

Montana Airport Managers Association Meeting

Airport Airspace Analysis

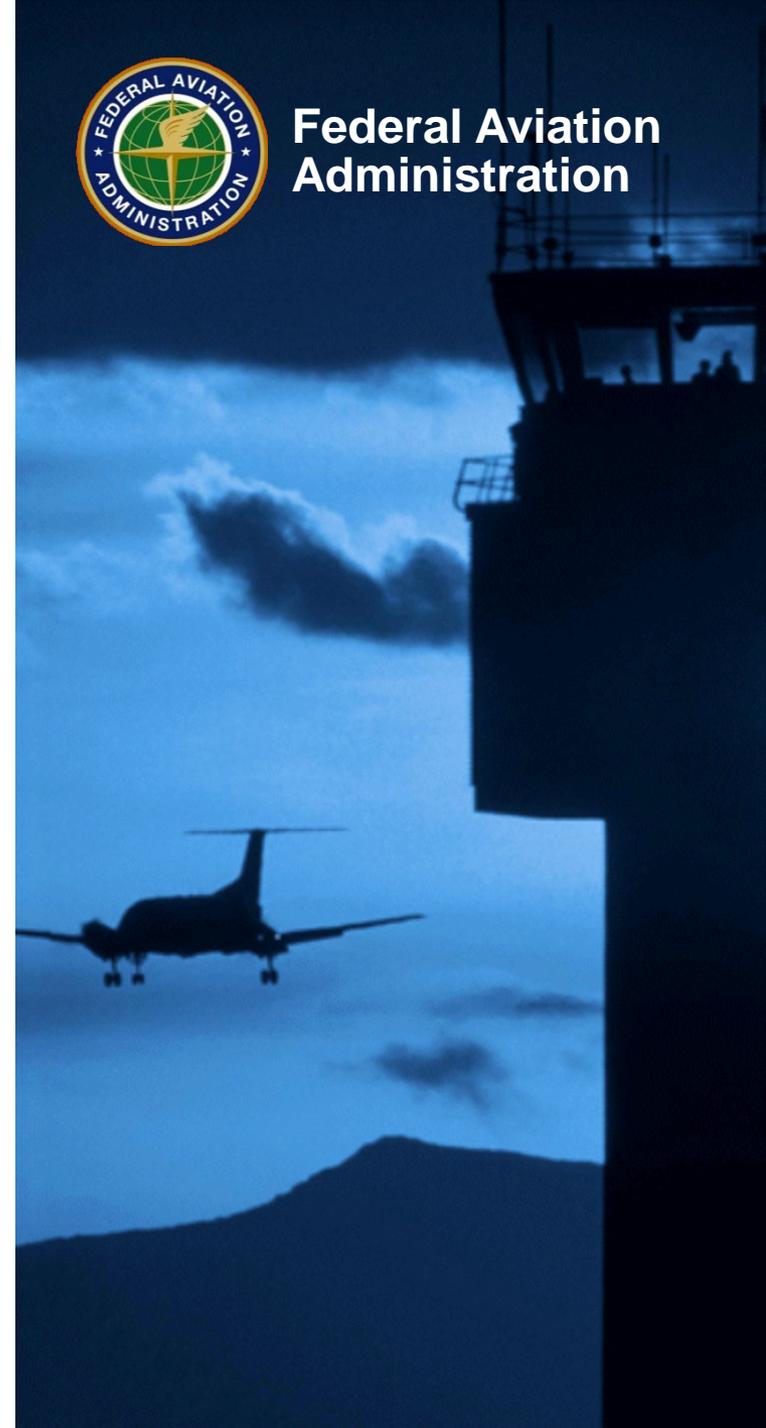
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Federal Aviation
Administration



Topics

➤ Wednesday, September 24, 2014

- What is Airport Airspace Analysis (AAA)?
- Why do it?
- How to do it? (Form 7460, Notice of Construction or Alteration)
- Timelines
- Obstruction Light Outage Reporting



Airport Airspace Analysis

➤ What is an Airport Airspace Analysis?

