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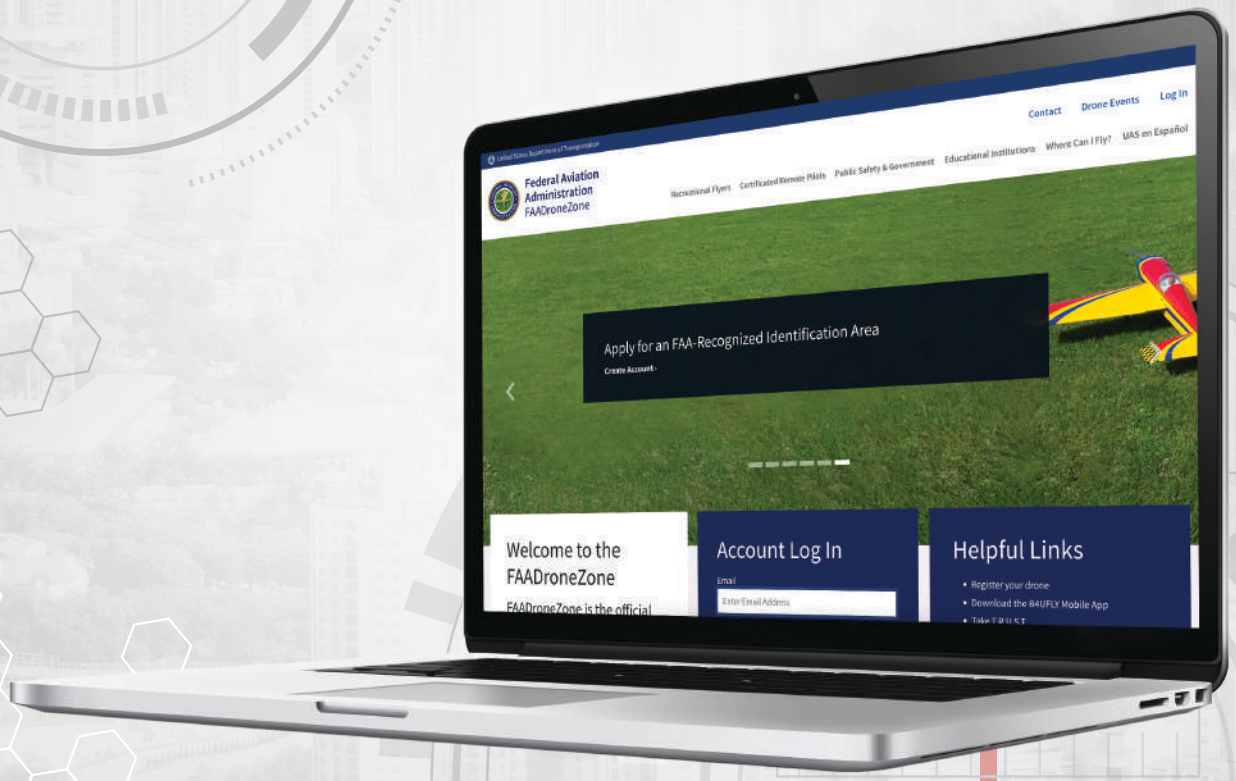
DISCOVER DRONES



FRIA APPLICATION INSTRUCTIONS

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FRIA Application Instructions for Discover Drones Educators

Beginning March 16, 2024, all drone pilots will be required to comply with the Federal Aviation Administration's (FAA's) new Remote ID Rule. The intention of these requirements is to allow public safety officers to keep the national airspace safe by requiring all drones to broadcast location data during flight. Because RubiQ is a home-built drone without built-in remote ID capabilities, there are two ways to comply with the remote ID requirements:

- Attach a remote ID broadcast module to RubiQ during flights.
- Operate without remote ID equipment at an FAA-recognized identification area (FRIA).

Visit the FAA Remote ID webpage for more information:
https://www.faa.gov/uas/getting_started/remote_id

For educational organizations, applying for a FRIA is the most cost-effective way to continue offering drone education programs to students.

Before you begin your FRIA application, answer the following question:

Is your organization recognized and/or accredited as an educational institution (primary or secondary educational institution, trade school, college or university) under applicable state and federal law?

- YES → gather the information in the FRIA application template below and submit your FRIA application through the FAA website.
- NO → you will need to submit your FRIA application through a community-based organization (CBO). Visit https://www.faa.gov/uas/recreationalfliers/faa-recognized-community-based-organizations to review the current list of FAA-recognized CBOs.

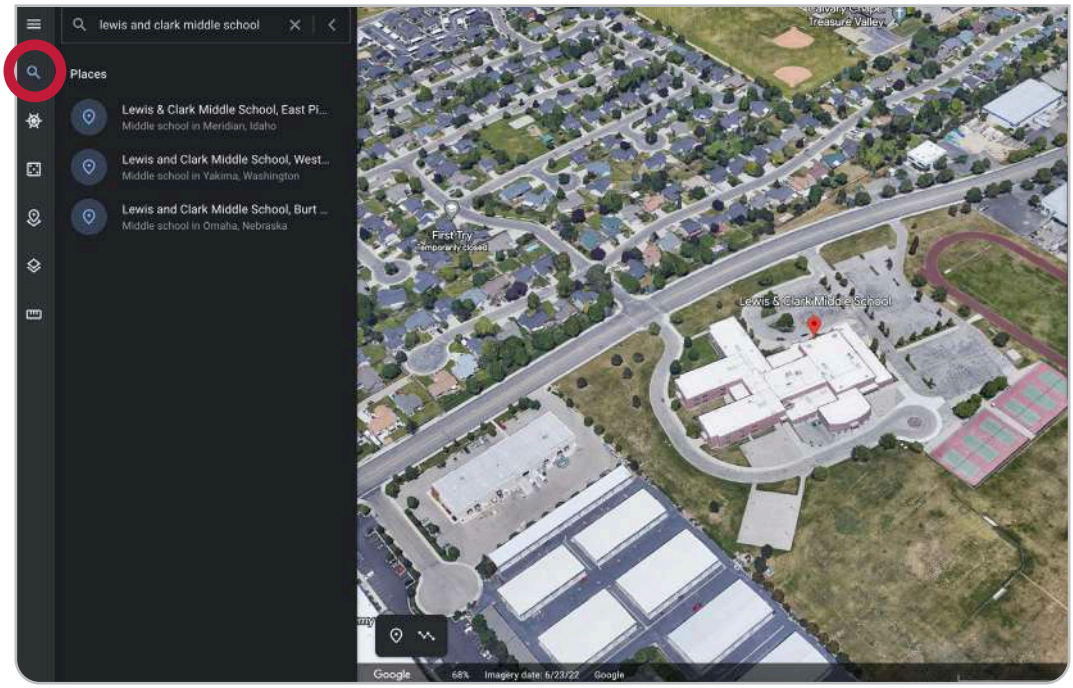
Contacts & Declaration	
Educational Institution Name	
Name of Authorized Representative of Education Institution: *this can be an administrator or academic staff member*	
Contact Information for the Primary Point of Contact (PPOC): *this should be the teacher or program coordinator who is either directly using the drones with students or overseeing the facilitation of the program*	
PPOC Name	
PPOC Email	
PPOC Phone Number	
PPOC Physical Address	
PPOC Mailing Address	

FRIA Details	
FRIA Physical Address	
*Location of the Proposed FRIA: Circle Boundary *see directions below*	
Latitude	
Longitude	
Radius (ft)	
Airspace Authorization: Does an airspace authorization from the FAA apply to operations at the proposed FRIA? (select one) ***see directions below*	YES/NO
Fixed Sites: Does this proposed FRIA location overlap with an existing or proposed fixed site? ****see directions below*	YES, an existing fixed site YES, a proposed fixed site NO

Expected Utilization	
Estimate of the Expected Average Number of Unmanned Aircraft (Drone) Flights Per Week	

*How to Determine the Location of the Proposed FRIA: Circle Boundary

- Google Earth (earth.google.com) can help you identify the coordinates of your proposed FRIA location.
- Click the magnifying glass icon to search for your location's address.



