

# New Southern Nevada Airport

Airspace Design, Standard Instrument Arrival  
Procedures, and Standard Instrument Departures  
Briefing for Federal Land Managers  
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# Introduction

- Project Background
- Study Objective
- Scope of Work
- Stakeholder Participation
- Preliminary Design Alternatives for EIS



# Clark County Project Team

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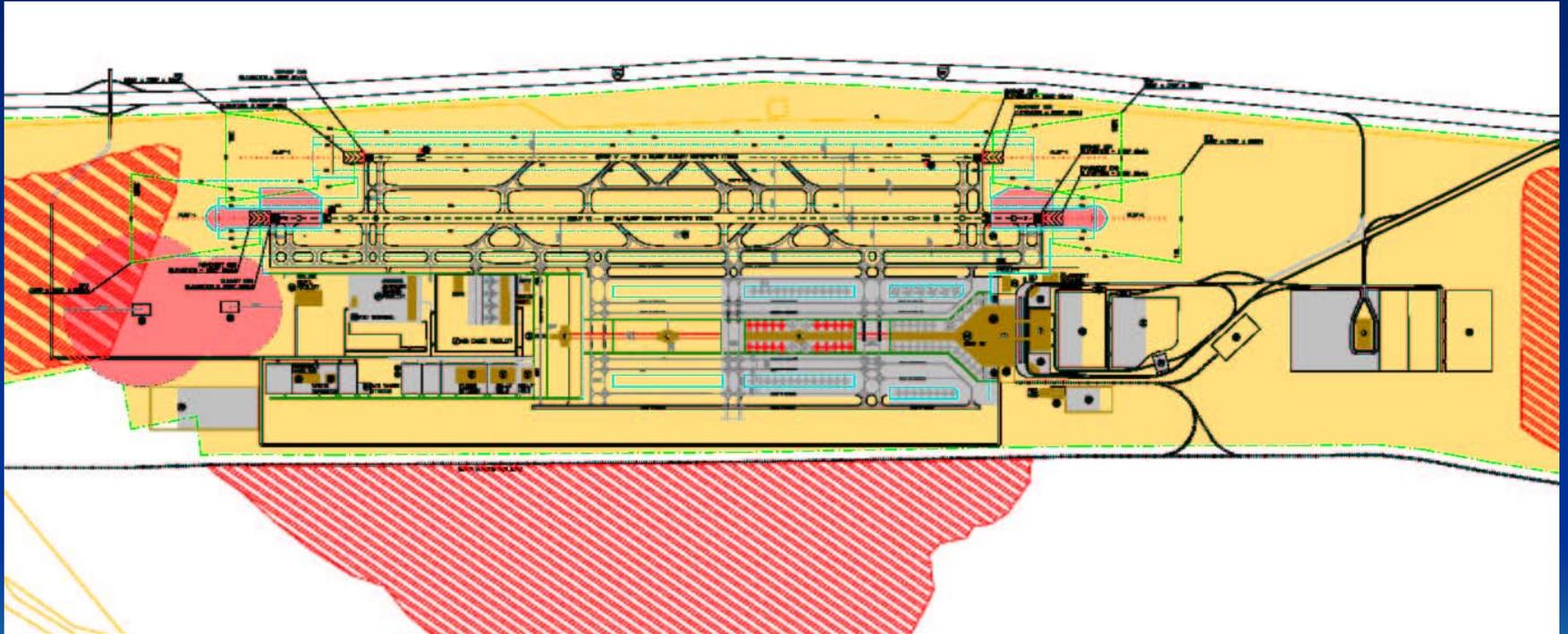
# Project Background

- Determination of need for additional airport
- Selection of new site
- Land availability
- Airspace feasibility assessment
- Conceptual planning
- Airport layout plan
- Utility planning
- **Airspace design**
- Environmental impact statement
- Design and construction
- Other planning and feasibility studies





# Preliminary Airport Conceptual Design



# Objectives of Study

- Develop airspace and procedures through cooperation with potential stakeholders
- Identify airspace interactions between facilities
- Identify existing and future air traffic constraints
- Establish airspace assumptions for analysis in the EIS



# Airspace Simulation Modeling

- Potential airspace designs will be modeled using the Total Airport and Airspace Modeler (TAAM); TAAM can provide:
  - Visual verification of SIDS, STARS, and airspace and procedures interface
  - Capacity and delay comparisons between airspace design alternatives
- It is important to note that TAAM
  - is not a 3D SID or STAR builder
  - is not a human-in-the-loop simulation
  - is not a design tool
- Potential follow-on modeling with NASA Future Flight



# Stakeholder Participation

- FAA
  - Western Pacific Regional Office (AT, AFS, AVN, ANI)
  - Airport District Office
  - Flight Standards District Office
  - LAS TRACON and ATCT
  - Los Angeles ARTCC
- Military
  - Regional liaison
  - Branches of military utilizing airspace in the vicinity including Nellis AFB and R-2508 Complex
- Industry
  - Airlines
  - NBAA
  - AOPA
  - Manufacturers (avionics and aircraft)
  - RTCA Working Group
- Resource agencies including BLM and NPS
- CCDOA Team

# Work Completed to Date

- Data collection and acquisition of SOP's and LOA's
- Creation of existing conditions base map
- Initial stakeholder coordination
- Preliminary arrival and departure corridor development through a series of working group and stakeholder meetings
- Airspace conceptual designs for EIS process



# Assumptions for Airspace Environment

- Mojave Preserve restrictions
- TACAN to be installed at airport
- New RADAR(s) to be implemented
- Precision instrument landing approaches to each runway
- Use of RNAV capabilities
- Airspace realignments with ZLA, L30, and LSV (new sectors, control positions, new delegated terminal airspace)















# Next Steps

- Airspace modeling (TAAM)
- TERPS analysis
- Development of preliminary SIDs, STARs, and approaches
- NAVAID coverage assessment
- RADAR coverage analysis
- Airspace conceptual design

