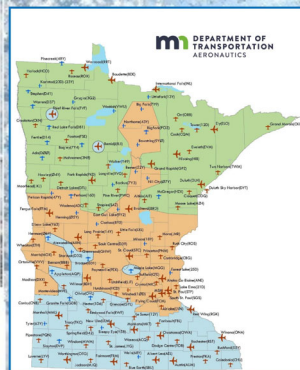


## Minnesota Airports Conference 2024 – MnDOT Update

Ryan Gaug | Aeronautics Director  
Kirby Becker | Aeronautics Assistant Director  
Mike Hartell | Aeronautics Assistant Director

### Meet your Aeronautics Leadership, Operations, Development, and Planning Staff



**Wednesday, April 24<sup>th</sup>**  
**5:00–6:30 pm**  
Ryan Gaug—Director  
Mike Hartell—Assistant Director  
Kirby Becker—Assistant Director

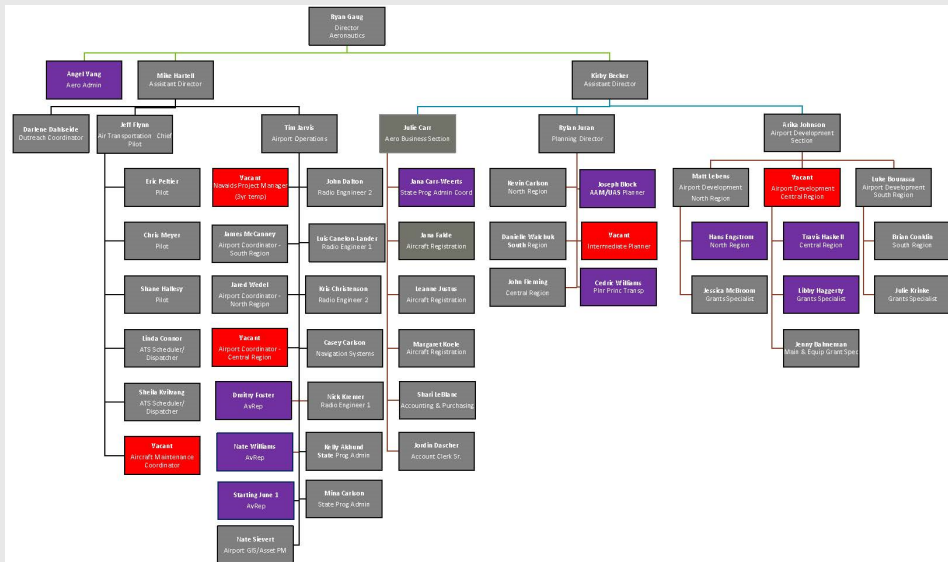
**Thursday, April 25<sup>th</sup>**  
**1:00 - 1:30 pm**  
**Central Region**  
John Fleming  
Travis Haskell  
Tim Jarvis

**Thursday, April 25<sup>th</sup>**  
**2:15 - 2:45 pm**  
**South Region**  
Luke Bourassa  
Brian Conklin  
Jim McCanney

**Thursday, April 25<sup>th</sup>**  
**3:45 - 4:15 pm**  
**North Region**  
Kevin Carlson  
Hans Engstrom  
Jared Wedel



# Aeronautics Staff - 2024



## Legislative Update

## 2024 Airport Bonding Bills

Amount	Airport	Description
\$500K	Little Falls / Morrison County Airport	Hangar renovation
\$3.0M	Thief River Falls Regional Airport	Cargo hangar
\$3.0M	Rochester Airport	Airport parking solar array; and electric vehicle charging station
\$3.386M	Redwood Falls Municipal Airport	Design, construct, and equip improvements to the airport; reconstruction of RWY 12/30, taxi lanes, apron; replacement of runway lighting system; and installation of stormwater management system
\$3.9M	St. Cloud Regional Airport	Install new approach lighting and relocate instrument landing systems for RWY 31
\$5.0M	Airport Infrastructure Renewal (AIR) Grant Program	Program is created to provide grants to counties, airport authorities, or cities to keep or enhance jobs in the area, increase the tax base, or expand or create new economic development.
\$6.5M	Hutchinson Airport	Civil Air Patrol hangar and training center
\$7.7M	Karlstad Airport	Airport relocation / construction
\$9.0M	Hangar Construction Revolving Account	Allow to finance more aircraft hangar building construction projects throughout MN
\$10.0M	Rural Airport Program Funding	Non-NPIAS Capital projects
\$14.0M	Duluth International Airport	Airport Capital Improvement to include new air traffic control tower with various spaces for equipment, workspaces, logistic support, and office space

PFAS

## What and where is PFAS?



## Minnesota State Law

- Per Minnesota Statute 325F.072 – “... no person shall use in this state, class B firefighting foam containing PFAS chemicals.”
  - (c) This subdivision does not apply to the manufacture, sale, distribution, or use of class B firefighting foam for purposes of use at an airport until the state fire marshal makes a determination that:
    - FAA has provided policy guidance on the transition
    - AFFF is included in the FAA’s Qualified Product Database
    - Firefighting foam product included in the database is commercially available in quantities sufficient to reliably meet requirements
    - Airport operators using foam containing PFAS chemicals must, on or before December 31 each calendar year, submit a report to the state fire marshal.

## PFAS Transition Team

- Goal – help Minnesota airports transition to Fluorine Free Firefighting (F3) foam
- Participants: Local Air Service Action Committee (LASAC) airports, Minnesota Council of Airports, Metropolitan Airports Commissioner (MAC), MPCA, Delta, American Association of Airport Executives (AAAE), and the Department of Public Safety (DPS), which includes State Fire Marshall, AirTAP
- 4 meetings from Fall 2023 – Spring 2024
  - Variety of speakers, e.g., Jackson Hole Airport, Michigan PFAS Action Response Team
  - Tour of Delta hangers (8 total at MSP)

## Still Unanswered Questions

- For decades airports have been required by FAA to use PFAS foams to maintain operating certifications
- Foam transition is not mandated at a federal level
- Limited commercial availability of PFAS-free foams
- Current PFAS-free foams don't perform as well and require more product
- No definitive standard for decontaminating equipment that previously used PFAS foams
- Airport liability is a major concern
- Will need to collect and dispose of old foam (coordination?)
- Unclear who will pay for the high cost of transition
- Policies/guidance, foam chemistry, and equipment are evolving



## Statewide Transition Cost Estimates

- Assumes worst-case scenario where all aircraft rescue and firefighting (ARFF) vehicles must be replaced
- Several large firefighting systems at MSP will need decontamination/replacement - no cost estimate available
- Gathering data on cost to collect and dispose of discharge water from regular testing of airport firefighting systems pre-transition.

Category	Total	Cost Estimate
Disposal of existing AFFF stocks	11,375 gal.	\$1,600,000
Purchase of F3	17,880 gal.	\$715,000
Vehicle Replacement	19 vehicles	\$16,710,000
Equipment and Infrastructure		>\$960,000
<b>Total</b>		<b>&gt; \$19,985,000</b>

## Next Steps

- Next transition team meeting – June or July 2024
- *White Paper – under development*
  - Documents PFAS transition team process and what has been learned to date
  - Includes background about the federal and state agency regulations
  - Outlines PFAS transition constraints and considerations
- Follow any updated policy, guidance, research
  - E.g., future federal and state legislation



## Economic Impact Study – Pilot Project



## Background

### Why are we doing this?

- Continued interest in community and economic impacts of local airports
- Last study completed in 2019
- Question as to whether changes from COVID and recent inflation, and other economic changes have affected accuracy of 2019 study

### Selected Airports

- Granite Falls
- Mankato
- Roseau

### Granite Falls and Mankato site visits on Feb 15

### Quantitative data requested:

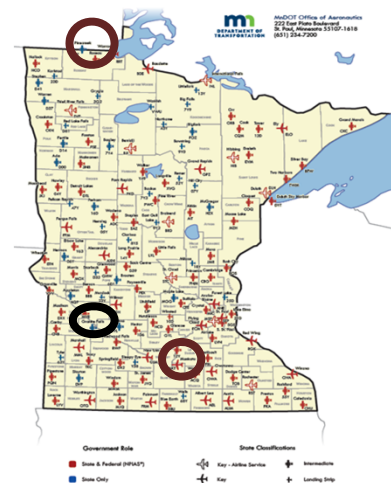
- Employment, capital spending, aircraft estimates, other economic data

### Qualitative data requested:

- Major users, travel trends, perceived changes, existing and/or future challenges

### Anticipate Roseau Interview in the Spring

### Minnesota's Airports



## Case Studies

Each airport has an important story and makes important impacts on the community

### Granite Falls

- Business uses have maintained through covid
- UPS airport hub which is a large asset to the community
- No federal funding support
- Highlighted the importance of Fagen's financial support
- Greatly supported by the community

### Mankato

- Dramatic changes since 2019
- The second busiest airport in MN
  - 76-80 operations a day
- Main services
  - Training, corporate, and private
- Tower expected in 2027
- Jet runway
  - Often utilized by NetJets



<http://www.fagenfighterswiimuseum.org/aircraft/sr/sr.html>



Photo: Audrey Clark, University of Minnesota

## Next Steps

### Visit with Roseau

#### Run the MnDOT economic impact calculator

- Analyze changes
- Determine how well it handles changes compared to collected airport data
- Consider impact changes
  - Inflation
  - Pandemic

#### Is a new study needed?

- North Carolina publishes an update every 2 years
  - Is this desirable in Minnesota?



