



Public Infrastructure – Airport Division

Update to Board of Supervisors (BOS) | October 15, 2024

Additional Airport Update Materials



Airline Activity



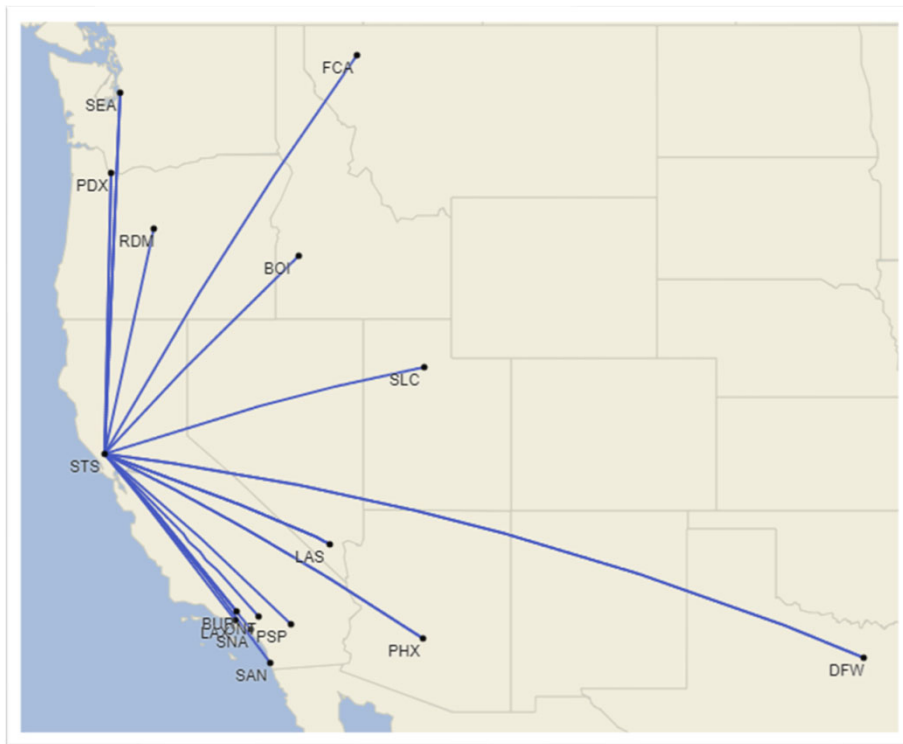
Airline Updates



- Alaska started service in Boeing 737 type aircraft in October, 2022 which have a seating capacity of 124-178. Previously only Embraers were flown, which have a capacity of 76. The change to larger capacity aircraft improved flight amenities, while reducing the number of flights needed between certain destinations.
- Alaska paused service to Palm Springs between June & November in 2023 due to demand.
- In 2023, Avelo launched service from Santa Rosa to Redmond, Oregon. In 2024, they expanded service to Pasco, WA; Salem, OR; Boise, ID; Kalispell, MT (seasonal); Salt Lake City, UT; and Ontario, CA. Pasco and Salem routes were dropped a few months after launching due to demand.
- In May 2024 Avelo established a crew base at STS with approximately 50 local staff including inflight crew, support, and aircraft maintenance.



Airline Destinations



In 2023 STS provided direct service from three commercial airlines to 11 destinations from Santa Rosa.

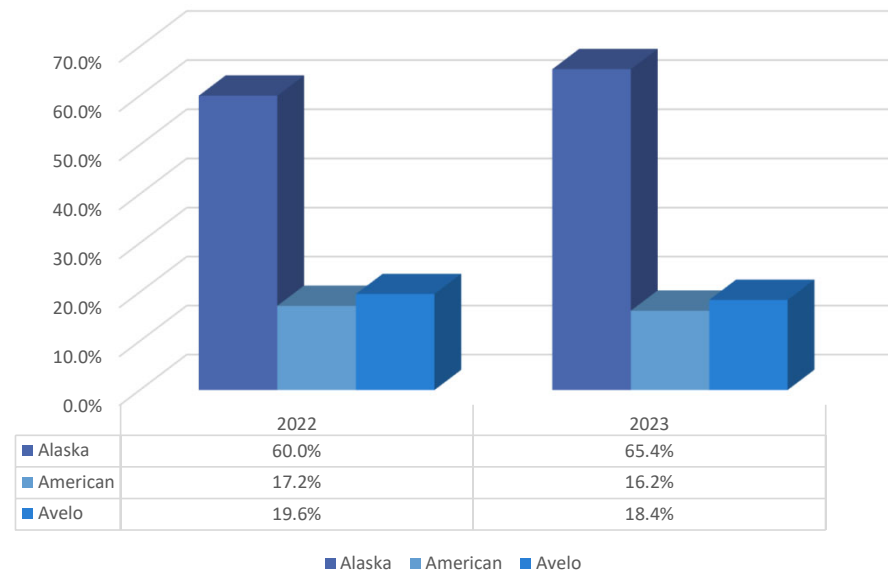
As of October, 2024 there are 15 direct flight destinations.



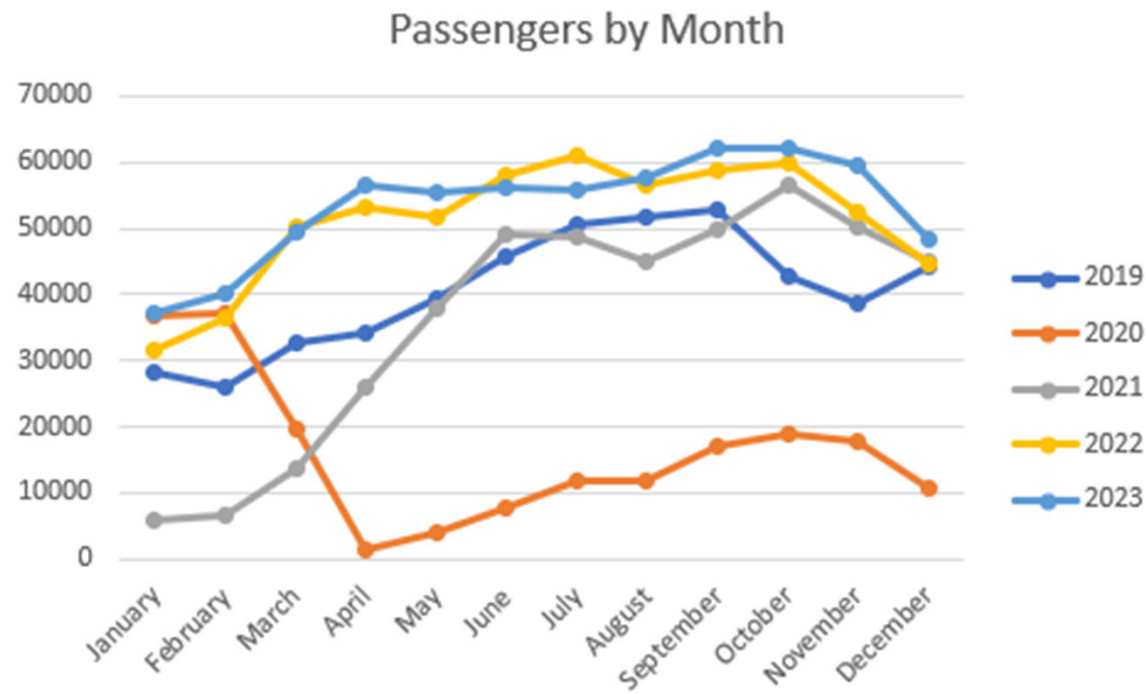
2023 Airline Market Share

Alaska Airlines had the largest market share at STS in 2023 with more than 3x the sales of Avelo or American.