✓ Aeronautical study

- Involves multiple FAA Lines of Business - coordination
- Evaluate the effect of the construction or alteration on operating procedures
- Determine the potential hazardous effect of the proposed construction on air navigation
- Identify mitigating measures to enhance safe air navigation
- Charting of new objects



Airport Airspace Analysis

➤ Why do it?

Title 14 Part 77

- 77.9, Construction or Alteration Requiring Notice
 - Projects proposed on public use airports and heliports

FAA Order 7400.2J

- Ensure internal FAA coordination

SAFETY



Airport Airspace Analysis

➤ How to do it?

- ✓ FAA Form 7460, Notice of Construction or Alteration, is the method used to notify FAA of a proposed project
 - Follow the directions attached to the form
 - Attach a site location map and project layout sketch
 - Coordinate with the FAA project manager before submitting the 7460
 - Projects requiring additional information
 - **Buildings:** Provide the latitude & longitude, site elevation and above ground elevation for all four corners
 - **Fencing:** provide additional information at locations along the alignment
 - Electronic (online) submissions are encouraged
<https://oeaaa.faa.gov/>



Obstruction Evaluation Version 2014.3.4

Obstruction Evaluation / Airport Airspace Analysis (OE/AAA)

faa.gov Tools: Print this page

- Home
- FAA OE/AAA Offices
- View Determined Cases
- View Interim Cases
- View Proposed Cases
- View Supplemental Notices (Form 7460-2)
- View Circularized Cases
- Search Archives
- Download Archives
- Circle Search for Cases
- Circle Search for Airports
- General FAQs
- Wind Turbine FAQs
- Discretionary Review FAQs
- Notice Criteria Tool
- DoD Preliminary Screening Tool
- Wind Turbine Build Out
- Distance Calculation Tool
- OE/AAA Account
- Login
- New User Registration
- Instructions

In administering Title 14 of the Code of Federal Regulations (14 CFR) Part 77, the prime objectives of the FAA are to promote air safety and the efficient use of the navigable airspace. To accomplish this mission, aeronautical studies are conducted based on information provided by proponents on an FAA Form 7460-1, Notice of Proposed Construction or Alteration.

Advisory Circular 70/7460-1K, Obstruction Marking and Lighting, describes the standards for marking and lighting structures such as buildings, chimneys, antenna towers, cooling towers, storage tanks, supporting structures of overhead wires, etc.

OE/AAA Filing Process

If your organization is planning to sponsor any construction or alterations which may affect navigable airspace, you must file a Notice of Proposed Construction or Alteration (FAA Form 7460-1) either electronically via this website or manually with the FAA.



If construction or alteration IS NOT LOCATED on an airport:

File forms 7460-1 and 7460-2 electronically via this website - [New User Registration](#).

E-filing your proposal is preferred because
- It's the fastest, most accurate method to submit to the FAA and immediately assigns an aeronautical study number to your case.
- It establishes an electronic communications link with FAA and allows you to obtain project status and notifications directly from this site.



or
If you are unable to file electronically please click [here](#)

Questions? Please contact the [appropriate representative](#).

If construction or alteration IS LOCATED on an airport:

You may file forms 7460-1 electronically via this website - [New User Registration](#).

or

Find the [FAA Airports Region / District Office](#) having jurisdiction over the airport on which the construction is located, and file to that address.

