G FAA PBN Design Team Briefing

Appendix G: FAA PBN Desig	n Team Briefing		

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G.1 Introduction

In Section 2.0 that follows, the San Antonio Airspace Modernization Project Performance Based Navigation (PBN) Design Team developed a briefing depicting the timeline and outcomes of a deliberative design process that, when taken as the whole of many individual design efforts, forms the basis for a viable alternative under consideration in this Draft Environmental Assessment (Draft EA). Note that at the date of this briefing, design was largely complete but some minor alterations to lateral or vertical orientation may have been necessary, and any discrepancies from the procedures featured in this Appendix and those evaluated in the Draft EA were captured in the alternative evaluated in this Draft EA document. No further design changes have been made following evaluation of the alternative in the Draft EA.

G.2 FAA PBN Design Team Briefing

Follows.

Intro to Preliminary Design & Community Engagement Discussion for San Antonio International Airport

February 2022





Project History

- April 2015 IFP Request Initiated
- August 2015 Internal FAA Approval to begin project
- March 2016 Kickoff and Preliminary Design Meeting in San Antonio
- April/May 2016 PBN Design Meetings in San Antonio
- July 2016 PBN Design Meetings in San Antonio
- March 2017 Meeting with SAT Airport Director and RA
- September 2017 PBN and Community Engagement Meetings in SAT with Airport Director
- December 2017 PBN Project put on hold due to funding lapse
- August 2018 Project restart and CE planning restart with RA
- September 2018 PBN and CE Planning Meetings in SAT with RA and Airport Director
- March 2019 PBN sends procedures to begin noise analysis
- March 2020 COVID delays procedure planning
- July 2021 Project restarted
- August 2023 Scheduled Publication

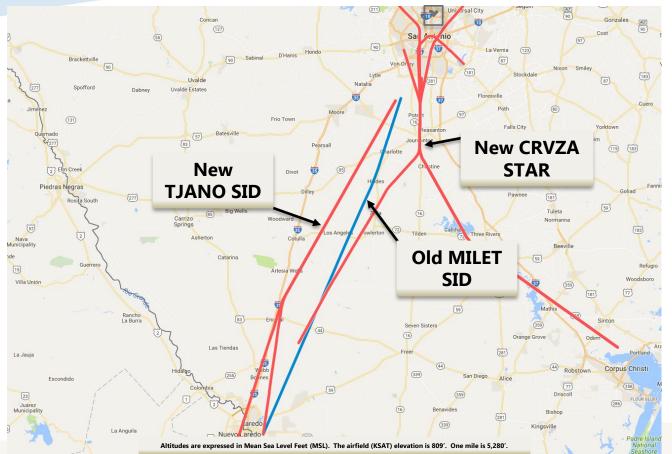


Mature Designs Introduction

NORTH & SOUTH FLOW

TJANO Departure off KSAT

MILET4 RNAV Departure discontinued and replaced with TJANO Departure for Aircraft filed to the Southwest



~7,200 Departures

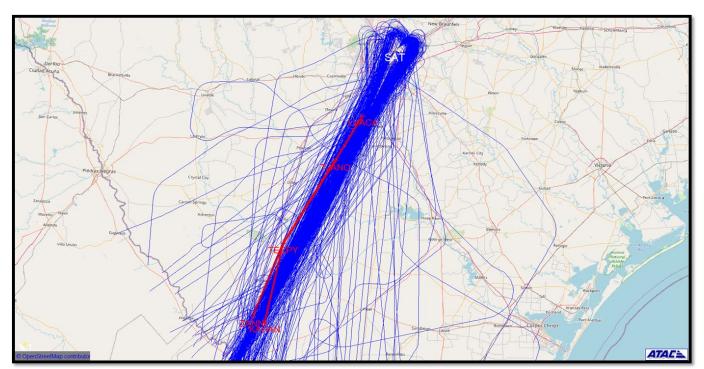
~19 per day
(Estimate based on 4
weeks of 2021 seasonal
traffic)



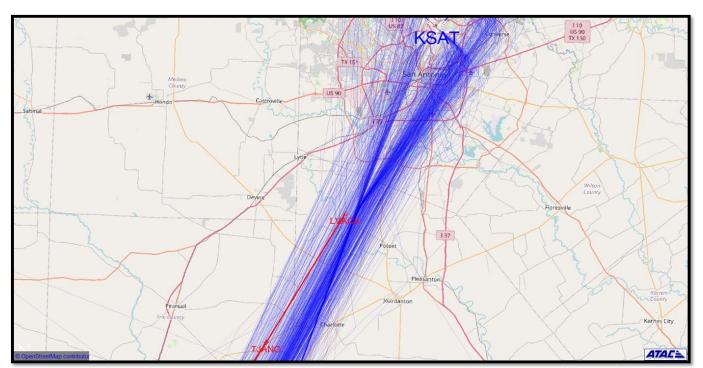




Proposed TJANO- Currently MLET4 (601 tracks-4 weeks)