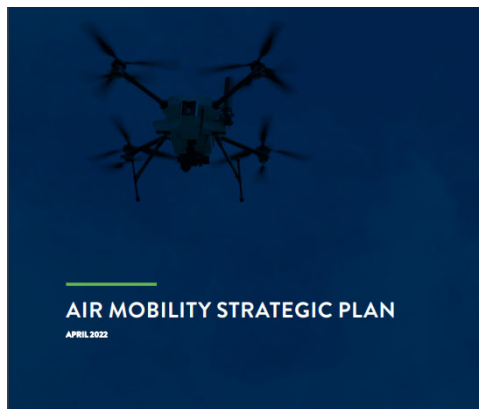
Roseau Municipal Airport - Rudy Billberg Field





## Advanced Air Mobility

**m** DEPARTMENT OF  
TRANSPORTATION  
AERONAUTICS



**m** DEPARTMENT OF  
TRANSPORTATION  
AERONAUTICS

# Current State of Advanced Air Mobility

It's Closer Than You Think

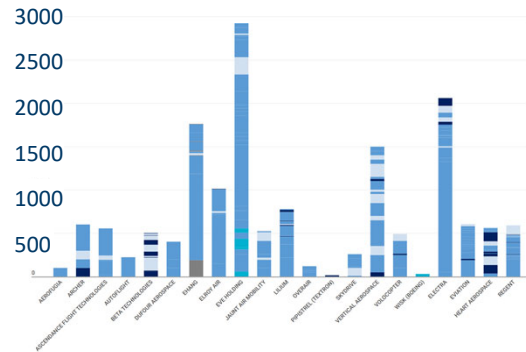
## Entry Into Service

- Three aircraft expected to be certified by 2025 timeframe in the U.S:
  - Beta Technologies CX300 (eCTOL)
  - Joby Aviation S-4 (eVTOL)
  - Archer Aviation Midnight (eVTOL)

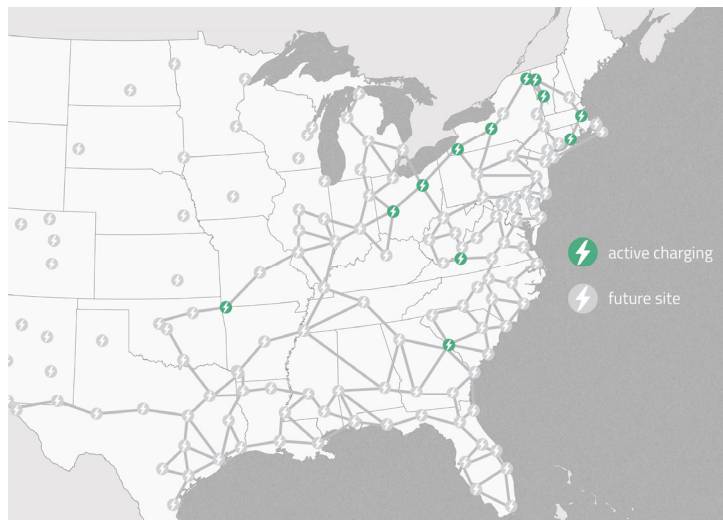
## Benefits

- Electricity is ~40x cheaper than JetA
- Electric aircraft maintenance is ~33% cheaper
- ~70% fewer parts than similar-sized aircraft
- Zero operating emissions
- ~45 dBA in cruise (1,600 ft.) and ~65 dBA at takeoff and landing (see figure below)

**AAM Aircraft Firm and Non-Firm Orders**  
~15,500 aircraft orders



# Future Electric Aircraft Charging Station Projects



Beta publicly disclosed future charging station sites

Note there are several MN locations

## Want to Learn More?

**Thursday, April 25th 4:45 – 5:15pm**

### **General Session: Advanced Air Mobility 101**

Hear from our new Advanced Air Mobility (AAM) Program Manager  
Learn more about what exactly AAM is, the different types of AAM  
aircraft, primary drivers for the industry, and some of the steps MnDOT  
is taking to plan for these aircraft

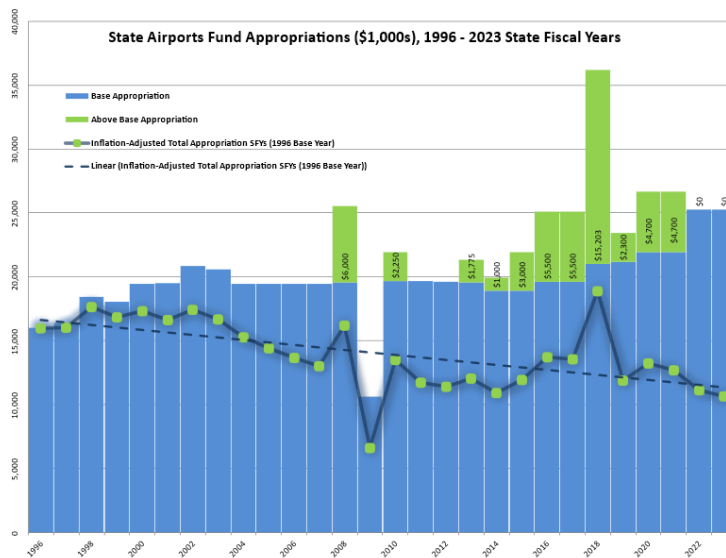
## Aviation Tax Report

# Aviation Tax Report

## 360.675 AVIATION TAX REPORT.

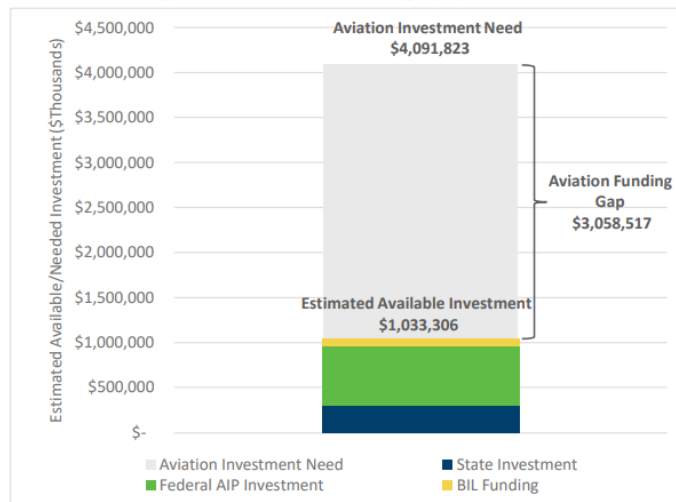
On or before June 30, 2016, and every four years thereafter, the commissioner of transportation, in consultation with the commissioner of revenue, shall prepare and submit to the chairs and ranking minority members of the senate and house of representatives committees with jurisdiction over transportation policy and budget, a report that identifies the amount and sources of annual revenues attributable to each type of aviation tax, along with annual expenditures from the state airports fund, and any other transfers out of the fund, during the previous four years. The report must include draft legislation for any recommended statutory changes to ensure the future adequacy of the state airports fund.

## Draft: Inflation adjusted appropriation



## MnSASP Aviation Funding Gap

Figure 4.24. Minnesota Aviation Funding Gap by 2030



Sources: MnDOT Aeronautics, 2021; Kimley-Horn, 2022; FAA, 2022; MAC, 2022

## Statewide Airport Economic Impact: \$18.2 Billion

ANNUAL TOTALS	STUDY AIRPORTS	MAC AIRPORTS	TOTAL STATEWIDE
Employment	13,147	80,890	94,037
Payroll	\$570.1 million	\$3.9 billion	\$4.4 billion
Spending	\$1.0 billion	\$12.8 billion	\$13.8 billion
Annual Economic Activity	\$ 1.6 billion	\$16.6 billion	\$18.2 billion

<b>OVER 94,000 JOBS</b>	<b>\$4.4B ANNUAL PAYROLL</b>	<b>\$13.8B ANNUAL SPENDING</b>	<b>\$18.2B ANNUAL ECONOMIC ACTIVITY</b>
-------------------------	------------------------------	--------------------------------	---

## Next Steps

- Tax Report finalized and sent to legislature, by June 30
- Summer 2024 – Aviation Funding Workshops

### SAVE THE DATE

#### AEDS

#### AIRPORT ECONOMIC DEVELOPMENT SUMMIT

July 16, 2024 @ Duluth International  
Airport w/ Virtual Option  
12:00 Lunch  
12:30 Program Start

**MORE INFORMATION TO  
FOLLOW FOR REGISTRATION**

July 16, 2024  
Noon  
Duluth  
International Airport  
Lunch Provided

# We're Headed to EAA AirVenture 2024 – Oshkosh, WI

We are looking for airport partners!



