AL			[5.3j]
	Results:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail	
Test Actor	Test Notes:			
Operator/ USS	Click or tap here to enter text.			

Test Step	Test Procedure	Rule(s)
Step 2.	Demonstrate how your application will display the required Notice Type, Notice Text, and Notice References/Links.	[5.3j] [5.3s] [5.3w]
	<b>Facilitator:</b> Verify the correct Notice Type, Notice Text, and Notice References/Links are returned.	
	<b>Expected Results:</b> <ul style="list-style-type: none"><li><b>Notice Type:</b> Caution: Special Use Airspace (Yellow Alert Icon)</li><li><b>Notice Text:</b> This airspace may contain more air traffic or fast military aircraft. Maintain extra vigilance and awareness when flying.  Prior to flight, the remote pilot in command must assess local airspace and any flight restrictions.</li><li><b>Reference/Link:</b> Confirm link to the applicable authoritative source.</li></ul> <b>Alerts:</b> <ul style="list-style-type: none"><li>A-211</li></ul>	
	<b>Results:</b> <div><input type="checkbox"/> Pass<input type="checkbox"/> Fail<input type="checkbox"/> N/A</div>	
Test Actor	Test Notes:	
FAA: Tester	Click or tap here to enter text.	

**MTR:** The area of the test operation is over IR57 west of Andalusia, AL.



**Figure 26: B4UFLY Scenario #54 | MTR (IR57) | Andalusia, AL**

Test Step	Test Procedure		Rule(s)
Step 3.	Drop a pin on IR57 west of Andalusia, AL. Coordinates: 31°18'51"N / 86°37'14"W		[5.3j]
	Results:	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:		
Operator/ USS	Click or tap here to enter text.		



Test Step	Test Procedure	Rule(s)
Step 4.	Demonstrate how your application will display the required Notice Type, Notice Text, and Notice References/Links.	[5.3j] [5.3s] [5.3w]
	<b>Facilitator:</b> Verify the correct Notice Type, Notice Text, and Notice References/Links are returned.	
	<b>Expected Results:</b> <ul style="list-style-type: none"><li><b>Notice Type:</b> Caution: Special Use Airspace (Yellow Alert Icon)</li><li><b>Notice Text:</b> This airspace may contain more air traffic or fast military aircraft. Maintain extra vigilance and awareness when flying.  Prior to flight, the remote pilot in command must assess local airspace and any flight restrictions.</li><li><b>Reference/Link:</b> Confirm link to the applicable authoritative source.</li></ul> <b>Alerts:</b> <ul style="list-style-type: none"><li>IR57</li></ul>	
	<b>Results:</b> <div><input type="checkbox"/> Pass<input type="checkbox"/> Fail<input type="checkbox"/> N/A</div>	
Test Actor	Test Notes:	
FAA: Tester	Click or tap here to enter text.	

