

# Operations Infrastructure Support

Presented to: Small Business Vendor Day

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Federal Aviation  
Administration



# Operations Engineering

## Roles and Responsibilities:

- Assist in infrastructure preservation to insure the serviceability and general appearance of federal owned and leased facilities which are part of the NAS, and to assist during critical emergencies
- Provide engineering support and consultation to enhance facility performance, sustain and protect NAS systems and infrastructure.
- Provide engineering support to NAS facilities and failures. Serving as an advocate to ATO field organizations to solve difficult issues.



# Emergencies

## SEATAC ATCT

Fire suppression water pipe burst, and caused flooding up to approximately 3 feet high. Elevator up to air traffic control tower cab was out of order for several weeks.

Elevator repair, motor/controls replacement, pipe repair, structural analysis, subfloor soil removal, concrete floor repair, drywall, replacement of electrical, fire suppression and other utilities





Pressure from burst water pipe caused concrete floor to swell up



Elevator shaft full of water



# HVAC Projects

- Redundant cooling systems
- Rooftop/packaged units
- Direct Split Systems
- Wall Mount Units
- Full Chilled Water Systems
  
- Reliability, maintainability
- EPA 608 Certified
- Typically 1 yr parts/labor warranty
- 5 yr Manufacturer's warranty





**Francis Peak ARSR**



**Federal Aviation  
Administration**



**Cedar City ARSR**



# Cable Replacement

- OSHA/Construction Safety
- Experience working on airports
- Familiarity with FAA Orders, Standards, and specs (i.e. STD 19e, 1391)
- Utility locates- extreme caution around buried utilities



Boeing Field, Seattle



# Facility Maintenance



- **Roofing Projects**
- **Gravel road repair/regrade**
- **Culvert install, drainage**
- **Pavement/concrete repair**
- **Asbestos/Lead abatement**
- **Tower & bldg leak inspections/ prevention**
- **Weatherproofing**
- **Tower cab window replacement**



# Electrical work

- EG Replacements
- Electrical Refurbishment
- Understanding of Power Distribution, Facility design
- Lightning/bonding/grounding
- Licensed Electricians



EG Replacment



Single/multi-point ground plates



# Upcoming FY-16 Projects

- **Salt Lake City District**

- Tower window leak detection, prevention
- Phoenix TACAN Monitor Pole replacement
- Replace siding for VOR bldg for Prescott, AZ SSC
- Repair monitor foundations for VOR system, Cedar Breaks

- **Seattle District**

- Abate OSHA violations by raising heights of hand rails at Moses Lake, WA
- Install new underground cables to the antenna array for localizer, Tacoma
- Replace obsolete vehicle gate openers at Portland ATCT
- Replace HVAC system at Battleground, WA VOR
- Replace 38 yr old roof mounted, 10 ton HVAC unit at Mullans Pass, ID