See Darlene at the MnDOT Booth for more details

### Sign in to Your SYSTEM MANAGER

User Name:

Password:

[Forgot password](#) [Change password](#)

#### MNDOT AERONAUTICS STATE FUNDING PRIORITIZATION MODEL GUIDE

For MnDOT's Project Selection Policy, MnDOT Aeronautics is updating state funding prioritization to be as objective, transparent, and data-driven as possible. This policy is intended to reinforce Minnesota's GO recommendations and increase public understanding of MnDOT's project selection processes.

System Plan Alignment	Criteria	Category	Score
Open System Needs	Migrate Paved/RTD Pavement: If the airport has an additional Paved/RTD Pavement that is eligible to open to state classification AND the project is included in the selected plan.	Contract A/R/Other: Plan for the end of project issues is included in plan	10
		Request for proposal and contractor selection in process or pending	5
Reserve (Retain/Re-use)	Reserve (Retain/Re-use): Includes if the airport's Plan T/Pavement is a mix of Retain/Re-use per MnDOT's Airport Planning Requirements. Or the airport has an alternative retaining project request.	Submitted project will open classification Plan T/Pavement	10
		Airport has no observations in Part T/Pavement	5
Transportation Safety	Transportation Safety: Includes if the airport's Plan T/Pavement is a mix of Retain/Re-use per MnDOT's Airport Planning Requirements. Or the airport has an alternative retaining project request.	Observations identified in Part T/Pavement with no engineering fees	10
		Submitted project will open classification Plan T/Pavement	5
Clear Zones	Clear Zones: Evaluates if MnDOT defined clear zones are included in the airport's Plan T/Pavement. This is per MnDOT's guidelines for the Clear Zone Policy, implemented by the 2022 MSASP.	Submitted project will open classification Plan T/Pavement	10
		Submitted project will open classification Plan T/Pavement	5
Work Space	Work Space: Evaluates if the project is providing a percent condition deficiency per the MSASP defined condition report's reporting other existing project needs. If the project is providing other existing project needs, MnDOT Aeronautics is providing the information of existing project needs.	Submitted project will open classification Plan T/Pavement	10
		Submitted project will open classification Plan T/Pavement	5
Noise	Noise: Evaluates if the project is providing a percent condition deficiency per the MSASP defined condition report's reporting other existing project needs. If the project is providing other existing project needs, MnDOT Aeronautics is providing the information of existing project needs.	Submitted project will open classification Plan T/Pavement	10
		Submitted project will open classification Plan T/Pavement	5
Ready	Ready: Evaluates if the airport has proper zoning and other requirements for the project. This is evaluated as a MSASP performance metric in the MSASP Plan.	Submitted project will open classification Plan T/Pavement	10
		Submitted project will open classification Plan T/Pavement	5

## SEVEN CRITERIA ON A 100-POINT SCALE

80 Points: System Plan Alignment | 20 Points: MnDOT Priorities

The prioritization model is only considering state-only funding requests for MnDOT-defined capital expenditures.

Criteria	Category	Score
MnDOT Priorities	Aviation Revenue	20
	Business Development	10
	Security's Security	10
	Other	10
Other	Aviation Revenue	20
	Business Development	10
	Security's Security	10
	Other	10
	Aviation Revenue	10
	Business Development	10
	Security's Security	10
	Other	10
	Aviation Revenue	10
	Business Development	10
Security's Security	10	

## Airport Planning, Development, Finance, & Aircraft Registration

Kirby Becker  
Assistant Director





# Technology, Innovation & Process Improvements

- Development dashboard
- Project cost splits
- Credit app tracking and prompt payment
- Grant manual/grant management process improvements
  - More on Friday at “A Healthy SAF Keeps Airports Soaring” Session
- State companion grant language for federal amendments
- Project prioritization/scoring model
- Capital grants application using Formstack (equipment + SFY25 projects)
- Planning Dashboard (coming soon)
- Contact Manager Development
  - More on Thursday at “Beyond the MnSASP – Statewide Priorities” Session
- Aircraft registration system + enhancements – \$500K TMF award
- Grant management/CIP system – TMF proposal

# Development Dashboard

1	Regio	State/Fd	SP	Fed Proj. #	Agreement	Project Description	IDEN	Sponsor	Comments
	S	S	6103-22	N/A	1032643	Airport Zoning Ordinance Update	D32	Starbuck	4/12-RCvd copy will enter CA into ACE, not able to pay until Amend is fully executed. 4/11-signed agreement rcvd. & need to put into workflow once enc rcvd. 4/10-BC sent admin to sponsor for signature 4/4 - JAK sent email for copy of air-0234421, needs amendment & needs to be re-enum as expired 12/31/21
368	S	F	3701-89	3-27-0100-22-18	1032689	Reconstr. Aprons, Taxiways & Construct Perimeter Road	TVF	Thief River Falls	
370	S	F	3701-91	3-27-0100-23-19	1033279	Master Plan/ALP & Exhibit 'A' Update	TVF	Thief River Falls	Received Draft 5/12/2022 - 3/6/23 waiting on Tracy @FAA response
	S	F	3701-92	3-27-0100-23-20	1044868	ARFF Truck & Test Cart	TVF	Thief River Falls	
371	S	F	3701-93M	3-27-0100-26-21	1048200	RVVY-TAXI Lighting, Cargo Apron & Taxi Construction	TVF	Thief River Falls	4/21 Pmt #13 pdng appr
373	S	S	3701-93	N/A	1030620	2022 Airfield Crack Seal & Joint Repair	TVF	Thief River Falls	
374	S	S	3701-97	N/A	1032835	Airport Zoning Update	TVF	Thief River Falls	
375	S	F	4204-27	3-27-0102-13-21	1048313	Rehabilitate Runway 11/29 & Taxiway pavement.	TKC	Tracy	Sent to FAA 1/6/2023
376	S	S	4204-28	N/A	1048309	AVIOS relocation	TKC	Tracy	
	S	F	8101-30	3-27-0109-12-18	1032183	Remove Culvert & Replace with RCP	ACQ	Waseca	4/17-BC sent Final print report to Nate Willey. 3/29 - BC submitted Final print. Brian - 3/21 completed I&A/C form & returned amendment to workflow.
377	S	S	8101-31	N/A	1031099	Construct FBO Hangar	ACQ	Waseca	4/19 rcvd signed amend. 4/18-BC sent amend to sponsor. 4/12 BC sent email to sponsor to see if proj done.
378	S	S	8101-32	N/A	1032662	Airport Zoning Ordinance Update	ACQ	Waseca	Closed 4/17/2023
380	S	F	8101-34	3-27-0109-16-21	1048190	Hangar Design, Site Prep, Utility Constr.	ACQ	Waseca	
381	S	S	2209-13	N/A	1030907	Terminal (AD) Building and Maintenance Update	68Y	Vells	1.13.23 Making final print - sent to sponsor for approval/ sponsor approved 1.13.22
	S	F	1701-39	3-27-0113-13-19	1033160	T-Hangar construction	MVM	Windom	4/13-Brian sent email and COO reply to hangar. 4/13-BC will work on this per email and Kirby's request. 3/29 - BC will look at. Rec. copy of draft closeout report on 01/23/23 for MnDOT initial review.
382	S	F	1701-40	3-27-0113-14-20	1044689	Install New PAPIs RVVY 17/35 & Update MIRLs & Threshold Lights	MVM	Windom	3/29-BC will work on. BC put the draft copy of closeout report in the file on 10/14/22. Rec. signed closeout report on 12/19/22.
383	S	F	1701-42	3-27-0113-17-21	1048306	Pavement Maint. (Crack & Joint Seal) Apron & Taxiways + Hangar Access	MVM	Windom	3/29 - BC working on Rec. signed closeout report on 12/19/22
384	S	F	4204-28	3-27-0102-13-21	1048313				



# Project Cost Splits

Airport: Preston Fillmore County Airport  
 Sponsor: Fillmore County  
 UFI:  
 State Project: A2301-37  
 State Agreement #: 1053756  
 AIP Project: 3-27-0000-17-2023  
 Description: Airport Terminal Building BIL-ATP