Airline Market Share by Passenger Count

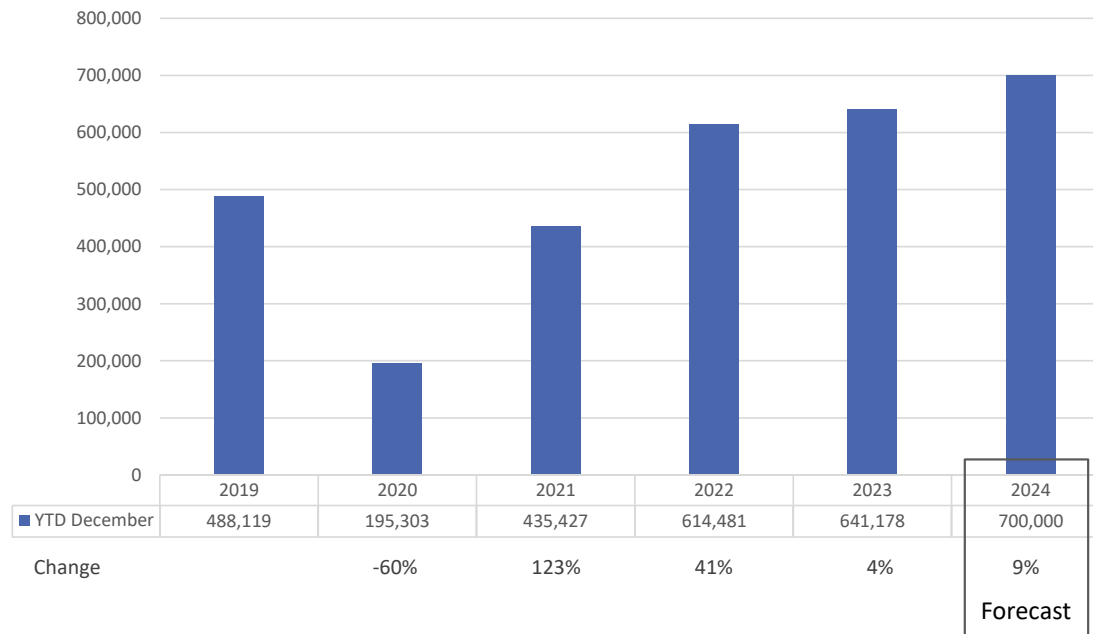


2023 Airline Passengers by Month



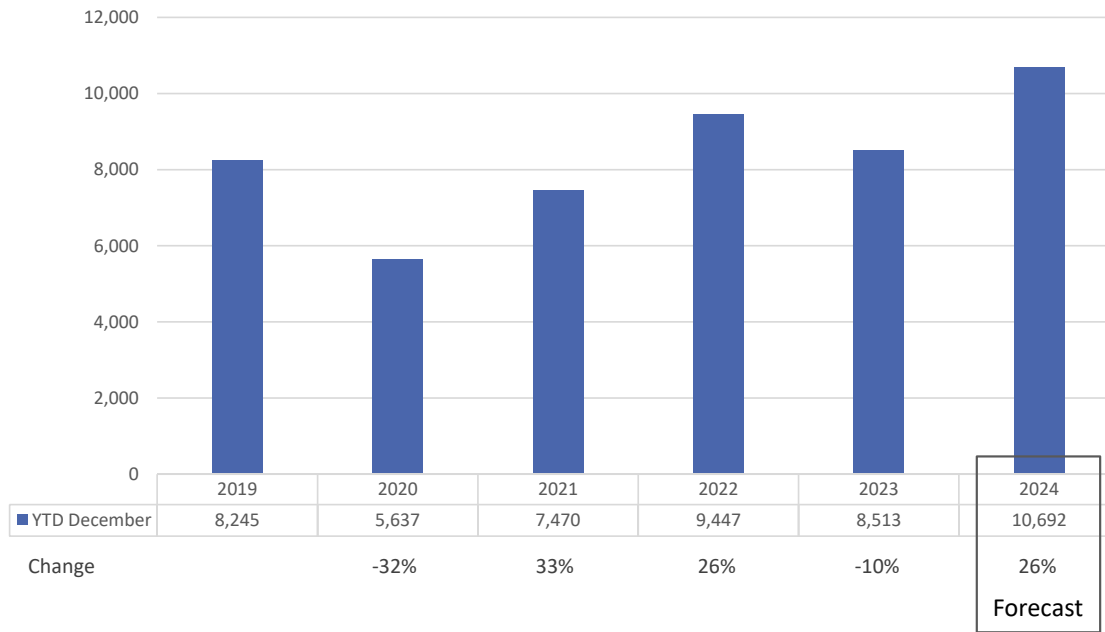
5 Year Passenger Counts

Airline Passenger Count Per Year



5 Year Airline Count Per Year

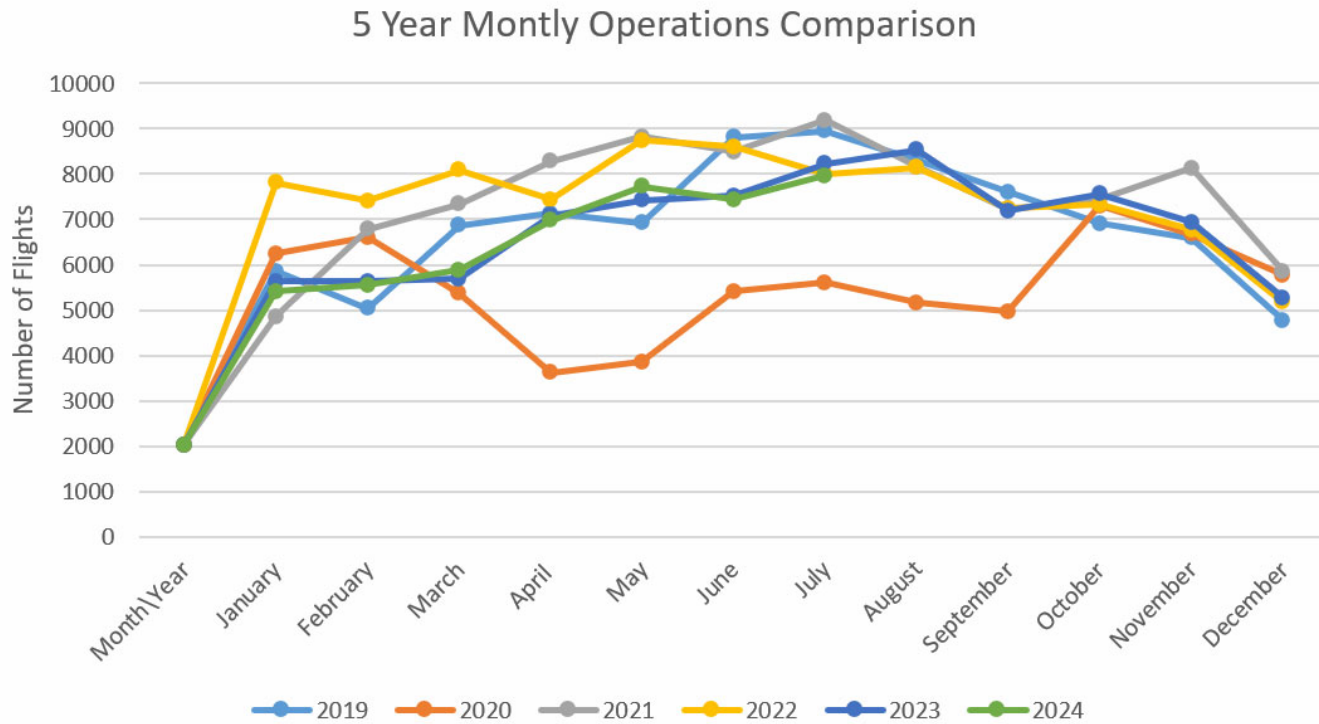
Airline Operations Count Per Year



Total Flight Activity



5 Year Monthly Airport Flight Operations



5 Year Aircraft Departures and Arrivals

2024 predictions estimate an increase of less than 1% in total operations.

Total Flight Operations and Airline Flight Operations





Noise Complaints

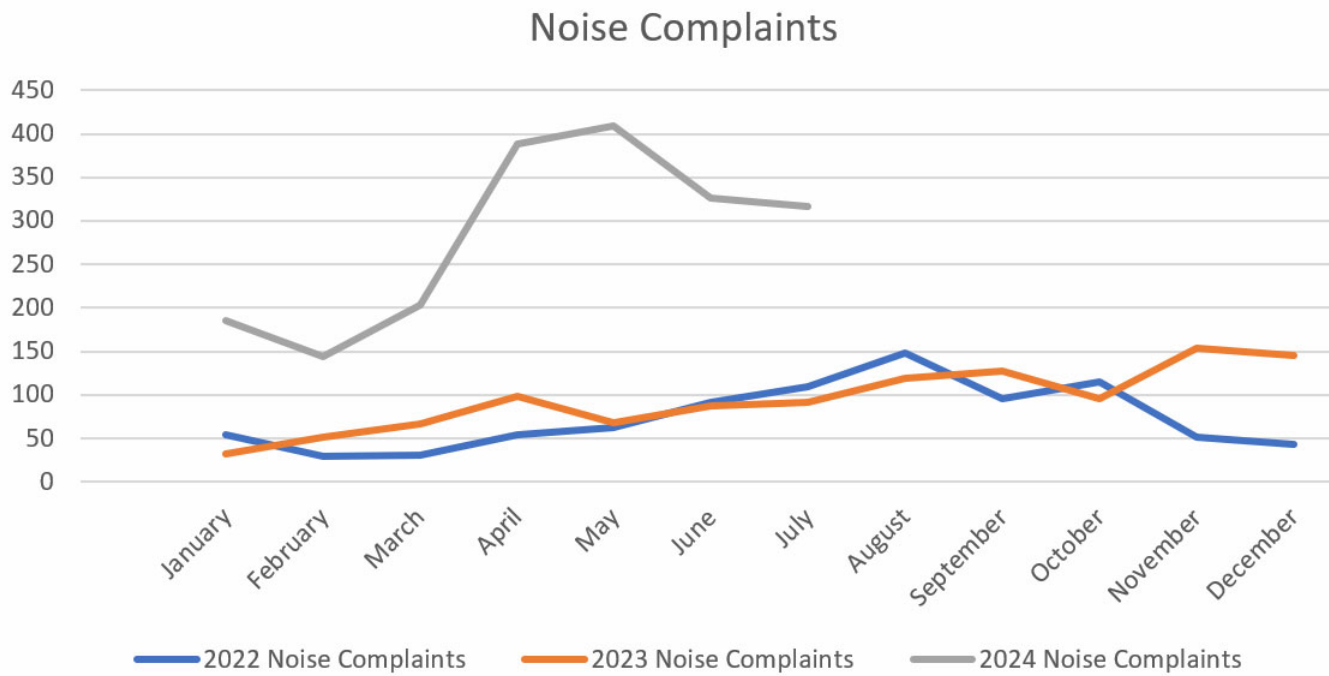


2023 Noise Complaint Report Summary

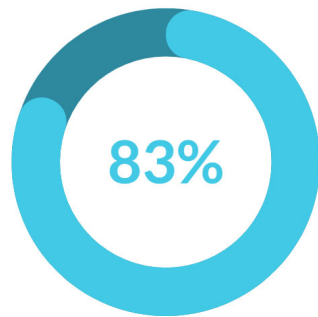
2023 Airport Noise Complaint Summary					
Number of Noise Complaints Received		1,128			
Number of Households Submitting Complaints (based on address)		108			
Number of Flight Operation per Complaint		73			
Frequent vs Infrequent Complaint Submissions			Complaints by Aircraft		
	# of Households	Percent		Complaints	Percent
Frequent (3 or more)	36	33%	Helicopter	47	5%
Infrequent (1 - 2)	72	67%	Jet - Airline	437	42%
			Jet - Other	126	12%
Complainant Households by Nautical Mile from Airport			Propeller	112	11%
	Complaints	Percent	Turboprop	41	4%
0.99 and under	5	5%	Unknown	278	27%
1.00-1.99	11	10%	Complaints by Airline Operator		
2.00-2.99	13	12%		Complaints	Percent
3.00-4.99	17	16%	Alaska Airlines	279	64%
5.00-9.99	41	38%	American Airlines	74	17%
10.00 and over	21	19%	Avelo Airlines	84	19%