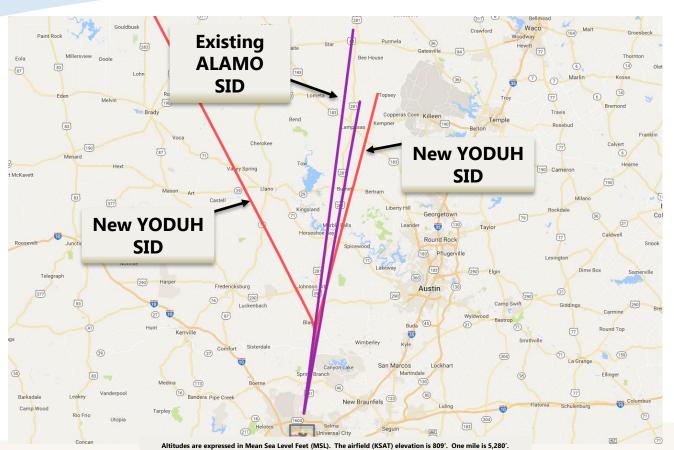
Proposed TJANO- Currently MLET4 (Zoomed-in View)



NORTH & SOUTH FLOW

YODUH Departure off KSAT

ALAMO Conventional Departure will remain and the YODUH RNAV Departure will be added for Aircraft filed to the North



~18,000 Departures

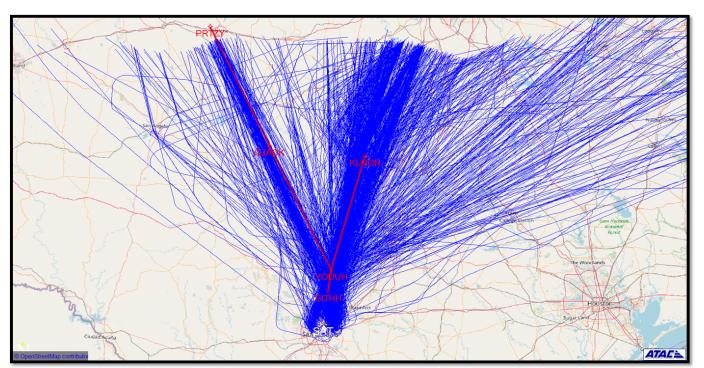
~49 per day
(Estimate based on 4
weeks of 2021 seasonal
traffic)

RNAV DEPARTURE PROCEDURES

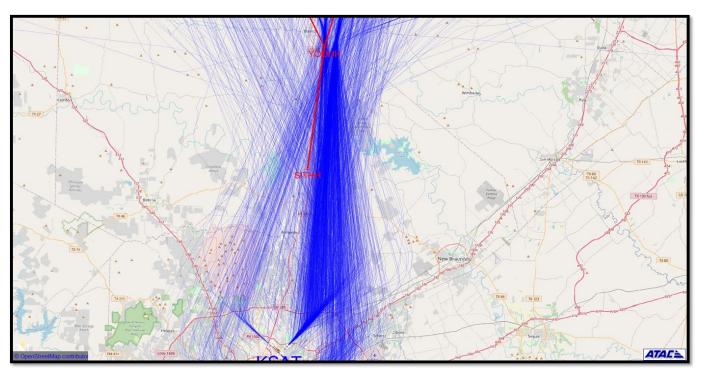




Proposed YODUH- Currently ALAMO3 (1503 tracks-4 weeks)

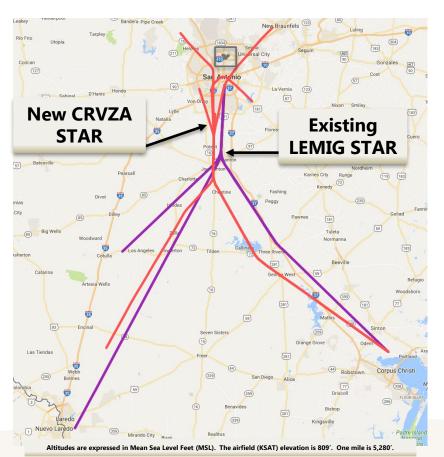


Proposed YODUH- Currently ALAMO3 (Zoomed-in View)



CRVZA Arrival to KSAT

LEMIG Conventional Arrival will remain and the CRVZA RNAV Arrival will be added for Aircraft from the South



~10,000 Arrivals

~27 per day
(Estimate based on 4
weeks of 2021 seasonal
traffic)

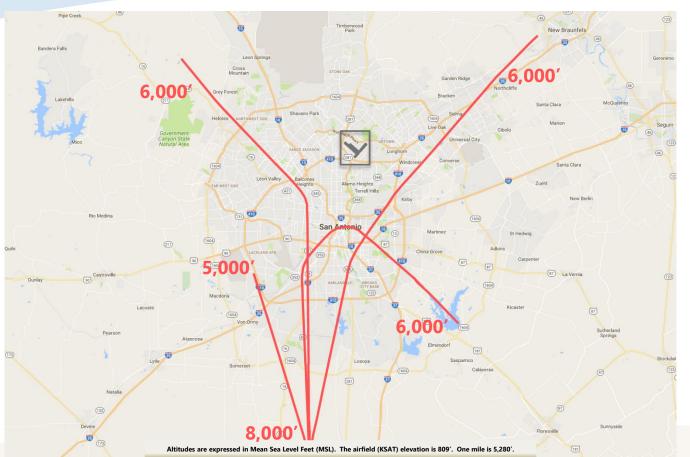
RNAV ARRIVAL PROCEDURES





CRVZA Arrival to KSAT

LEMIG Conventional Arrival will remain and the CRVZA RNAV Arrival will be added for Aircraft from the South