**MOA:** The area of the test operation is in Port St. Joe, FL

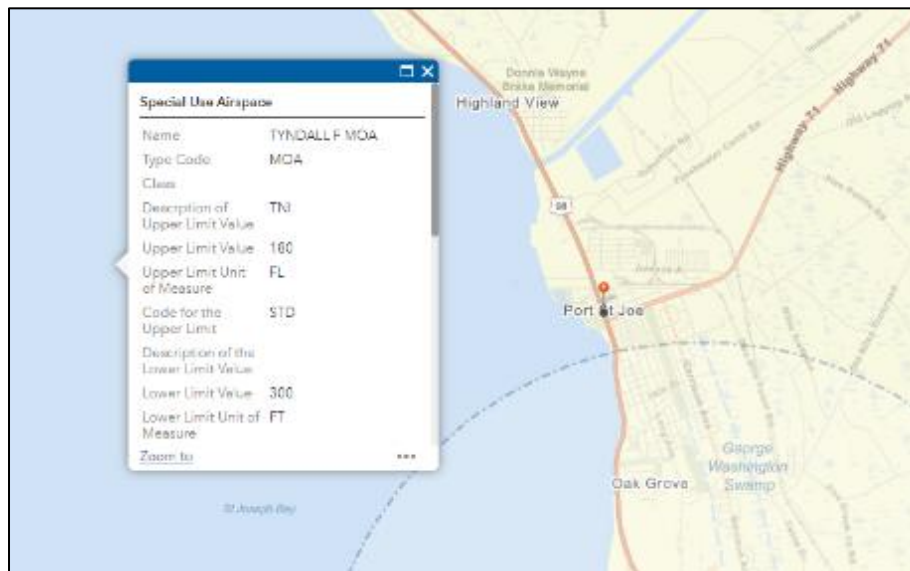


Figure 27: B4UFLY Scenario #54 | Tyndall F MOA | Port St. Joe, FL

Test Step	Test Procedure		Rule(s)
Step 5.	Drop a pin over Port St. Joe, FL.		[5.3j]
	Results:	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:		
Operator/ USS	Click or tap here to enter text.		

Test Step	Test Procedure	Rule(s)
Step 6.	Demonstrate how your application will display the required Notice Type, Notice Text, and Notice References/Links.	[5.3j] [5.3s] [5.3w]
	<b>Facilitator:</b> Verify the correct Notice Type, Notice Text, and Notice References/Links are returned.  <b>Expected Results:</b> <ul style="list-style-type: none"><li><b>Notice Type:</b> Caution: Special Use Airspace (Yellow Alert Icon)</li><li><b>Notice Text:</b> This airspace may contain more air traffic or fast military aircraft. Maintain extra vigilance and awareness when flying.  Prior to flight, the remote pilot in command must assess local airspace and any flight restrictions.</li><li><b>Reference/Link:</b> Confirm link to the applicable authoritative source.</li></ul> <b>Alerts:</b> <ul style="list-style-type: none"><li>Tyndall F MOA</li><li>Alert Areas</li></ul>	
	<b>Results:</b>	
<b>Test Actor</b>	<b>Test Notes:</b>	
FAA: Tester	Click or tap here to enter text.	

**WARNING AREA:** The test operation area is offshore from Port St. Joe, FL, within W-151B.

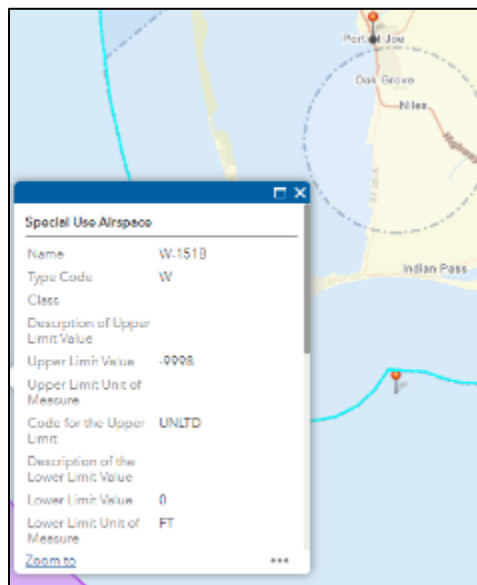


Figure 28: B4UFLY Scenario #54 | W-151B | Offshore Port St. Joe, FL

Test Step	Test Procedure			Rule(s)
Step 7.	Drop a pin offshore from Port St. Joe, FL, within W-151B.			[5.3j]
	Results:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail	
Test Actor	Test Notes:			
Operator/ USS	Click or tap here to enter text.			

Test Step	Test Procedure			Rule(s)
Step 8.	Demonstrate how your application will display the required Notice Type, Notice Text, and Notice References/Links.			[5.3j] [5.3s] [5.3w]
	<b>Facilitator:</b> Verify the correct Notice Type, Notice Text, and Notice References/Links are returned.			
	<b>Expected Results:</b> <ul style="list-style-type: none"><li><b>Notice Type:</b> Caution: Special Use Airspace (Yellow Alert Icon)</li><li><b>Notice Text:</b> This airspace may contain more air traffic or fast military aircraft. Maintain extra vigilance and awareness when flying.  Prior to flight, the remote pilot in command must assess local airspace and any flight restrictions.</li><li><b>Reference/Link:</b> Confirm link to the applicable authoritative source.</li></ul> <b>Alerts:</b> <ul style="list-style-type: none"><li>W-151B</li></ul>			
	<b>Results:</b>	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail	
Test Actor	Test Notes:			
FAA: Tester	Click or tap here to enter text.			

