

Welcome

Technical Advisory Committee Meeting #1

April 5, 2018

Agenda

- Introductions
- Technical Advisory Committee (TAC)
- Study Overview:
 - Part 150 Study
 - Flight Procedure Evaluation
- Anticipated Meeting Schedule
- Questions
- Next Meeting



Introductions

- **San Diego County Regional Airport Authority (SCRAA)**
 - Owns and operates the airport
 - Main Contact: Ms. Sjohnna Knack, Program Manager
- 14 CFR Part 150 Consultant Team In Procurement Process
 - Part 150 focus:
 - Areas exposed to CNEL levels at or higher than 65 dBA
 - FAA will only fund abatement/mitigation at or higher than CNEL 65 dBA
 - Several flight procedure recommendations to reduce noise outside CNEL 65 dBA
 - SDCRAA to conduct flight procedure evaluation outside the 150 Study process

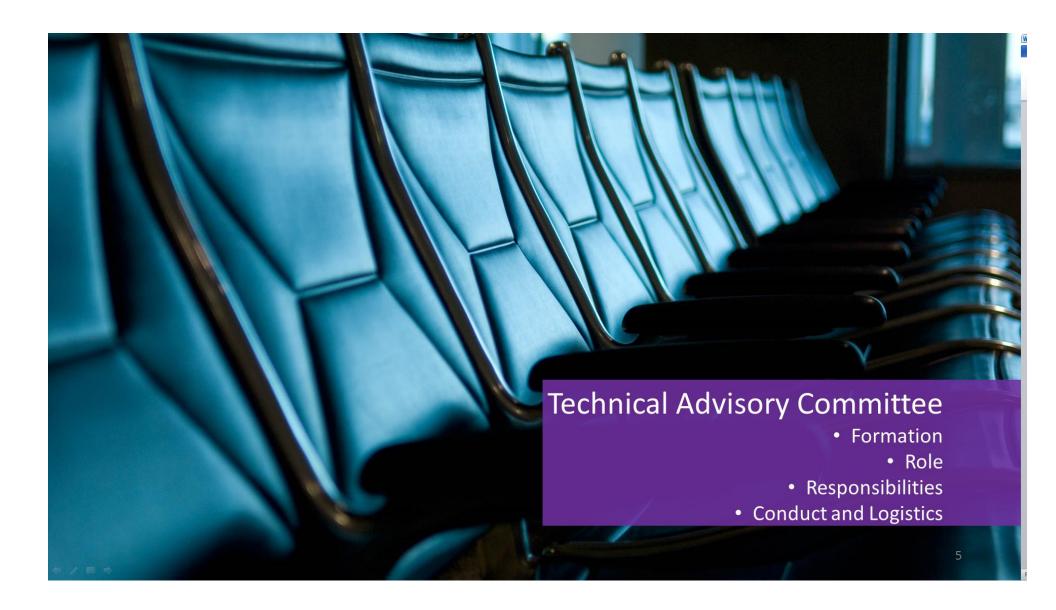


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Introductions (cont.)

- Plight Procedure Evaluation Consultant Team
 - Ricondo & Associates, Inc.
 - Mead & Hunt
 - Project Lead: Mr. Stephen Smith





Technical Advisory Committee (TAC)

- Purpose: Provide input on technical process and policy/regulation for the Part 150 Noise Compatibility Study and the Flight Procedures Evaluation Study
- Represents San Diego International Airport (SAN) stakeholder groups
 - Federal Aviation Administration (FAA) Airports and Air Traffic Organization (ATO)
 - Users: Airline, Commuter and Corporate General Aviation
 - SDCRAA Airport (various departments)
 - Local government jurisdictions
 - Community representatives around SAN: Airport Noise Advisory Committee (ANAC) and Citizen Advisory Committee (CAC)



TAC's Advisory Role - Flight Procedure Evaluation

- Provide technical input to Airport Authority and consultant
- Input on concept procedure designs
 - Safety feedback
 - Operational feedback
 - Benefit/cost feedback
- Represent your stakeholder group.



TAC Member Responsibilities

- Attend every meeting.
- Come to meeting with open-mind.
- © Conduct discussions in a professional and respectful manner.
- Respect other committee members views and opinions.
- Ask questions as a means to reach a better understanding on a topic.
- Provide meaningful input.



TAC Meeting Conduct and Logistics

- Operated on a consensus basis.
- Conducted in a professional and respectful manner.
- Facilitated by an experienced meeting facilitator.
 - Stay on agenda
 - Be sensitive to meeting time
 - Let every committee member share their thoughts
- TAC meetings will be open to the public to observe.
- Statements to the press can only represent the individual not the committee.





