

Aerobatic Training Area

National Flight Data Center
(NFDC)

Presented to: Aeronautical Charting
Forum

By: Michael Wallin

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Federal Aviation
Administration



Authoritative Source

The regulatory authority for the issuance of waivers of Title 14 of the Code of Federal Regulations (14 CFR) part 91 for aerobatic practice areas and aerobatic contest boxes is based on the authority vested in the Department of Transportation (DOT) by Title 49 of the United States Code (49 U.S.C.). The regulations contained in part 91 are actually the responsibility of AT control (ATC). However, certain portions of these regulations have been delegated to the Flight Standards Service for oversight and enforcement in accordance with FAA Order JO 7210.3, Facility Operation and Administration, Part 6, Chapter 18, Paragraph 18-1-3. Even though the mandate to designate and supervise operations within waived airspace is within Flight Standards purview, all airspace waivers are fully coordinated with AT to ensure safety of flight in the National Airspace System (NAS) and may be issued up to, but may not exceed, 24 calendar-months. Requests for waivers and authorizations are processed by the appropriate local Flight Standards District Office (FSDO). The final approval of the waiver or authorization is the responsibility of the FSDO manager who has jurisdiction over the geographic area in which the terms of the waiver or authorization are to be exercised.



Authoritative Source for Aerobatic Training Areas (ATA)



- AFS-800 is responsible for reviewing and coordination of waivers for ATAs.
- The waiver process begins with the completion of FAA Form 7711.2 through the local FSDO
- Applicants need to apply 120 days in advance of ATA activity and the review/approval process takes approximately 90 days including the environmental impact study
- The approval is valid for two years and requires reapplication after two years



Long Term ATAs

- ATAs are considered long term when activity is at least 30 days in duration
- AFS-800 maintains a list of all approved long term ATAs
- Currently 165 approved long term ATAs
- NOTAMs are issued when ATAs are not long term (i.e., airshow)
- Annually there are approximately 10-15 new long term areas and 5 decommissioned long term areas



 <p>US Department of Transportation Federal Aviation Administration</p> <p>APPLICATION FOR CERTIFICATE OF WAIVER OR AUTHORIZATION</p>		From Approved: O.M.B. No.2120-0027 10/31/2015	
		APPLICANTS - DO NOT USE THESE SPACES	
Region Northwest Mountain		Date 09/25/2013	
Action <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved - "Explain under "Remarks" Signature of authorized FAA representative 			
INSTRUCTIONS			
Submit this application in triplicate (3) to any FAA Flight Standards district office. Applicants requesting a Certificate of Waiver or Authorization for an aviation event must complete all the applicable items on this form and attach a properly marked 7.5 series Topographic Quadrangle Map(s), published by the U.S. Geological Survey (scale 1:24,000), of the proposed operating area. The map(s) must include scale depictions of the flightlines, showlines, race courses, and the location of the air event control point, Police dispatch, ambulance, and fire		fighting equipment. The applicant may also wish to submit photographs and scale diagrams as supplemental material to assist in the FAA's evaluation of a particular site. Application for a Certificate of Waiver or Authorization must be submitted 45 days prior to the requested date of the event. Applicants requesting a Certificate of Waiver or Authorization for activities other than an aviation event will complete items 1 through 10 only and the certification, item 17, on the reverse.	
1. Name of organization N/A		2. Name of responsible person Johnny Rocket	
3. Permanent mailing address 1234 Inverted Way	City Cloud City	State and ZIP code US 12345	Telephone No. 406-555-1212
4. State whether the applicant or any of its principal officers/owners has an application for waiver pending at any other office of the FAA. N/A			
5. State whether the applicant or any of its principal officers/owners has ever had its application for waiver denied, or whether the FAA has ever withdrawn a waiver from the applicant or any of its principal officers/owners. N/A			
6. FAR section and number to be waived 14 CFR 91.117 (b) 91.121(a), 91.303(c), 91.303(d), 91.303(e)			
7. Detailed description of proposed operation (Attach supplement if needed) Aerobatic Practice Area. The operations within the defined area of operation include aerobatic maneuvers from the surface to 9500 AGL.			
8. Area of operation (Location, altitudes, etc.) See Attachment 1			
9a. Beginning (Date and hour) 10/25/2013 08:00:00 MDT UTC -6		b. Ending (Date and hour) 10/25/2015 18:00:00 MDT UTC -6	
10. Aircraft make and model (a)	Pilot's Name (b)	Certificate number and rating (c)	Home address (Street, City, State) (d)
Extra 300L	Johnny Rocket	123456789	1234 Inverted Way
Swift S-1 Glider	Johnny Rocket	123456789	1234 Inverted Way
Extra 330	Johnny Rocket	123456789	1234 Inverted Way