Scenario #5  
National Parks, UASFM Processing, & Airspace Schedule

Scenario Overview

This scenario checks:

- National Parks
  - National Parks with LAANC Enabled Class B, C, D, or E SFC
  - Wilderness Areas
- UASFM Airspace Schedule
  - Display UASFM maximum allowable altitudes
  - Controlled airspace without a LAANC enabled UASFM

Test Steps

NATIONAL PARKS

The area of the test operations is near Old Faithful in Yellowstone National Park, WY.



Figure 29: B4UFLY Scenario #65 | Old Faithful | Yellowstone National Park, WY

Test Step	Test Procedure			Rule(s)
Step 1.	Drop a pin near Old Faithful in Yellowstone National Park, WY.			[5.3!]
	Results:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail	
Test Actor	Test Notes:			
Operator	Click or tap here to enter text.			

Test Step	Test Procedure	Rule(s)
Step 2.	Demonstrate how your application will display the required Notice Type, Notice Text, and Notice References/Links.	[5.3i] [5.3s]
	<b>Facilitator:</b> Verify the correct Notice Type, Notice Text, and Notice References/Links are returned.	
	<b>Expected Results:</b> <ul style="list-style-type: none"> <li><b>Notice Type:</b> Caution: National Park (Yellow Alert Icon)</li> <li><b>Notice Text:</b> Check with the National Park Service prior to flight. Prior to flight, the remote pilot in command must assess the local airspace along with any other takeoff, landing, and flight restrictions.</li> </ul> <b>Reference/Link:</b> Link to National Parks <a href="https://www.nps.gov/orgs/aviationprogram/upload/unmanned-aircraft-in-national-parks.pdf">https://www.nps.gov/orgs/aviationprogram/upload/unmanned-aircraft-in-national-parks.pdf</a>	
	<b>Alerts:</b> <ul style="list-style-type: none"> <li>Yellowstone National Park</li> </ul>	
	<b>Results:</b> <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
<b>Test Actor</b>	<b>Test Notes:</b>	
FAA: Tester	Click or tap here to enter text.	

**NATIONAL PARKS WITH LAANC ENABLED CLASS B, C, D, OR E SFC:** The area of the test operations is in the Gros Ventre Campground near Jackson Hole and Kelly, WY. The test operation is under the JAC UASFM and within Grand Teton National Park.



Figure 30: B4UFLY Scenario #65 | Gros Ventre Campground | Kelly, WY

Test Step	Test Procedure	Rule(s)
Step 3.	Drop a pin within the Gros Ventre Campground in Kelly, WY.	[5.3i] [5.3i]
	<b>Results:</b> <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
<b>Test Actor</b>	<b>Test Notes:</b>	
Operator	Click or tap here to enter text.	

Test Step	Test Procedure	Rule(s)
Step 4.	Demonstrate how your application will display the required Notice Type, Notice Text, and Notice References/Links.	[5.3i] [5.3j] [5.3s] [5.3v] [5.3w] [5.3z]
	<b>Facilitator:</b> Verify the correct Notice Type, Notice Text, and Notice References/Links are returned.  <b>Expected Results:</b> <ul style="list-style-type: none"> <li><b>Notice Type:</b> Caution: Controlled Airspace (Yellow Alert Icon)</li> <li><b>Notice Text:</b> You must have an airspace authorization from the FAA. Use LAANC.</li> </ul> <p>Prior to flight, the remote pilot in command must assess local airspace and any flight restrictions.</p> <ul style="list-style-type: none"> <li><b>Reference/Link:</b> Confirm LAANC is enabled. Link to National Park: <a href="https://www.nps.gov/orgs/aviationprogram/upload/unmanned-aircraft-in-national-parks.pdf">https://www.nps.gov/orgs/aviationprogram/upload/unmanned-aircraft-in-national-parks.pdf</a></li> </ul> <b>Alerts:</b> <ul style="list-style-type: none"> <li>Grand Teton National Park</li> <li>UAS Facility Map</li> <li>Jackson Class D (Airspace Schedule)</li> </ul>	
	<b>Results:</b> <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
<b>Test Actor</b>	<b>Test Notes:</b>	
FAA: Tester	Click or tap here to enter text.	