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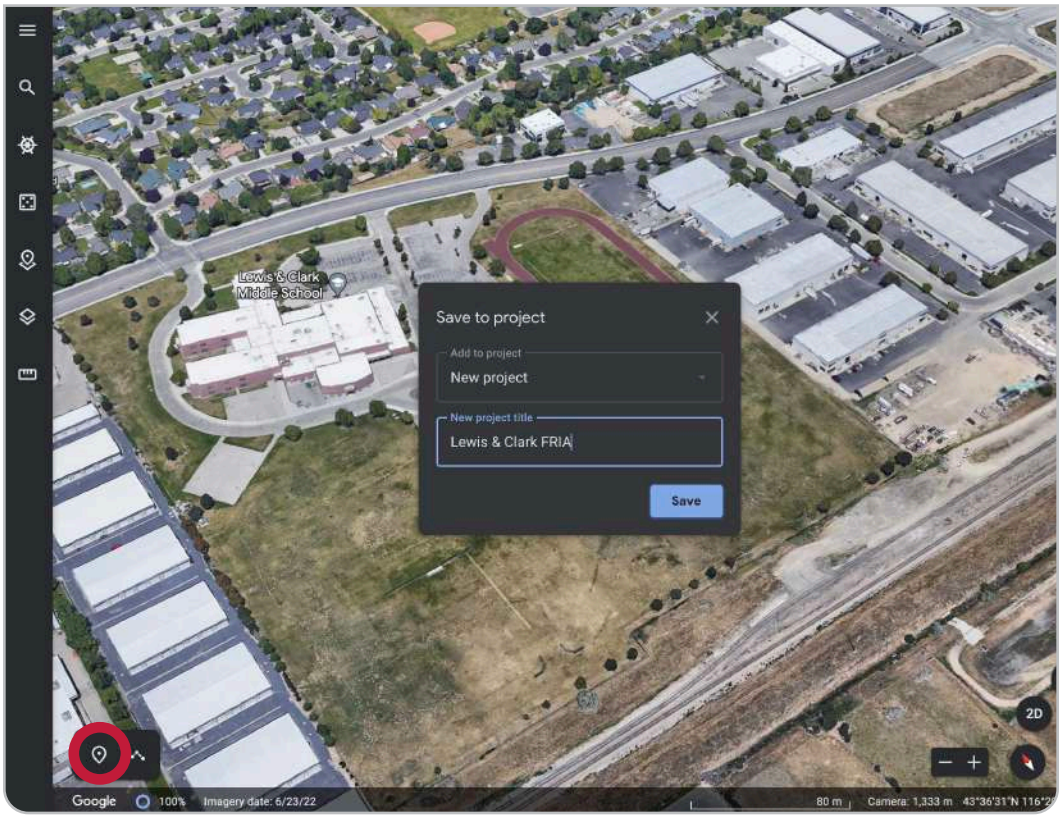
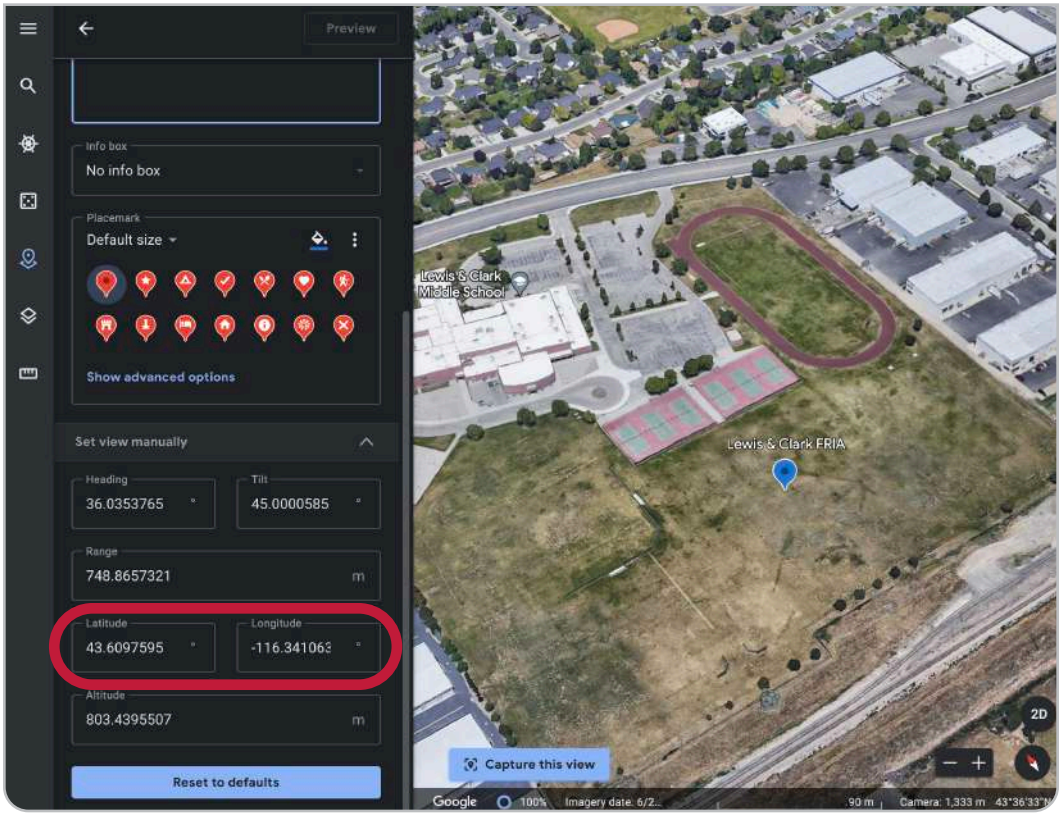
- Click the **Add placemark** icon in the bottom left to drop a pin in the center of your proposed FRIA location. Label your project to save as needed.



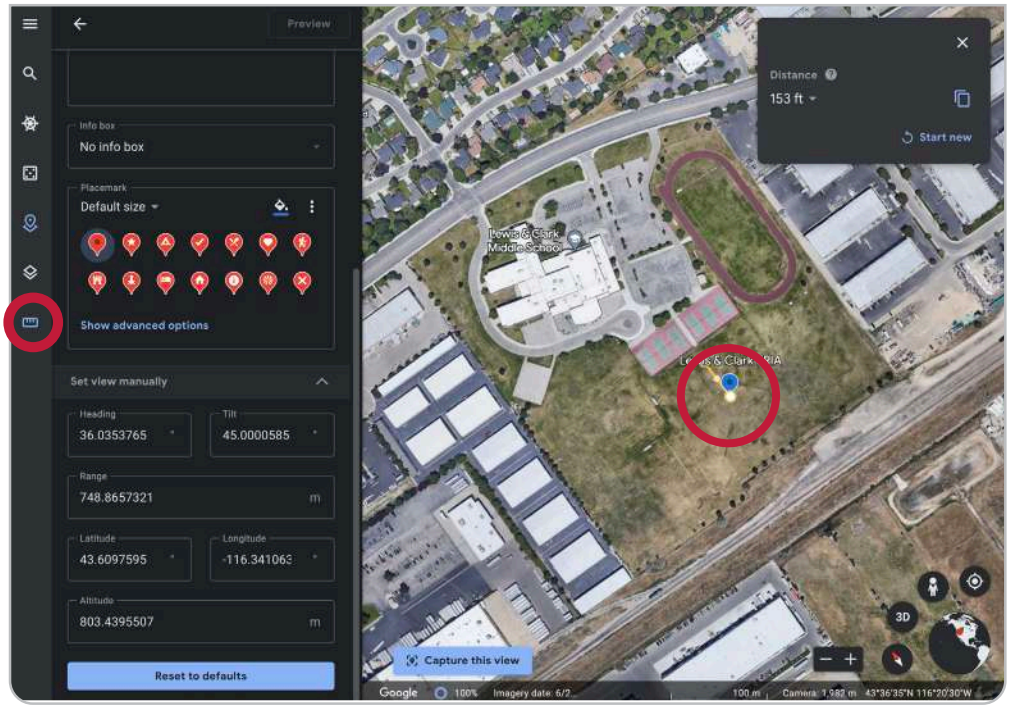
- To view the latitude and longitude coordinates, scroll to the bottom of the menu that opens on the left side of the screen once you save your project.



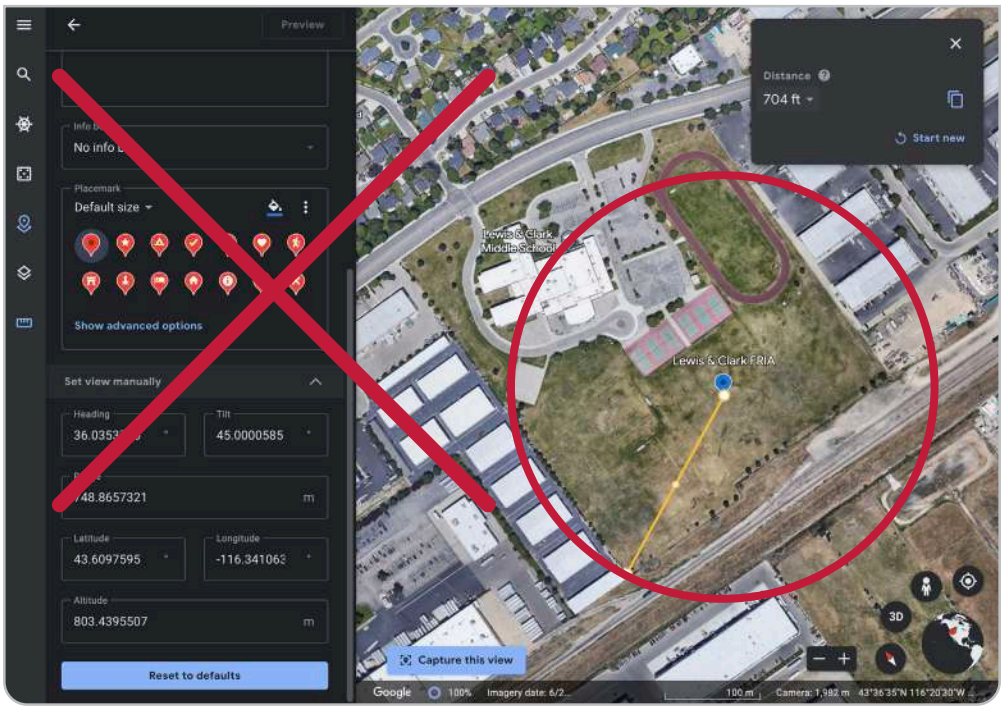
- To determine the radius needed for a circular FRIA, click the Measure Distance and Area ruler icon in the left sidebar. Click twice to draw a line from the center of your proposed FRIA location to the closest edge of the flight field.

The FAA is likely to deny your application if the radius intersects any buildings, roads or parking lots, so be sure to keep your proposed site's footprint small.

Adjust the units to feet if necessary.



This proposed area has a small footprint that is limited to the athletic field, making it likely to be approved.



This radius is too wide. Because the proposed location includes buildings and roads, the application will likely be denied.