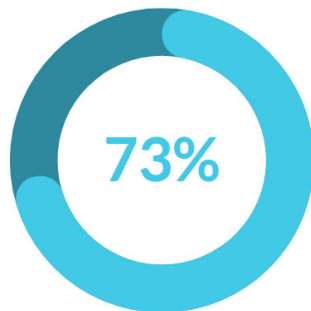
Total Noise Complaints



2023 Noise Complaint Key Takeaways



of noise complaints were submitted by 10 households in Sonoma County



of households making complaints submitted 1 or 2 complaints

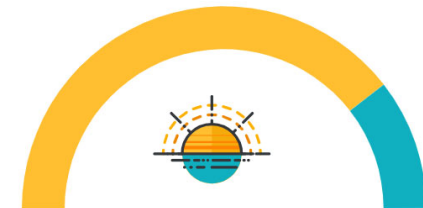


84%

of noise complaints were submitted online



of noise complaints were regarding commercial and private jets

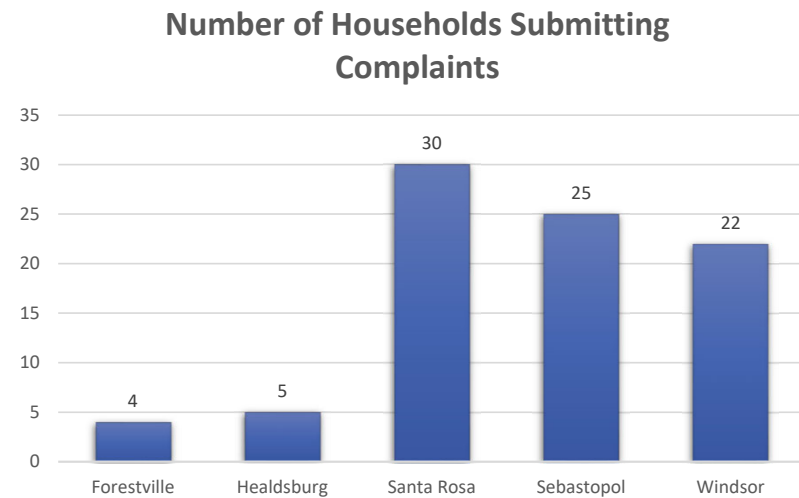
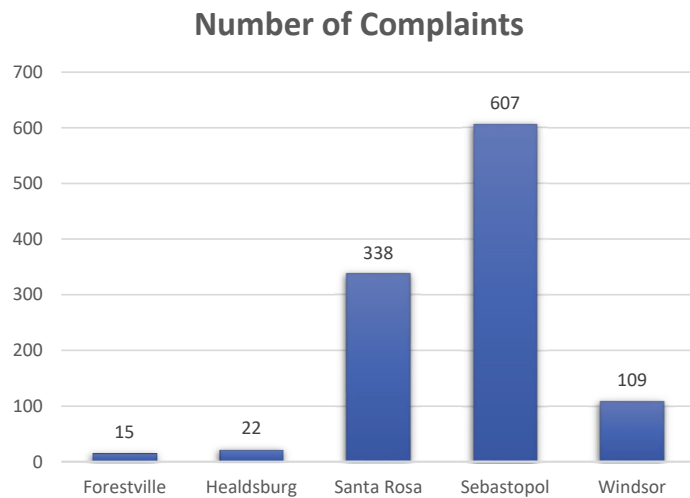


of complaints were regarding daytime flights

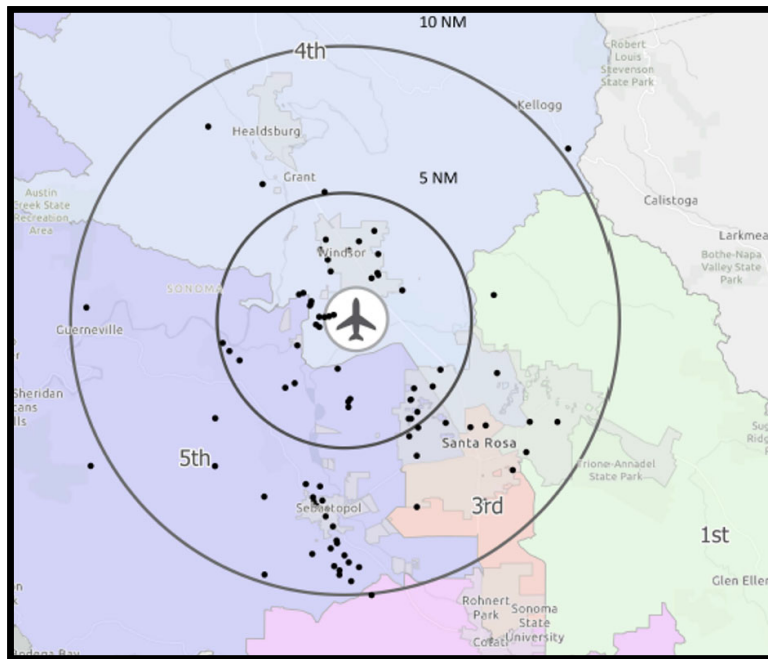


2023 Noise Complaint Originations

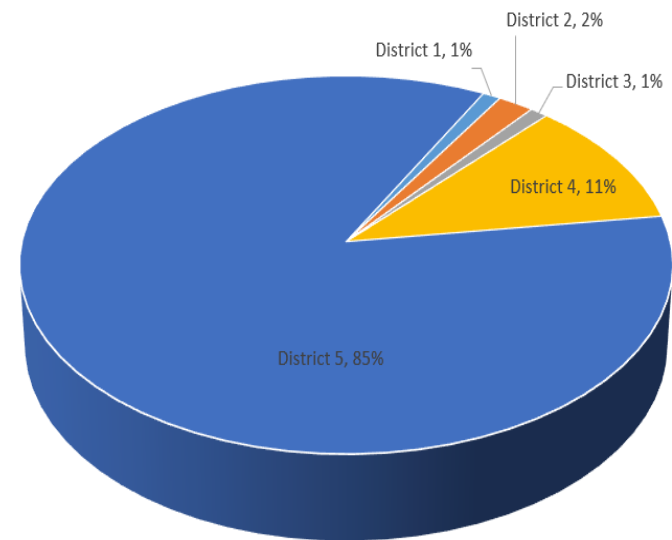
Five Most Active Communities



2023 Noise Complaints by Supervisorial District



Complainant Household Locations



Percentage of Complaints by District



2024 Jan-June Noise Complaint Report Summary

6 Month (Jan - June) 2024 Airport Noise Complaint Summary				
Number of Noise Complaints Received		1,675		
Number of Households Submitting Complaints (based on address)		107		
Number of Flight Operation per Complaint		23		
Frequent vs Infrequent Complaint Submissions			Complaints by Aircraft	
	# of Households	Percent	Complaints	Percent
Frequent (3 or more)	35	32%	Helicopter	111 7%
Infrequent (1 - 2)	73	68%	Jet - Airline	672 41%
			Jet - Other	543 33%
			Propeller	135 8%
Complainant Households by Nautical Miles from Airport			Turboprop	48 3%
	Complaints	Percent	Unknown	117 7%
0.99 and under	3	3%	Complaints by Airline Operator	
1.00-1.99	10	10%		Complaints Percent
2.00-2.99	9	9%	Alaska Airlines	455 68%
3.00-4.99	24	23%	American Airlines	80 12%
5.00-9.99	46	44%	Avelo Airlines	131 20%
10.00 and over	15	14%		





Awards and Kudos



Awards

- **Champion of the Year Award:** STS was voted the North Coast Chapter 2023 Infrastructure Public Owner Champion of the Year from the American Council of Engineering Companies (ACEC) for the terminal modernization project.
- **Excellence in Construction Award:** STS received an award from the North Bay Business Journal for Excellence in Construction 2023 for the Terminal Modernization project.



Newsweek Readers' Choice

The STS Airport was named the 4th Best Small Airport in Newsweek's "Best Small Airports" Readers' Choice Awards. A total of 15 airports were nominated by a panel of travel experts and Newsweek contributors. The final list was determined by Newsweek editors and votes were cast over the course of a month by the magazine's readers.



Many of our neighbors agreed on social media!