### WILDERNESS AREAS - BUREAU OF LAND MANAGEMENT

The area of the test operation is in Desolation Canyon Wilderness near Green River, UT.

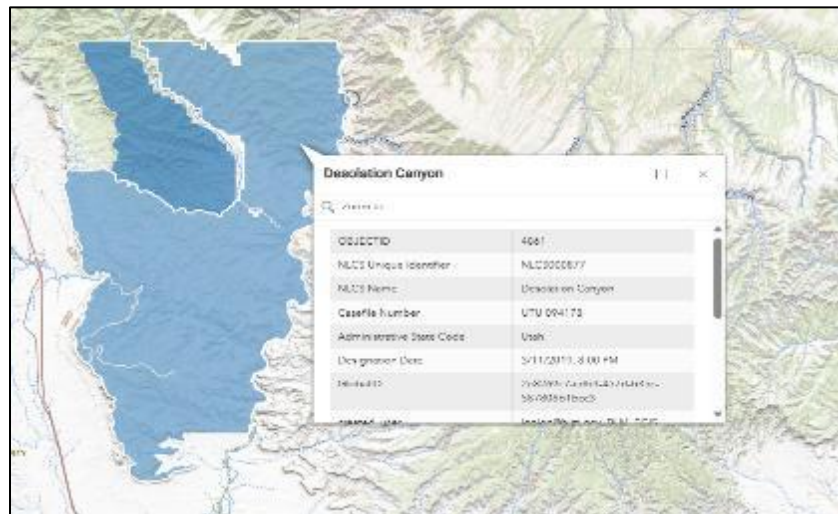


Figure 31: B4UFLY Scenario #5 | Desolation Canyon Wilderness | Green River, UT

Test Step	Test Procedure		Rule(s)
Step 5.	Drop a pin in Desolation Canyon Wilderness Area.		[5.3m]
	Results:	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:		
Operator	Click or tap here to enter text.		

Test Step	Test Procedure	Rule(s)
Step 6.	Demonstrate how your application will display the required Notice Type, Notice Text, and Notice References/Links.	[5.3m]
	<b>Facilitator:</b> Verify the correct Notice Type, Notice Text, and Notice References/Links are returned.	
	<b>Expected Results:</b> <ul style="list-style-type: none"> <li><b>Notice Type:</b> Caution: Wilderness Area (Yellow Alert Icon)</li> <li><b>Notice Text:</b> Check with the Bureau of Land Management prior to flight. Prior to flight, the remote pilot in command must assess the local airspace along with any other takeoff, landing, and flight restrictions.</li> <li><b>Reference/Link:</b> Include NLCS name from authoritative source.</li> </ul>	
	<b>Alerts:</b> <ul style="list-style-type: none"> <li>Wilderness Area</li> </ul>	
	<b>Results:</b> <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
<b>Test Actor</b>	<b>Test Notes:</b>	
FAA: Tester	Click or tap here to enter text.	

### WILDERNESS AREAS – FISH AND WILDLIFE SERVICE

The area of the test operation is in Red Rock Lakes National Wildlife Refuge near Lima, MT.

