

Sky Harbor Storm Impacts



PHX

Overview

July 14, 2002

August 28, 2008

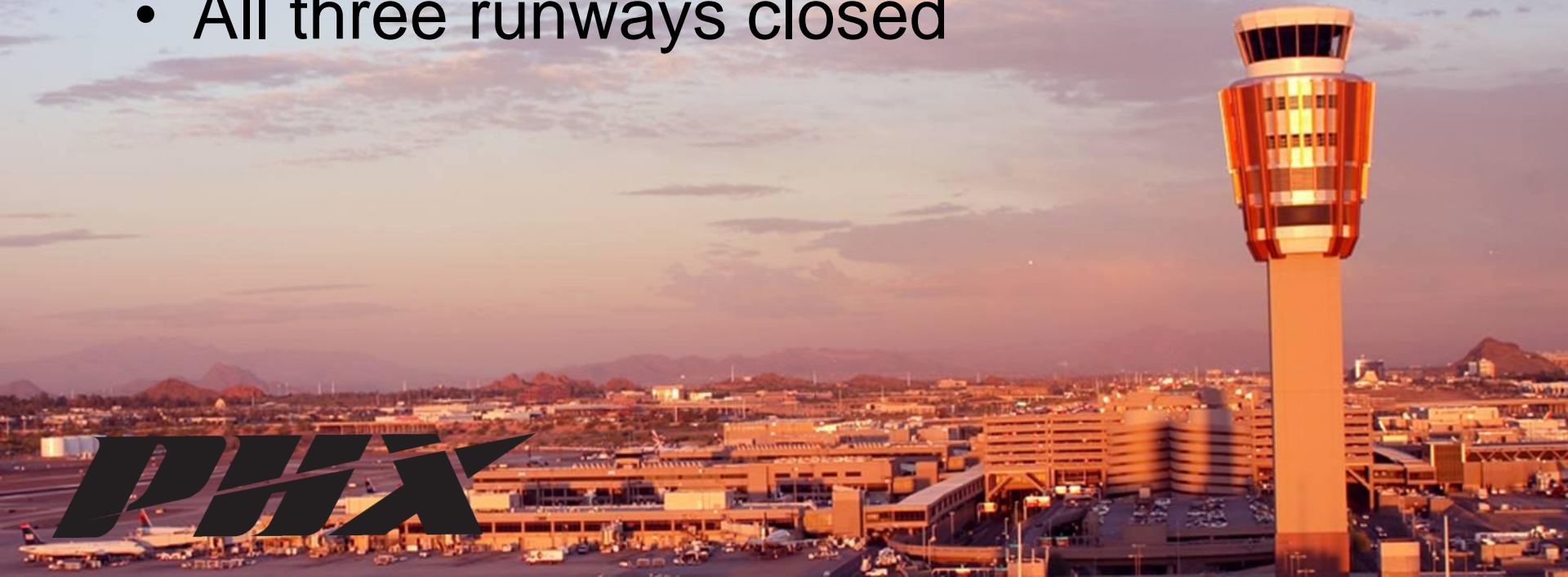
July 5, 2011

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

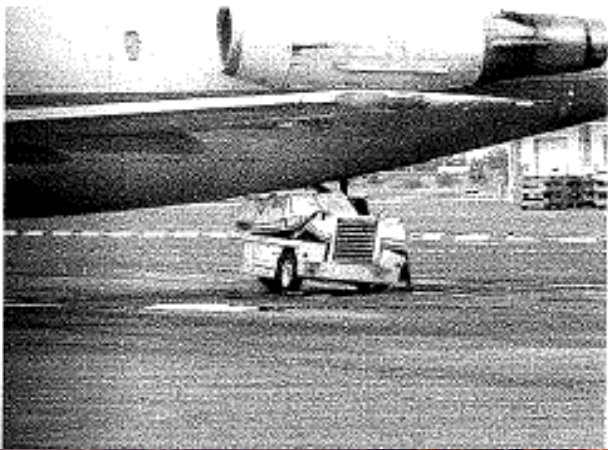
The logo for Phoenix Sky International Airport (PHX) is displayed in a large, bold, black font with a white outline. The letters are stylized and slanted to the right. The background of the slide is a photograph of the airport's control tower and terminal building at dusk, with a cityscape and mountains visible in the distance under a cloudy sky.

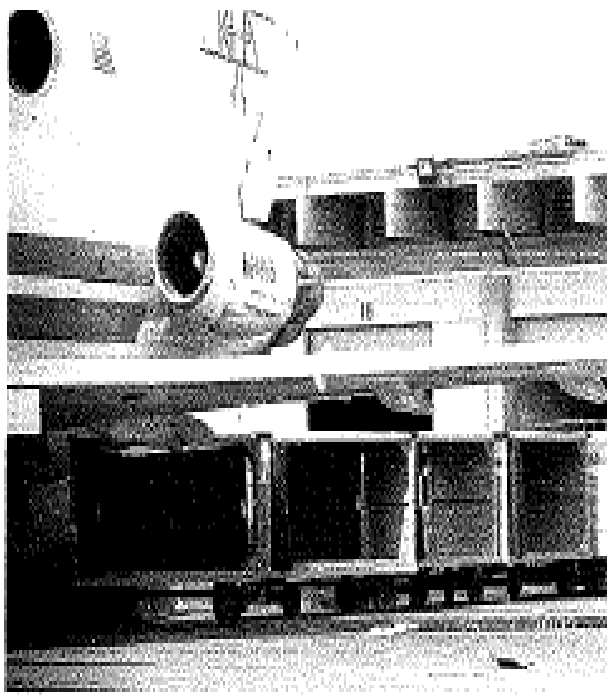
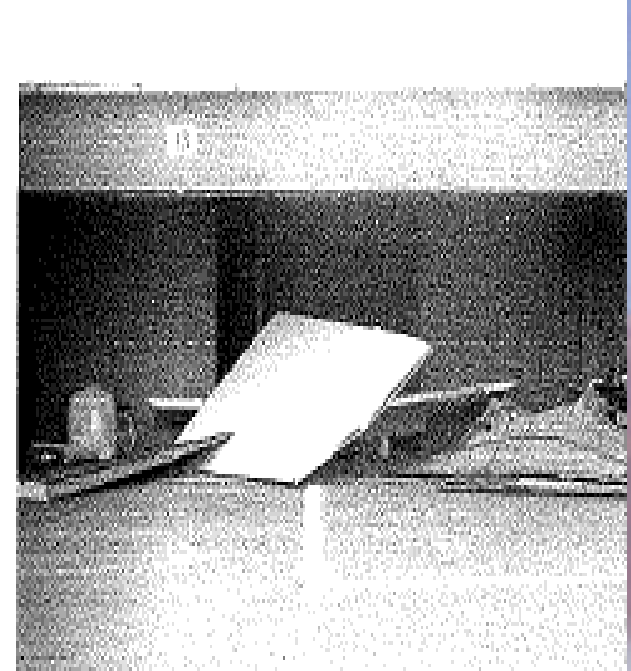
July 14, 2002

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



PHX





August 28, 2008

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



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July 5, 2011

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



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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



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Immediate Impacts

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



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Post Storm Impacts

- Stranded airline passengers
- Stranded Passenger Plan



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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

PHX

A photograph of the Phoenix Sky Harbor International Airport at sunset. The control tower is illuminated and stands prominently on the right side of the frame. The terminal building and other airport structures are visible in the background, with the sky transitioning from blue to orange and red. The PHX logo is overlaid in the bottom left corner.



Thank You!