"I think it has something to do with the charcuterie vending machine, lol. I just love that it's minutes from my house :)"

"Congratulations! I love our airport!"

"I love this airport"

"I love flying in and out of STS"

"I love the way they have redone the airport... It finally feels like a legitimate airport"

"So good we didn't have to travel further into the Bay Area to make our trip happen."



2023 Airport Sample Kudos

Operations Personnel
"professionalism displayed during a gear up landing"

Enterprise Car Rental Employee
"being professional and kind"

Alaska Employee
"being incredibly helpful"

Badging Office
"being polite, accommodating, and professional"

Airport
"new terminal is both practical and very functional"

Avelo Employee
"proving great customer service"

Airport
"thank you for increasing airline services"

Airport Admin Office Staff
"being great and making the airport experience fantastic"



Outreach & Community Engagement



AirportNEXT Survey

The Airport is participating in a new program, AirportNEXT, facilitated by Airports Council International to survey local stakeholders on how well we align with groups operating within the Airport and surrounding business community in our region. Several similarly sized airports across the nation are participating. The anonymized results will give us feedback on how our airport is doing to meet our community's needs.

The survey closed in August and results will be presented to the Airport in October 2024.

Some topics that the survey covered are:

- Technology
- Workforce & Culture
- Community
- Parking
- Sustainability
- Etc.

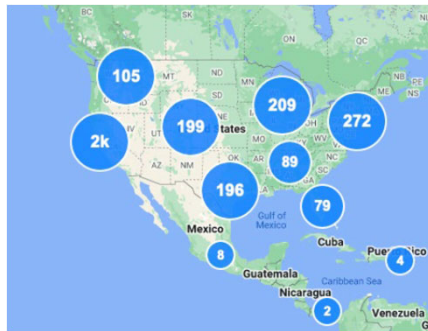


Napa to Sonoma Marathon

In 2022, STS secured the naming sponsorship for the Napa to Sonoma Wine Country Half Marathon.

Airport Marketing staff collaborated with Marathon Marketing team and the Airport was mentioned in all marathon communications and communications by their partner brands. The Marathon was also mentioned in Forbes Magazine as one of the most beautiful courses in the U.S.

4,477 participants registered from all over the world with many stopping by the STS booth to “Relax and Recharge” in the new terminal chairs with phone chargers. Airport staff volunteered support on race day.



Taste of Sonoma

The Airport participated in Taste of Sonoma, organized by Sonoma County Vintners. Hundreds of people visited the STS interactive travel lounge for a chance to win prizes that included Avelo Airlines flight vouchers.



Job Fair

The Airport hosted another successful job fair in April 2023. There were 36 combined employers and employment resource organizations. Approximately 200 job seekers attended.



Phase 1 - Community Outreach Workshops

As part of the Approach Feasibility Study, meetings were held in 2023 in Windsor and Sebastopol providing an opportunity for the community to see presentations and submit questions.

Cignus Consulting presented materials on ways to make more efficient approach and departure patterns for all runways at STS which could result in noise mitigation and reduction of emissions. Comments and questions from the public were taken in person through a court reporter, and through an online portal.



Airport Events

- **Young Eagles Rally/Girls in Aviation Day:** The Experimental Aircraft Association, Chapter 124, hosted a Young Eagles' Rally in September 2023. The Airport supported this event by participating in planning and providing graphic design, equipment, signage, parking management, and tarmac safety.
- **Hot Dog Thursdays:** The Airport partnered with the Pacific Coast Air Museum to support Hot Dog Thursdays between April and October.



Airport Events, Continued

- **Wings and Wheels:** Annual car and aircraft show hosted by the Pacific Coast Air Museum in September.
- **Challenge Air Fly Day:** Challenge Air Fly Day is a nation-wide, annual event hosting flights for kids with disabilities. Challenge Air builds self esteem and confidence through the gift of flight. Highlights of the day included and educational aircraft ground school, a 30-minutes flight, arts and crafts, aircraft static displays, service animals, lunch and music. This was the first year the Sonoma County Airport was affiliated.



SMART Connect

In June, the Sonoma-Marin Area Rail Transit (SMART) launched the SMART Connect micro-transit shuttle providing a connection between the SMART Airport Station and the Charles M. Schulz-Sonoma County Airport (STS), and the surrounding business corridor.

As of the end of 2023, SMART Connect carried nearly two-thousand riders. 90% of the rides were between the Airport and the SMART Airport station.





Terminal Updates



Terminal Modernization Project

The front of the Airport terminal and the lobby were completed in August 2023 and the Airport hosted a ribbon cutting. Upgrades that were added as a part of the terminal modernization project include:

- New access control software
- Two lactation rooms (located before and after security)
- Post-security pet relief area
- Baggage belts



Terminal Art

Upcycled Art: On display are three 12'x7' art panels created by local artist Marissa Moroz. The piece, titled “A Place Worth Visiting Is A Place Worth Protecting,” was created in partnership with Sonoma County Tourism and Creative Sonoma and celebrates the connection between art, nature, and responsible travel. The art also incorporates recycled and repurposed materials.

Peanuts Movie: Craig Schulz provided clips from the Peanuts Movie with approval from Disney, including the Red Baron chase scene, which are playing in the baggage claim area, as Snoopy’s Dream.



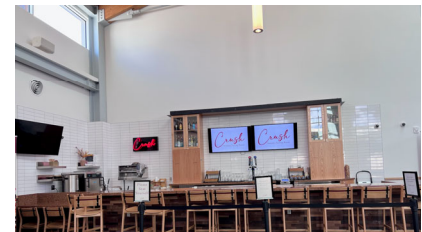
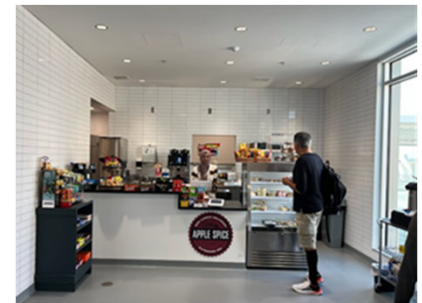
New Concessions

Apple Spice: Serves fresh sandwiches, coffee drinks, and pizza. Now located in the newly opened Concourse A, previously located in Concourse B.

Crush Wine Bar: Opened in August 2023 in Concourse A with light snacks, cocktails, and local wine and beer.

Vending Program: Several new vending machines have been installed or are coming soon. Already installed: Illy (coffee drinks), Sound Machine (headphones and chargers), Travel Essentials (toiletries and medications), Jay Byrd Enterprises (diapers, formula, etc.), and Canteen Meats (locally produced charcuterie and salt cured meats). **Coming soon:** Yo-Kai Express (hot soups and noodles), Clockwork (robot manicure), and Just Baked Bistro (sliders, pretzels, pizza sticks and breakfast sandwiches).

Runway Wellness: Opened in October 2023 and offering fresh smoothies, light food, chair massages, and manicures offered outside the terminal, next to Costeaux on the Go.