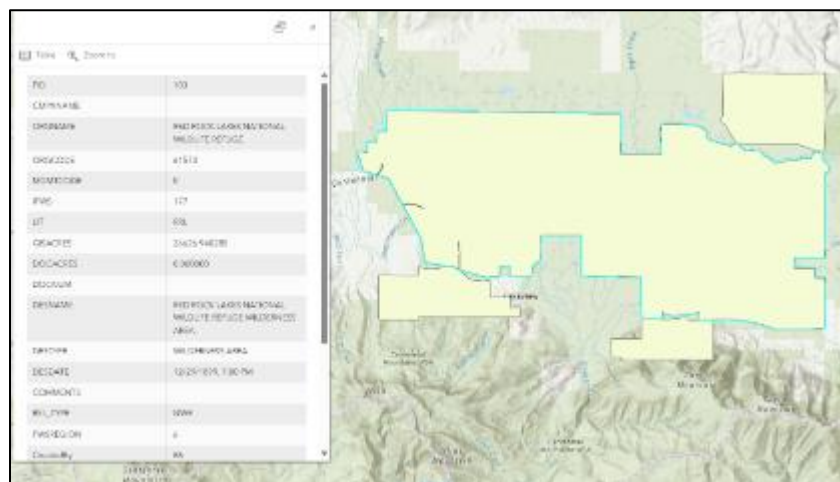


Figure 32: B4UFLY Scenario #5 | Red Rock Lakes National Wildlife Refuge | Lima, MT

Test Step	Test Procedure		Rule(s)
Step 7.	Drop a pin in Red Rock Lakes National Wildlife Refuge.		[5.3n]
	Results:	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:		
Operator	Click or tap here to enter text.		

Test Step	Test Procedure	Rule(s)
Step 8.	Demonstrate how your application will display the required Notice Type, Notice Text, and Notice References/Links.	[5.3n]
	<b>Facilitator:</b> Verify the correct Notice Type, Notice Text, and Notice References/Links are returned.	
	<b>Expected Results:</b> <ul style="list-style-type: none"> <li><b>Notice Type:</b> Caution: Wilderness Area (Yellow Alert Icon)</li> <li><b>Notice Text:</b> Check with the Fish and Wildlife Service prior to flight. Prior to flight, the remote pilot in command must assess the local airspace along with any other takeoff, landing, and flight restrictions.</li> <li><b>Reference/Link:</b> Include DESNAME from authoritative source.</li> </ul>	
	<b>Alerts:</b> <ul style="list-style-type: none"> <li>Wilderness Area</li> </ul>	
	<b>Results:</b> <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
<b>Test Actor</b>	<b>Test Notes:</b>	
FAA: Tester	Click or tap here to enter text.	

### WILDERNESS AREAS – FOREST SERVICE

The area of the test operation is Teton Wilderness in Teton County, WY.

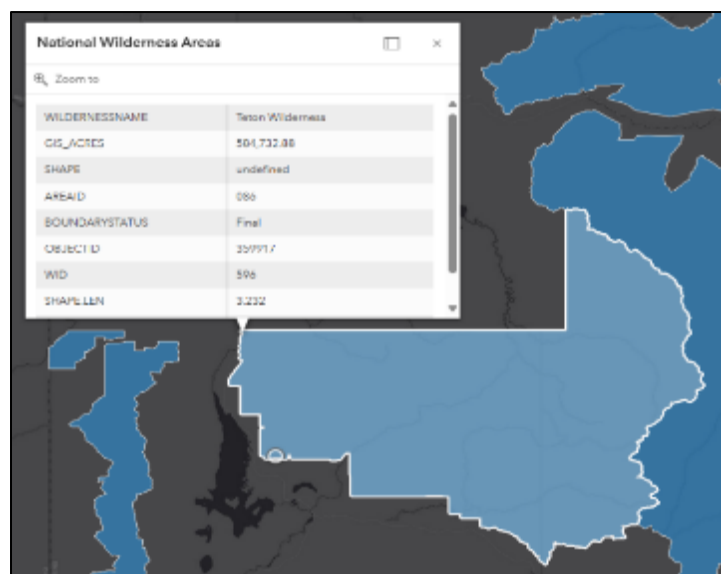


Figure 33: B4UFLY Scenario #5 | Teton Wilderness | Teton County, WY



Test Step	Test Procedure		Rule(s)
Step 9.	Drop a pin in the Teton Wilderness.		[5.3o]
	Results:	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:		
Operator	Click or tap here to enter text.		