<https://www.dot.state.mn.us/aero/airportdevelopment/forms.html>

Construction	Description	Covered Under	Total	Fund Rates				State	Local
				Fed	State	Federal	Local		
	Schedule A - Base Bid - Site Work (FAA Eligible 93.1% of \$326,772.00)	ATP	\$ 304,225.00	95%	5.0%	0.0%	\$ 289,013.75	\$ 15,211.25	\$ -
	Schedule A - Base Bid - Site Work (100% FAA Eligible)	AIG	\$ 106,593.00	90%	5.0%	5.0%	\$ 95,893.70	\$ 5,329.65	\$ 5,329.65
	Schedule B - Base Bid - Terminal Construction (FAA Eligible 93.1% of \$716,558.98)	ATP	\$ 667,118.00	95%	5.0%	0.0%	\$ 633,760.30	\$ 33,355.50	\$ -
	Alternate 1 - Interim Facility (100% FAA Eligible)	ATP	\$ 13,125.00	95%	5.0%	0.0%	\$ 12,468.75	\$ 656.25	\$ -
	Schedule A - Base Bid - Site Work (FAA In-Eligible 6.9% of \$326,772.00)	ATP	\$ 22,547.50		70.0%	30.0%	\$ -	\$ 15,783.25	\$ 6,764.25
	Schedule B - Base Bid - Terminal Construction (FAA In-Eligible 6.9% of \$716,558.98)	ATP	\$ 49,442.92		70.0%	30.0%	\$ -	\$ 34,610.09	\$ 14,832.89
	<b>CONSTRUCTION SUBTOTAL</b>		<b>\$ 1,163,049.48</b>				<b>\$ 1,031,176.40</b>	<b>\$ 104,946.29</b>	<b>\$ 26,926.79</b>
		ATP	\$ 1,056,456.48				\$ 995,242.00	\$ 99,616.99	\$ 21,597.49
		AIG	\$ 106,593.00				\$ 95,934.00	\$ 5,329.50	\$ 5,329.50
Engineering	Description	Covered Under	Total	Fund Rates				State	Local
	Engineering - Design Contract (93.1% Eligible of \$146,800)	AIG	\$ 136,670.00	90%	5.0%	5.0%	\$ 123,003.00	\$ 6,833.50	\$ 6,833.50
	Engineering - Construction Admin (93.1% Eligible of \$99,900)	AIG	\$ 93,006.00	90%	5.0%	5.0%	\$ 83,705.40	\$ 4,650.30	\$ 4,650.30
	Engineering - Design Contract (6.9% In-Eligible of \$146,800)	AIG	\$ 10,130.00		70.0%	30.0%	\$ 7,091.00	\$ 3,039.00	\$ -
	Engineering - Construction Admin (6.9% In-Eligible of \$99,900)	AIG	\$ 6,894.00		70.0%	30.0%	\$ 4,823.00	\$ 2,068.20	\$ -
	<b>ENGINEERING SUBTOTAL</b>		<b>\$ 246,700.00</b>				<b>\$ 206,708.40</b>	<b>\$ 23,400.60</b>	<b>\$ 16,591.00</b>
		ATP	\$ -				\$ -	\$ -	\$ -
		AIG	\$ 246,700.00				\$ 206,708.00	\$ 23,400.80	\$ 16,591.20
Administration	Description	Covered Under	Total	Fund Rates				State	Local
	FAA Admin Expenses (FAA Eligible 93.1% of \$13,500)	ATP	\$ 12,560.00	95%	5.0%	0.0%	\$ 11,939.60	\$ 628.40	\$ 0.00
	FAA Admin Expenses (FAA Ineligible 6.9% of \$13,500)	ATP	\$ 932.00		70.0%	30.0%	\$ -	\$ 652.40	\$ 279.60
	<b>ADMINISTRATION SUBTOTAL</b>		<b>\$ 13,500.00</b>				<b>\$ 11,939.60</b>	<b>\$ 1,280.80</b>	<b>\$ 279.60</b>
		ATP	\$ 13,500.00				\$ 11,939.60	\$ 1,281.10	\$ 279.90
		AIG	\$ -				\$ -	\$ -	\$ -
	<b>Total Project Request</b>		<b>\$ 1,423,249.48</b>				<b>\$ 1,249,823.00</b>	<b>\$ 129,628.39</b>	<b>\$ 43,798.09</b>
	<b>Total ATP Grant</b>		<b>\$ 1,069,956.48</b>				<b>\$ 947,181.00</b>	<b>\$ 100,808.00</b>	<b>\$ 21,877.39</b>
	<b>Percentages</b>						<b>88.53%</b>	<b>9.43%</b>	<b>2.04%</b>
	<b>Total AIG Grant</b>		<b>\$ 353,293.00</b>				<b>\$ 302,642.00</b>	<b>\$ 28,730.30</b>	<b>\$ 21,920.70</b>
	<b>Percentages</b>						<b>25.46%</b>	<b>8.33%</b>	<b>6.20%</b>
	<b>Total Grant Amounts</b>		<b>\$ 1,423,249.48</b>				<b>\$ 1,249,823.00</b>	<b>\$ 129,628.39</b>	<b>\$ 43,798.09</b>
	<b>Overall Share Percentages</b>						<b>87.81%</b>	<b>9.11%</b>	<b>3.08%</b>

# Credit App Tracking/Prompt Payment

Below are payments in Workflow::

Ident	Airport Name2	Region	Payment Type	SP#	Credit App Amount	Date Received	Route Slip Amount	Entered in Workflow	# of Days
FFM	Fergus Falls	Central	AIP	5601-53	\$356,217.08	2/15/2024	\$294,680.82	3/20/2024	64
HCD	Hutchinson	Central	AIP	4304-40	\$59,461.47	2/22/2024	\$49,075.97	2/27/2024	57
GYL	Glencoe	South	AIP	4301-34	\$37,173.00	2/27/2024	\$120,338.02	3/4/2024	52
ROS	Rush City	Central	AIG	1307-40	\$159,390.00	2/27/2024	\$151,420.50	2/28/2024	52
TKC	Tracy	South	AIG	4204-30	\$44,958.50	3/11/2024	\$42,709.93	3/13/2024	39
GYL	Glencoe	South	ATP	4301-37	\$311,921.26	3/14/2024	\$279,976.00	3/25/2024	36
GYL	Glencoe	South	AIG	4301-38	\$121,092.22	3/14/2024	\$102,947.00	3/25/2024	36
GYL	Glencoe	South	AIP	4301-39	\$71,282.21	3/14/2024	\$1,384.00	3/26/2024	36
MVE	Montevideo	South	AIP	1201-56	\$38,000.00	3/15/2024	\$36,100.00	3/28/2024	35

# Grant Manual & Grant Management Process Improvements

## Office of Aeronautics Grant Procedure

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## State Companion Agreement

MnDOT Contract # [insert number]

DEPARTMENT OF TRANSPORTATION  
STATE OF MINNESOTA  
STATE AIRPORTS FUND  
GRANT AGREEMENT

This agreement is between the State of Minnesota, acting through its Commissioner ("Grantor").

**RECITALS**

- Minnesota Statutes Chapter 360 authorizes State to provide financial assistance for acquisition, construction, improvement, marketing, maintenance, or operation of airport facilities.
- Grantor owns, operates, controls, or desires to own an airport ("Airport") and desires financial assistance from the State for an airport improvement project.
- Grantor represents that it is duly qualified and agrees to perform its obligations under this agreement to the satisfaction of the State. Pursuant to [Minn. Stat. 116B.05](#), Subd. 1, the State's satisfaction of this agreement.

**7 Assignment Amendments, Waiver, and Grant Agreement Complete**

**7.1 Assignment.** The Grantee may neither assign nor transfer any rights or obligations under this agreement without the prior written consent of the State and a fully executed Assignment Agreement, executed and approved by the same parties who executed and approved this agreement, or their successors in office.

**7.2 Amendments.** Any amendments to this agreement must be in writing and will not be effective until it has been executed and approved by the same parties who executed and approved the original agreement, or their successors in office. Notwithstanding the foregoing, when FAA issues a Letter Amendment on a federal grant agreement that results in an increase in federal funds beyond the total amount in this grant agreement (i.e., federal amendment), MnDOT's receipt of the Letter Amendment from FAA has the effect of amending the total amount in this grant agreement.

**7.3 Waiver.** If the State fails to enforce any provision of this agreement, that failure does not waive the provision or the State's right to subsequently enforce it.

**7.4 Grant Agreement Complete.** This grant agreement contains all negotiations and agreements between the State and Grantee. No other understanding regarding this agreement, whether written or oral, may be used to bind either party.

MnDOT Contract # 1055184

# Project Prioritization

## MNDOT AERONAUTICS STATE FUNDING PRIORITIZATION MODEL GUIDE



Per MNDOT's Project Selection Policy, MNDOT Aeronautics is updating state funding prioritization to be as objective, transparent, and data-driven as possible. This policy is intended to consider Minnesota GO recommendations and increase public understanding of MNDOT's project selection processes.

### SEVEN CRITERIA ON A 100-POINT SCALE

60 Points - System Plan Alignment

40 Points - MNDOT Priorities

The prioritization model is only considering state-only funding requests for MNDOT-defined capital expenditures.