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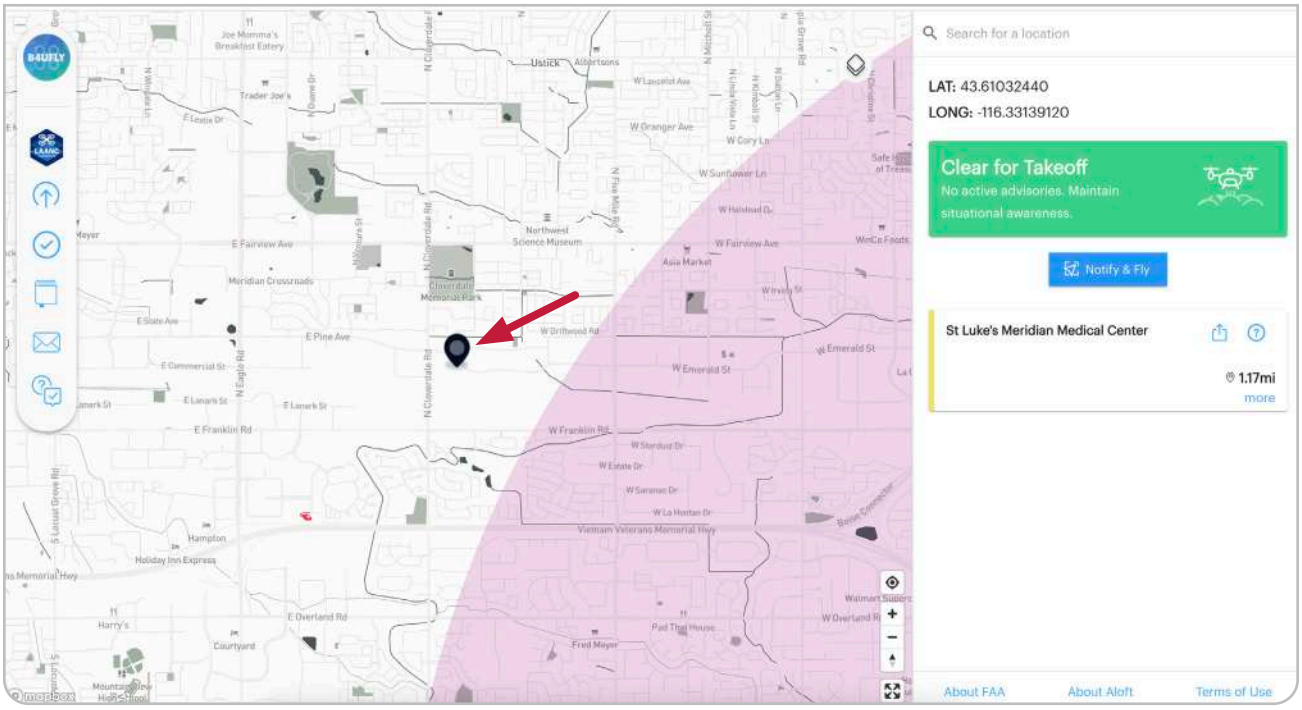
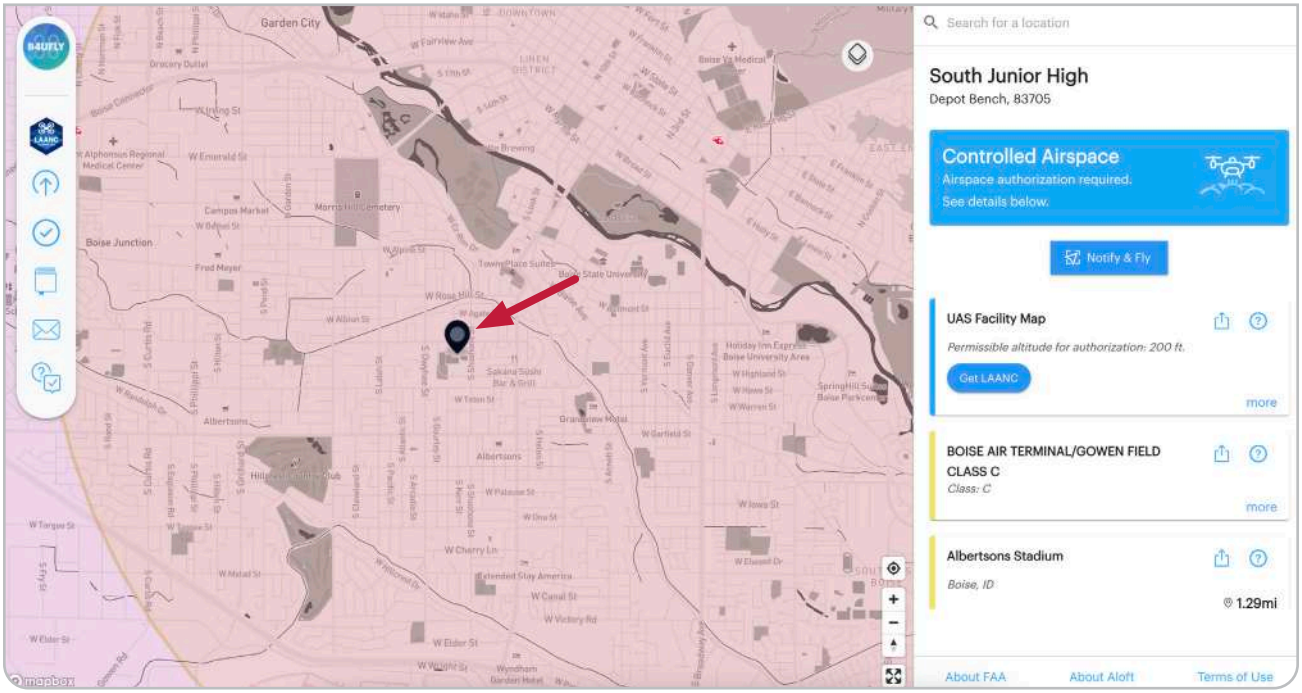
**How to Determine Airspace Authorization

- To find out if your proposed FRIA location is in controlled airspace, visit https://airaware.aloft.ai/. If it does not automatically load, enter the address of the proposed FRIA location into the search bar in the top right. If you see that you are Clear for Takeoff (as shown in the first image below), no airspace authorization is required. If you are in controlled airspace (as shown in the second image below), airspace authorization is required.



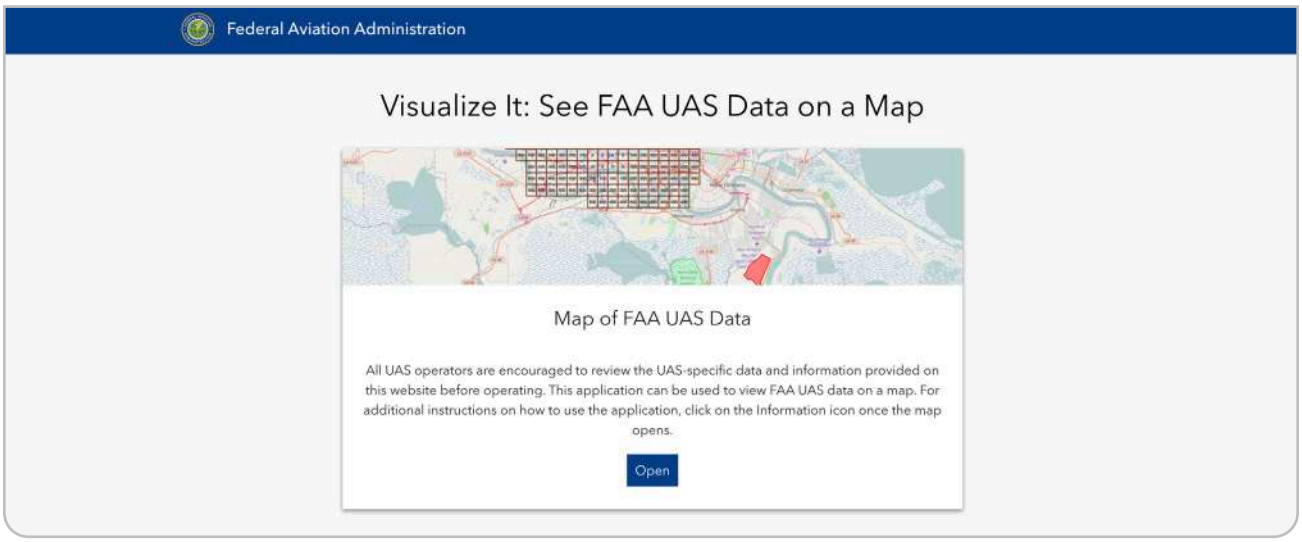
NO - Airspace Authorization is not required



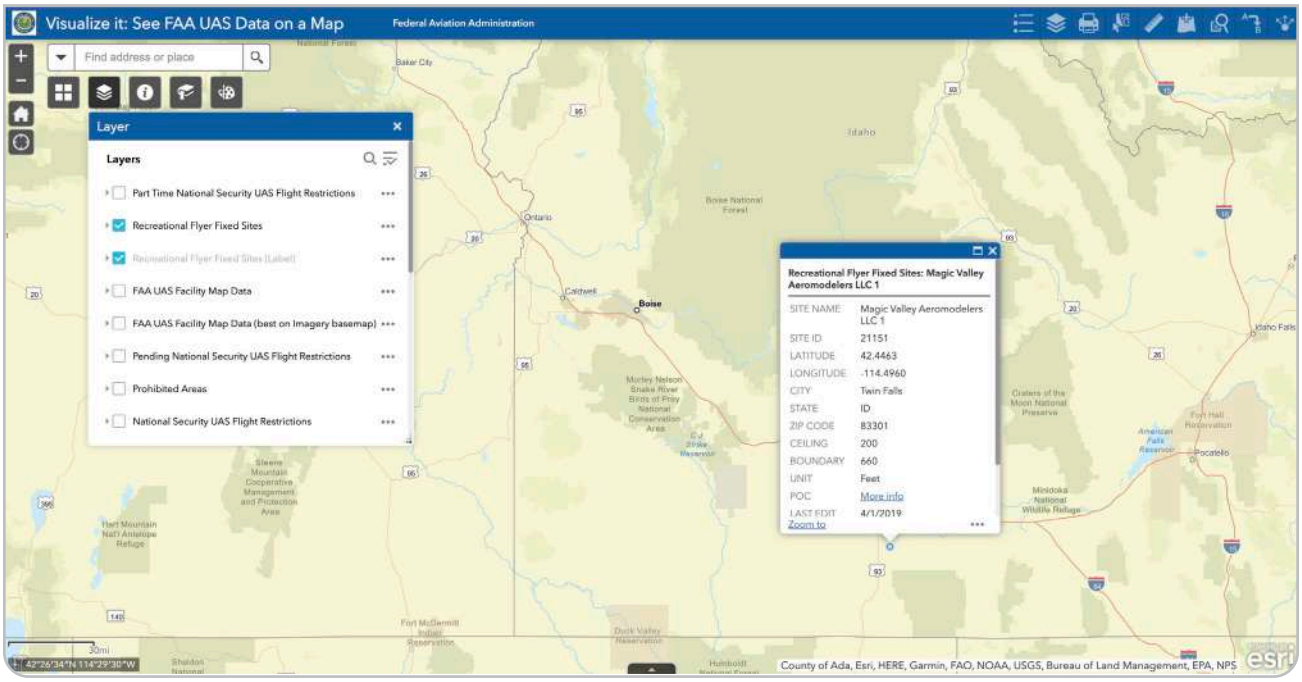
YES - Airspace Authorization is required

**How to Determine Overlap with Fixed Sites

- Visit https://udds-faa.opendata.arcgis.com/. Scroll down to Open the Map of FAA UAS Data.