Project Updates



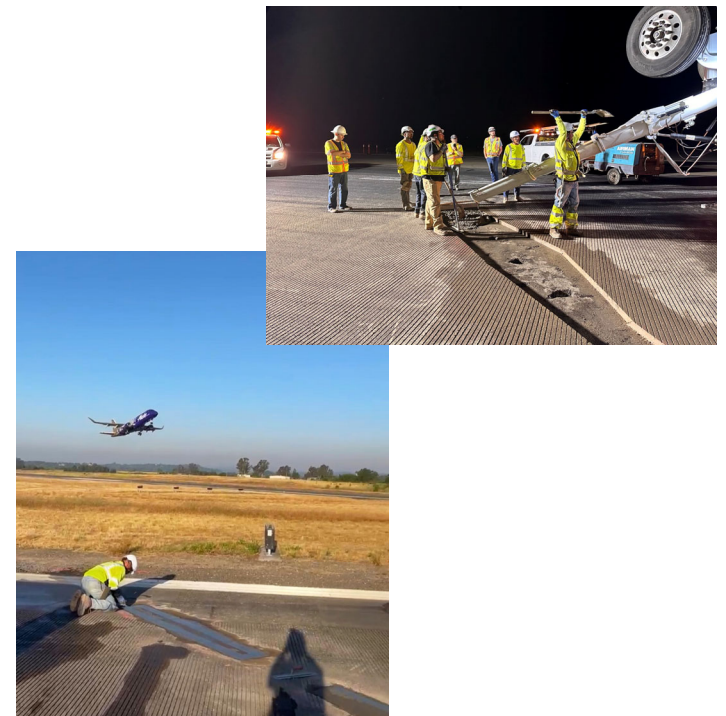
Airport Funded Projects



Runway 14-32 Repairs

A storm culvert located under a portion of Runway 14-32 began failing in 2023. This resulted in the deterioration of the runway pavement in the location where the culvert crosses under the Runway. Extensive monitoring of the Runway condition and temporary repairs were made as needed until a full repair could be completed in June, 2024. The repair included excavation of 235-linear-foot trench at a depth of approximately 12 feet deep, replacement of the failing culvert, and mill and overlay repairs as needed in other areas showing signs of cracking.

The repairs required Runway 14-32 to be closed for approximately 30 hours on June 24-26th. Flight operations scheduled for that time frame were re-routed to Runway 2-20 and no commercial flights were affected.



Consolidated Rental Car Facility

The Consolidated Rental Car Facility (ConRAC) was first presented to the BOS on April 30, 2019 as a future project for rental car operators to handle their growth. In addition, the BOS also approved the collection of a Consolidated Rent A Car Facility Charge (CFC) of \$10.00 per rental car contract to pay for the costs of the feasibility analysis, environmental review, and design and construction of the ConRAC. The purpose of the ConRAC is to provide one location for all rental car operators for pickup and return, and parking, fueling, washing, and maintaining their fleet of automobiles.

On March 1, 2022, the BOS found that the information provided in the feasibility study and audit report adequately established the cost to design and build the ConRAC.

Current Status: working with rental car agencies on the best delivery methods. Anticipate returning to the Board with Expectations in Spring 2025.



Organizational Review

Building on the 2023 Staffing Study Results by ADK

Initial study projected the need for nine additional staff to accommodate anticipated growth over the next five years.

Comprehensive Review in Progress

A thorough review and proposed recommendations are currently underway. This review examines all staffing needs of the airport, covering both field and office roles.

Prioritization of Needs

The plan will prioritize staffing requirements over the next five years including maintenance, operations, and administrative personnel with the goal to scale staffing levels in line with the growing demands of the airport.



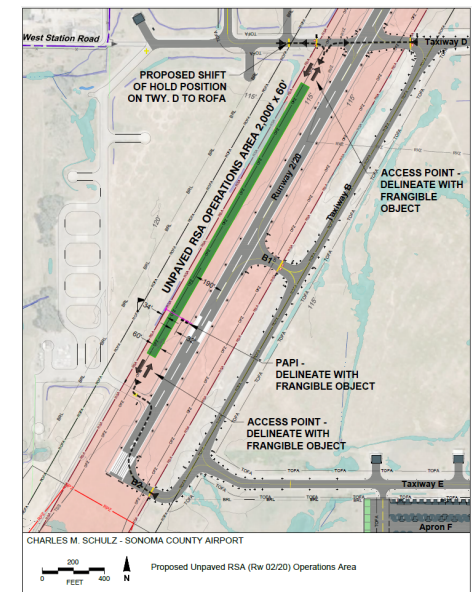
Additional Airport Funded Projects

Asset Management Software: The Airport has contracted with Veoci to improve efficiencies when managing Airport Assets and Agreements.

Runway 02/20 Alternate Surface: If approved, an alternate surface runway south of Taxiway D, adjacent to runway 2/20, that measures 2,000ft x 60ft, would be available for use to the general aviation public with lightweight, single engine aircraft. It would only be open seasonally, approximately May – October, and only when the Air Traffic Control Tower is open. Users would be required to inspect the surface and sign a waiver before use. A draft memorandum of understanding has been provided to the Air Traffic Control Tower and County Counsel for their review.



Alternate Surface Runway



Additional Airport Funded Projects

Sustainability Management Plan: STS is currently in the process of developing a Sustainability Management Plan (SMP) for the Airport in alignment with the FAA's Sustainability Planning Program, as well as the County's sustainability efforts. The Plan will establish a sustainability vision, baseline, goals, initiatives, and implementation strategy for the Airport to grow its sustainability program.

Apron F Restroom: A new restroom unit was installed by Airport Maintenance staff in Apron F in late September 2023. A replacement was needed for an older unit that had reached the end of its life cycle.

Apron F Restroom



Additional Airport Funded Projects

Approach Feasibility Study: Cignus Consulting was contracted to present options on ways to make more efficient approach and departure patterns for all runways at STS which could result in noise mitigation and reduction of emissions. Community Outreach Workshops were held to share information and collect public feedback.

Overflow Parking Lot: Construction on a new gravel parking lot will commence and complete in summer 2024. The lot will allow for an additional 150+/- parking spots for terminal staff and rental car parking.

Security Services: KR Contracting began providing security at the Airport in November 2023, taking over duties from SP+. SP+ remains the parking operation center.

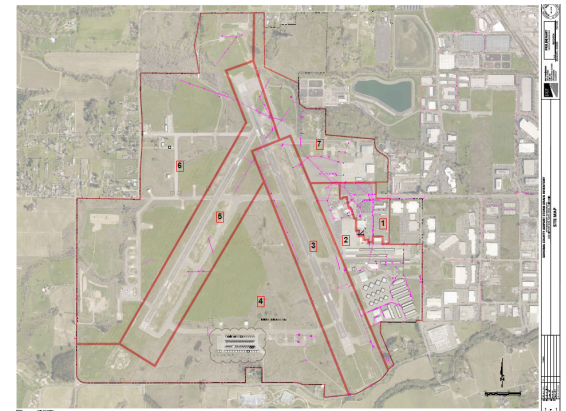


Location of overflow parking lot



Additional Airport Funded Projects

Stormwater System Survey: This project involves a comprehensive survey of the stormwater piping system, focusing on the assessment of stormwater inlets, manholes, and associated pipes. The survey will include GPS-based location mapping of all system components, identifying the precise geographical coordinates of inlets, manholes, and other relevant structures. Additionally, data collection will encompass the identification of pipe types, sizes, and depth. The goal of the project is to gather accurate and detailed information that will facilitate maintenance planning, system upgrades, and compliance with stormwater management regulations. At the completion of this part of the project, the Airport will then seek proposals for video assessments of the piping network.