#### System Plan Alignment

MNDOT Objective	Criteria	Categories	Score
Open Decision-Making	Master Plan/ALP: Evaluates if the airport has an updated Master Plan/ALP following the MNDOT targets (by state classification) AND the project is included in the updated plan.	Updated ALP/Master Plan on file and project request is included in plan	10
		Airport has programmed ALP/Master Plan update or in process of updating ALP/Master Plan	5
		Inadequate ALP/Master Plan with no updates programmed	-5
Transportation Safety	Airspace Obstructions*: Evaluates if the airport's Part 77 surfaces are clear of obstructions per MNDOT's airport licensing requirements OR the airport has an obstruction clearing project request.	Submitted project will clear obstructions in Part 77 surfaces	10
		Airport has no obstructions in Part 77 surfaces	5
		Airport has at least one submitted obstruction clearing project to alleviate Part 77 deficiencies	5
		Obstructions identified in Part 77 surfaces with no programmed fixes	-10
		Submitted project will acquire land designated as MNDOT clear zones per Clear Zone Policy	10
Healthy Communities	Clear Zones*: Evaluates if MNDOT-defined clear zone are owned in 100 percent fee-simple or a MNDOT approved Clear Zone Acquisition Plan (CZAP) is on-file. This is per MNDOT's update to the Clear Zone Policy recommended by the 2022 MNDOT.	Airport has 100% clear zone ownership or approved CZAP on-file	5
		Airport has at least one submitted land acquisition project for MNDOT clear zones OR the airport is actively coordinating with MNDOT to file a CZAP	5
		Partially clear zone ownership without a CZAP on file and no programmed land acquisition or CZAP	-10
		Airport has an identified pavement condition deficiency (per MNDOT-defined system metric), and the project request is addressing other pavement issues	20
		Airport has adequate pavement per MNDOT metric, and the project request is maintaining other airport assets (ex. lighting)	15
System Stewardship	Work Type: Evaluates if the project is remedying a pavement condition deficiency per MNDOT-defined system metric*, preserving other existing airport assets, or constructing new/expanded infrastructure. Ultimately, MNDOT Aeronautics is prioritizing the preservation of existing assets rather than expansion.	Project request is constructing new facilities or expanding existing infrastructure	0
		Airport has an identified pavement condition deficiency (per MNDOT-defined system metric) with no programmed fix	-10
		Airport has adequate zoning established and on-file per MNDOT requirements	10
Healthy Communities	Zoning*: Evaluates if the airport has proper zoning established and on-file with MNDOT Aeronautics or is in the process of establishing/updating zoning. This is evaluated as a MNDOT performance metric in the MNDOT Hub.	Airport is establishing or updating zoning to comply with MNDOT requirements	5
		Airport does not have adequate zoning and hasn't programmed a project to mitigate	-10

\*The indicated criteria are evaluated as MNDOT performance metrics. System and airport performance is measured and presented in two interactive dashboards included in the MNDOT Hub. <http://transportation.mn.gov/>

#### MNDOT Priorities

Criteria	Categories	Score
Airport Component: This is indicating where the project is being directed to at the airport, ranging from primary runway to unknown.	Primary Runway	20
	Taxiway Serving Primary Runway	18
	Secondary Runway	16
	Apron	14
	Taxiway Serving Secondary Runway	14
	Other Airfield Location	12
	Taxilane	10
	Terminal Building or Fuel Facilities	8
	Hangar	6
	Other Buildings	6
Licensing Compliance: This is evaluating whether the airport requesting state funds complies with all state licensing standards.	Landside	4
	Unknown	0
	Project alleviates a state licensing deficiency	20
	Airport compliant with all state licensing standards	10
	State licensing deficiency identified, and another project alleviates deficiency	10
N/A (Per 139 Airports)	Airport has state licensing deficiency and no programmed fix	-10
	OR has a project request to remediate a licensing deficiency	-10

## Airport Capital Grant Application

State Fiscal Year 2025

### Contact information

**Airport\***

**Airport sponsor contact \***

First Name  Last Name

**Airport sponsor contact position\***

**Airport sponsor contact email\***

**Airport sponsor contact phone\***

**Consultant contact**

First Name  Last Name

**Consultant contact company**

**Consultant contact email**

**Consultant contact phone**

### Project information

**Project title\***

**Project type\***

Primary Runway

Taxiway Serving Primary Runway

Secondary Runway

Apron

Taxiway Serving Secondary Runway

Other Airfield Location

Taxilane

Terminal Building or Fuel Facilities

Hangar

Other Buildings

Landside

Unknown

Planning

Lighting

Navigation Aids (non AWOS/ILS)

**Total project cost\***

\$

**State funding\***

\$

**Local funding\***

\$

**Project narrative/description \***

Explain what the project is and why the project is needed (e.g., age and/or condition of asset)

## Form Stack Application

# Planning Dashboard

Scope and Fee estimate   Ch 1-2 Received   Ch 1-2 Comments Sent   Ch 3-4 Received   Ch 3-4 Comments Sent   Ch 5 Received   Ch 5 Comments Sent   Report Finalized

Region	Status	Project Description	Planning Type	IDEN#	Sponsor	Expiration Date	State Agreement Fully Executed	XXXX2	XXXX3	XXXX4	Priority	Communicated with Sponsor
C	S	AIRPORT LAYOUT PLAN	ALP	47Y	Pelican Rapids	6/30/2013					H	
N	S	Update Airport Layout Plan	Airport Update	D97	Warren	6/30/2017	8/24/2012					
N	S	ALP Update	ALP	D90	Ada	6/30/2016	8/4/2012					
N	S	RIV Access & Widening, & TTY Turnaround - Contract & C.A. & Bldg Area Study/ALP Update	ALP	D14	Fertile	6/30/2014	5/14/2010					
N	S	AIRPORT Phase 1 Site Selection, Environmental, ALP Update	ALP	PVVC	Pine River	6/30/2017	3/4/2013					
N	S	AIRPORT Phase 1 Site Selection, Environmental, ALP Update	ALP	VTVU	Wadena	6/30/2017	3/2/2013					
N	S	ALP Update and Parking Area Improvement Design	ALP	VTVU	Wadena	6/30/2017	3/2/2013					
N	S	Zoning Update	Zoning Update	CQ04	Cook	6/30/2019	4/6/2013					
N	S	Airport Zoning Update	Zoning Update	CN2	Crookston	3/31/2016	7/28/2012					
N	S	Airport Zoning Update	Zoning Update	04Y	Harley	6/30/2016	1/26/2012					
N	S	Airport Zoning	Zoning Update	18D	Kaliford	3/31/2017	7/3/2012					
N	S	Airport Zoning Update	Zoning Update	13Y	Littlefork	6/30/2017	6/28/2013					
N	S	Airport Zoning Update	Zoning Update	XVVG	Longville	6/30/2017	12/3/2013					
S	S	ALP with Narrative	ALP	ADSP	Appleton	12/31/2016	11/21/2012					
S	S	RIVY IN-NEEDS STUDY & AIRPORT LAYOUT PLAN	ALP	0YVL	Clifton	6/30/2013	4/17/2010					
S	S	Airport Layout Plan	ALP	EN1	Springfield	6/30/2017	6/3/2013					
S	S	Master Plan with Airport Layout Plan	Master Plan, ALP	MRGQ	Maple Lake	12/31/2014	6/12/2013					
S	S	Airport Zoning Ordinance	Zoning Update	ATJH	Aurora	12/31/2013	3/7/2012					
S	S	Custom Zoning Airport Zoning Update	Zoning Update	BR1	Benford	12/31/2013	4/4/2012					
S	S	Zoning Ordinance Update	Zoning Update	CN9	Camb	6/30/2014	8/9/2011					
S	S	AIRPORT ZONING ORDINANCE UPDATE	Zoning Update	2008	Dodge Center	6/30/2016	7/28/2010					
S	S	Airport Zoning Update	Zoning Update	MRQ	Jackson	12/31/2016	6/30/2013					
S	S	Airport Zoning Update	Zoning Update	MMLE	Marshall	12/31/2013	4/6/2012					
S	S	Zoning Ordinance Update	Zoning Update	0YVL	Clifton	12/31/2016	7/19/2013					
S	S	UPDATE AIRPORT ZONING ORDINANCE	Zoning Update	138	Sleazy Zoo	12/31/2017	8/29/2013					
S	S	Airport Zoning Update	Zoning Update	042	Springfield	12/31/2016	8/4/2013					
S	S	Airport Zoning Ordinance Update	Zoning Update	17D	St. James	12/31/2013	7/28/2012					
S	S	Airport Zoning Ordinance Update	Zoning Update	DR2	Starbuck	12/31/2017	11/24/2013					
S	S	Update Airport Zoning (RIV 17) 33 Ext & Runway 11,700	Zoning Update	MYVA	Wadena	12/31/2016	5/11/2013					
S	S	Update Zoning Ordinance	Zoning Update	GNCA	Winnona	12/31/2017	2/28/2013					
					EN/A							
					EN/A							
					EN/A							
					EN/A							