Long Term APA L4 Instructor 7711-2

Long Term Aerobatic Practice Area: Four Corners Scenario

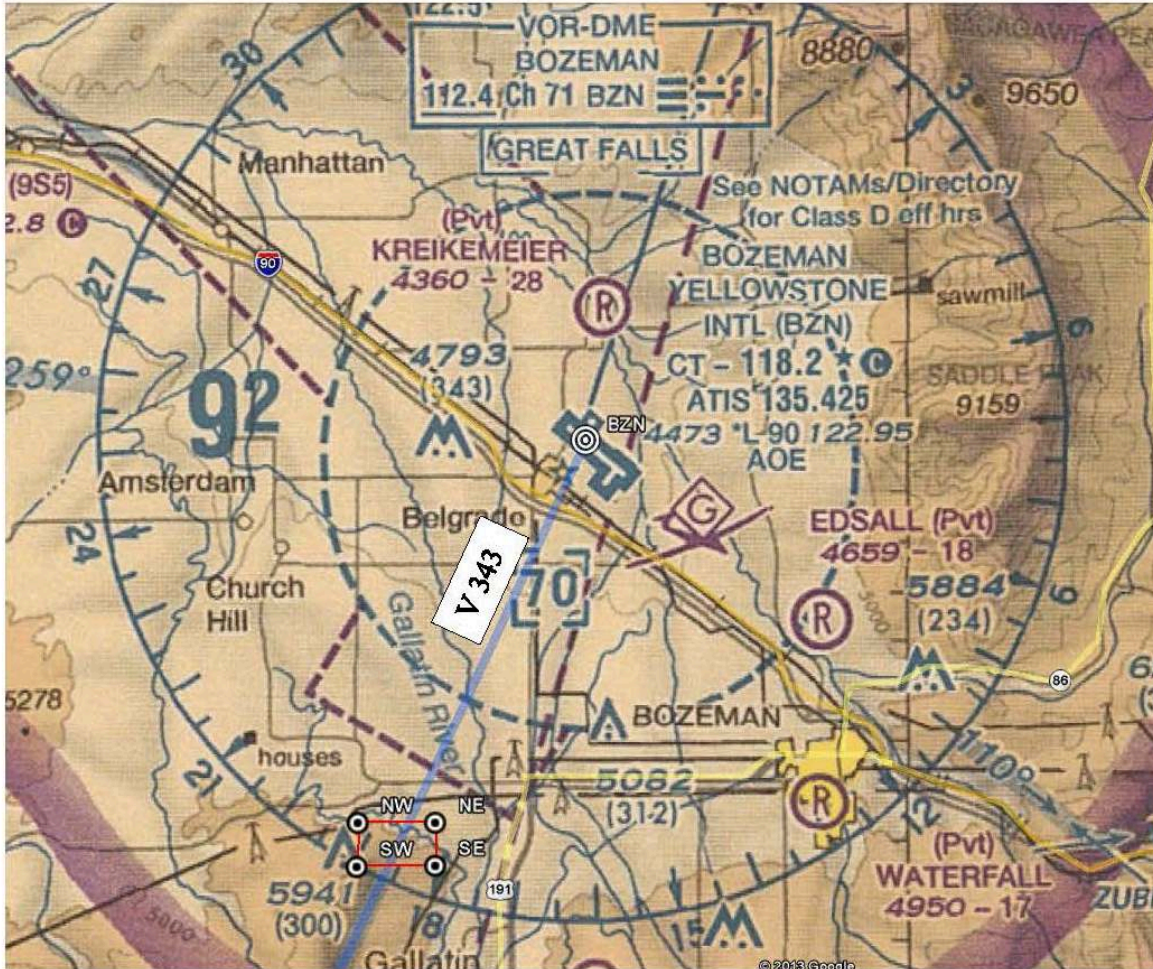
Johnny Rocket has requested an aerobatic practice area over his ranch near Bozeman, MT for 36 months from October 25, 2013 to October 25, 2016. The aircraft listed on the application include two powered aircraft that exceed 200 KIAS.