Who Needs to File

14 CFR Part 77.9 states that any person/organization who intends to sponsor any of the following construction or alterations must notify the Administrator of the FAA:

- any construction or alteration exceeding 200 ft above ground level
- any construction or alteration:
 - within 20,000 ft of a public use or military airport which exceeds a 100:1 surface from any point on the runway of each airport with its longest runway more than 3,200 ft
 - within 10,000 ft of a public use or military airport which exceeds a 50:1 surface from any point on the runway of each airport with its longest runway no more than 3,200 ft
 - within 5,000 ft of a public use heliport which exceeds a 25:1 surface
- any highway, railroad or other traverse way whose prescribed adjusted height would exceed the above noted standards

Airport Airspace Analysis

➤ Airport Airspace Analysis for AIP projects:

- Initial Project Airspace Review (IPAR):
 - ✓ Proposed AIP projects must be coordinated within FAA
 - ✓ In-depth project level review
 - ✓ FAA determination is based upon comments developed during the IAPR
- ALP Airspace review does NOT satisfy the IPAR requirement



Airport Airspace Analysis

- Construction Safety Phasing Plan (CSPP):
 - ✓ A second project coordination is required when the airport operations or the movement of aircraft may be impacted
 - ✓ A draft for FAA review is highly recommended at the 25-30% design phase when there is significant impact to routing of aircraft or to runway approaches
 - ✓ Final CSPP must be submitted to the FAA for internal coordination at the 80-90% design stage



Airport Airspace Analysis

- Projects Exempt from Airspace Analysis:
 - ✓ Procurement of airport equipment (i.e. Snow Removal Equipment)
 - ✓ Internal building changes



Time Lines for Coordination

➤ General Information

- Internal Coordination
 - ✓ Response from FAA Lines of Business is tiered
 - Technical Operations
 - Flight Procedures
 - Air Traffic and Operations Support Group
 - Air Traffic Control Tower
 - Air Traffic Obstruction Evaluation Group
 - Flight Standards
 - Airports Division
 - ✓ This tiered response structure impacts the time it takes to complete the study and to issue the FAA determination
 - ✓ For projects without significant impact to flight procedures, FAA equipment and airport operations, a minimum of 45 business days should be anticipated



Time Lines for Coordination

➤ Coordination Time Lines by Project Type

- Initial Airspace Review needed 9 months prior to construction
 - ✓ Within Air Operations Area (AOA) at Towered Airports
 - ✓ Projects (including construction traffic) within 1000 FT of a VOR
 - ✓ Shutdown of NAVAIDs, or other equipment impacting flight procedures
 - ✓ Installation of non-Fed navigational aids such as AWOS, PAPI, REILS, etc
 - ✓ Impacts to Part 77 surfaces or Air Traffic Control Tower line of sight
 - ✓ Closure or partial closure of runways, taxiways and temporary closure of airport



Time Lines for Coordination

- Initial Airspace Review needed 2 years prior to Construction:
 - ✓ Runway and Taxiway projects with instrument approaches (including circling approaches) that may need procedure amendment or revision
 - ✓ Runways with existing approach procedures or requires new procedures when the runway threshold is moved more than 50 Feet longitudinally, 10 Feet laterally, or 3 Feet vertically
 - ✓ If AGIS survey data is needed to develop new or modified procedures
 - ✓ If a reimbursable agreement may be required
 - ✓ Work that may impact underground cabling to Federally owned or maintained equipment and facilities
 - ✓ Change in configuration of the Air Traffic Control Tower cab



Time Lines for Coordination

- Initial Airspace Review needed 3 years prior to Construction:
 - ✓ Construction of new runway
 - ✓ Construction of new airport
 - ✓ Moving a VOR



Obstruction Lighting Outage

- A top light or flashing obstruction light, regardless of its position
- Light outage lasting more than (30) thirty minutes
- Report immediately by calling **877- 487- 6867**, for Alaska 800-478-3576, so a Notice to Airmen (NOTAM) can be issued.



Obstruction Lighting Outage

When reporting, please have available:

1. The type of structure
2. Location of structure (including latitude/longitude, if known, prominent structures, landmarks, etc...)
3. Height of structure above ground level (AGL)/above mean sea level (AMSL), if known
4. A return to service date
5. FCC Antenna Registration Number (if available)

Additional Information: <https://oeaaa.faa.gov/oeaaa>



Questions??

