

# FAA WSA Vendor Day

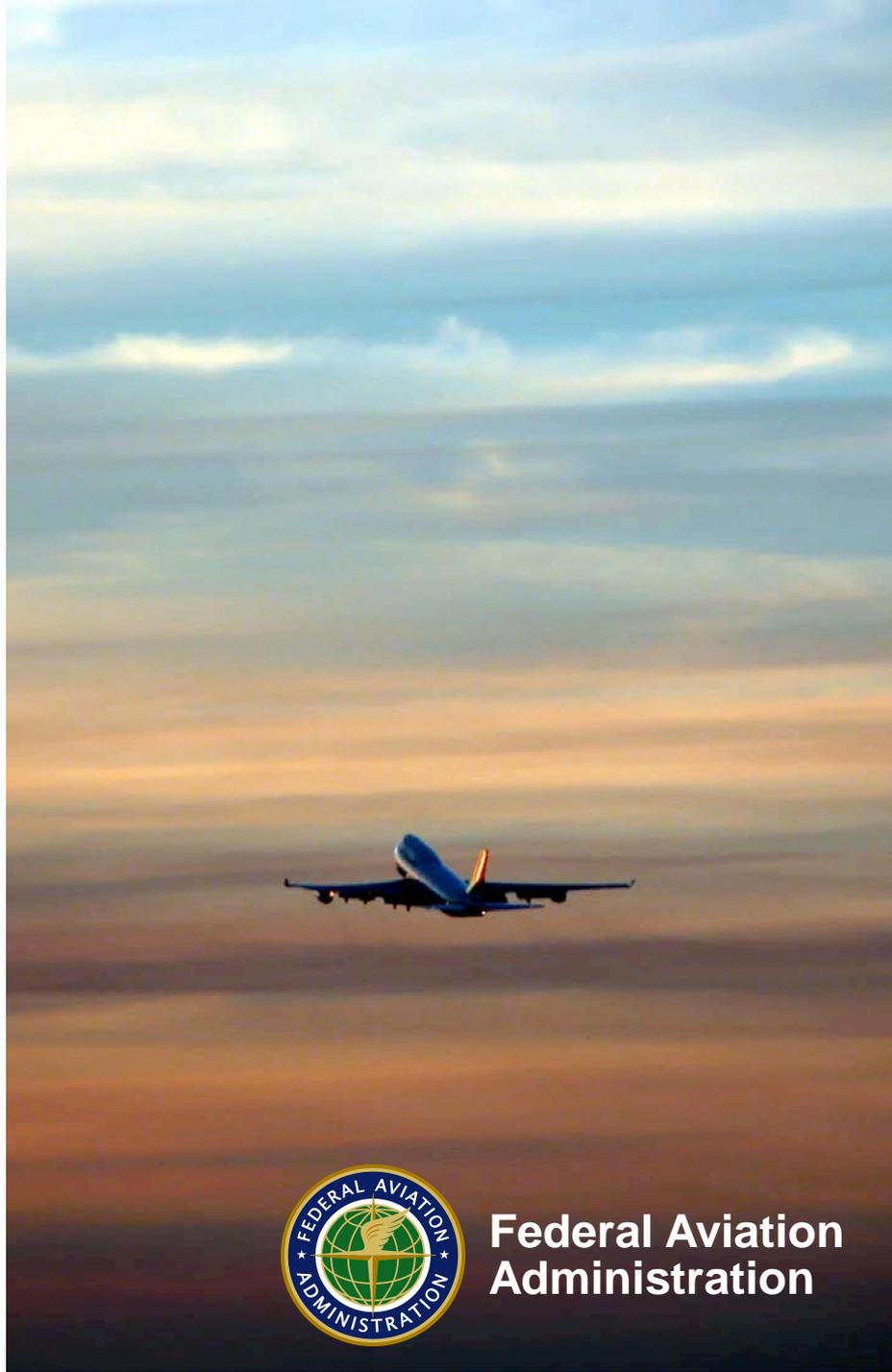
Presented to: Small Business Vendors

By: Edward Chau, PE

Date: August 5, 2015



**Federal Aviation  
Administration**



# Introduction to Presenter

- **Edward Chau, PE**  
**Mechanical Engineer**  
**Infrastructure Support Center – Los Angeles**  
**CA Professional Engineer – Mechanical**  
**Universal License – EPA 608 Refrigeration**
- **Working for the Department of Transportation – FAA for 24 years in various capacities from Staffing, Design, Engineering (Electrical, Mechanical, Controls), Hazmat (Lead and Asbestos worker and project engineer), Cost Estimating and Area Expert in HVAC.**
- **In addition to the above, I perform Needs Assessment, HVAC troubleshooting and budget plan for my Section, perform project engineering, project management and site construction oversight.**



Work includes repair, replacement and installation of HVAC systems and subsystems... From 1 ton units multiton chillers.

- **Demo of Duct containing Asbestos sealant.**



Cooling and heating systems to include Boilers, furnaces and electric heat.

- **Heat pump unit at a long range radar and boiler in a basement.**



# **FAA Specifications and Standards – Not always per industry standard and the Contractor will be held to the Contract**

- **Lightning, Grounding and Bonding**
- **Construction requirements**
- **Building Codes**
- **Inspection**
- **Public Law 100-678 – exemption of fees for Federal Projects.**
- **Federal Projects primarily exempt from local requirements.**



# **In House Design, Project Management and Construction oversight for HVAC projects.**

- **In my group, the mechanical engineers perform in house design, drafting, all electrical, mechanical and controls engineering.**
- **The mechanical engineers perform all project engineering functions for the FAA.**
- **Contracting Officer's Representative with certification.**
- **Performs inspection and acceptance activities.**
- **On site to verify demolition, staging and installation.**
- **Most facilities are 24/7 and require care in staging equipment replacement.**
- **Material Delivery – payment for equipment on site.**
- **Partial payment for milestones.**
- **Contractor Warrantees**
- **Manufacturer's warrantees.**



# Contractor Qualifications and Requirements

- **Contractor Qualification for work to be performed. Subcontractors' licenses and certs.**
- **Staging equipment and installation.**
  - i.e. demolition existing equipment and installation of new lead equipment, then system testing prior to taking the lag/standby system out of service.
  - Mobilization where transportation is an issue. Remote sites where shipping may take additional weeks. Examples include HI, Guam, Micronesia, Alaska as shipping locations. Remote or difficult to reach sites include mountaintop sites/remote sites hours drive from the nearest town/parts supply/hotel/restaurant.
- **Working out of normal business hours. Since Air Traffic may require off hours work, mobilization in mind of limited outage allowances. This means having all parts and labor on hand for a “shut down”. Parts stores will not be open during off hours.**
- **Paperwork to include Davis Bacon wage rates, submittals, schedules and transmittals. Warrantees, equipment start up reports and O&M manuals are also included.**