~10,000 Arrivals

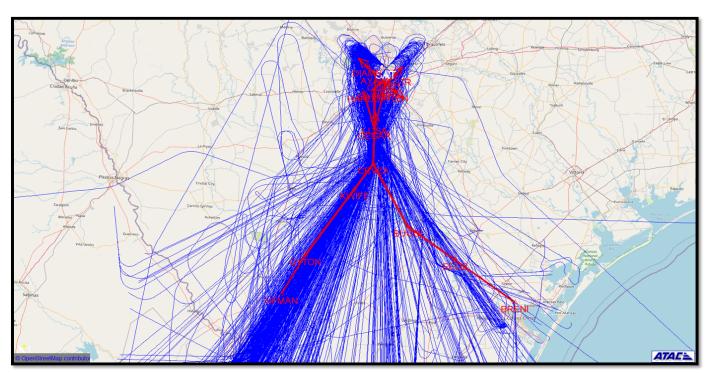
~27 per day
(Estimate based on 4
weeks of 2021 seasonal
traffic)

RNAV ARRIVAL PROCEDURES

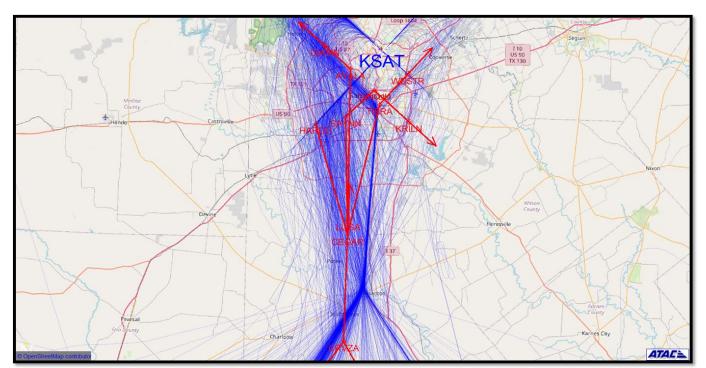




Proposed CRVZA- Currently LEMIG1 (833 tracks-4 weeks)

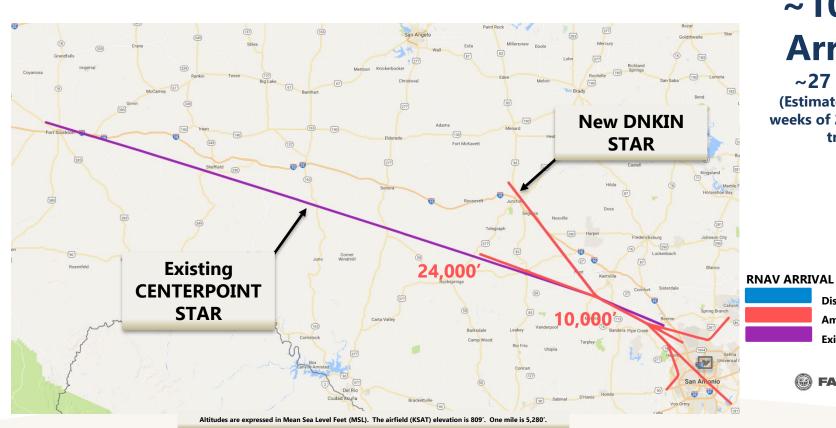


Proposed CRVZA- Currently LEMIG1 (Zoomed-in View)



NORTH & SOUTH FLOW DNKIN Arrival to KSAT

CENTERPOINT Conventional Arrival will remain and the DNKIN RNAV Arrival will be added for Aircraft from the Northwest



~10,000 **Arrivals**

~27 per day (Estimate based on 4 weeks of 2021 seasonal traffic)

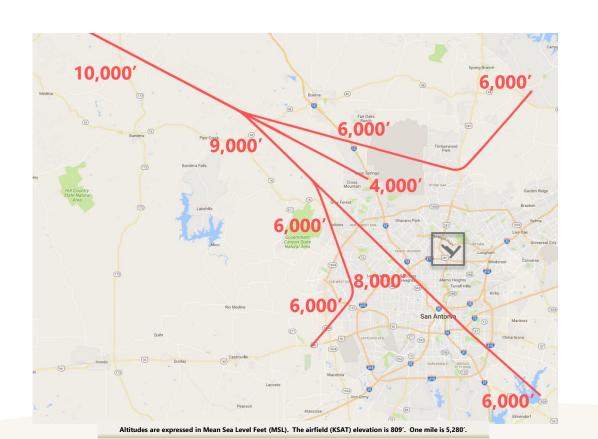
RNAV ARRIVAL PROCEDURES





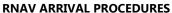
DNKIN Arrival to KSAT

CENTERPOINT Conventional Arrival will remain and the DNKIN RNAV Arrival will be added for Aircraft from the Northwest



~10,000 Arrivals

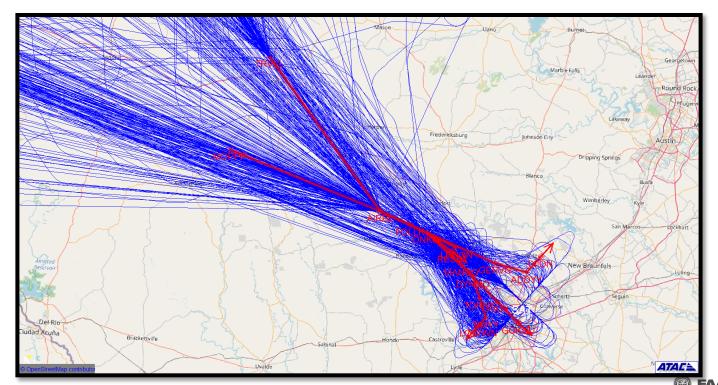
~27 per day
(Estimate based on 4
weeks of 2021 seasonal
traffic)