Test Step	Test Procedure	Rule(s)
Step 10.	Demonstrate how your application will display the required Notice Type, Notice Text, and Notice References/Links.	[5.3p]
	<b>Facilitator:</b> Verify the correct Notice Type, Notice Text, and Notice References/Links are returned.	
	<b>Expected Results:</b> <ul style="list-style-type: none"><li><b>Notice Type:</b> Caution: Wilderness Area (Yellow Alert Icon)</li><li><b>Notice Text:</b> Check with the Forest Service prior to flight.  Prior to flight, the remote pilot in command must assess the local airspace along with any other takeoff, landing, and flight restrictions.</li></ul> <b>Reference/Link:</b> Include WILDERNESSNAME from authoritative source.	
	<b>Alerts:</b> <ul style="list-style-type: none"><li>Wilderness Area</li></ul>	
	<b>Results:</b>	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A
<b>Test Actor</b>	<b>Test Notes:</b>	
FAA: Tester	Click or tap here to enter text.	

#### UASFM PROCESSING AND AIRSPACE SCHEDULE:

The area of the test operation is River Ridge Golf Club in Oxnard, CA. The test operation is under the OXR UASFM.

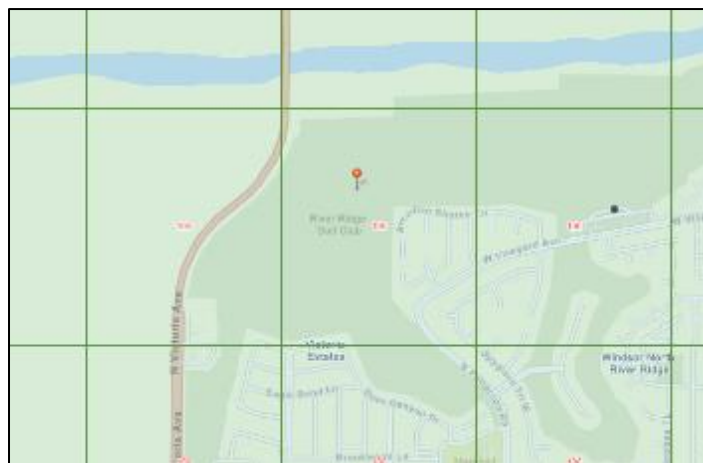


Figure 34: B4UFLY Scenario #65 | River Ridge Golf Club | Oxnard, CA

Test Step	Test Procedure			Rule(s)
Step 11.	Drop a pin within River Ridge Golf Club in Oxnard, CA			[5.3i]
	Results:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail	
Test Actor	Test Notes:			
Operator	Click or tap here to enter text.			

Test Step	Test Procedure			Rule(s)
Step 12.	Verify the B4UFLY USS displays the UASFM maximum allowable altitude.			[5.3u] [5.3v]
	Results:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail	<input type="checkbox"/> N/A
Test Actor	Test Notes:			
FAA: Tester	Click or tap here to enter text.			

Test Step	Test Procedure			Rule(s)
Step 13.	Verify the B4UFLY USS displays the OXR Class D Airspace Schedule.			[5.3z]
	Results:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail	
Test Actor	Test Notes:			
FAA: Tester	Click or tap here to enter text.			

**LAANC READY FLAG DISABLED:** The area of the test operation is Walker Park (and the St Joseph River) in Elkhart, IN. The test operation is under the EKM UASFM.

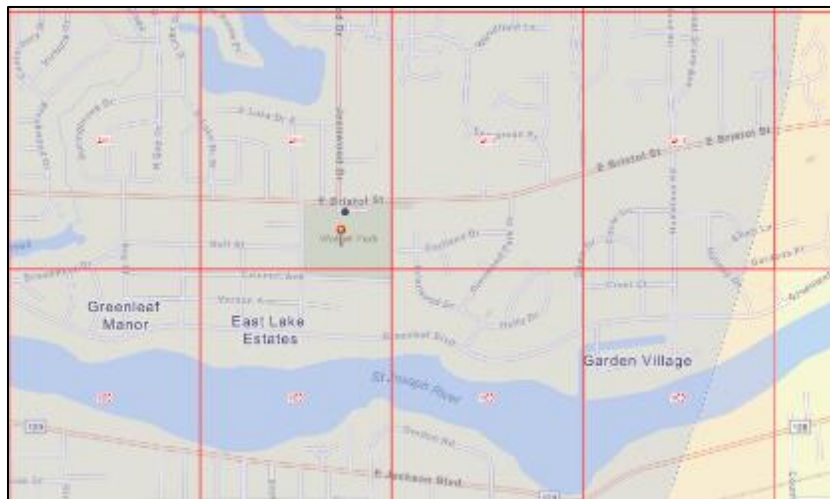


Figure 35: B4UFLY Scenario #5 | Walker Park | Elkhart, IN

Test Step	Test Procedure		Rule(s)
Step 14.	Drop a pin within Walker Park in Elkhart, IN.		[5.3k]
	Results:	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:		
USS	Click or tap here to enter text.		