- Click the stack for Layers and make sure only Recreational Flyer Fixed Sites are selected. Then zoom into your proposed FRIA location to see if there's any overlap with your existing site.



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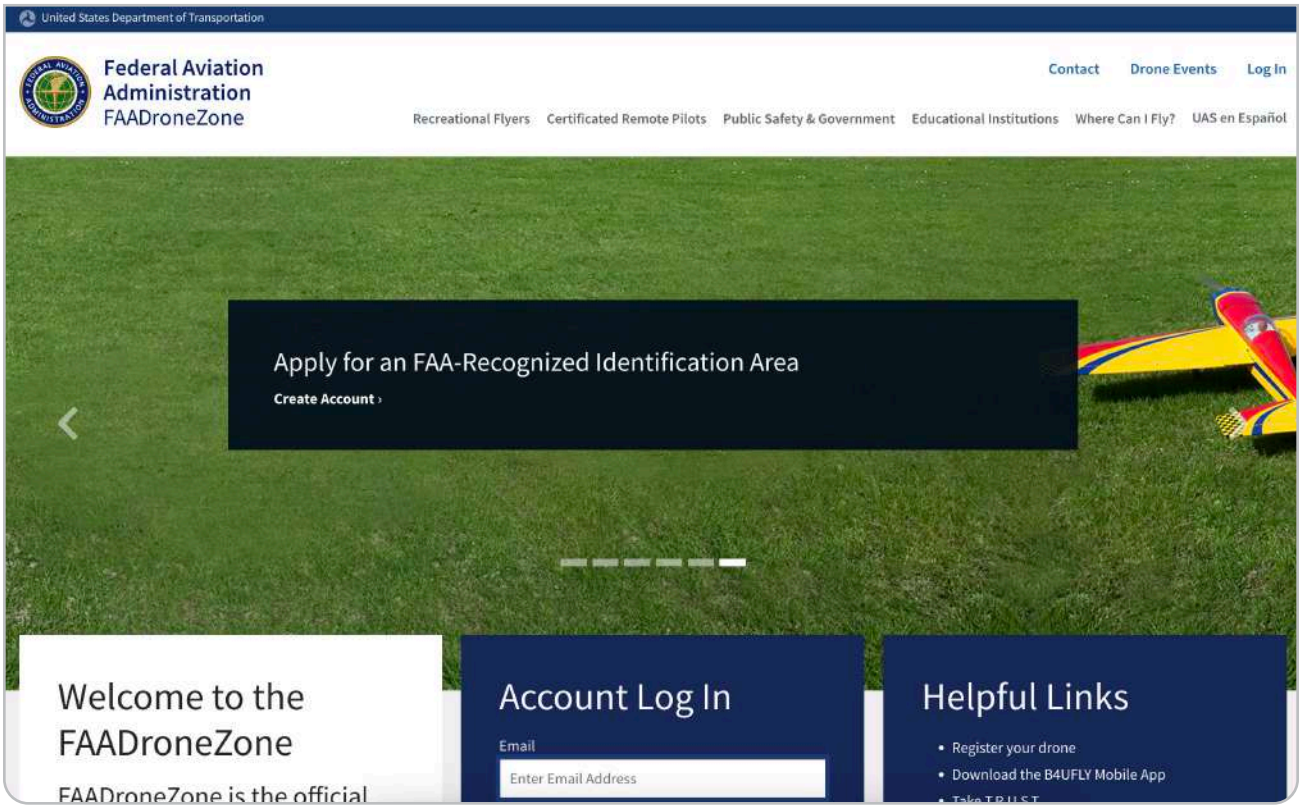
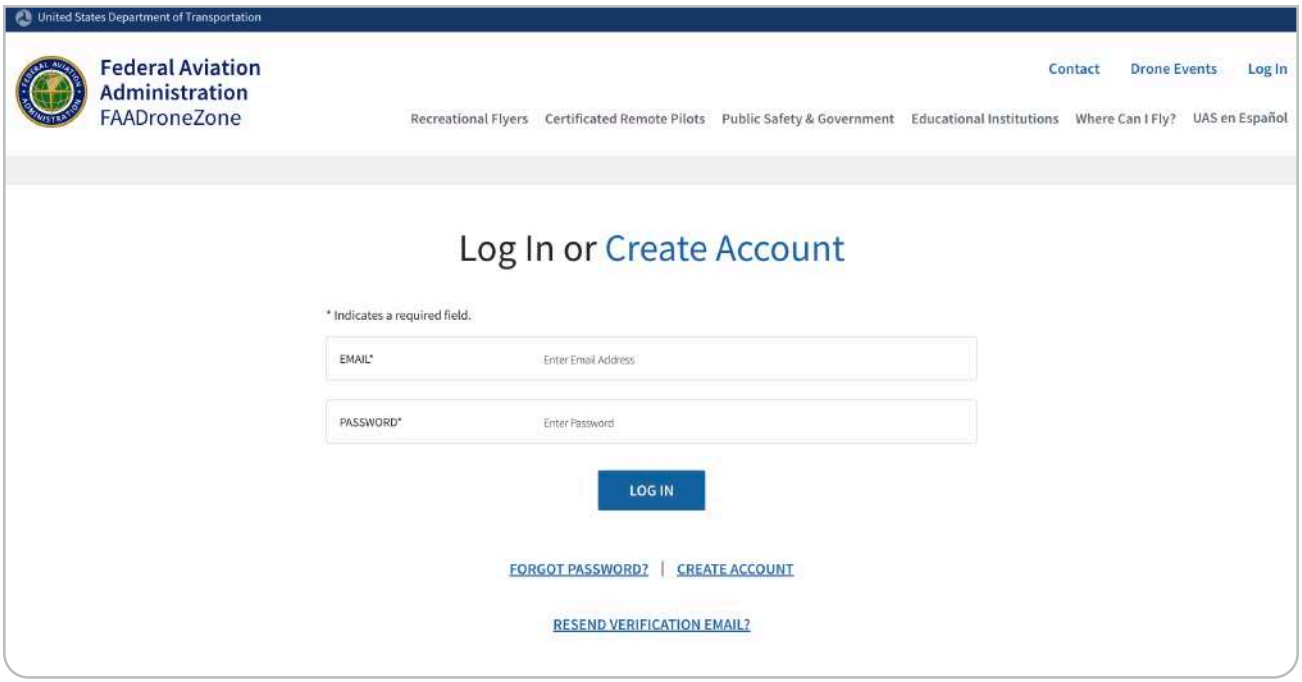
How to Submit Your FRIA Application

When you have gathered all the information in the template above and are ready to submit your FRIA application to the FAA, visit https://faadronezone-access.faa.gov. In the top right corner, click **Log In**.

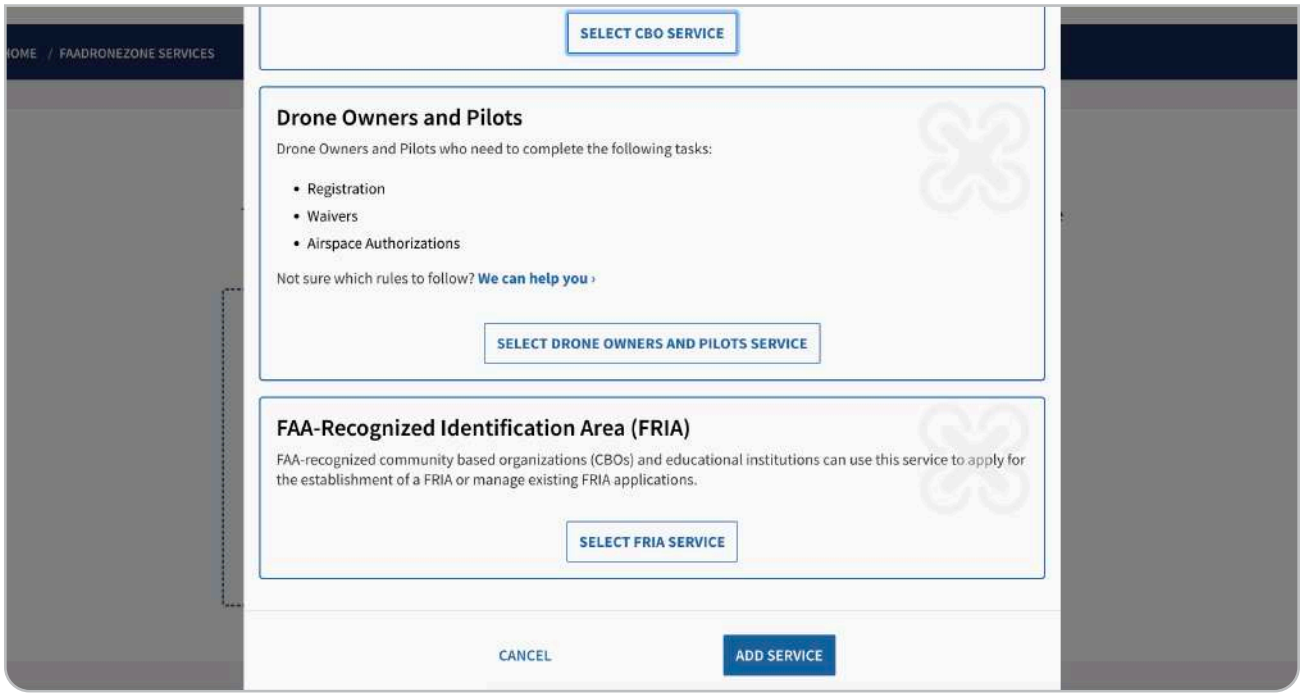


Create an account if needed or **Log In** if you already have one.



