Airport Electronic Management System

Blaine Peterson
Operations Director
Duluth Airport Authority
Like many local airports:

- Small staff burdened by old paper-based record keeping systems
- Preparing for FAA 139 inspections was burdensome
- System management was non-existent or poorly designed
- Strong historical data was not easy to access or process
Identified Need

- One database to manage all airport operations

- Examples:
  - Daily 139 airfield inspections
  - Trackable airfield / non-airfield work orders
  - Airport signage and lighting plans
  - Tied to the FAA’s NOTAM Manager system
  - Airfield equipment maintenance program
  - Tenant emergency notification and emergency system management system

- Cloud based for use on the airfield and in the office

- No need for maintaining large on-airport server
Options

- Develop own database
  - Small staff doesn’t have the capability
- Commercially available system
  - Several available that didn’t have all the capabilities we looked for
- Selected VEOCI
  - Cloud based
  - Multi-functional
  - 139 centric with expandable capabilities
Implementation

- DAILY 139 AIRFIELD INSPECTIONS
- TIME CONSUMING BUT CAN TARGET INDIVIDUAL AIRPORT NEEDS
- NOT A BOILERPLATE SYSTEM THAT YOU ARE TIED TO
- SENT ADMINISTRATOR TO “VEOCI BOOTCAMP”
- VERY COST EFFECTIVE REGARDING THE INFORMATION GAINED (SEND A COMPUTER SAVVY PERSON)
- YOU CAN BUILD IT WITH AS MUCH/LITTLE INFO AS YOU WANT
- INTERACTIVE GOOGLE EARTH MAP IS MOST USEFUL
Where are we at 6 months later

DAILY 139 AIRFIELD INSPECTIONS
Airfield Sign Plan/Location #3629644

Sign Number
112

Sign Information

Runway Distance Remaining

Circuit
Runway 9-27 DTG

Bulb Type
Incandescent Bi-Pin

Bulb Wattage
45 Watt

Sign Type
Lumacurve

Number of Modules
1

Sign Size
Size 4

Transformer Size
<No Value>

Sign Location
46.842417, -92.203987

Side 1 Image
cdv_photo_180.jpg

Side 2 Image
cdv_photo_181.jpg

Side 1 Last Replaced
2000-02-24

Side 2 Last Replaced
2000-02-24
# Reports Function

- Useful for 139 Inspection Preparation

## New Subform - Airfield Daily Self Inspection [Form]

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<th>Inspected During</th>
<th>Category of Work</th>
<th>Inspection Item</th>
<th>Status</th>
<th>Work Orders</th>
<th>Conditions / Comments</th>
<th>NOTAMs</th>
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EXPANDING CAPABILITY

- EMERGENCY MANAGEMENT
- AIRFIELD SIGN REPLACEMENT PLAN
- AIRFIELD VEHICLE MAINTENANCE PROGRAM
- AIRFIELD PAINT PLAN
- AIRPORT FACILITIES MANAGEMENT
- 139 AND OSHA TRAINING RECORDS
- AIRFIELD DRIVERS TRAINING RECORDS
- MORE????
QUESTIONS or COMMENTS?