Test Step	Test Procedure	Rule(s)
Step 15.	Demonstrate how your application will display the required Notice Type, Notice Text, and Notice References/Links.	[5.3k] [5.3v] [5.3w]
	<p><b>Facilitator:</b> Verify the correct Notice Type, Notice Text, and Notice References/Links are returned.</p> <p><b>Expected Results:</b></p> <ul style="list-style-type: none"><li>• <b>Notice Type:</b> Caution: Controlled Airspace (Yellow Alert Icon)</li><li>• <b>Notice Text:</b> You must have an airspace authorization from the FAA. LAANC is not presently available in this area, use FAADroneZone.</li></ul> <p>Prior to flight, the remote pilot in command must assess local airspace and any flight restrictions.</p> <ul style="list-style-type: none"><li>• <b>Reference/Link:</b> Go to FAADroneZone</li></ul> <p><b>Alerts:</b></p> <ul style="list-style-type: none"><li>• Elkhart Class D</li><li>• Seaport</li></ul>	
	<b>Results:</b>	
<b>Test Actor</b>	<b>Test Notes:</b>	
FAA: Tester	Click or tap here to enter text.	

Scenario #6  
Class G Airspace & Recreational Flyer Fixed Sites

Scenario Overview

- This scenario checks:
- Recreational Flyer Fixed Sites
  - FAA-Recognized Identification Areas (FRIAs)
  - Class G Airspace

Test Steps

RECREATIONAL FLYER FIXED SITES

The area of the test operation is the Frederick Model Aircraft Recreational Flyer Fixed Site under the FDK UASFM.



Figure 36: B4UFLY Scenario #76 | Frederick Model Aircraft Club | Frederick, MD

Test Step	Test Procedure			Rule(s)
Step 1.	Drop a pin within the Frederick Model Aircraft Club Recreational Flyer Fixed Site in Frederick, MD.			[5.3q]
	Results:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail	
Test Actor	Test Notes:			
USS	Click or tap here to enter text.			

Test Step	Test Procedure	Rule(s)
Step 2.	Demonstrate how your application will display the required Notice Type, Notice Text, and Notice References/Links.	[5.3q] [5.3s] [5.3v] [5.3w]
	<p><b>Facilitator:</b> Verify the correct Notice Type, Notice Text, and Notice References/Links are returned.</p> <p><b>Expected Results:</b></p> <ul style="list-style-type: none"> <li><b>Notice Type:</b> Caution: Recreational Flyer Fixed Site (Yellow Icon)</li> <li><b>Notice Text:</b> Flight operations at a Recreational Flyer Fixed Site within controlled airspace must adhere to the site's operating limitations and safety guidelines, which are available from the fixed site sponsor.</li> </ul> <p><b>Reference/Link:</b> Confirm LAANC is enabled. Include POC from authoritative source.</p> <p><a href="https://www.faa.gov/Recreational-Flyers-and-Community-Based-Organizations">Recreational Flyers &amp; Community-Based Organizations   Federal Aviation Administration (faa.gov)</a></p> <p><b>Alerts:</b></p> <ul style="list-style-type: none"> <li>Recreational Flyer Fixed Site</li> <li>UAS Facility Map</li> <li>Frederick Class D</li> <li>FRIA</li> </ul>	
	<p><b>Results:</b></p> <p><input type="checkbox"/> Pass      <input type="checkbox"/> Fail      <input type="checkbox"/> N/A</p>	
<b>Test Actor</b>	<b>Test Notes:</b>	
FAA: Tester	Click or tap here to enter text.	