Click to **Add a Service**.

In the pop-up, Select **FRIA Service** and then **Add Service**.



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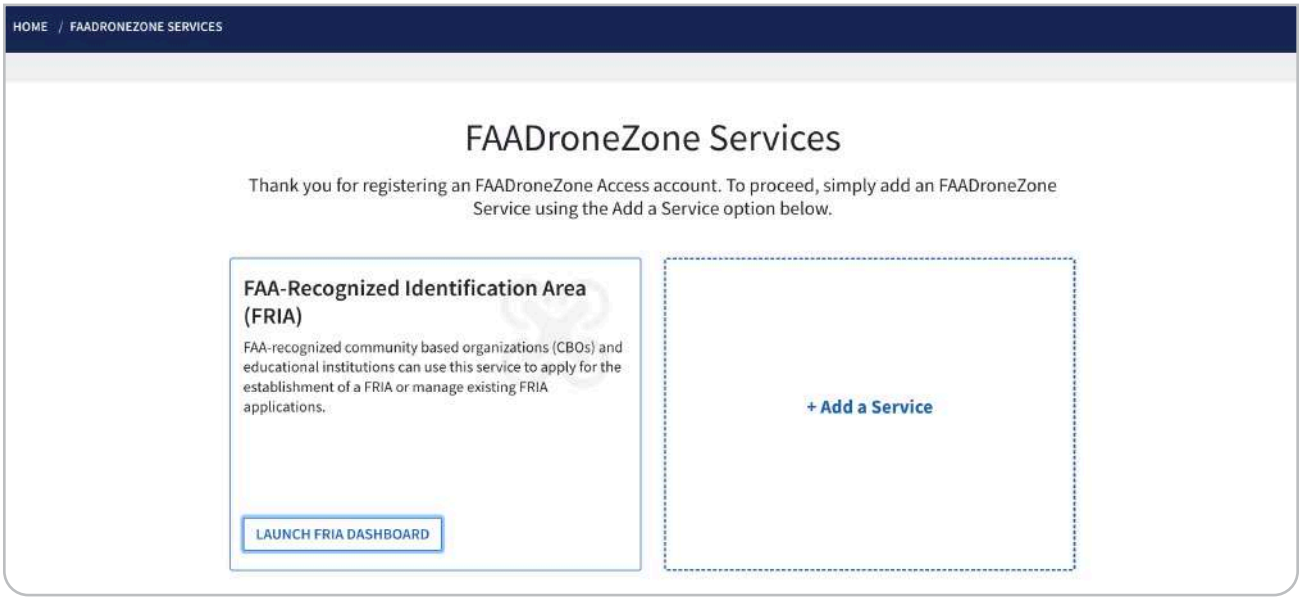
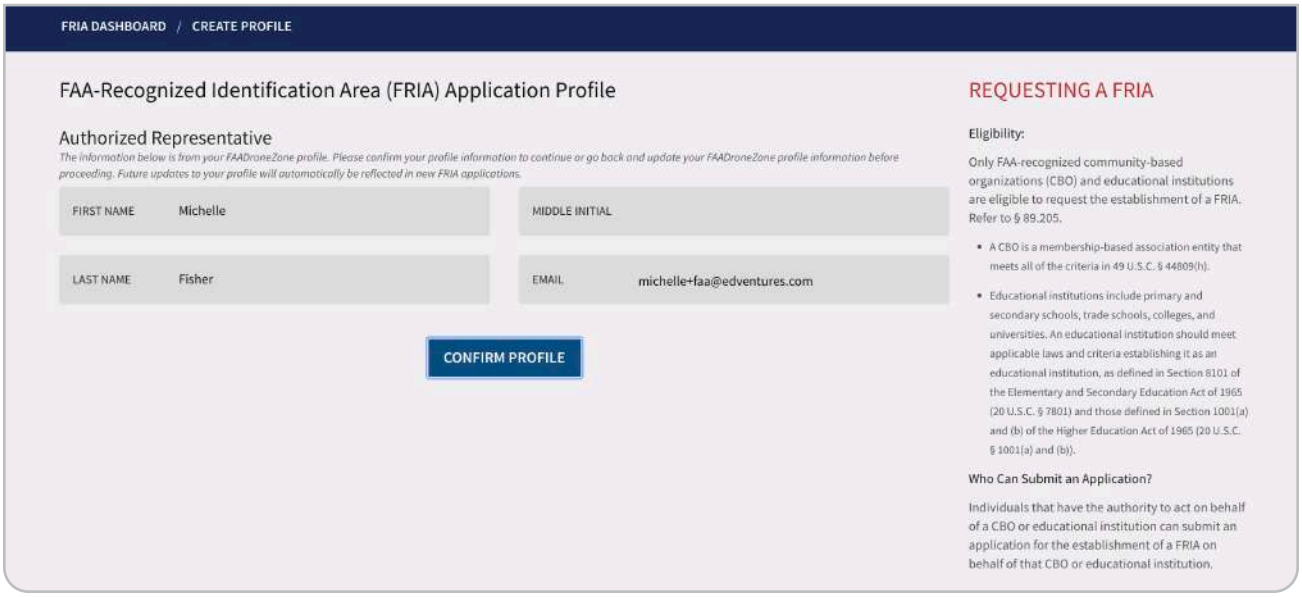
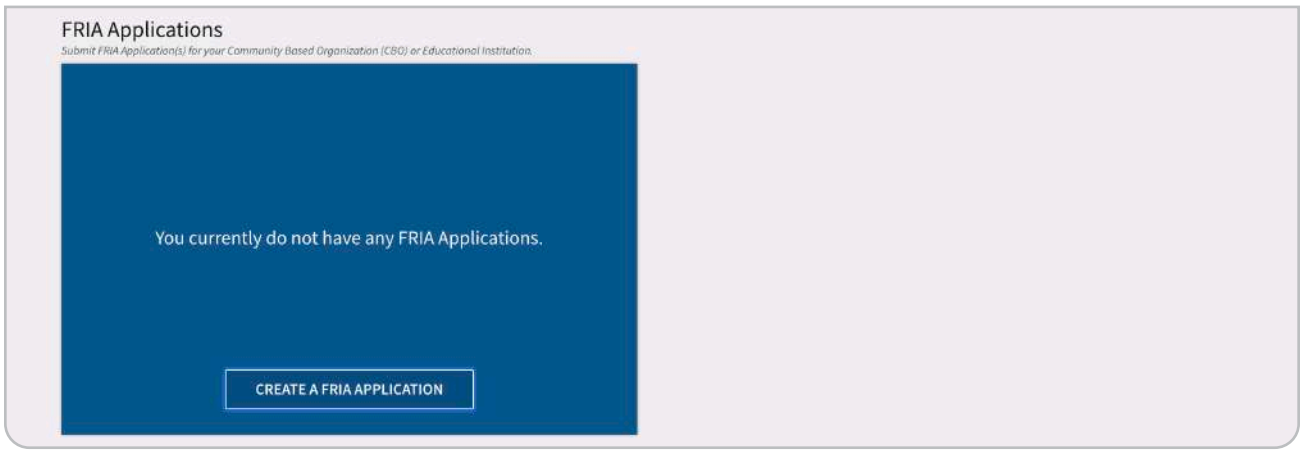
You will now see an option to apply for a FRIA. Next, select **Launch FRIA Dashboard**.



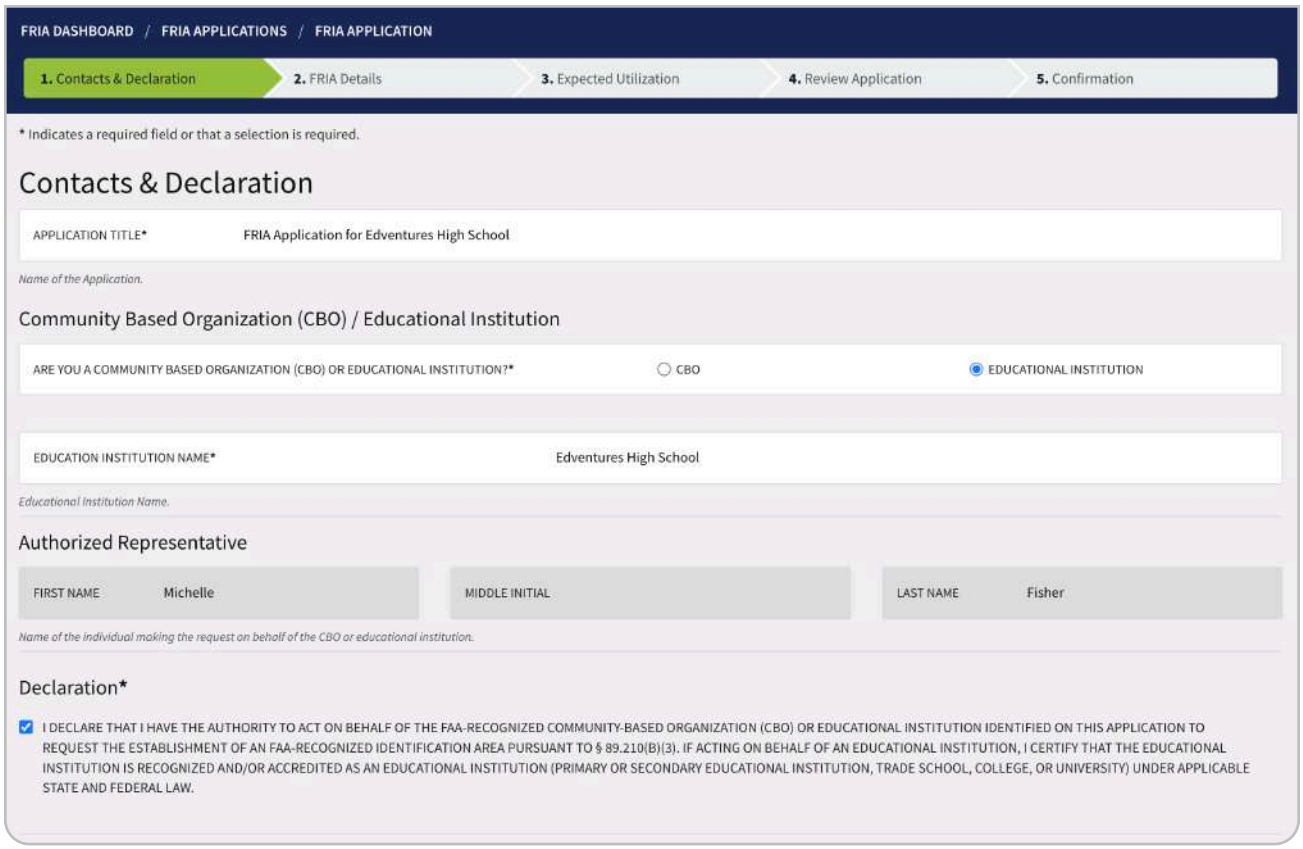
Confirm Profile of the authorized representative that will be associated with your application.