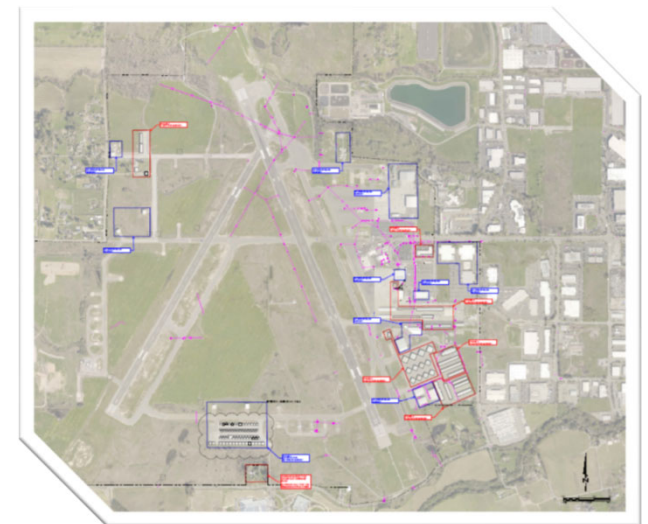
Additional Airport Funded Projects

Master Fuel Farm Feasibility Study: This project involves conducting a feasibility study for the development and operation of a master fuel farm location, including sustainable aviation fuels. The study aims to assess the technical, financial, and operational viability of establishing a central fuel storage and distribution facility to support Airport operations and airline partners.



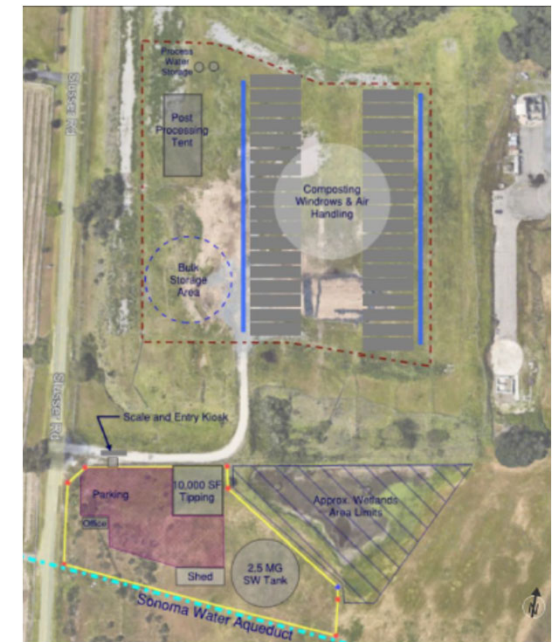
Additional Airport Funded Projects

Building Survey: This project involves conducting a GPS-based survey of buildings within the Airport with a focus on County owned buildings. The survey will capture precise location data for each building, including detailed interior layouts for most structures. A key focus will be identifying and documenting the locations of utility meters (electric, gas, and water). The collected data will be integrated into the County's Geographic Information System (GIS) mapping platform to enhance infrastructure planning, resource management, and emergency response capabilities. This project will ensure up-to-date, accurate mapping of building footprints and utility assets, contributing to more efficient county operations.



Additional Airport Funded Projects

Compost Facility: In collaboration with the Refuse Division, this project consists of developing a state-of-the-art composting facility at the Airport landfill. This eco-friendly project aims to divert organic waste from landfills and convert it into nutrient-rich compost. The facility will process food waste, yard trimmings, and agricultural residues, supporting local waste reduction and promoting soil health. The project involves site remediation for environmental safety, installing composting infrastructure (aeration systems, leachate management, and odor control), and integrating energy-efficient operations. This transformation will revitalize the environment and provide a sustainable resource for agriculture and land rehabilitation.



Federal Grant Funded Projects



Federal Grant Summary

Grants Awarded in 2023	5
Total Grant Funds Awarded in 2023	\$5,354,915
Grants Awarded in 2024	2
Total Grant Funds Awarded in 2024	\$5,092,945



Federal Grant Funded Projects

		Grant Amount	% Covered	Balance Available as of July 1, 2024
AIP 57	Airport Terminal Construction Phase 1	\$10,000,000	90.66%	\$0
AIP 58	Airport Terminal Construction Phase 2	\$12,509,816	100%	\$0
AIP 59	Coronavirus Aid, Relief, and Economic Security (CARES) Act	\$19,661,086	100%	\$0
AIP 61	Runway Safety Area Project Environmental Mitigation Phase II	\$1,441,540	100%	\$802,753



New Terminal Interior & Exterior



Federal Grant Funded Projects, Cont.

		Grant Amount	% Covered	Balance Available as of July 1, 2024
AIP 65	Coronavirus Response and Relief Supplemental Appropriations (CRRSA) Act	\$2,108,751	100%	\$0
AIP 67	Airport American Rescue Plan (ARP) Act	\$3,209,452	100%	\$40,053
AIP 68	Airport American Rescue Plan (ARP) Act – Concession Relief	\$205,486	100%	\$0
AIP 69	Taxiway A Rehabilitation	\$3,832,145	90.66%	\$252,376

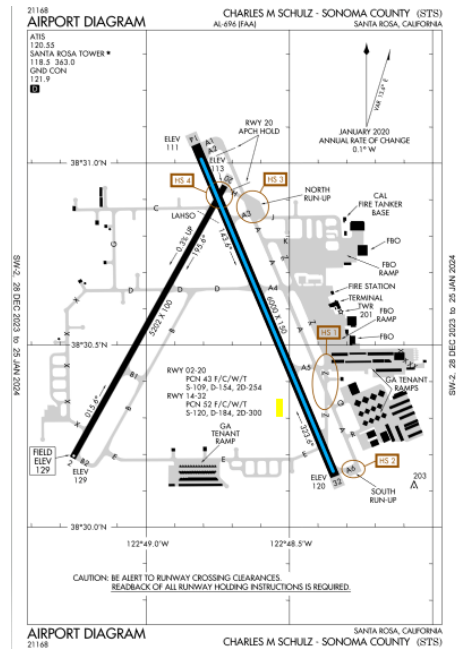
Taxiway A Rehabilitation



Federal Grant Funded Projects, Cont.

