

Sky Harbor Storm Impacts



PHX

Overview

July 14, 2002

August 28, 2008

July 5, 2011

- **Impacts**
 - Immediate
 - Post storm
- **Follow up**
- **Procedures**

The logo for Phoenix Sky International Airport (PHX) is displayed in a large, bold, black font with a white outline. The letters are stylized and slanted. The background of the slide is a photograph of the airport terminal and control tower at dusk, with a warm orange and blue sky.

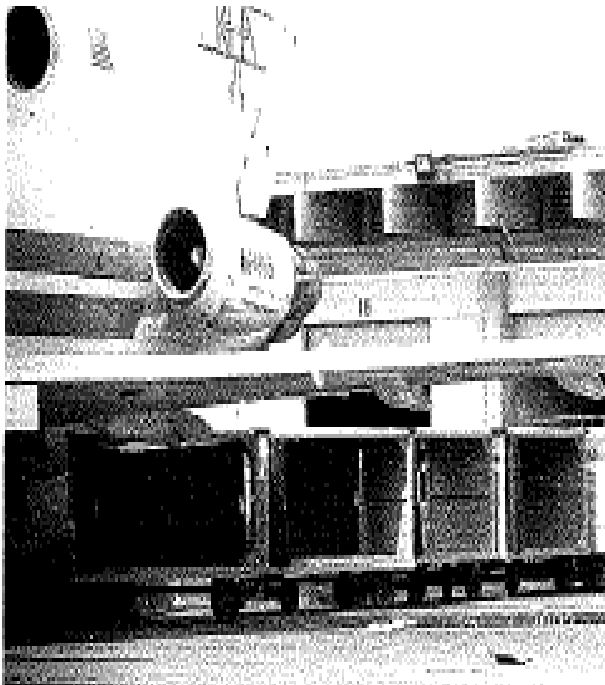
July 14, 2002

- 8:15 p.m.
- Power outages
- 40% trees uprooted
- All three runways closed



PHX





August 28, 2008

- Damage to:
 - Aircraft
 - Hangars
 - Trees
 - Runways closed



PHX



July 5, 2011

- 5:30 p.m.
- NWS: Weather Advisory
 - 50 knot winds
 - Blowing Dust
 - Visibility < ¼ mile



PHX

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



PHX

7:41 p.m. Southeast



7:48 p.m. South Mountain





7:52 p.m.

7:53 p.m. South Mountain



7:53 p.m. South



7:55 p.m. South



7:56 p.m. East



7:58 p.m. Southeast



Immediate Impacts

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



PHX

Immediate Impacts

- Flight delays
- Flight diversions
- Aircraft inspections
- Flight cancellations



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Post Storm Impacts

- Stranded airline passengers
- Stranded Passenger Plan



PHX

Clean up efforts



PHX

Facilities & Services Haboob Storm Clean Up - Expense Report

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

Actions

- Formal Debrief
- Action plan



Emergency Operations Center

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



PHX

Fire Alarms

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

The logo for Phoenix Sky International Airport (PHX) is displayed in the bottom left corner. It features the letters 'PHX' in a bold, italicized, black font with a white outline. The background of the slide is a photograph of the airport terminal and control tower at dusk, with a warm orange and blue sky.

A dramatic sky with dark, heavy clouds on the left and lighter, blue-tinted clouds on the right, with a city skyline visible at the bottom.

Thank You!