



U.S. Department
of Transportation
**Federal Aviation
Administration**

FAA Form 5100-138, Data Requirements for an Office of Airports Automated Weather Observation System (AWOS) Benefit Cost Analysis (BCA)

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Data Requirements for an Office of Airports Automated Weather Observation System (AWOS) Benefit Cost Analysis (BCA)

Airport Name:

LOCID:

Airport Asset Category (from the latest copy of Federal Aviation Administration (FAA) "General Aviation Airports: A National Asset" or National Plan of Integrated Airport Systems (NPIAS) Report, whichever is most recent):

Preparer's Contact Information

Name:

Address:

Telephone:

Fax:

Email:

Data Requirements

1. Type of AWOS with all features (e.g., AWOS III-PT):
2. First month and year of operation: Month: Year:
3. Percent share of General Aviation (GA) operations operating in Instrument Flight Rules (IFR) conditions at airport: %
4. Standard Instrument Approach Procedure(s) (SIAP)
(or if in FAA queue to be published, provide estimated publication date)

| Description | | SIAP 1 | SIAP 2 | SIAP 3 | SIAP 4 |
|---|------------------|--------|--------|--------|--------|
| Type of Published SIAP | | | | | |
| Runway End | | | | | |
| Runway Length (ft.) | | | | | |
| Share of operations using each SIAP (%). (Provide best estimate) | General Aviation | % | % | % | % |
| | Air Taxi | % | % | % | % |
| | Air Carrier | % | % | % | % |
| | Military | % | % | % | % |
| SIAP Ceiling Minima (ft.). Source: | Without AWOS | | | | |
| | With AWOS | | | | |
| SIAP Visibility Minima (Statute Miles). Source: | Without AWOS | | | | |
| | With AWOS | | | | |

5. Equipment and construction costs of proposed AWOS

- a. Design and consulting fees: \$
- b. Land acquisition (if applicable): \$
- c. Site improvements including utilities: \$
- d. AWOS equipment: \$
- e. Installation/construction: \$

6. Recurring annual costs

- a. Annual Operations and Maintenance (O&M) costs, including replacement parts:
\$
Justification (if costs are below \$5,500 annually):
- b. Annual third party cost upload AWOS data to FAA National Airspace Data Interchange Network (NADIN) (required for all AWOS IIIs):
\$
- c. Annual cost for the FAA to conduct inspection of the AWOS III depends on the following factors. Which best applies (choose one)?

Airport has other non-federal facilities that require annual inspection

Airport does not have other non-federal facilities requiring annual inspection

The AWOS will be installed in a remote location without direct access

7. Location (city/state), LOCID, equipment type and distance (NM) of three nearest FAA/National Weather Service (NWS) contract surface observation stations.

| | Location (city/state) | LOCID | AWOS Type | Distance (NM) |
|----|-----------------------|-------|-----------|---------------|
| 1. | | | | |
| 2. | | | | |
| 3. | | | | |

8. Current and forecast operations

Source:

| Type | Current | +5 years | +10 years | +15 years |
|------------------------------|---------|----------|-----------|-----------|
| Air Carrier | | | | |
| Air Taxi | | | | |
| Military | | | | |
| General Aviation (itinerant) | | | | |
| General Aviation (local) | | | | |

- a. Percent of operations for business travel (non-military): %
- b. Percent of operations for personal/recreational travel (non-military): %

9. Percent General Aviation operations by aircraft category

- a. Piston engine airplanes 1 to 3 seats (≤ 200 hp): %
- b. Piston engine airplanes 1 to 3 seats (> 200 hp): %
- c. Piston engine airplanes 4 to 9 seats one-engine (≤ 200 hp): %
- d. Piston engine airplanes 4 to 9 seats one-engine (> 200 hp): %
- e. Piston engine airplanes 4 to 9 seats multiengine: %
- f. Piston engine airplanes 10 or more seats: %
- g. Turboprop airplanes 1 to 9 seats one-engine: %
- h. Turboprop airplanes 1 to 9 seats multiengine: %
- i. Turboprop airplanes 10 to 19 seats: %
- j. Turboprop airplanes 20 or more seats: %
- k. Turbojet/Turbofan airplanes $\leq 12,500$ lbs.: %
- l. Turbojet/Turbofan airplanes $> 12,500$ lbs. and $\leq 65,000$ lbs.: %
- m. Turbojet/Turbofan airplanes $> 65,000$ lbs.: %
- n. Rotorcraft piston $\leq 6,000$ lbs.: %
- o. Rotorcraft turbine $\leq 6,000$ lbs.: %
- p. Rotorcraft piston $> 6,000$ lbs.: %
- q. Rotorcraft turbine $> 6,000$ lbs.: %
- r. Other: %

10. Percent Air Taxi operations by aircraft category

- a. Piston engine airplanes 1 to 3 seats (≤ 200 hp): %
- b. Piston engine airplanes 1 to 3 seats (> 200 hp): %
- c. Piston engine airplanes 4 to 9 seats one-engine (≤ 200 hp): %
- d. Piston engine airplanes 4 to 9 seats one-engine (> 200 hp): %
- e. Piston engine airplanes 4 to 9 seats multiengine: %
- f. Piston engine airplanes 10 or more seats: %
- g. Turboprop airplanes 1 to 9 seats one-engine: %
- h. Turboprop airplanes 1 to 9 seats multiengine: %
- i. Turboprop airplanes 10 to 19 seats: %
- j. Turboprop airplanes 20 or more seats: %
- k. Turbojet/Turbofan airplanes $\leq 12,500$ lbs.: %
- l. Turbojet/Turbofan airplanes $> 12,500$ lbs. and $\leq 65,000$ lbs.: %
- m. Turbojet/Turbofan airplanes $> 65,000$ lbs.: %

- d. Any other information that justifies an AWOS (e.g., Does the airport have unique operations with a specialized contribution to the national system? If so, what are the economic impacts for flights not accommodated due to not having the proposed AWOS at the airport)?

13. Coordination. Has the Sponsor or Airports District Office (ADO):

- a. Coordinated the installation of the proposed AWOS with the Service Center Non-Federal Program Implementation Manager (PIM)?
Yes No
- b. Coordinated the installation of the proposed AWOS with the Spectrum Engineering Services Group (AJW) per FAA Order 6050.32, *Spectrum Management Regulations and Procedures Manual* (current version)?
Yes No
- c. Explained the Sponsor's proposed arrangements to upload the AWOS III data to NADIN per the requirements of AC 150/5220-16, *Automated Weather Observing Systems (AWOS) for Non-Federal Applications* (current version)?
Yes No
- d. Acknowledged that the Sponsor is aware that they are required to have the AWOS properly commissioned and must operate and maintain AWOS equipment during its life cycle per the current versions of FAA Order 5100.38, *Airport Improvement Program (AIP) Handbook*, and FAA Order 6700.20, *Non-Federal Navigational Aids, Air Traffic Control Facilities, and Automated Weather Systems*?
Yes No
- e. Acknowledged that the Sponsor submitted a FAA Form 7460 for the proposed installation/construction of the AWOS?
Yes No

Resources

Additional information and requirements regarding the installation, frequency, commissioning and NADIN requirements can be found in FAA AC 150/5220-16, *Automated Weather Observation Systems (AWOS) for Non-Federal Applications* (current version).