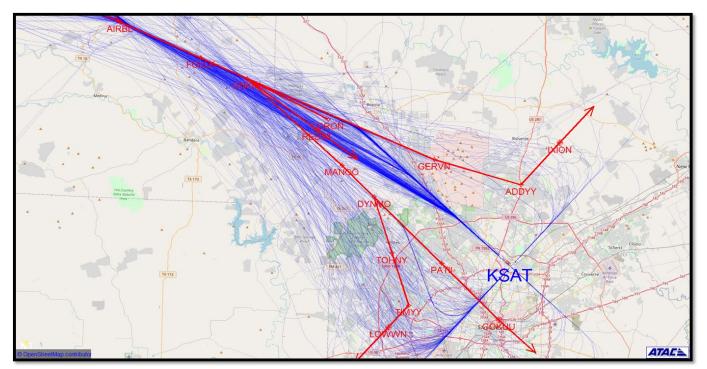




Proposed DNKIN- Currently CENTERPOINT2 (843 tracks-4 weeks)



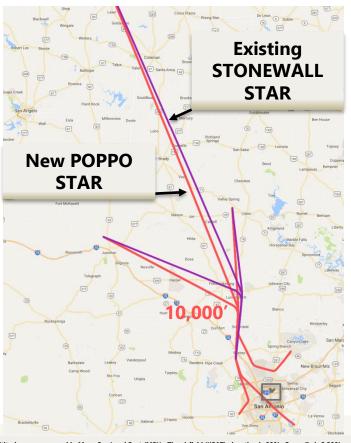
Proposed DNKIN- Currently CENTERPOINT2 (Zoomed-in View)



NORTH & SOUTH FLOW

POPPO Arrival to KSAT

STONEWALL Conventional Arrival will remain and the POPPO RNAV Arrival will be added for Aircraft from the North



~5,200 Arrivals

~14 per day (Estimate based on 4 weeks of 2021 seasonal traffic)

RNAV ARRIVAL PROCEDURES

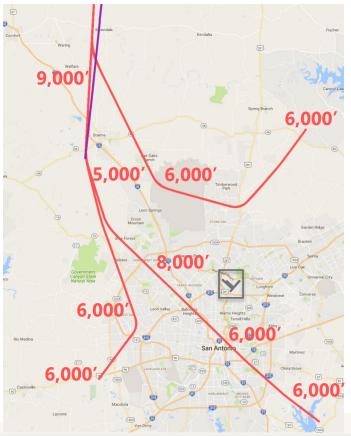




Altitudes are expressed in Mean Sea Level Feet (MSL). The airfield (KSAT) elevation is 809'. One mile is 5,280'.

POPPO Arrival to KSAT

STONEWALL Conventional Arrival will remain and the POPPO RNAV Arrival will be added for Aircraft from the North



~5,200 Arrivals

~14 per day (Estimate based on 4 weeks of 2021 seasonal traffic)

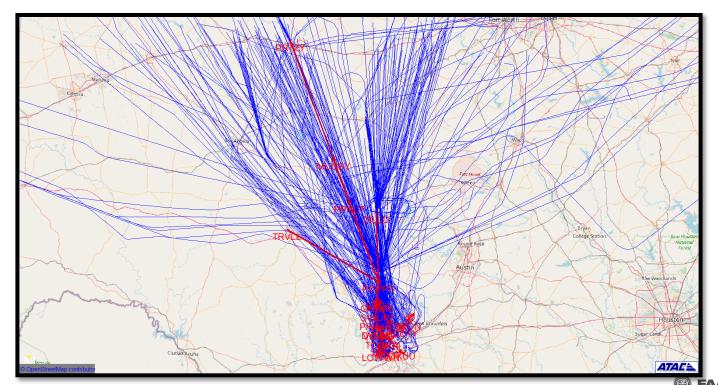
RNAV ARRIVAL PROCEDURES



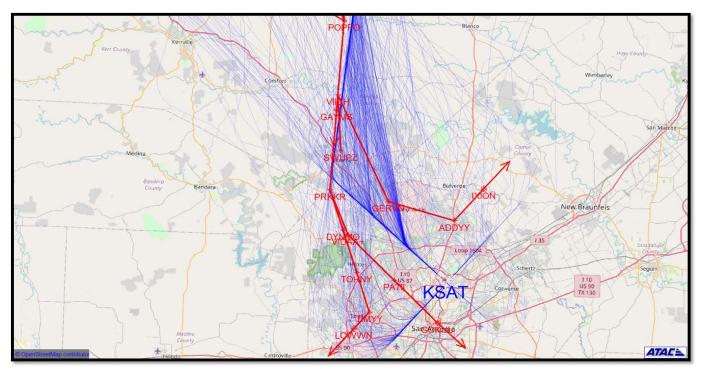


Altitudes are expressed in Mean Sea Level Feet (MSL). The airfield (KSAT) elevation is 809'. One mile is 5,280'.