Sample FAA Form 7711.2 Application for Certificate of Waiver or Authorization

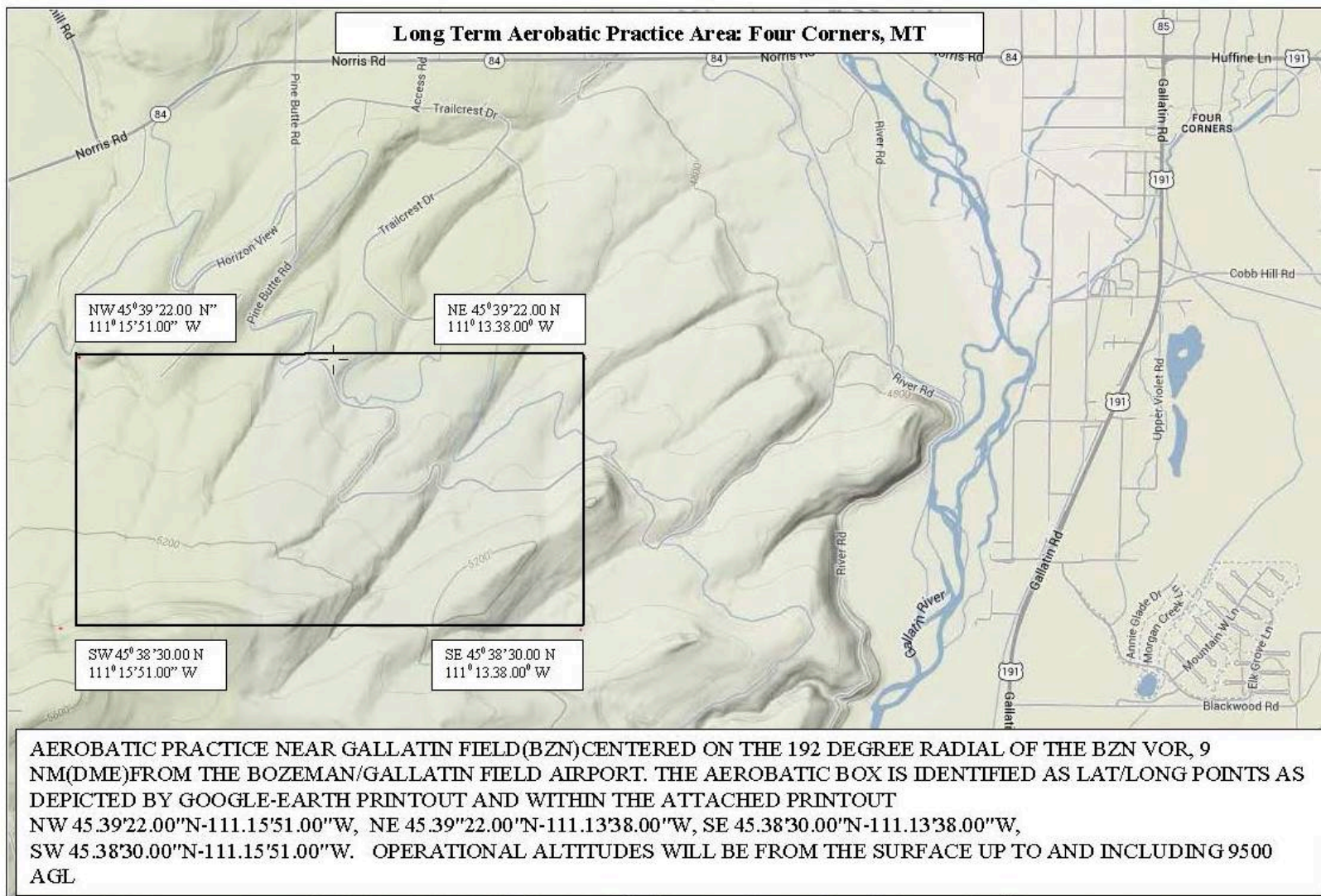


Long Term APA L4 Instructor 7711-2

Example of Google Earth Using a Sectional Overlay



Long Term APA L4 Instructor 7711-2



Long Term APA L4 Instructor 7711-2



Recommended Criteria for Charting

- NFDC met with Susan Gardner, National Aviation Events Specialist (AFS-800) and the following recommendations were made:
- Chart long term ATA areas on Sectionals
- Create a separate section in the A/FD similar to parachute jumping activity, standardize data criteria
- Standardize and include a note in the A/FD airport entry

