

About Surface Analysis and Visualization

The Surface Analysis and Visualization tool is a part of the Federal Aviation Administration's (FAA) Airports Geographic Information Systems (Airports GIS) application. This tool evaluates AIRNAV data to find and display object penetrations of airport surfaces. Use this tool to analyze 20:1 surface for each runway at your airport and then view object penetrations. You can identify the amount by which an object penetrates a surface, validate or invalidate the penetration, assess the risk associated with each penetration, identify mitigations, and generate detailed surface penetration reports. This user guide helps airport owners and their associated personnel understand how to use this tool.

Important: This tool does not evaluate for:

- Offset approach conditions
- Excessive Decision Altitude
- Approaches with Visual Descent points outside 10,000 feet (1.654 NM)

Airport sponsors or owners will receive specific guidance from the FAA Flight Procedures Team (FPT) on objects requiring mitigation for any of the above-listed situations.

Launching Surface Analysis and Visualization and Setting Penetration Surfaces to Analyze

The Surface Analysis and Visualization tool lets you analyze and verify penetrations of 20:1 surface at your airport. After you log in to Airports GIS, you will launch the Surface Analysis and Visualization tool, choose your airport, and specify runway ends to analyze for 20:1 surface penetrations.

Accessing your airport

1. Log in to Airports GIS as Airport Sponsor.
2. On the Airports GIS Home page, click Surface Analysis and Visualization.

Surface Analysis & Visualization (SAV)

Surface Analysis & Visualization

Message pops up with the disclaimer. Read the disclaimer and click Accept.

Welcome to the Surface Analysis and Visualization Support Tool. While we anticipate that this tool will assist you with the vast majority of your surface penetration inquiries, please acknowledge your understanding that the tool does not evaluate all possible conditions.

Specifically, this tool does not evaluate for:

- Offset approach conditions
- Excessive Decision Altitude
- Approaches with Visual Descent points outside 10,000 feet (1.645 NM)

This application only depicts objects known to the FAA to exist. There may be other objects penetrating the surface and it is incumbent on the sponsor to validate the affect of all objects surrounding their airport.

Note: Due to recent SAV improvements and the release of FAA's Obstacle Authoritative Database, penetrations listed may not be correct. To ensure you have the most current information your data will need to be reloaded. To request a data reload please submit a helpdesk ticket through Airports GIS.

Accept

The system displays the Surface Analysis and Visualization – Airport Selection page.

3. Enter the Airport identifier and select from the drop down.

Surface Analysis and Visualization - Airport Selection

Choose Airport:

[Submit](#)

[Go to Airports GIS Home](#)

4. Click Submit.

SAV dashboard is displayed with Airport, Visualization, Verification, Compliance Plan, Mitigation Summary and Notes tabs.

All the tabs except Airport are locked as runway ends are not submitted for SAV analysis.

Summary

Airport Y23 CHETEK MUNI-SOUTHWORTH

City CHETEK, WI

Runway 07 Add all runways Add

Summary

Details

There are no submitted runways to analyze

Submit Back

My SAV Dashboard Export

Sponsor / Consultant

- View Airport Sponsor
- View Assigned Consultant
- View/Modify Consultant Delegation

5. Click on View Airport Sponsor from Airport tab to view sponsors assigned to the airport

First Name	Last Name	Email	Phone No
Demo	Sponsor	demoairportponsor@test.com	123-456-7890

[Close](#)

6. Assign a consultant to work on SAV by clicking on View/Modify Consultant Delegation. Click Add filter, enter search criteria and click Apply Filter to narrow the results.

Assigned to Airport

Available Consultants

Records 1 to 1 of 1 - Remove Filter

Last Name	First Name	Org Name	Phone	Email
Demo	Consultant	test.org	123-456-7890	democonsultant@test.com

Apply Filter Enter text in any column above and click Apply Filter.

7. Click on Last name of the user and consultant is added to the airport to perform SAV analysis.

Assigned to Airport

Available Consultants

Records 1 to 30 of 2963 +Add Filter

Last Name	First Name	Org Name	Phone	Email
Demo	Consultant	test.org	123-456-7890	democonsultant@test.com

8. Click on Airport tab and click View Assigned Consultant for the airport.

Surface Analysis and Visualization - Airport

Visualization Verification Compliance Plan Mitigation Summary

First Name	Last Name	Email	Phone No
Dario	Consultant	democonsultant@aast.com	123-456-7890

Close

Summary

Alert: Only 20-1 surface will be analyzed

Airport: 123 CHETEK, MIAS-SOUTHWORTH

City: CHETEK, MI

Runway: DT Add all runways Add

Dashboard





There are no submitted runways to analyze

Submit Back

Utilities

Data can be exported to CSV from Utilities section.

Utilities

-  [Export Verification](#)
-  [Export Compliance Plan](#)
-  [Export Mitigation Summary](#)
-  [Show Transactions](#)