You should now have the option to **Create a FRIA Application**.



In the first step of the application, enter the contact information for the Primary Point of Contact. An example is shown below.



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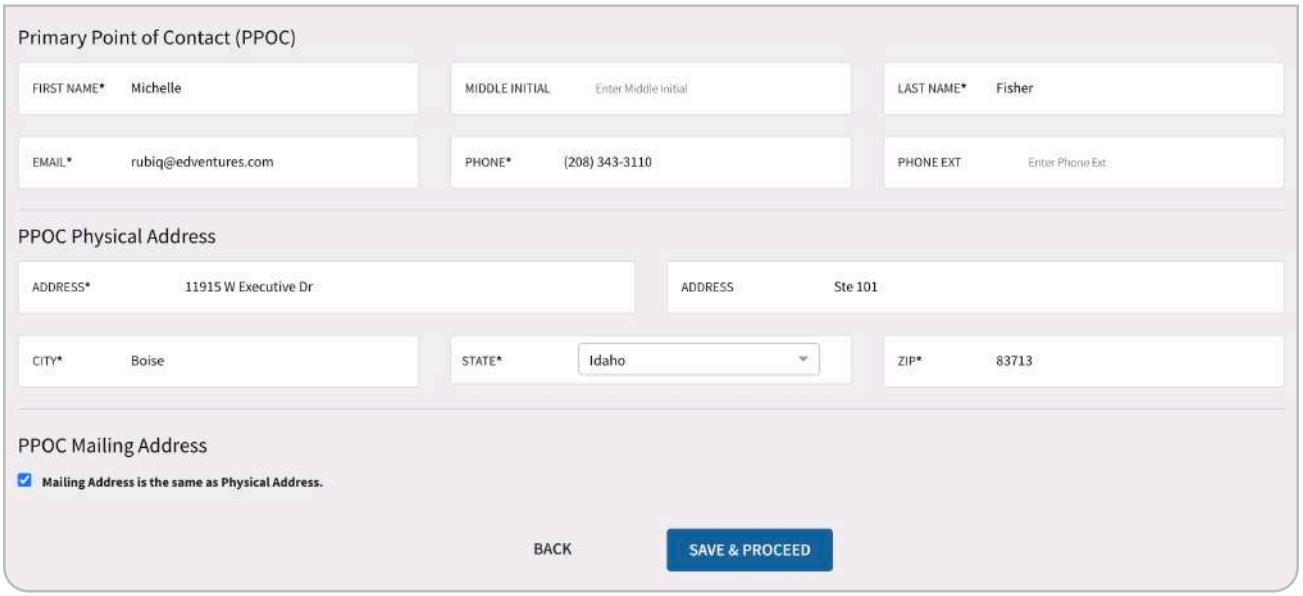
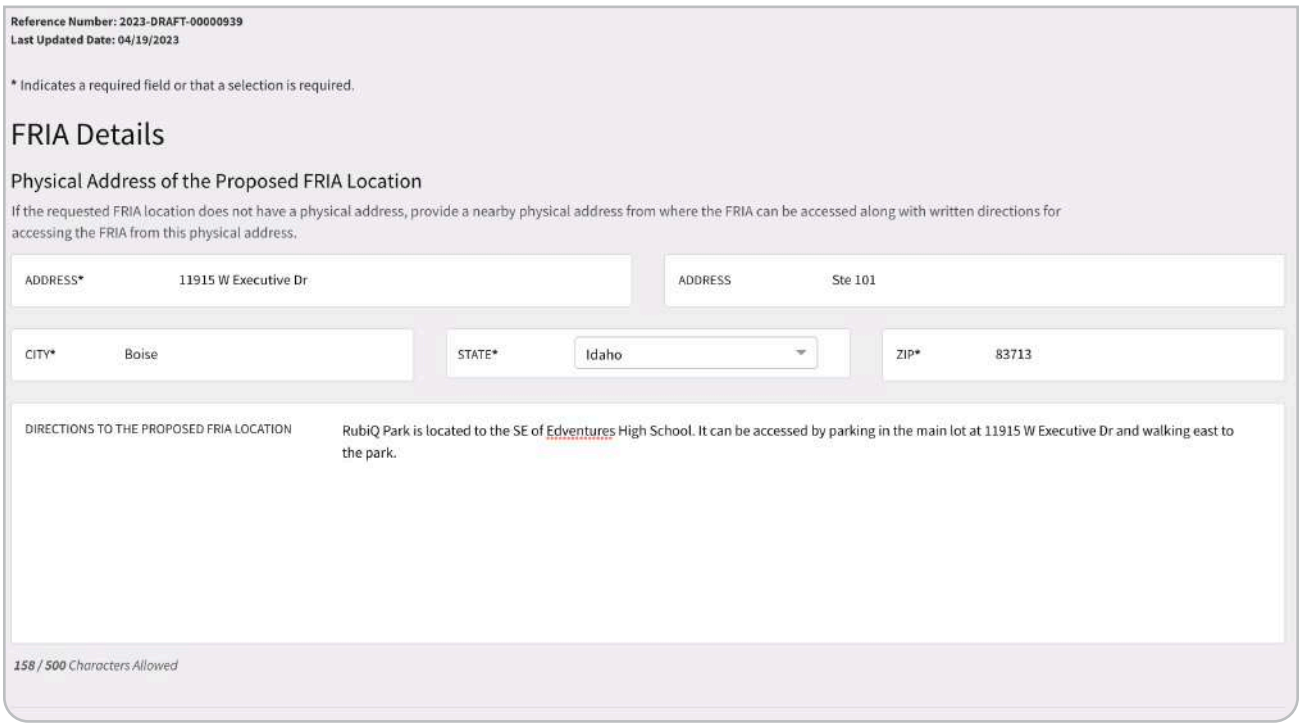
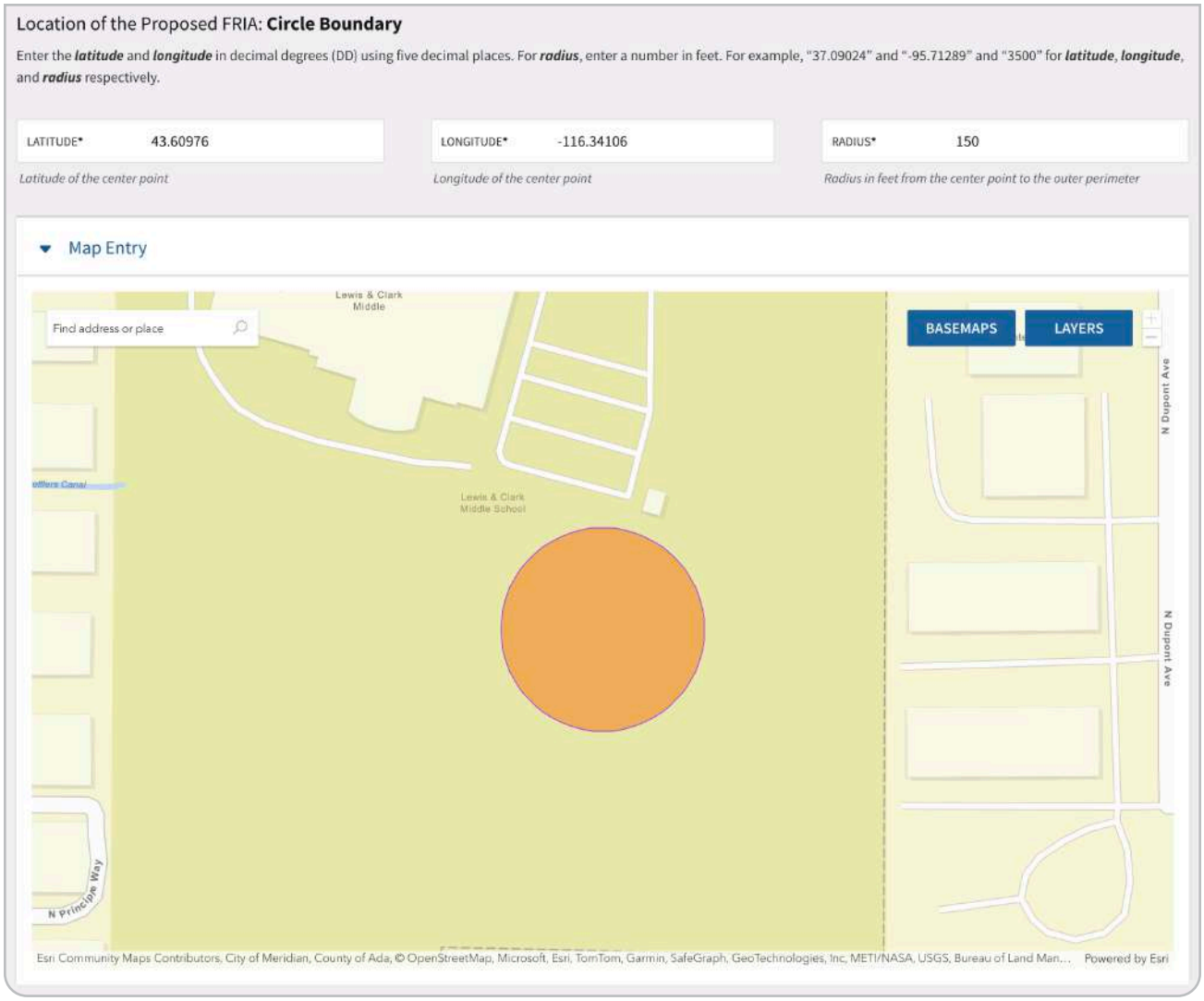


On the second page of the application, enter the contact information for the Proposed FRIA Location. An example is shown below.