### FAA-RECOGNIZED IDENTIFICATION AREAS (FRIAS)

The area of the test operation is the Plane Crazy R/Cers #2681 - Sulphur Springs Rd near Winchester, VA.

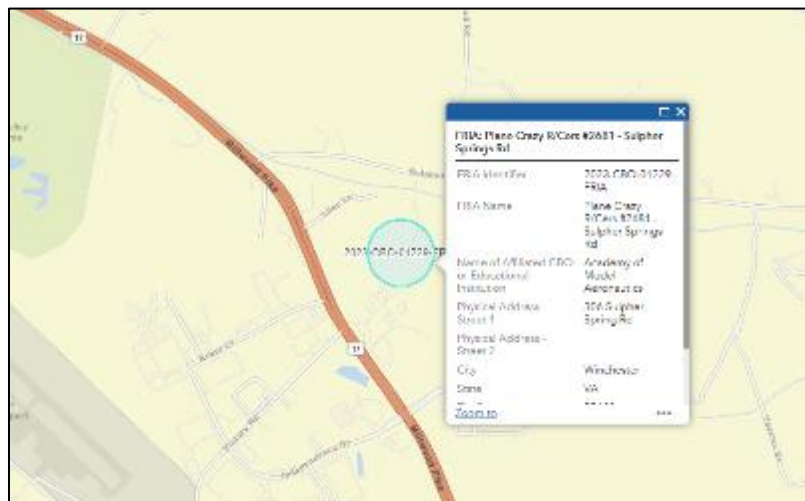


Figure 37: B4UFLY Scenario #6 | Plane Crazy R/Cers FRIA | Winchester, VA

Test Step	Test Procedure		Rule(s)
Step 3.	Drop a pin within the Plane Crazy R/Cers FRIA near Winchester, VA.		[5.3p]
	Results:	<input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:		
USS	Click or tap here to enter text.		

Test Step	Test Procedure	Rule(s)
Step 4.	Demonstrate how your application will display the required Notice Type, Notice Text, and Notice References/Links.	[5.3p] [5.3v]
	<b>Facilitator:</b> Verify the correct Notice Type, Notice Text, and Notice References/Links are returned.	
	<b>Expected Results:</b> <ul style="list-style-type: none"> <li><b>Notice Type:</b> Caution: FAA Recognized Identification Area (FRIA) (Yellow Icon)</li> <li><b>Notice Text:</b> To operate without Remote ID, both the drone and the pilot must be located within the FRIA's boundaries throughout the operation.</li> </ul> <b>Reference/Link:</b> Include FRIA Name, Address, End Date from authoritative source.	
	<b>Alerts:</b> <ul style="list-style-type: none"> <li>FRIA</li> <li>Winchester Airport (OKV)</li> </ul>	
	Results: <input type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> N/A	
Test Actor	Test Notes:	
FAA: Tester	Click or tap here to enter text.	

**UNCONTROLLED AIRSPACE:** The USS will select Class G Uncontrolled Airspace.

Test Step	Test Procedure			Rule(s)
Step 5.	Drop a pin within Class G uncontrolled airspace.			[5.3r]
	Results:	<input type="checkbox"/> Pass	<input type="checkbox"/> Fail	
Test Actor	Test Notes:			
USS	Click or tap here to enter text.			

Test Step	Test Procedure	Rule(s)
Step 6.	Demonstrate how your application will display the required Notice Type, Notice Text, and Notice References/Links.	[5.3r]
	<b>Facilitator:</b> Verify the correct Notice Type, Notice Text, and Notice References/Links are returned.  <b>Expected Results:</b> <ul style="list-style-type: none"><li><b>Notice Type:</b> Clear to Fly (Green Go Icon)</li><li><b>Notice Text:</b> No active advisories. Airspace authorization not required.  Prior to flight, the remote pilot in command must assess local airspace and any flight restrictions.</li><li><b>Reference/Link:</b> N/A</li></ul>	
	<b>Results:</b> <div><input type="checkbox"/> Pass<input type="checkbox"/> Fail<input type="checkbox"/> N/A</div>	
<b>Test Actor</b>	<b>Test Notes:</b>	
FAA: Tester	Click or tap here to enter text.	