		Grant Amount	% Covered	Balance Available as of July 1, 2024
AIP 70	Runway 14/32 Rehabilitation Preliminary Engineering Study	\$492,397	90.66%	\$492,397
AIP 71	ARFF Building Relocation Preliminary Engineering Study	\$498,779	90.66%	\$498,779
AIP 72	Wildlife Perimeter Fencing Installation	\$1,715,321	90.66%	\$408,341
AIP 73	Apron Reconstruction Design	\$2,331,108	90.66%	\$1,518,244

Runway 14/32



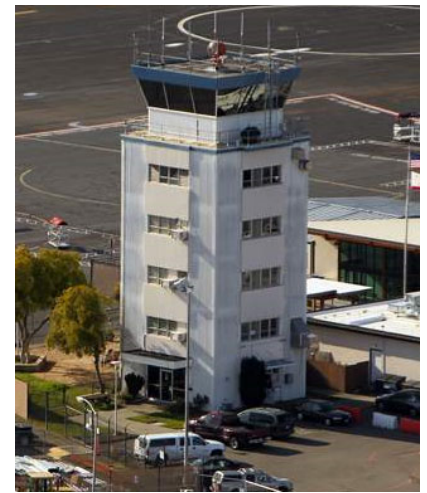
Federal Grant Funded Projects, Cont.

		Grant Amount	% Covered	Balance Available as of July 1, 2024
AIP 74	Air Traffic Control Tower Siting Study	\$317,310	90.66%	\$283,900
AIP 75	Airline Apron Reconstruction Phase 1A	\$2,524,550	90.66%	\$0
AIP 76	Airline Apron Reconstruction Phase 1A	\$2,568,395	90.66%	\$0
CALOES	Airport Operations Center Emergency Backup Generator	\$408,990	67%	\$51,349

Backup Generator Poured Concrete Slab



Current Air Traffic Control Tower



Operations, Facilities, and Equipment



Monarch EV Tractor

STS is the first airport to purchase an electric tractor from Monarch. This purchase, and the purchase of an additional EV tractor, is being funded through a grant through the State of California Air Resources Board Clean Off-Road Equipment (CORE) program 75% with a 25% match requirement and Monarch Tractor of Livermore, CA from the program's product eligibility list.

The tractor is a Monarch MK-V EV tractor capable of autonomous operation (driverless) if that use is approved by the FAA. It will be used primarily for mowing the Airport's Airfield Safety Area.



Airport Development Project

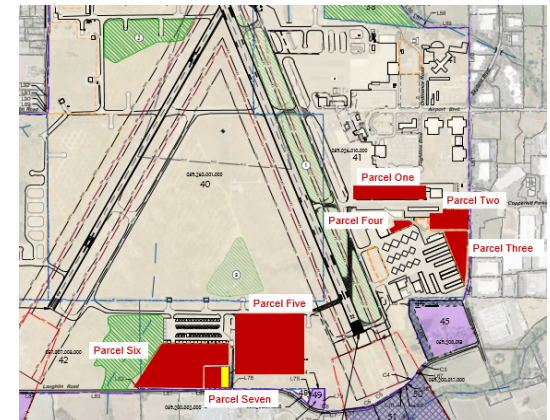
The Airport recently issued a request for interest for aeronautical development on vacant parcels around the Airport.

Purpose:

- Invite development concepts for the lease and develop of various parcels at STS
- Focus on best use of parcels, primarily for aeronautical purposes, with one parcel allowing for non-aeronautical use
- Airport revenue enhancement

Key Parcels for Development:

- Parcel One: 4.54 acres – Aeronautical use only.
- Parcel Two: 3.00 acres – Aeronautical use only.
- Parcel Three: 2.62 acres – Mixed-use potential (aeronautical/non-aeronautical).
- Parcel Four: 0.83 acres – Aeronautical use only.
- Parcel Five: Under 8 acres – Aeronautical use only, pending environmental studies.
- Parcel Six: 8.50 acres – Aeronautical use only.
- Parcel Seven: 2.40 acres – Mixed-use potential with historical property.



Airport Development Project

Development Objectives

- Maximize aeronautical community benefits while minimizing risk
- Ensure environmental sustainability and align with regional development
- Utilize green building practices

Opportunities for Developers:

- Long-term leasing (up to 40 years)
- Development costs borne by lessees
- Incentives include potential rent offsets for improvements



Microgrid

The Airport is in the process of determining the feasibility of establishing a microgrid to provide a more sustainable and stable electrical power system. Initial assessments and analysis will focus on:

- Assessing existing site conditions, operations and energy needs
- Reviewing system configuration and capacity recommendations (i.e., technology type, sizing, etc.)
- Engaging with key stakeholders
- Conducting a high-level siting analysis for major system components
- Analyzing high-level costs and benefits (including multiple value streams from economic to environmental to resiliency)
- Additional considerations such as staffing; timelines/sequencing (i.e., infrastructure before EV purchases, etc.)



Toro Riding Mower

STS purchased a “Zero Turn” mower through the “Sourcewell” procurement service. The mower was received in October 2023.

This type of mower has a grass catcher and will be used along the Taxiway and Runway edges. It will also be used in areas where Helicopters operate to prevent Foreign Object Debris (FOD) being blown out onto Taxiways and Runways.



Hybrid Truck

STS purchased two Ford F-150 Crew Cab trucks outfitted with amber light bars, airfield radios, and fire extinguishers. The trucks also have electrical outlets located in the beds that can be used for power tools, lights, etc.

The trucks are well liked by staff and save on fuel costs by utilizing the electric engine - especially while staff are stationary on the aircraft ramp during regular shift duties. The crew cab allows extra storage of tools, spill kits, and first aid and blood born pathogen kits.



Crash Alarm

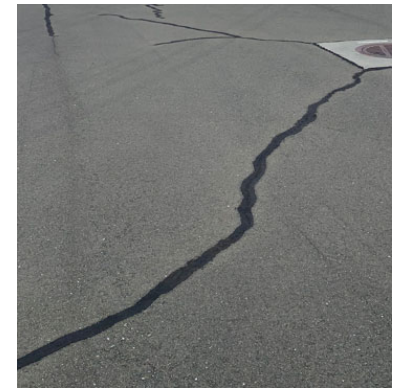
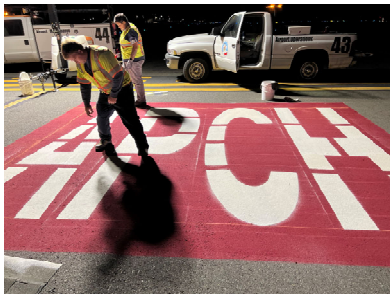
STS upgraded the “Crash phone”, which is in the tower and is used by air traffic controllers to send out alerts to Operations/ARFF staff when there is an aircraft emergency. When a controller reports a crash through the phone the message is transmitted to Operations and ARFF staff. The staff can then begin executing emergency response plans immediately. The transmitted alert also opens rollup doors at the firehouse and sounds an alarm bell. Along with the new phone, external speakers at the firehouse have been added, as well as colored beacons on the SIDA ramp to improve the alert system for staff not wearing emergency pagers.

The new system was installed in spring of 2024.



Airfield Painting and Maintenance

The Airport Maintenance crew accomplished some large-scale painting projects around the Airport during the 2023 and 2024, including; applying ground markings at approach ends of runway 20 at the terminal arc after Taxiway A; a refresh of the enhanced center line at Taxiway A5; and a refresh curbs and vehicle lanes in front of the terminal. Maintenance staff also maintained asphalt conditions and applied crack fill as needed.





Thank You