Master Plan tracking

Zoning tracking

Scope and Fee estimate   JAZB Formed   Initial MnDOT review   Public Hearing   Requested CO   CO 90 Day Date   Ryan Debrief Meeting   CO Issued   Adoption Recording and Shapefiles   Comments

# MnSASP Data Hub Update & Contact Manager Development

MnSASP.org

## MNSASP DATA

Aitkin Municipal Airport

Project Prioritization - Facilities - Aviation Services - Airport Activity - Airport Development - Mobility and Access

### PROJECT PRIORITIZATION

DESCRIPTOR	CURRENT DATA	FEEDBACK	REVIEW ACTION
<b>Airport Planning</b> Evaluates if the airport has an updated Master Plan/ALP following the MnSASP targets by state classification AND the project is included in the updated plan. <a href="#">Learn More</a>	<p>Planning Documents</p> <p><b>Airport Master Plan</b> <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> NA <input type="radio"/> Year Completed: 2008</p> <p><b>Airport Layout Plan with Narrative</b> <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> NA <input type="radio"/> Year: NA</p> <p><b>Airport Layout Plan without Narrative</b> <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> NA <input type="radio"/> Year: NA</p> <p><b>Minimum Standards</b> <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> NA <input type="radio"/> Year: NA</p> <p><b>FAA Part 150 Noise Study</b> <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> NA <input type="radio"/> Year: NA</p> <p><b>Local Obstruction Study</b> <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> NA <input type="radio"/> Year: NA</p>		Select one
<b>Airspace Obstructions</b> Evaluates if the airport's Part 77 surfaces are clear of obstructions per MnDOT's airport licensing requirements OR the airport has an obstruction clearing project request. <a href="#">Learn More</a>	<p>Data in this section was taken from ADPR. If you feel this information is incorrect or you have completed an airport sponsored project that mitigates or removes an obstruction, please notify MnDOT by selecting edit from the drop down on the right and providing documentation using the uploading any relevant documents.</p> <p><b>Does your airport have Part 77 Airspace Obstructions?</b> <input type="radio"/> Yes <input type="radio"/> No</p>		

### AIRPORT CONTACTS

FAAID	AIRPORT NAME	CONTACT NAME	CONTACT TYPE	EMAIL	PRIMARY PHONE	SECONDARY PHONE
<input type="checkbox"/>	AIT Aitkin Municipal Airport	Ben	Grant Liaison	Patru	0	
<input type="checkbox"/>	AXN Alexandria Municipal Airport (Chandler Field)	King Anderson	Airport Manager/Director	kanderson@alexandriamn.org	(320) 762-2111	
<input type="checkbox"/>	AGP Appleton Municipal Airport	Greg Ruether	Airport Manager/Director	plamen9@yahoo.com	(320) 413-0089	
<input type="checkbox"/>	AJM Austin Municipal Airport	Joe	Airport Manager/Director	Young	(480) 555-5555	
<input type="checkbox"/>	713 Bakus Municipal Airport	J B JOHNSON			(218) 839-8450	
<input type="checkbox"/>	714 Bagley Municipal Airport	BILL MASTERSON	Airport Manager/Director		(218) 556-7812	
<input type="checkbox"/>	80E Backett International Airport	Adam Forsberg	Airport Manager/Director	adventurenorthic@gmail.com	(218) 839-1067	
<input type="checkbox"/>	81I Bemidji Regional Airport	Karen Weller	Airport Manager/Director	karen.weller@bemidjiairport.org	(218) 444-2438	
<input type="checkbox"/>	88B Benson Municipal Airport	Dan Gens	Airport Manager/Director		(320) 368-2703	
<input type="checkbox"/>	719 Big Falls Municipal Airport	TERRY BAIRD	Airport Manager/Director		(218) 556-4827	
<input type="checkbox"/>	FOZ Bgfork Municipal Airport	AMY FISHER	Airport Manager/Director	steer1@hotmail.com	(218) 360-4116	
<input type="checkbox"/>	88U Blue Earth Municipal Airport	Luke Steer	Airport Manager/Director	steer1@hotmail.com	(507) 526-7264	
<input type="checkbox"/>	910 Brønning Airport	KENNETH REICHERT	Airport Manager/Director		(218) 244-4328	
<input type="checkbox"/>	BRD Brainerd Lakes Regional Airport	Steven Wright, A.A.E.	Airport Manager/Director	stevenwright@brainerdairport.com	(218) 825-2166	

# Aircraft Registration System

## Sign in to Your SYSTEM MANAGER

User Name

Password

[Forgot password](#)    [Change password](#)

LOGIN

## Grant Management/CIP Replacement

Airport Construction & Engineering - ACE

[Airport Construction](#)   [M & O](#)   [Hangar Loan](#)   [Air Service Marketing](#)   [Airport Ident File](#)   [Search PO](#)   [Reports](#)   [Settings](#)   [Help](#)

Projects   Display Record

Filter By Project ID   Filter   Reset

Region	Proj ID	FAA Proj ID	Ident	Proj FY	Description	Municipality	Agreement #	Status
E	0104-05	N/A	07Y	2024	Obstruction Removals	HILL CITY	1056316	OPEN
E	0104-06	N/A	07Y	2024	Tractor, Loader w/Bucket, John Deere...	HILL CITY	1056675	OPEN
E	0204-52	3-27-0092-17-20	ANE	2021	Taxiway LED Edge Lighting	MAC 0204...	1044584	OPEN
E	0204-53	NA	ANE	2023	Replace AWOS	MAC 0204...	1053810	OPEN
E	0204-54	3-27-0092-20-23	ANE	2024	BILFCT - ATC Tower Equipment Upgr...	MAC 0204...	1054150	OPEN
E	0204-55	3-27-0092-21-23	ANE	2024	AIG - Taxiway "A" Rehabilitation and...	MAC 0204...	1054625	OPEN
E	1104-10	N/A	52Y	2023	Obstruction Removal	REMER	1052964	OPEN
E	1307-35	3-27-0087-12-20	ROS	2021	Seal Runway Pavement Surface/Pave...	RUSH CITY	1044911	OPEN
E	1307-36	3-27-0087-14-21	ROS	2022	Parking Lot Expansion and Installing...	RUSH CITY	1048525	OPEN
E	1307-39	3-27-0087-16-22	ROS	2023	AIP - Reconstruct Taxiways B, D, E	RUSH CITY	1051656	OPEN
E	1307-40	3-27-0087-18-23	ROS	2024	AIG - Engineering for Taxiway A Reco...	RUSH CITY	1055448	OPEN
E	1307-41	N/A	ROS	2024	Progressive TD-65 15 %-Foot Mower	RUSH CITY	1056499	OPEN
E	1801-122	3-27-0014-46-21	BRD	2021	AIP-Runway 16/34 Concrete Repair; R...	BRAINERD	1047605	OPEN
E	1801-125	3-27-0014-48-21	BRD	2022	CARE\$ Amendment - Construction A...	BRAINERD	1048590	OPEN
E	1801-126	3-27-0014-49-22	BRD	2023	AIP - Construct Snow Removal Equip...	BRAINERD	1051580	OPEN
E	1801-128	3-27-0014-50-22	BRD	2023	AIG - Construct 7.731371% of Eligible...	BRAINERD	1051909	OPEN
E	1801-129	3-27-0014-51-23	BRD	2023	AIG/BIL - Conventional Hangar (Design)	BRAINERD	1053840	OPEN
E	1801-130	3-27-0014-52-23	BRD	2023	AIP - Airport Entrance Road Pavemen...	BRAINERD	1053289	OPEN
E	1801-131	3-27-0014-53-23	BRD	2024	AIG - Construct/Modify/Improve/Reha...	BRAINERD	1054187	OPEN

Insert New Project
Delete Project

# Grant Management Summary

Airport Capital Grant Application  
State Fiscal Year 2025

Contact information

Airport\*

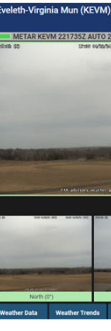
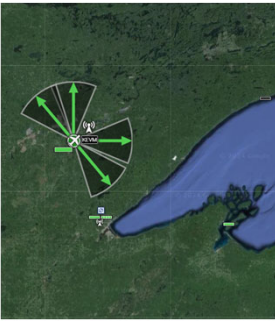
Airport sponsor contact\*

First Name Last Name  
Airport sponsor contact position\*

- SFY24/25 Maintenance & Operations
- Equipment Grants
- SFY24 Capital Grants
- SFY25 Capital Grants (process)