Proposed POPPO- Currently STONEWALL1 (435 tracks-4 weeks)

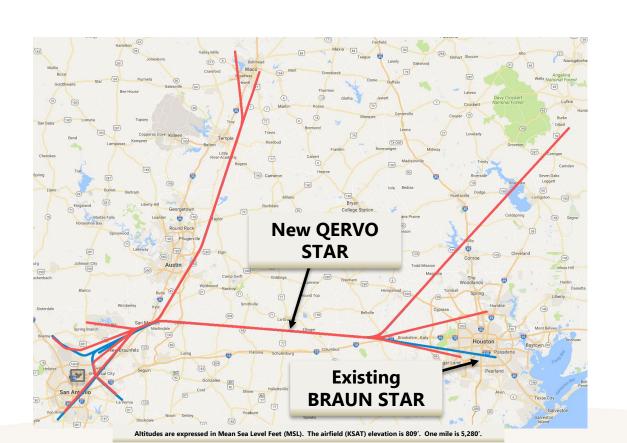


Proposed POPPO- Currently STONEWALL1 (Zoomed-in View)



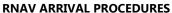
QERVO Arrival to KSAT

BRAUN Conventional Arrival will be cancelled and the QERVO RNAV Arrival will be added for Aircraft from the Northeast



~18,700 Arrivals

~51 per day (Estimate based on 4 weeks of 2021 seasonal traffic)

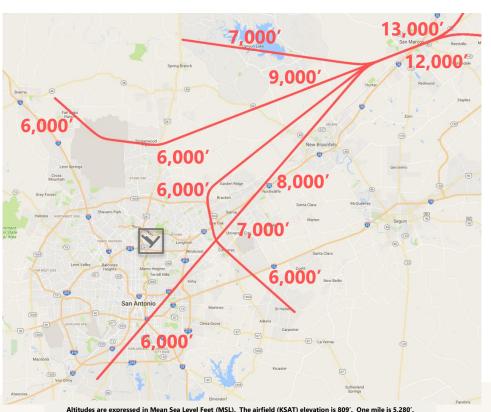






NORTH & SOUTH FLOW QERVO Arrival to KSAT

BRAUN Conventional Arrival will be cancelled and the QERVO RNAV Arrival will be added for Aircraft from the Northeast



~18,700 **Arrivals**

~51 per day (Estimate based on 4 weeks of 2021 seasonal traffic)

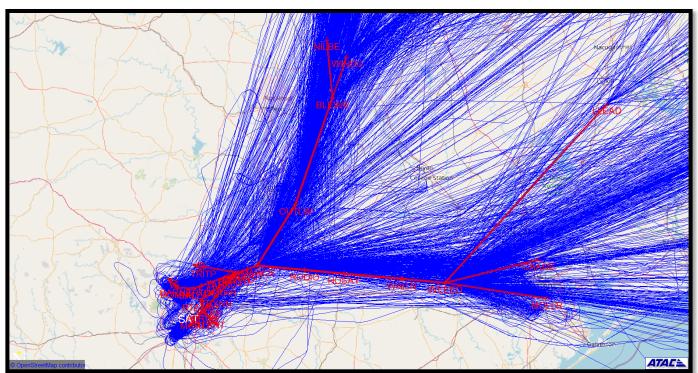
RNAV ARRIVAL PROCEDURES



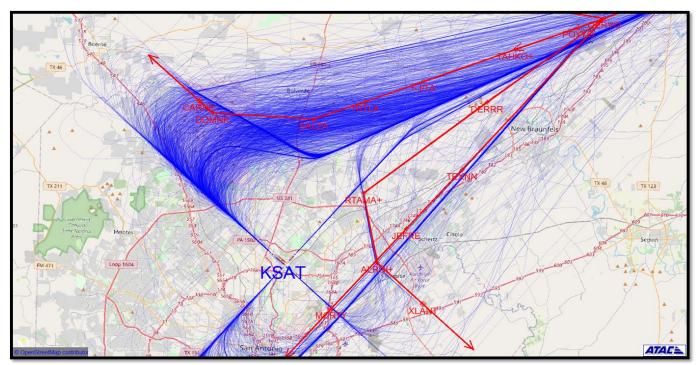


Altitudes are expressed in Mean Sea Level Feet (MSL). The airfield (KSAT) elevation is 809'. One mile is 5,280'.

Proposed QERVO- Currently BRAUN3 (2391 tracks-4 weeks)



Proposed QERVO- Currently BRAUN3 (Zoomed-in View)



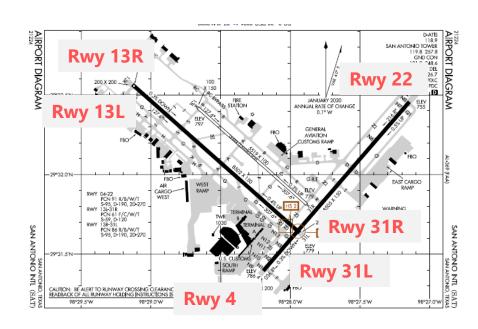
San Antonio International Runway Usage

Arrival operations:

- + Runway 13R—68%
- → Runway 13L—5%
- Runway 31L—9%
- + Runway 4—15%
- Miscellaneous Mixed Usage—3%

Departure operations:

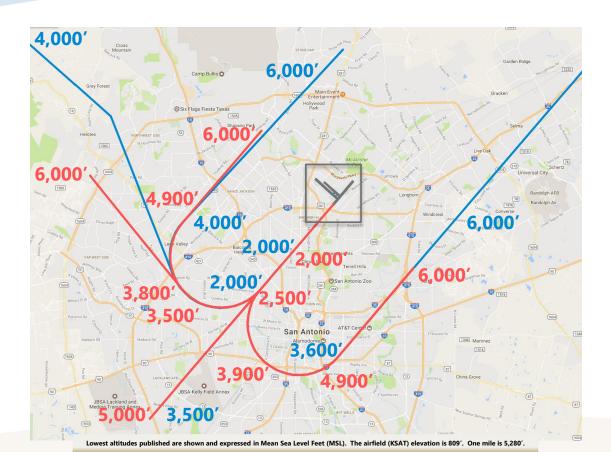
- + Runway 13R—36%
- Runway 13L—4%
- Runway 31L—9%
- + Runway 4—46%
- Miscellaneous Mixed Usage—5%





