



CHRIS MUSEI-SEQUEIRA, PMP

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KEY ENVIRONMENTAL LEADERSHIP

As an FAA Employee

- Program Manager, FAA Air Traffic Organization (ATO) Airspace Modernization Community Involvement Plan
- Co-Author and Technical Reviewer, FAA Order 1050.1F (“Environmental Impacts: Policies and Procedures”) Desk Reference
- Co-Author and Technical Reviewer, FAA Order JO 7400.2L (“Procedures for Handling Airspace Matters”), Chapter 32 (“Environmental Matters”)
- Technical Reviewer, FAA Community Involvement Manual
- Program Co-Manager, Aviation Environmental Design Tool (AEDT) Development Program
- Program Co-Manager, Aviation Emissions and Air Quality Handbook

As a Consultant

- Project Manager & Technical Director, JFK 14 CFR Part 150 Noise Study
- Project Manager & Deputy Director, LGA 14 CFR Part 150 Noise Study

PROFESSIONAL SUMMARY

- 11 years of experience leading and supporting national aviation environmental policy development, analysis, and stakeholder engagement as a Federal Aviation Administration (FAA) Headquarters employee and airport consultant.
- Has provided services to over two dozen airports, including 11 large hubs.
- Led noise reduction strategy analysis and related outreach for the JFK and LGA 14 CFR Part 150 Studies: two of the largest noise studies in aviation history.
- Led FAA Headquarters effort to improve community involvement in airspace modernization programs, providing nationwide process improvements.
- Directed \$30 million of development tasks for the Aviation Environmental Design Tool (AEDT): the FAA’s aviation noise, fuel burn, and emissions analysis tool mandated nationwide for aviation regulatory environmental studies.

HIGHLIGHTED EXPERIENCE

PROJECT MANAGER & TECHNICAL DIRECTOR, JFK Noise Study

PROJECT MANAGER & DEPUTY DIRECTOR, LGA Noise Study

CLIENT: Port Authority of New York and New Jersey, New York, NY

ESA | Senior Managing Associate, 2016 – 2021 | New York, NY

These airport noise and land use compatibility planning (14 CFR Part 150) studies totaling \$8 million in initial contract value are the first such studies ever undertaken by the Port Authority and are two of the largest noise studies in aviation history. Chris joined the projects in 2016 and became project manager in December 2021.

- Led simultaneous development of the JFK and LGA Noise Compatibility Programs. Each Program may include up to two dozen noise control strategies.
- Communicated over a dozen noise-reducing JFK and LGA flight procedure designs to airlines, city government, FAA, community groups, and the general public through meetings, workshops, emails, and conference calls.
- Led discussions with FAA air traffic control staff to develop analysis and modeling techniques for noise reduction strategies.

PROGRAM CO-MANAGER: AEDT Development Program

GROUP: FAA Office of Environment and Energy, Emissions Division (AEE-300)

FAA Headquarters | General Engineer, 2009 – 2015 | Washington, DC

The FAA’s AEDT replaced five separate tools to become the FAA’s aviation environmental model used for domestic and international policy analysis and mandated nationwide for National Environmental Policy Act (NEPA) and 14 CFR Part 150 studies.

- Directed \$30 million of software development tasks executed by four organizations to integrate aircraft fuel burn, noise, and emissions modeling methodologies into AEDT.
- Co-authored and reviewed AEDT NEPA modeling guidance in FAA Order 1050.1F (“Environmental Impacts: Policies and Procedures”) Desk Reference.
- Presented AEDT to airlines, airport operators, community groups, trade associations, and regulators at numerous conferences, aviation trade group meetings, Transportation Research Board events, and other forums.



INDUSTRY GROUP PARTICIPATION

Current:

- Chair, Airport Consultants Council (ACC) Planning & Environmental Committee
- Member, Airports Council International-North America (ACI-NA)
- Member, Airport Minority Advisory Council (AMAC)
- Expert Contributor, Community Air Mobility Initiative (CAMI)

Past:

- American Association of Airport Executives (AAAE) Northeast Chapter
- Research, Engineering, and Development Advisory Committee (REDAC) Subcommittee on Environment and Energy
- SAE A-21, Aircraft Noise Measurement and Aircraft Noise/Aviation Emission Modeling
- FAA Aviation Emissions Characterization (AEC) Roadmap
- International Civil Aviation Organization Committee on Aviation Environmental Protection (ICAO CAEP) Working Group 3

EDUCATION & CERTIFICATIONS

PROJECT MANAGEMENT INSTITUTE

Certified Project Management Professional
Credential #3229889

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

- Master of Science, Aeronautics and Astronautics, 2008
- Master of Science, Technology and Policy, 2008
- Bachelor of Science, Aeronautics and Astronautics, 2005

HIGHLIGHTED EXPERIENCE (CONTINUED)

PROGRAM MANAGER: Airspace Modernization Community Involvement Plan GROUP: FAA Air Traffic Organization Mission Support Services, Environmental Policy Team (ATO AJV-114)

FAA Headquarters | Environmental Specialist, 2015 – 2016 | Washington, DC

The FAA's Air Traffic Organization undertook a national effort to improve public engagement and environmental review processes for airspace modernization programs, to strengthen relationships between the FAA, airports, and communities.

- Directed Headquarters work group to develop and implement public engagement process improvement plan. Included FAA Office of Environment and Energy (AEE), Office of General Counsel, and Office of Airports plus National Air Traffic Controllers Association (NATCA). FAA published output as the FAA ATO Community Involvement Plan.
- Co-authored and reviewed updates to airspace environmental review and public engagement policy in FAA Order JO 7400.2L ("Procedures for Handling Airspace Matters") to improve airspace modernization projects nationwide.
- Participated in multi-office work group led by FAA AEE to develop FAA's public Community Involvement Manual; served as ATO AJV technical reviewer.

PROGRAM MANAGER: FAA Aviation Emissions and Air Quality Handbook PROGRAM MANAGER: Multiple Partnership for Air Transportation Noise and Emissions Reduction (PARTNER) Research Programs

GROUP: FAA Office of Environment and Energy, Emissions Division (AEE-300)

FAA Headquarters | General Engineer, 2009 – 2015 | Washington, DC

FAA AEE manages a substantial portfolio of research programs that analyze and quantify aviation environmental impacts and potential mitigation measures. This research directly informs development of FAA tools, domestic and international policy positions, environmental analysis and reporting requirements, and analysis guidance.

- Co-managed production of FAA Aviation Emissions and Air Quality Handbook Version 3, including substantial updates to guidance on emissions analysis methodologies and use of AEDT. Handbook is used nationwide for NEPA and Clean Air Act analysis of aviation projects.
- Directed academic research projects to analyze and quantify impacts of aviation emissions on air quality and human health under the Partnership for Air Transportation Noise and Emissions Reduction (PARTNER). Projects were based at Harvard School of Public Health and Boston University School of Public Health (PARTNER Project 11), University of North Carolina at Chapel Hill (Project 16), and University of California at San Diego (Project 33). Participated in multiple PARTNER Advisory Board and FAA Aviation Emissions Characterization Roadmap meetings to share research results with community groups, regulators, airport operators, aircraft operators, and industry associations.