Flight Procedure Evaluation

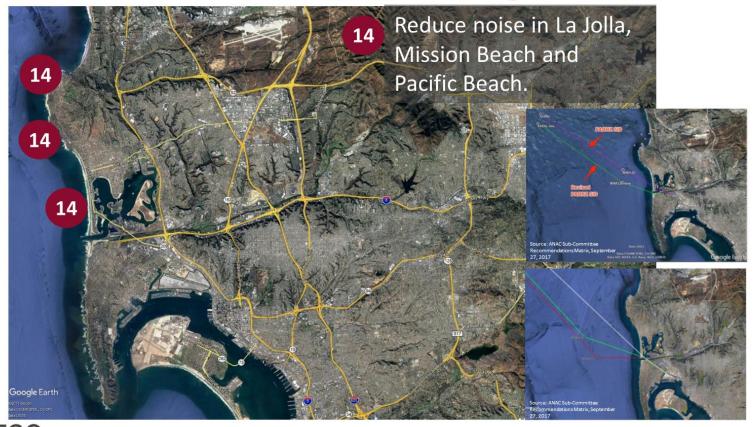
- The Airport Noise Advisory Committee (ANAC) proposed multiple flight procedure recommendations to reduce aircraft noise.
- In Dec 2017, Airport Authority Board accepted the Action Plan to assess ANAC recommendations.
- Plight Procedure Evaluation Purpose:
 - Evaluate flight procedures affecting areas outside 65 CNEL.
 - Flight procedures closer to the airport will be evaluated in the Part 150 study.
 - Gather community input on these procedures.

FAA has ultimate control over implementing flight procedure changes



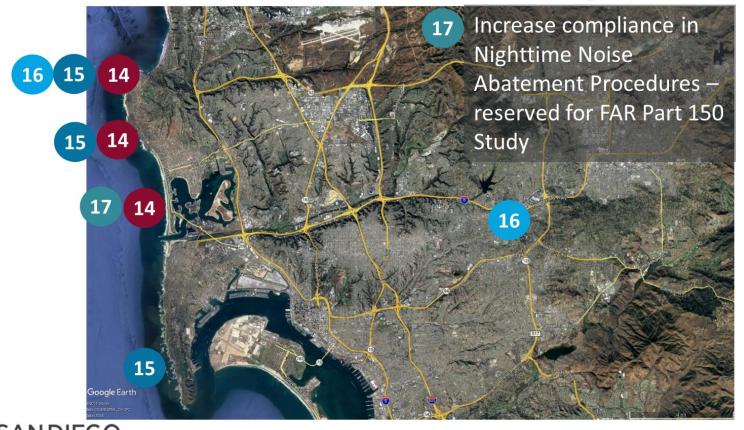


















Requirements

- Scope of Project
- ANAC Subcommittee Recommendations



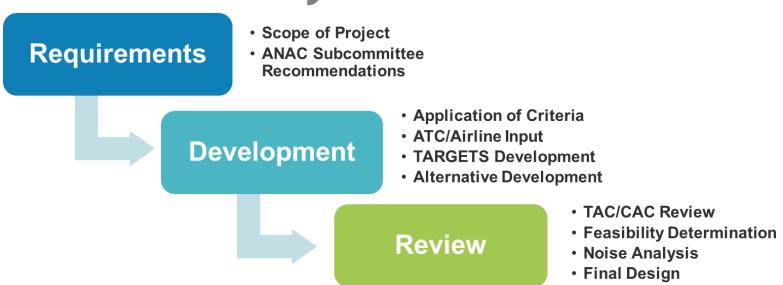
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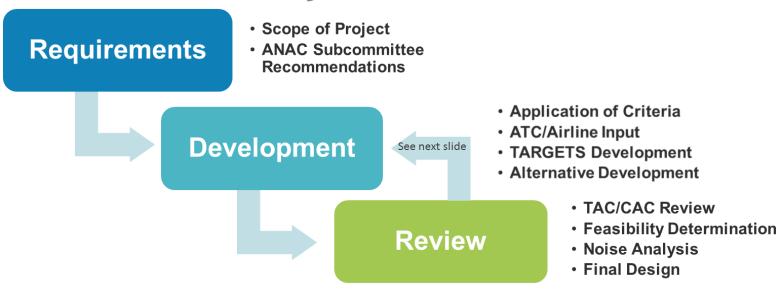
Development

- Application of Criteria
- ATC/Airline Input
- TARGETS Development
- Alternative Development