NORTH FLOW

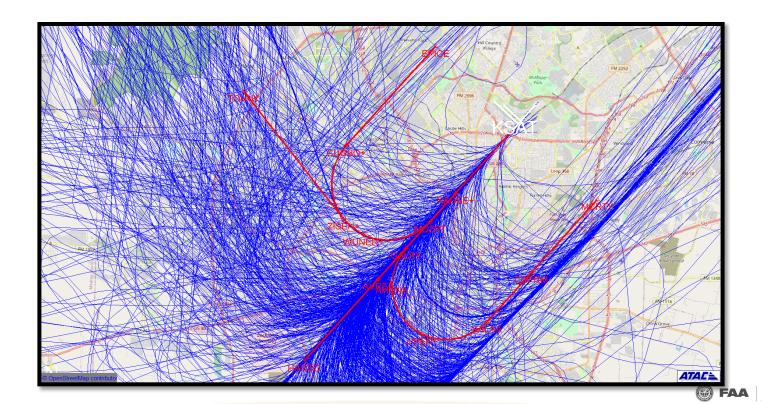
RNP Approach Runway 4



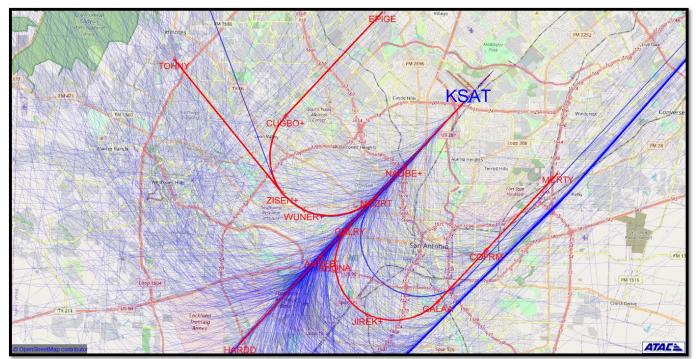




RNP Approach Runway 4 (1080 tracks-4 weeks)

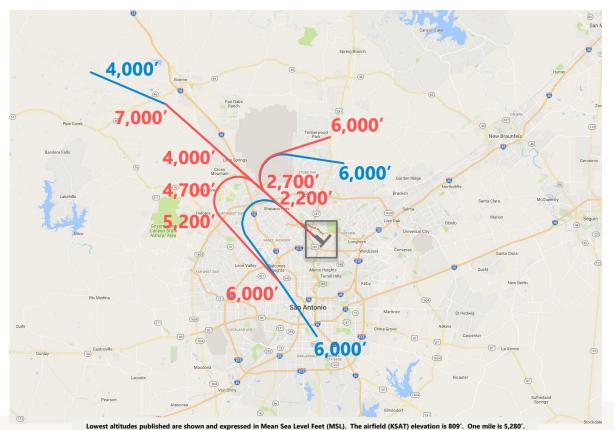


RNP Approach Runway 4 (Zoomed-in View)



SOUTH FLOW

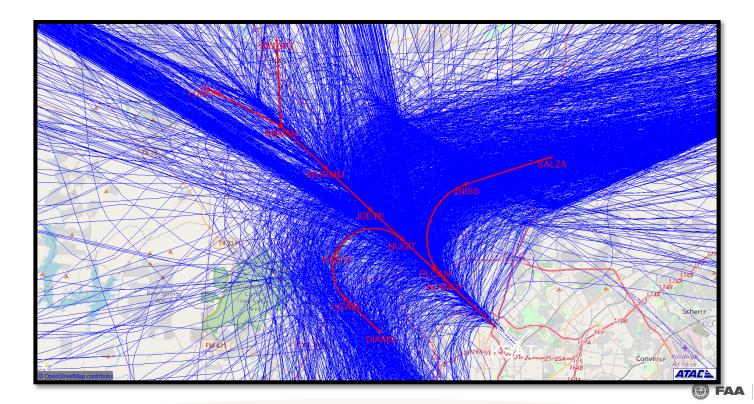
RNP Approach Runway 13R



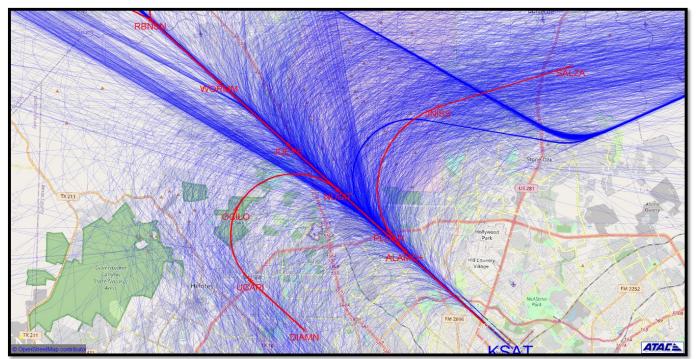




RNP Approach Runway 13R (3219 tracks-4 weeks)