SFY 2024 State-Only Capital Project List					
Agency	Project Name	FY	FY Budget	FY Actual	FY Balance
Airport	Airport Operations - 10 Runway 12 Approach	124	\$ 20,000.00	\$ 20,000.00	\$ 0.00
Airport	Airport Operations - 10 Runway 12 Approach	125	\$ 19,000.00	\$ 19,000.00	\$ 0.00
Airport	Airport Operations - 10 Runway 12 Approach	126	\$ 18,000.00	\$ 18,000.00	\$ 0.00
Airport	Airport Operations - 10 Runway 12 Approach	127	\$ 17,000.00	\$ 17,000.00	\$ 0.00
Airport	Airport Operations - 10 Runway 12 Approach	128	\$ 16,000.00	\$ 16,000.00	\$ 0.00
Airport	Airport Operations - 10 Runway 12 Approach	129	\$ 15,000.00	\$ 15,000.00	\$ 0.00
Airport	Airport Operations - 10 Runway 12 Approach	130	\$ 14,000.00	\$ 14,000.00	\$ 0.00
Airport	Airport Operations - 10 Runway 12 Approach	131	\$ 13,000.00	\$ 13,000.00	\$ 0.00
Airport	Airport Operations - 10 Runway 12 Approach	132	\$ 12,000.00	\$ 12,000.00	\$ 0.00
Airport	Airport Operations - 10 Runway 12 Approach	133	\$ 11,000.00	\$ 11,000.00	\$ 0.00
Airport	Airport Operations - 10 Runway 12 Approach	134	\$ 10,000.00	\$ 10,000.00	\$ 0.00
Airport	Airport Operations - 10 Runway 12 Approach	135	\$ 9,000.00	\$ 9,000.00	\$ 0.00
Airport	Airport Operations - 10 Runway 12 Approach	136	\$ 8,000.00	\$ 8,000.00	\$ 0.00
Airport	Airport Operations - 10 Runway 12 Approach	137	\$ 7,000.00	\$ 7,000.00	\$ 0.00
Airport	Airport Operations - 10 Runway 12 Approach	138	\$ 6,000.00	\$ 6,000.00	\$ 0.00
Airport	Airport Operations - 10 Runway 12 Approach	139	\$ 5,000.00	\$ 5,000.00	\$ 0.00
Airport	Airport Operations - 10 Runway 12 Approach	140	\$ 4,000.00	\$ 4,000.00	\$ 0.00
Airport	Airport Operations - 10 Runway 12 Approach	141	\$ 3,000.00	\$ 3,000.00	\$ 0.00
Airport	Airport Operations - 10 Runway 12 Approach	142	\$ 2,000.00	\$ 2,000.00	\$ 0.00
Airport	Airport Operations - 10 Runway 12 Approach	143	\$ 1,000.00	\$ 1,000.00	\$ 0.00
Airport	Airport Operations - 10 Runway 12 Approach	144	\$ 0.00	\$ 0.00	\$ 0.00

MHCOT Aeronautics SFY 2024 Equipment Grant Score List				
Agency	Project Name	Equipment	State Amount	Total Cost
ADP	Director and Executive Office	Equipment	\$ 122,000.00	\$ 122,000.00
ADP	Director and Executive Office	Equipment	\$ 44,800.00	\$ 44,800.00
ADP	Director and Executive Office	Equipment	\$ 15,000.00	\$ 15,000.00
ADP	Director and Executive Office	Equipment	\$ 28,451.41	\$ 28,451.41
ADP	Director and Executive Office	Equipment	\$ 8,000.00	\$ 8,000.00
ADP	Director and Executive Office	Equipment	\$ 15,499.59	\$ 15,499.59
ADP	Director and Executive Office	Equipment	\$ 7,000.00	\$ 7,000.00
ADP	Director and Executive Office	Equipment	\$ 74,000.00	\$ 74,000.00
ADP	Director and Executive Office	Equipment	\$ 26,000.00	\$ 26,000.00
ADP	Director and Executive Office	Equipment	\$ 22,000.00	\$ 22,000.00
ADP	Director and Executive Office	Equipment	\$ 27,000.00	\$ 27,000.00
ADP	Director and Executive Office	Equipment	\$ 11,000.00	\$ 11,000.00
ADP	Director and Executive Office	Equipment	\$ 88,000.00	\$ 88,000.00
ADP	Director and Executive Office	Equipment	\$ 12,000.00	\$ 12,000.00
ADP	Director and Executive Office	Equipment	\$ 88,133.59	\$ 88,133.59
ADP	Director and Executive Office	Equipment	\$ 15,000.00	\$ 15,000.00
ADP	Director and Executive Office	Equipment	\$ 15,000.00	\$ 15,000.00
ADP	Director and Executive Office	Equipment	\$ 26,000.00	\$ 26,000.00
ADP	Director and Executive Office	Equipment	\$ 96,777.71	\$ 96,777.71
ADP	Director and Executive Office	Equipment	\$ 22,000.00	\$ 22,000.00
ADP	Director and Executive Office	Equipment	\$ 69,000.00	\$ 69,000.00
ADP	Director and Executive Office	Equipment	\$ 15,000.00	\$ 15,000.00
ADP	Director and Executive Office	Equipment	\$ 46,000.00	\$ 46,000.00
ADP	Director and Executive Office	Equipment	\$ 15,000.00	\$ 15,000.00
ADP	Director and Executive Office	Equipment	\$ 100,000.00	\$ 100,000.00
ADP	Director and Executive Office	Equipment	\$ 100,000.00	\$ 100,000.00
ADP	Director and Executive Office	Equipment	\$ 200,000.00	\$ 200,000.00
ADP	Director and Executive Office	Equipment	\$ 180,518.18	\$ 180,518.18
ADP	Director and Executive Office	Equipment	\$ 22,000.00	\$ 22,000.00
ADP	Director and Executive Office	Equipment	\$ 47,348.83	\$ 47,348.83
ADP	Director and Executive Office	Equipment	\$ 46,792.22	\$ 46,792.22
ADP	Director and Executive Office	Equipment	\$ 7,100.00	\$ 7,100.00
ADP	Director and Executive Office	Equipment	\$ 22,484.51	\$ 22,484.51
ADP	Director and Executive Office	Equipment	\$ 15,000.00	\$ 15,000.00
ADP	Director and Executive Office	Equipment	\$ 45,811.51	\$ 45,811.51
ADP	Director and Executive Office	Equipment	\$ 10,000.00	\$ 10,000.00
ADP	Director and Executive Office	Equipment	\$ 10,000.00	\$ 10,000.00



## Operations and Navigation Systems

Mike Hartell  
Assistant Director





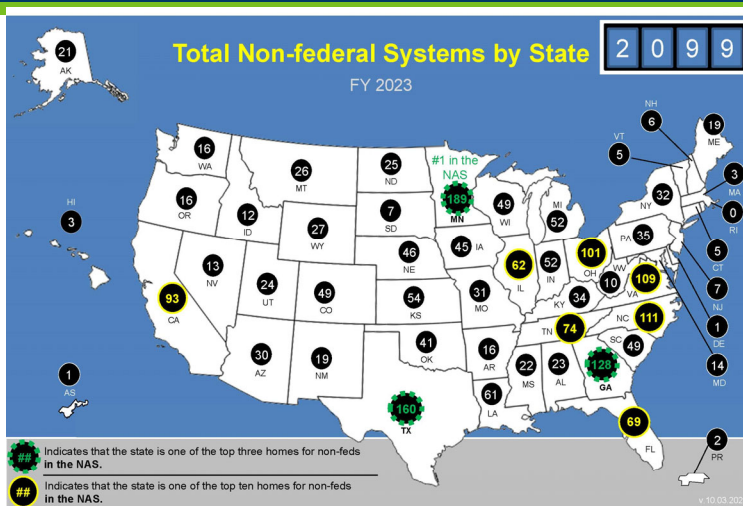
# MnDOT's New Aircraft

- **Kodiak 100**

- 7,255 lbs, max takeoff weight
- 320 gallons of fuel
- 45 GPH fuel burn
- Thoroughly modern aircraft engineered in the 21<sup>st</sup> century and meeting the very latest FAA standards.



