Deicing Operations

ACI Annual Non-Movement Area Safety

October 4, 2015



Faith Group



Agenda

- Deice Issues
- SLC Case Study
- Consolidated Deice Results





Overview

About Us – Faith Group

- St. Louis based W/DBE planning, design, engineering and PM/CM firm
- Founded in 2004, employs 35 highly-skilled professionals, most with more than 20 years of hands-on experience
- Completed more than 500 projects for over 100 clients domestically and internationally
- Completed projects exceeding \$800 million in construction value

Collaborative

Listen

Solution Centric

Responsive

Results



Services & Markets

Core Services

- Safety & Security
- Operational Planning
- Audio/Visual
- Special Technology Systems

Core Markets

- Transportation
- Public Safety & Services
- Corporate Enterprise
- Healthcare
- Higher Education





Deice Issues

Gate areas

- Environmental issues
- Gate space issues
- Challenging worker conditions slick
- Out to off times

Deice pads

- Multiple vendors
- Lack of centralized management
- Equipment staging







- A new Lima and 34R deice pad and support facilities were built
- Flow of pads is modeled with RWY flow
- Delta (hub carrier) will spray their own aircraft and Delta Connections
- One other vendor for the other carriers
- Objective:
 - Maximize deicing pad efficiencies
 - Maximize safety
 - Minimize number of vendors to Delta plus one
 - Coordinated management



- SLCDA desires to have a common use type deice plan
- Faith Group approach
 - Research SLC current practices
 - Meet with Station Managers
 - Research other common use environments
 - Apply risk assessments
- □ Deliverable Operations Plan





- Approach
 - Meet with Station Managers
 - Consensus
 - Research "Best Practices"
 - □ DEN/MSP/DTW/PIT/CLE

- "Smooth, safe and efficient" "SAFE AND ON-TIME, TO ENSURE CONNECTIONS"

 "Safety first, and then efficiencies" and of had works to,

 "We want planes in the air.

 "Sufect and service, right down to the minute"

 "Consistent and clean" deicing process

 "Cut 'out-to off times, collect gived and use fluids more efficient!"

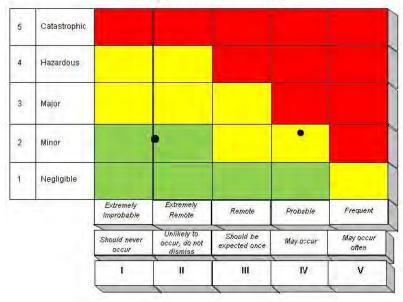
 "A good, layered plan with contingencies built in"

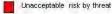
 "Smooth flow, on-time departure"
- Salt Lake City Deice Airline Committee (SLCDAC)
- Apply Risk Assessments
 - Multiple Vendors aircraft to vehicle
 - □ Lack of pad management aircraft to vehicle



- Multiple vendor Risk Assessment
- Limited vendor Risk Assessment

Risk Matrix Severity vs. Probability





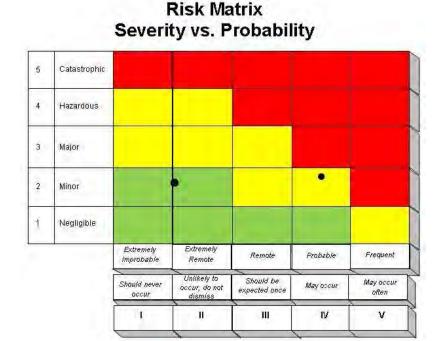
Reduced risk of casualties by threats

Acceptable mitigation of risk by threat



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- Uncoordinated pad Risk Assessment
- Coordinated pad Risk Assessment



Unacceptable risk by threat

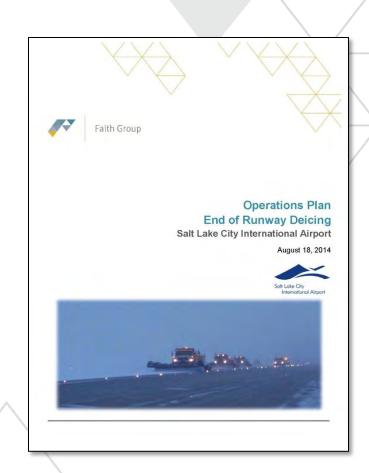
Reduced risk of casualties by threats

Acceptable mitigation of risk by threat



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- Operations Plan developed
 - Billing
 - Purchasing
 - Storage
 - Communications
 - Management
 - Maintenance of facility
 - Training
- Vetted with airlines





- RFPs developed
 - Spray vendor
 - Aircraft Deice Fluid (ADF) vendor
- 1 RFP advertised
- On-site pre-bid meeting
- Short listed and airline selection-voting
 - Weighted by number of aircraft operations previous season
- Airlines contract individually with vendor
- Third party contract oversight
 - Monthly reports
 - ✓ KPI's
 - Event debriefing



Consolidated Deice Results

- □ Infrastructure Return on Investment (ROI)
 - Improved out to off times
 - Improved customer satisfaction airport and airline
- Positive control through the deice pad
 - Safer
 - More efficient
- Improved environmental compliance
- Limited vendors
 - Safer
- Contract for services shared expenses by all
- Costs reduced through bulk purchase



Questions?

Thank You!

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