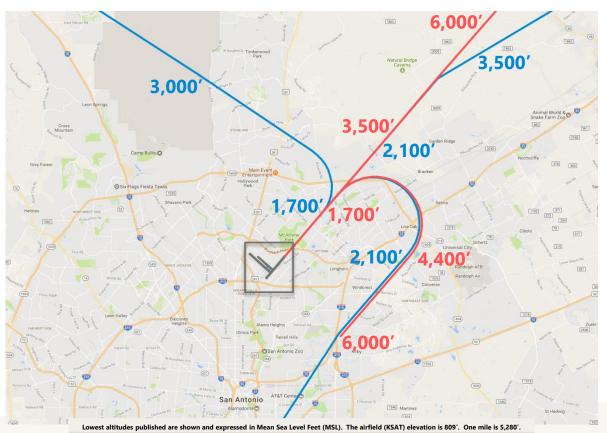


RNP Approach Runway 13R (Zoomed-in View)



SOUTH FLOW

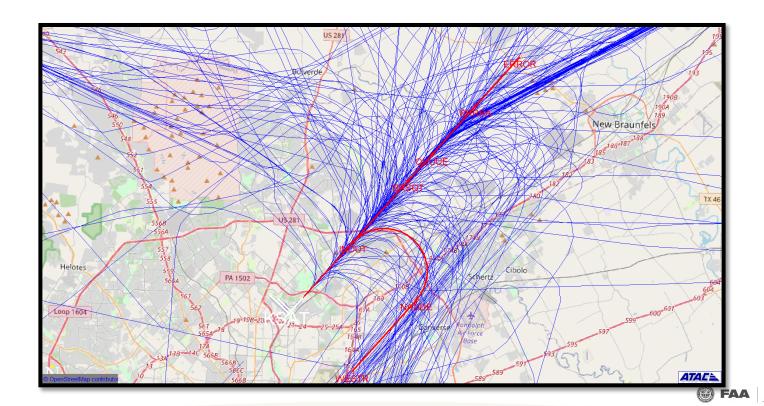
RNP Z Approach Runway 22



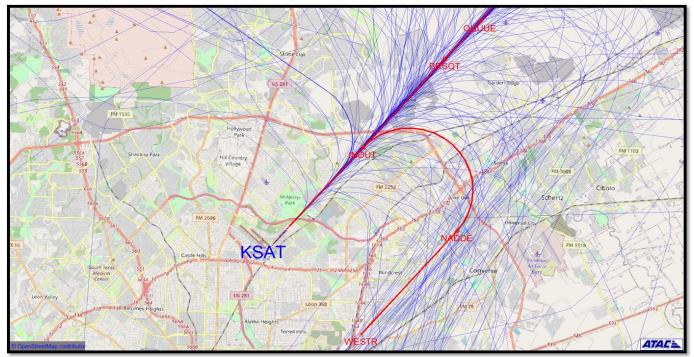




RNP-Z Approach Runway 22 (273 tracks-4 weeks)

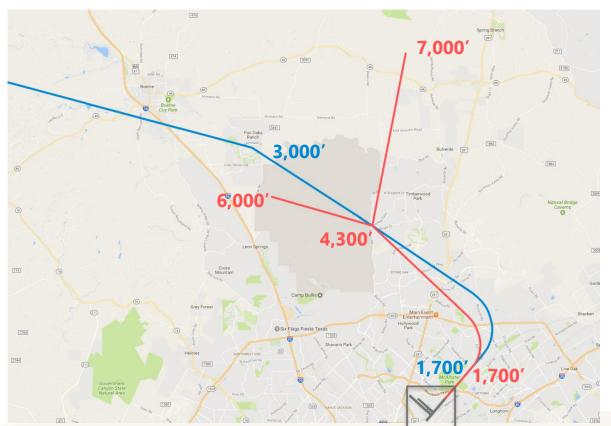


RNP-Z Approach Runway 22 (Zoomed-in View)



SOUTH FLOW

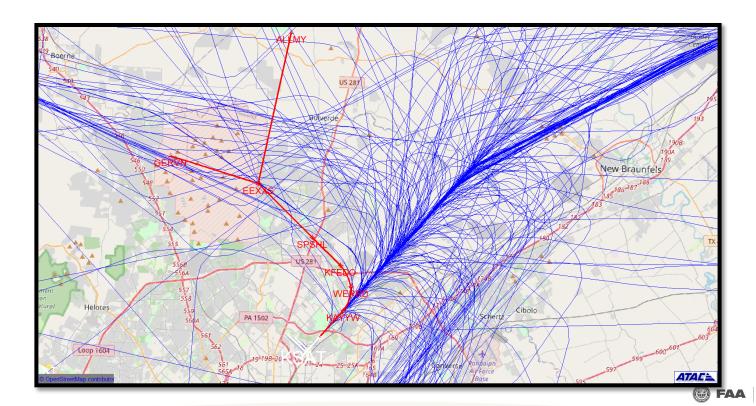
RNP X Approach Runway 22



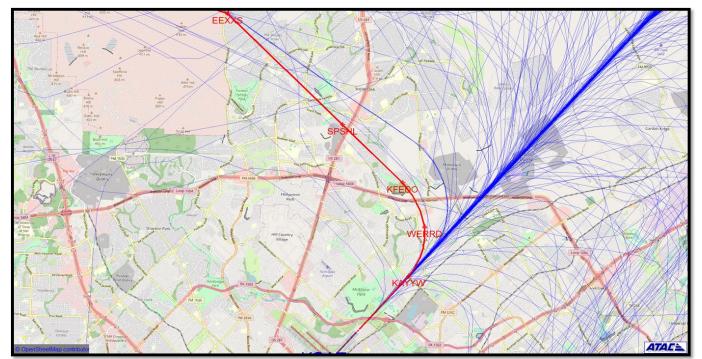




RNP-X Approach Runway 22 (273 tracks-4 weeks)