# Navigation Systems

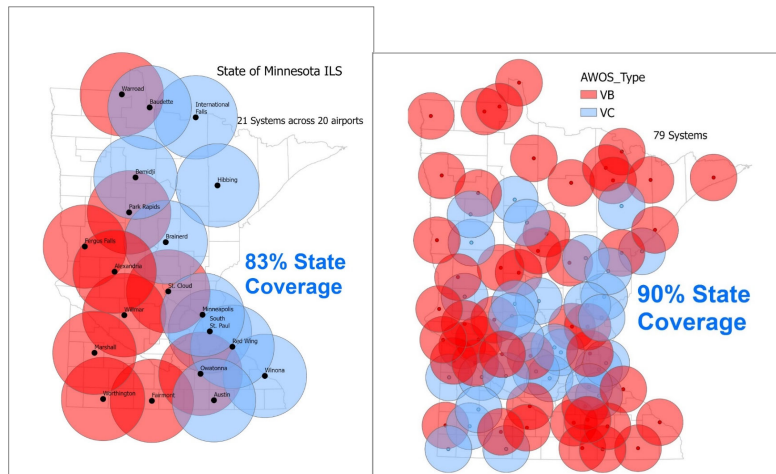


Non-federal Program: FY 2023

Data Source: FSEP – 10/3/2023, Commissioned/Full Service only

## Navigation Systems Challenges

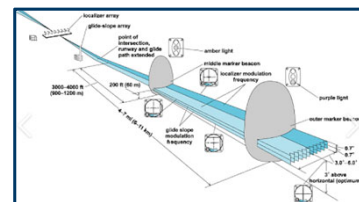
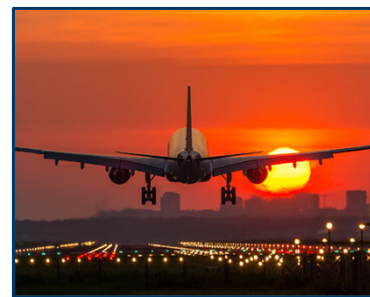
- 79 AWOS Weather Stations
  - 46 have no replacement parts for critical sensors
- 21 Instrument Lighting Systems
  - 9 are old models with no available parts or factory support
- Without changes to funding, **red** systems will be offline in less than 5 years



## Right Sizing of MN's Navigation System Network

Study in progress to answer some of these questions:

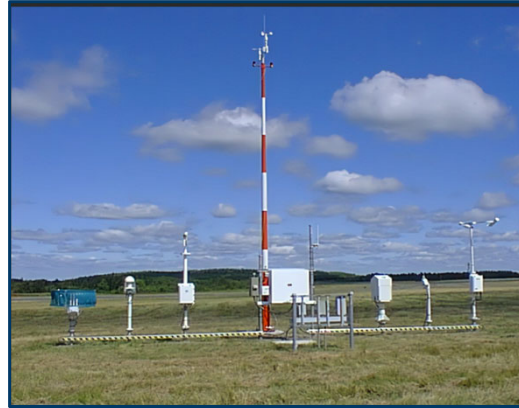
- How many Instrument Landing Systems does MN need?
- What is the distance between stations that would give enough coverage?
  - 75 Miles?
- How much redundancy/saturation/overlap of the ILS network is needed?
- What is the future of state owned terminal VOR's?
  - How do they serve the current system & the future viability?
- Should we consider moving toward enhanced RNAV approaches rather than investing further in state owned ILS systems?





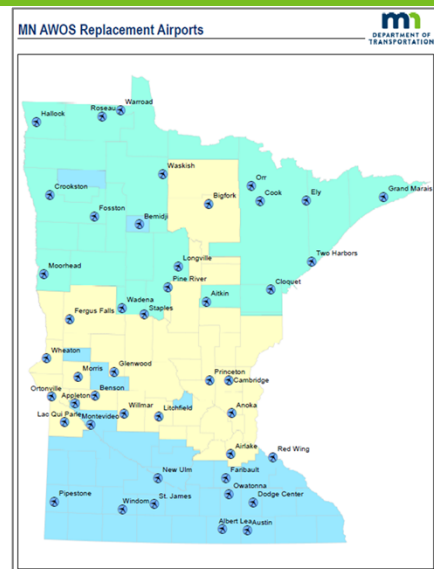
## \$15M Modernization Projects 5 years

- 47 AWOS sites @ \$300K per site
- 3 ILS sites @ \$600K per site
  - Warroad bid out at \$1.2M
- 10 AWOS to be completed per year to utilize the 5-year funding stream
- Funding will cover these items
  - Siting Evaluation & ALP sheet update
  - Environmental impact documentation
  - FAA study's and correspondence
  - Project design, compliant with FAA regulations as well as manufacturers specifications
- Bolton/Menk contracted to facilitate and coordinate 2025 build projects and forward



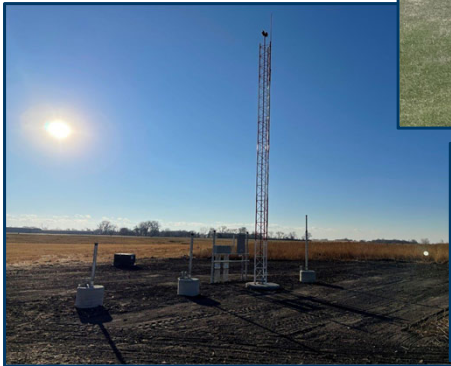
## MN Aviation Weather Observation System Replacements at Airports

- Current AWOS Systems in MN
  - \$15M funding received to replace stations
  - 47 systems
    - 5 stations replaced in 2023
    - 12 stations in que to be replaced in 2024



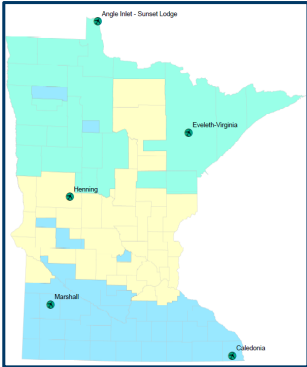
# Navigation Systems – Future

- 2024 – AWOS' to be commissioned
  - Anoka-Blaine
  - Benson
  - Cook
  - Crookston
  - Pine River
  - Pipestone
  - Two Harbors
  - Waskish
- 2024 – Warroad - ILS
- 2025 – Marshall - ILS
- 2026 – Alexandria - ILS



# MN: Weather Camera's at Our Airports

- Installation completed in October 2023
- Four camera directions
- Latest image is 2.5 minutes old
- <https://weathercams.faa.gov>



# Aviation Education Outreach

- **Aviation Events**

- Great MN Aviation Gathering (GMAG)
- EAA Airshow Oshkosh
- Sea Plane Conference

- **Career Fairs**

- High Schools
- Post Secondary

- **Professional Development**

- Aircraft Maintenance Technician & IA Renewal Conference
  - 2024 had 313 attendees of which the FAA issued 88 IA Renewal Certificates
  - Had 85 of the 125 registered High School students in attendance for the HS career day
- MN Airports Conference
- AirTap online training
  - (webinars, airport manager certification, wildlife Hazard control workshop)



# Aviation Education Secondary Outreach

## High School Programs teaching aviation curriculum

- **AOPA Curriculum**

- 8 high schools in MN are using the AOPA curriculum

- **Aviation Related Curriculum (Through MDE)**

- 10 school districts in MN are using some type of aviation curriculum

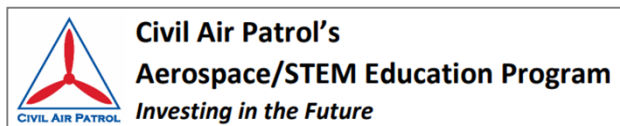
- **Civil Air Patrol Aero Space Education**

- Working with AE team at CAP to become a part of Aeronautics Aviation Education strategic plan

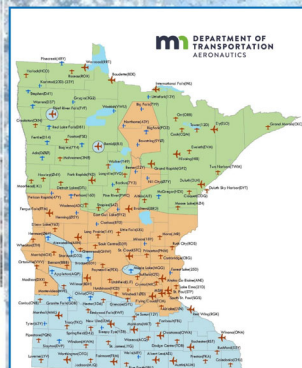
All School Districts offering an Aeronautics program	MDE	AOPA
Alex Public Schools District 0206		
Anoka Hennepin School District 0011	X	
Brainerd Publish School District 0181		
Burnsville-Eagan-Savage	X	
Canby Public School District 0891		
Duluth	X	
Eden Prairie High School		X
Fairmont High School		X
LEROY - Ostrander Public Schools 0499		
Little Falls Community High School		X
Lester Prairie Public Schools District 0424		
Minnetonka High School		X
Minnewaska School District 2149		
MoorHead Area Public Schools	X	X
Nashwauk-Keewating School District	X	X
Park Rapids Public School District		
Pequot Lakes Public Schools		X
Redwood Area School District		
Sauk Centre Public Schools	X	
Sauk Rapids-Rice	X	
St. Michael - Albertville Schools	X	
St. Paul Public Schools	X	
Wadena-Deer Creek School District		
Warroad	X	
United Christian Academy		X

## Civil Air Patrol Initiatives

- **Lighting Systems**
  - Fly systems to verify lighting requirements / standards
- **Aerospace Education**
  - Ways to support high school aviation programming
  - Example is their Aviation Training center in Hutchinson
- **UAS Initiatives**



### Meet your Aeronautics Leadership, Operations, Development, and Planning Staff



**Wednesday, April 24<sup>th</sup>**  
**5:00–6:30 pm**  
Ryan Gaug—Director  
Mike Hartell—Assistant Director  
Kirby Becker—Assistant Director

**Thursday, April 25<sup>th</sup>**  
**1:00 - 1:30 pm**  
**Central Region**  
John Fleming  
Travis Haskell  
Tim Jarvis

**Thursday, April 25<sup>th</sup>**  
**2:15 - 2:45 pm**  
**South Region**  
Luke Bourassa  
Brian Conklin  
Jim McCanney

**Thursday, April 25<sup>th</sup>**  
**3:45 - 4:15 pm**  
**North Region**  
Kevin Carlson  
Hans Engstrom  
Jared Wedel



THANK YOU