We recommend selecting a circle boundary type. Enter the latitude, longitude and radius calculated on Google Earth. Use the Map Entry visual to confirm that the footprint of the proposed FRIA does not intersect with any roads or buildings. An example is shown below.



For the Airspace Authorization(s) or Letter(s) of Agreement (LOA), select Yes if your proposed FRIA location is in controlled airspace or No if you are in uncontrolled airspace. The example location is in uncontrolled airspace and does not overlap with an existing or proposed fixed site.

If your proposed FRIA location is in controlled airspace, an additional section will appear when you select Yes asking you to add attachment on airspace authorization(s) or letter(s) of agreement (LOA).

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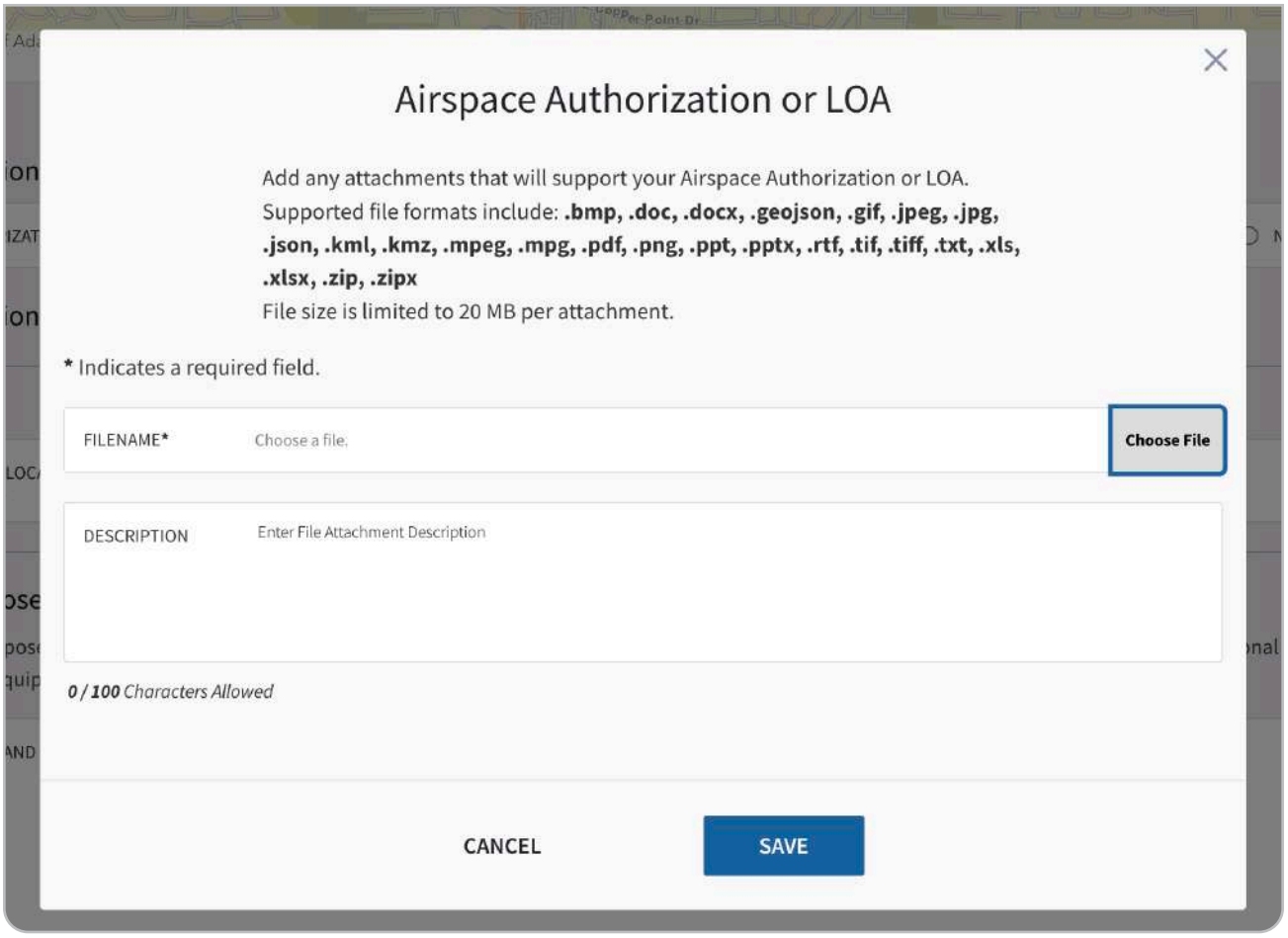
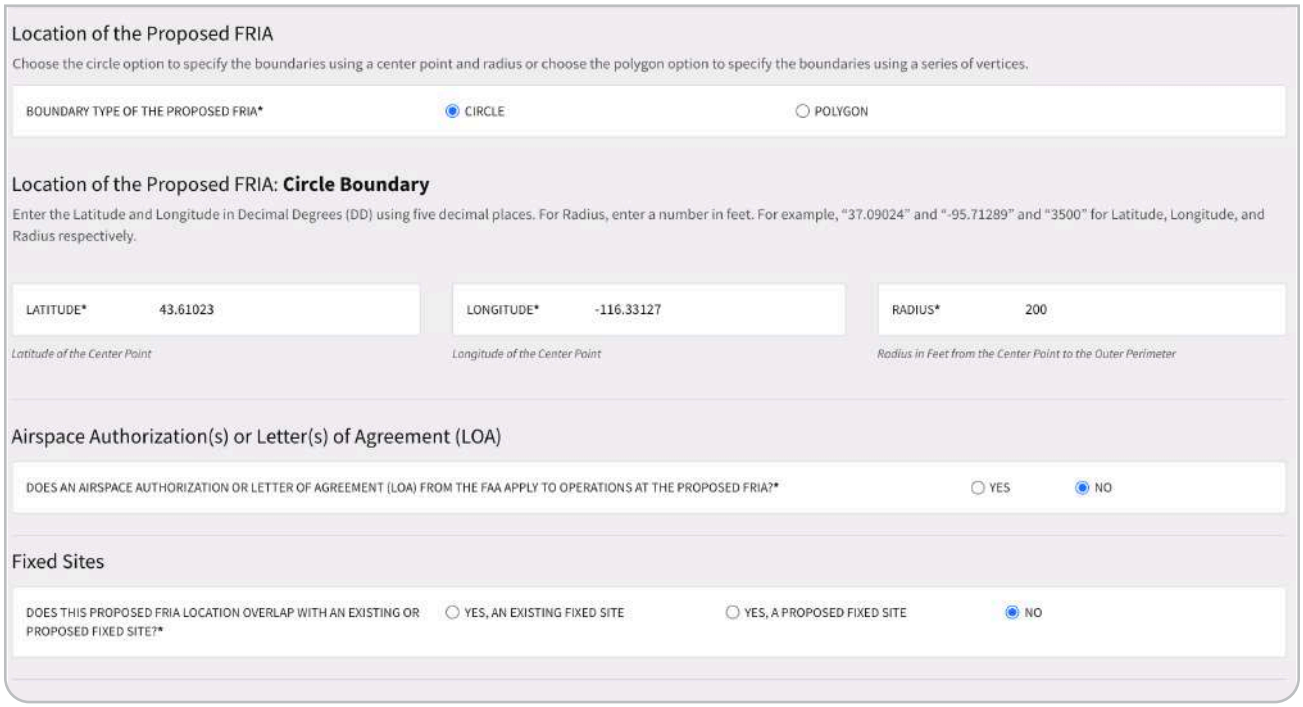
Click Add Attachment to open a menu that will allow you to save supporting documentation.

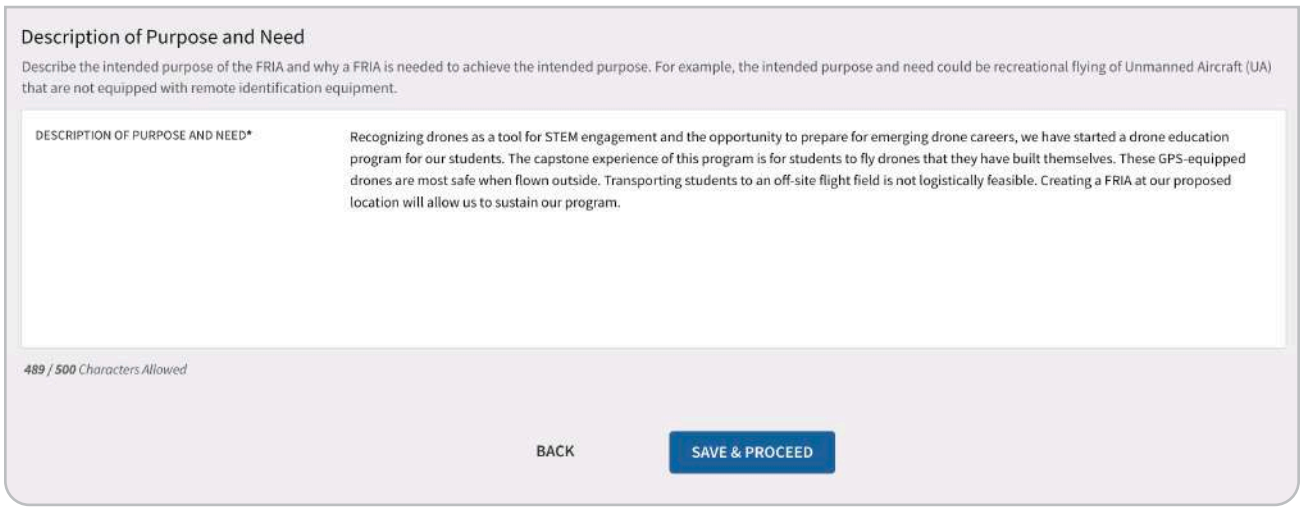




For the Description of Purpose and Need, adapt the example text below as needed:

Recognizing drones as a tool for STEM engagement and the opportunity to prepare for emerging drone careers, we have started a drone education program. The capstone experience is for students to fly drones that they have built themselves. These GPS-equipped drones are most safe when flown outside. Transporting students to an off-site flight field is not logistically feasible, and external remote ID modules are prohibitively expensive. Thus, a FRIA is needed to sustain our program.