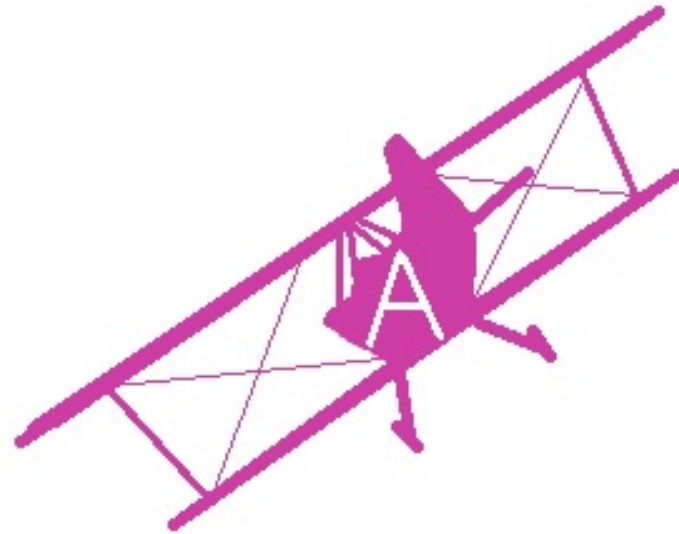
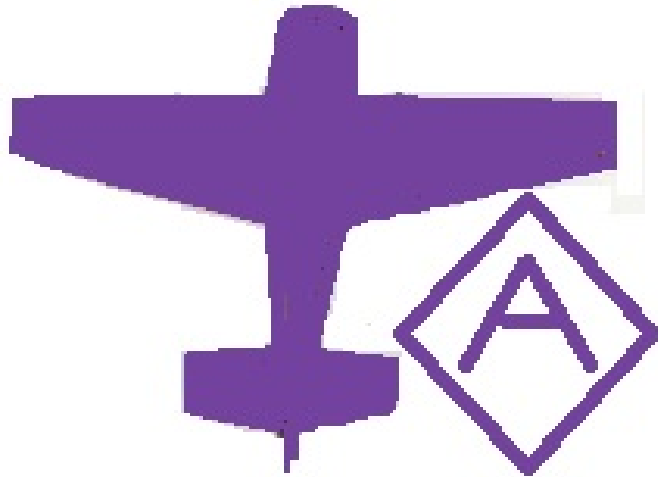


Criteria for Charting

- NFDC will coordinate with AFS-800 to collect the following data for charting upon approval:
- FAA identifier of associated airport (90% are associated with smaller airports)
- Latitude and longitude or distance from VOR or point to point description of area
- Maximum and minimum altitude (MSL)
- Special remarks (i.e., 3 NM radius around airport)



Examples of Proposed Chart Symbols



Potential Issues

- NFDC will need to enhance NASR to accept this data, 12-18 month timeframe after management and budget approval
- Sectional charts are printed every six months so possible lag with charting but information could be in the A/FD the next cycle
- The existing areas may need further research to obtain recommended data for charting and publication in the A/FD
- There will be a catch-up period to get existing areas charted and in the A/FD
- AFS-800 assumes all responsibility for maintaining these ATAs and notifying NFDC when an area is deleted, revised or added



Future FAA Order in Progress

- JO 7900.3A, *National Flight Data Center Aeronautical Data Reporting Requirements for Airspace Boundaries, Air Traffic Control Routes and Special Activity Airspace to Support the National Airspace* (est. publication Spring 2015)
- Order will standardize requirements and provide digital forms for special activity areas such as parachute jumping, gliders, hang gliders, ultralight, aerobatic training, flight training, spaceports, unmanned aircraft systems.



Questions