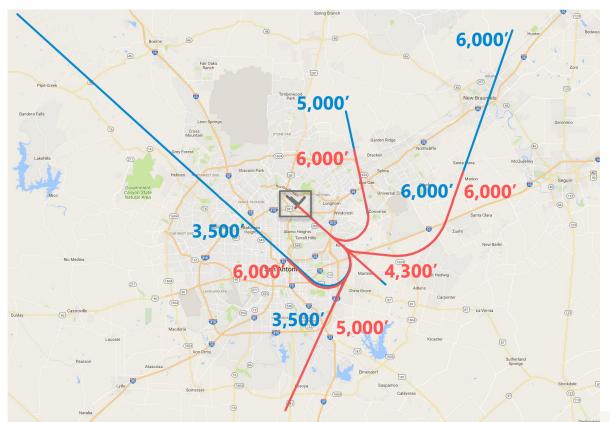


RNP-X Approach Runway 22 (Zoomed-in View)



NORTH FLOW

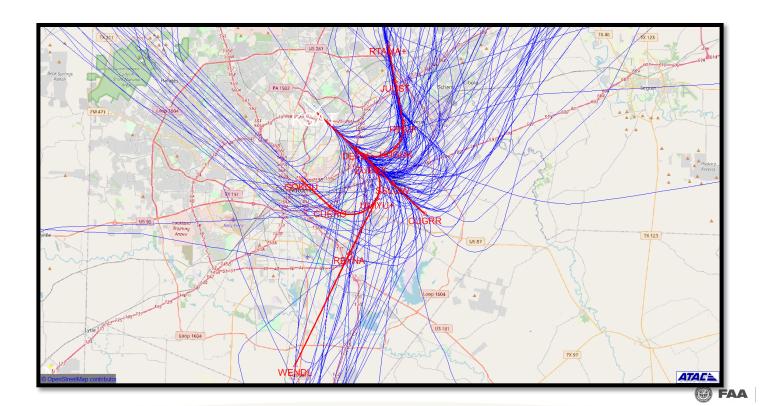
RNP Approach Runway 31L



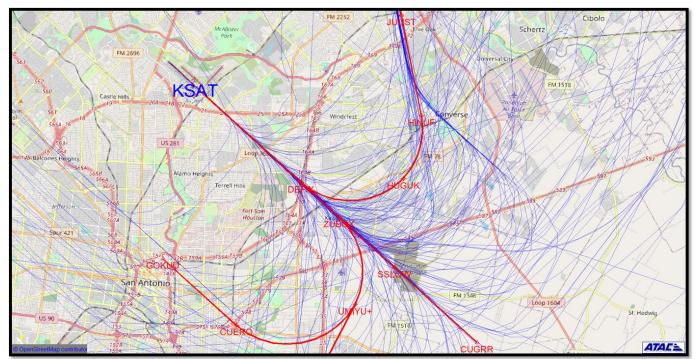




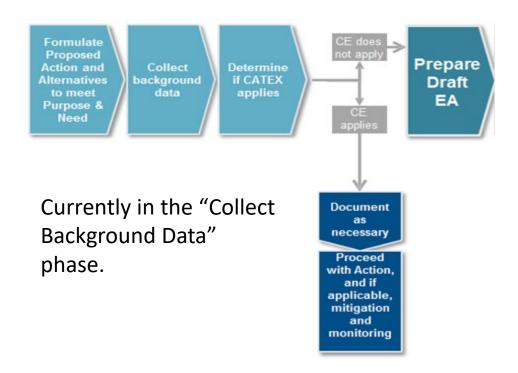
RNP Approach Runway 31L (163 tracks-4 weeks)



RNP Approach Runway 31L (Zoomed-in View)



Environmental Review Update



Environmental Review Update

- Preliminary Noise Screen complete.
 - Reviewing results
 - No significant/reportable noise over noise sensitive areas
 - Reportable noise over Camp Bullis
 - ATREP reviewed, confirmed area is compatible use, controlled firing area (CFA)
 - Noise report in process





PROPOSED SAT Community Engagement Plan

- Briefing to San Antonio Department of Aviation
- Coordinate Draft CI/CE Plan and Procedure Designs
 - > Identify local issues, special consideration areas, noise concerns
 - > FAA considers input
- Outreach to SAT Airport Advisory Commission
 - > FAA considers input
- Develop SAT website on FAA CE webpage
 - Update Fact Sheets, project description, and other materials
 - Brief Congressional Staffers
 - Share link for linking on SAT airport page
- Develop and Host Workshops
 - Project Videos (Intro, Procedures, Environmental)
 - > Social media outreach regarding project, livestream events
 - Live panel workshops, propose two events- one daytime, one evening
 - ☐ Facility ATC SMEs, Regional Administrator, Industry, SAT Airport, Environmental Protection Specialist
 - > Spanish speaking materials and outreach via local news source
 - > Workshop recorded and placed on webpage, translated version
 - 30 day public comment period



Our Partnership with San Antonio:

- The FAA will provide air traffic, environmental and communications expertise.
- We want to understand from San Antonio the best way to communicate with constituents.
- We want to learn local culture, noise areas, and needs.
- We want to be aware of the Airport Authority's needs and expectations.
- We want to incorporate officials from the City and the Airport Authority in our outreach.
- We want to make this a community effort that will benefit all.



San Antonio Community Engagement

Open Discussion, Expectations, & Planning