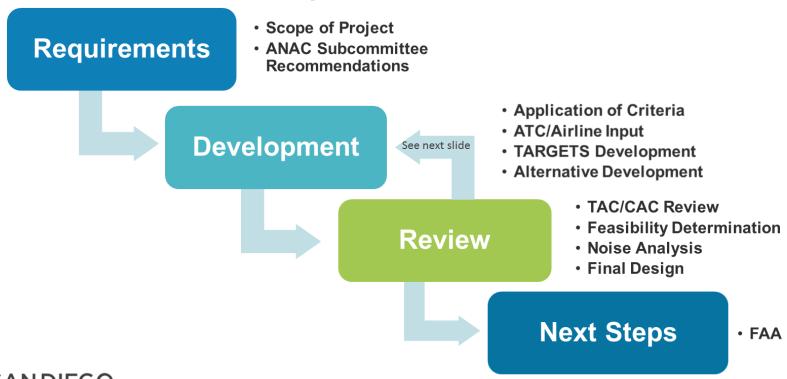




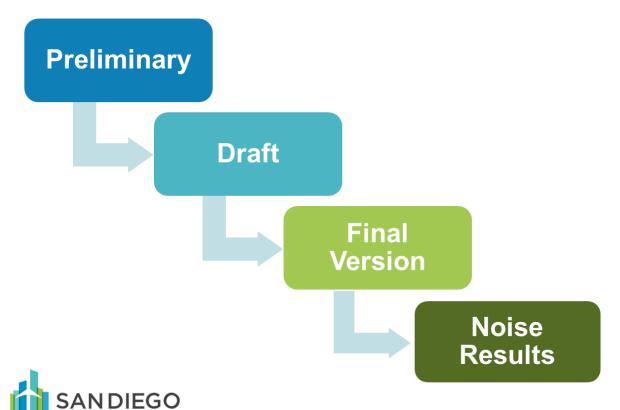








Development/Review Steps



Preliminary

Design concept procedures within parameters that meet intent of ANAC recommendations. If a design is not possible to address a recommendation, reasons will be documented.

Draft

Consider input from TAC on Version 1 designs and adjust where possible. Reasons for input that cannot be accommodated will be documented.

Final

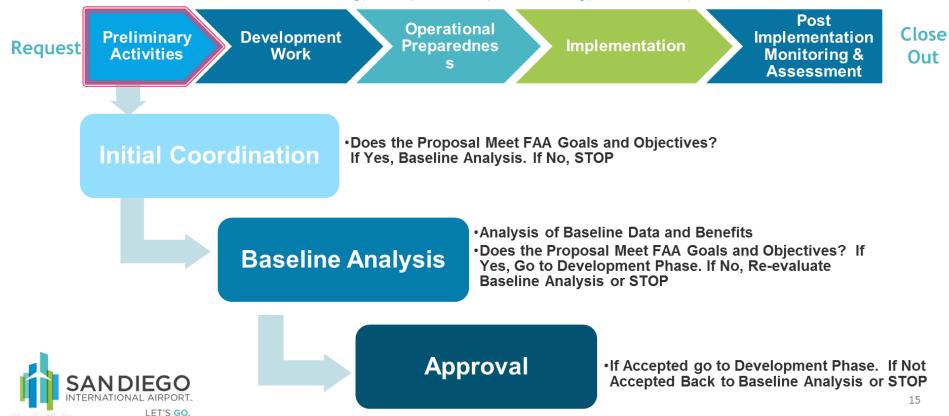
Consider input from CAC and TAC on Version 2 designs and adjust where possible. Reasons for input that cannot be accommodated will be documented.

Noise Results

Calculate noise on Final Version designs and compare with Baseline levels to determine potential change. Review final designs and noise changes with CAC and TAC.

7100.41 Phase 1 - Preliminary Activities

A Process to Evaluate Safety, Risk, Benefit, Feasibility, Readiness, and Performance



Process - Concept Design

Design Parameters

- Do not change aircraft flight paths over areas exposed to CNEL 65 or higher
- Do not impact safety
- Meet FAA design criteria
- Fit within existing airspace and maintain existing airspace hand-off areas
- Do not impact capacity of SDIA
- Do not move noise to new non-compatible areas

Operations Data and Design Tool

- Evaluate post-Metroplex operations
- Use FAA's Terminal Area Route Generation, Evaluation and Traffic Simulation (TARGETS)
 design tool to design concept procedures.



Process - Aircraft Noise Analysis

- Methodology: Use Aviation Environmental Design Tool (AEDT)
 - Use FAA ATO methodology to assess potential impacts
 - Calculate noise levels for closely-spaced grid points
 - Analyze difference between alternative and baseline
- Flight Track and Operation Patterns
 - Develop AEDT flight tracks and altitude profiles for traffic flows based on best radar and flight operations data
- Noise Model Outputs
 - Calculate Community Noise Equivalent Noise Level (CNEL)
 - Calculate change in DNL and CNEL between an alternative and the baseline.



Important Factors

⊘ Will:

- Propose designs compatible with existing air traffic environment
- Gather critical input from CAC and TAC during design process
- Coordinate with FAA ATO staff during concept design process
- Develop required information for FAA consideration the "Preliminary Activities" phase of the FAA Order 7100.41a process, if necessary
- Calculate change in noise levels for specific procedures



Important Factors

Will not:

- Evaluate recommendations to reduce noise at or higher than CNEL 65 dBA reserved for Part 150 Study
- Propose designs that require FAA waivers
- Propose designs that will negatively impact SDIA capacity
- Conduct all steps in FAA Order 7100.41A
- Evaluate non-SDIA traffic overflights
- Evaluate "restriction" type proposals that require 14 CFR Part 161 study



Process - Stakeholder Input

- Citizen Advisory Committee (CAC)
 - Input on ANAC recommendations and related goals
 - At least two meetings to review draft/final concepts
 - One meeting to review conclusions
- Technical Advisory Committee (TAC)
 - Broader stakeholder group: Airline(s), commuter carrier(s), corporate operator(s) and FAA ATO.
 - Input to confirm procedures are operationally viable and identify potential issues
 - At least three meetings to review iterative/draft/final concepts
 - One meeting to review conclusions





TAC Flight Procedure Analysis Meeting Timeline