The proposed FRIA location is located on a baseball field which is not used during the school day. Flights will only occur when the field is not otherwise being used and access is limited to those directly involved in the flight operations. Instructors will have access to a tethered radio "buddy box" system to ensure that student pilots stay within the FRIA.



In the third section of the application, include your estimate of the expected average number of flights per week. For the estimated length of a typical flight in minutes, enter 5.

For your RubiQ drones, select Multi-Copter and Electric Motor.

Select NO for operations during dawn and dusk and at night.

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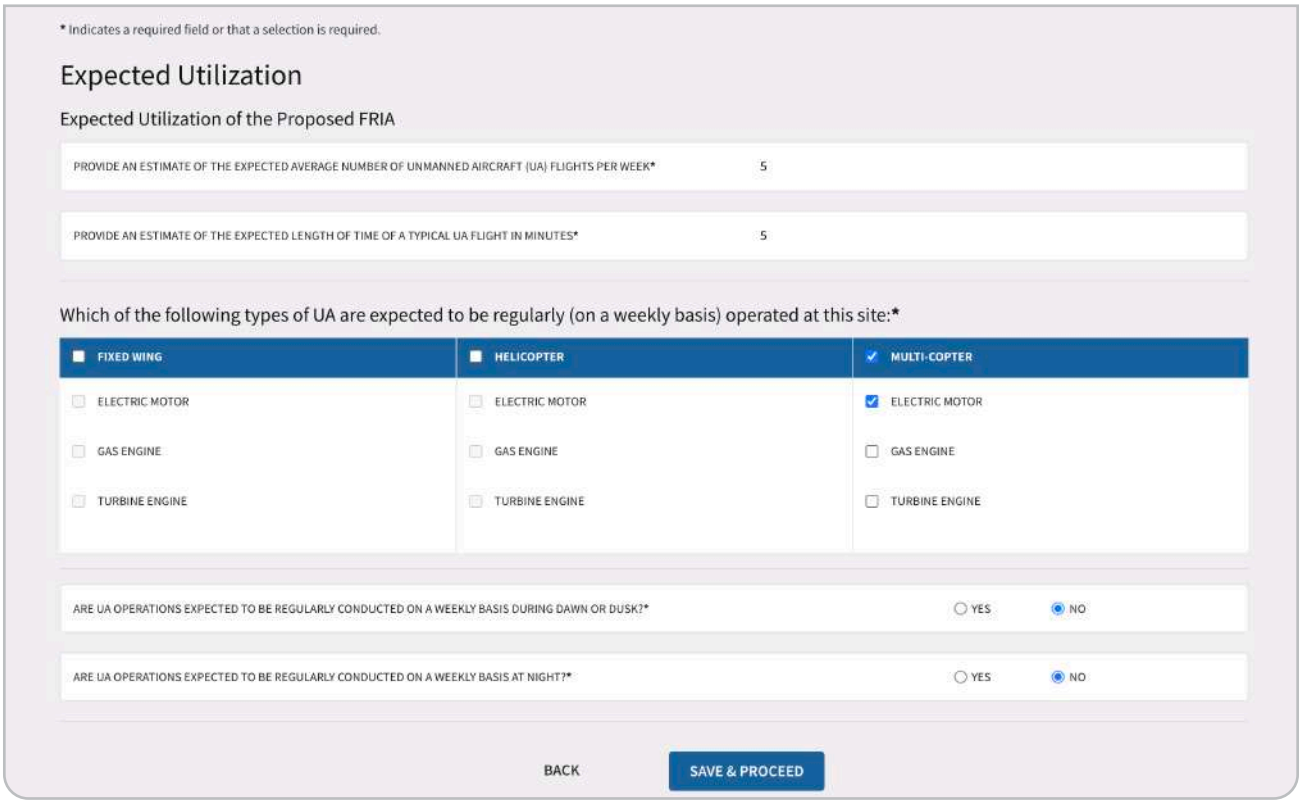
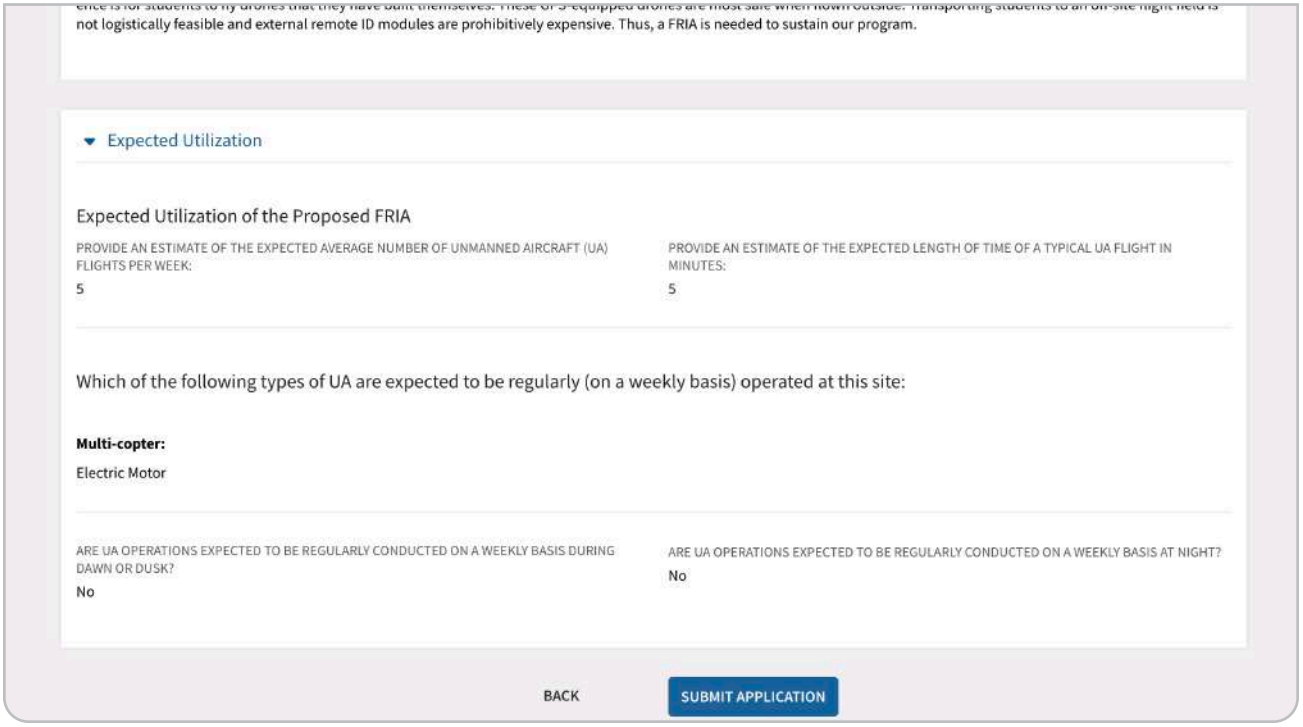


After reviewing your application, scroll to the bottom of the page to **Submit Application**.



If you have any questions, don't hesitate to send us an email or give us a call:
PCS Edventures • **support@edventures.com** • **(208) 343-3110**

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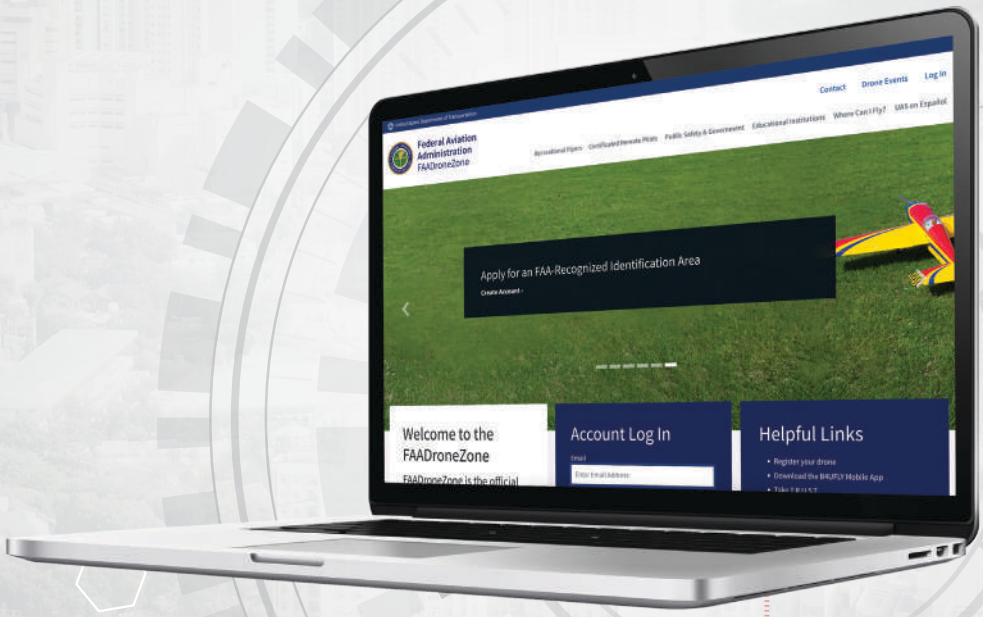

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