Sky Harbor
Storm Impacts
Overview

July 14, 2002
August 28, 2008
July 5, 2011

- Impacts
  - Immediate
  - Post storm
- Follow up
- Procedures
July 14, 2002

• 8:15 p.m.
• Power outages
• 40% trees uprooted
• All three runways closed
August 28, 2008

• Damage to:
  – Aircraft
  – Hangars
  – Trees
  – Runways closed
July 5, 2011

• 5:30 p.m.
• NWS: Weather Advisory
  – 50 knot winds
  – Blowing Dust
  – Visibility < ¼ mile
July 5, 2011

- 5:49 p.m: Lightning within 17 miles
- 5:51 p.m: Lightning within 5 miles
- 7:50 p.m: Dust storm arrives
7:48 p.m.  South Mountain
7:53 p.m. South
7:55 p.m.  South
7:58 p.m. Southeast
Immediate Impacts

- FAA initiated ground stop
- Runways & taxiways closed
- Terminal doors activated
- Fire alarms
- Perimeter gate alarms
Immediate Impacts

- Flight delays
- Flight diversions
- Aircraft inspections
- Flight cancellations
Post Storm Impacts

- Stranded airline passengers
- Stranded Passenger Plan
Clean up efforts
Facilities & Services Haboob Storm Clean Up - Expense Report

<table>
<thead>
<tr>
<th>Section</th>
<th>Vendor/Contractor</th>
<th>Expense</th>
<th>Description</th>
<th>$'s</th>
</tr>
</thead>
<tbody>
<tr>
<td>Airfield Maintenance</td>
<td></td>
<td>Labor hours</td>
<td>Cleaning terminal fronts and airfield</td>
<td>$26,256.41</td>
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<tr>
<td>Energy Management</td>
<td></td>
<td>Labor hours</td>
<td>Attended to Smoke Detectors and Beam Detectors that went off</td>
<td>$2,700.75</td>
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<tr>
<td>Landside Maintenance</td>
<td></td>
<td>Labor hours</td>
<td>Cleaning terminal fronts and airfield</td>
<td>$11,459.88</td>
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<tr>
<td>Landside Maintenance</td>
<td>Pressure Systems, Inc</td>
<td>Pressure Wash Units</td>
<td>Pressure Wash Units for storm clean up</td>
<td>$2,392.95</td>
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<tr>
<td>Mechanical Maintenance</td>
<td>Air Energy Systems</td>
<td>Filters</td>
<td>Replace filters due to dust storm</td>
<td>$1,310.38</td>
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<tr>
<td>Parks</td>
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<td>Labor hours</td>
<td>Power washing clean up, tree removal, tree clean up</td>
<td>$6,528.00</td>
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<tr>
<td>Parks</td>
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<td>New Trees</td>
<td>Cost to replace damaged trees</td>
<td>$3,575.00</td>
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<tr>
<td>Street Maintenance</td>
<td>Equipment Operator IV Labor</td>
<td></td>
<td>Support motor brooms with water on runways to remove accumulation of dust</td>
<td>$3,416.00</td>
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<tr>
<td>Street Maintenance</td>
<td>Motor Broom Operator Labor &amp; Materials</td>
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<td>Sweeping storm debris from runway</td>
<td>$7,250.00</td>
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<tr>
<td>Terminal Services</td>
<td>GCA</td>
<td>Labor hours</td>
<td>Window cleaning in lobby after dust storm at RCC</td>
<td>$297.56</td>
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<tr>
<td>Terminal Services</td>
<td>GCA</td>
<td>Labor hours</td>
<td>Additional labor for clean up at Sky Harbor</td>
<td>$1,660.80</td>
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<tr>
<td>Terminal Services</td>
<td>Professional Sky Climbing Service</td>
<td>Extra Window Cleaning, high dusting</td>
<td>Outside A-1,A-2,A-7,B-2,C-1</td>
<td>$2,072.50</td>
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<tr>
<td>CSW Contractors</td>
<td>Labor hours</td>
<td></td>
<td>Storm clean up T2, T3 gates, cargo areas, west hold bay, Tango to Exec Terminal</td>
<td>$16,342.44</td>
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<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
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<td><strong>$85,262.67</strong></td>
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Actions

• Formal Debrief

• Action plan
Emergency Operations Center

- Response coordination
- Support field command
- Liaisons
  - Police
  - Fire
  - TSA
  - Airlines
  - Red Cross
Fire Alarms

- EOC
- Coordinate with Fire
- Disable alarms
- Establish fire watch
  - Police
  - Aviation
  - Fire
Thank You!