



National Transportation Safety Board

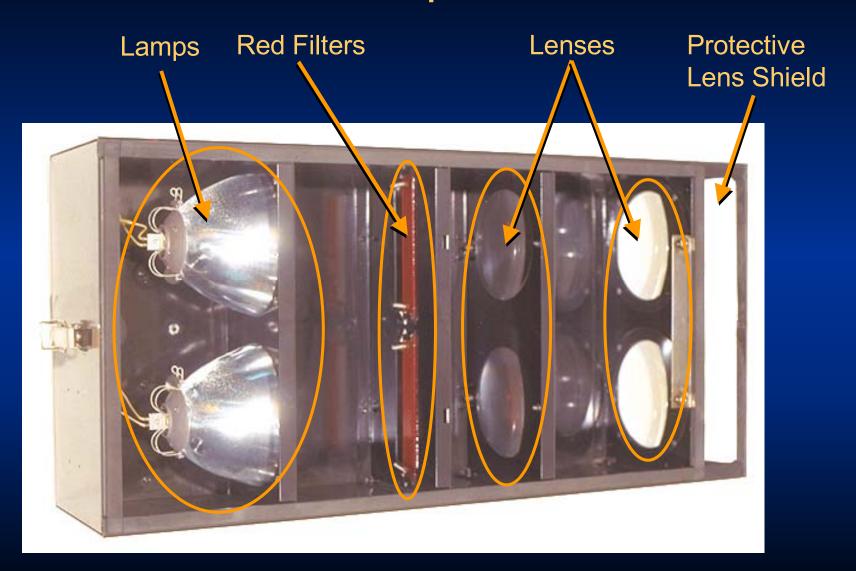
Tallahassee Runway 09
Precision Approach Path
Indicator (PAPI)



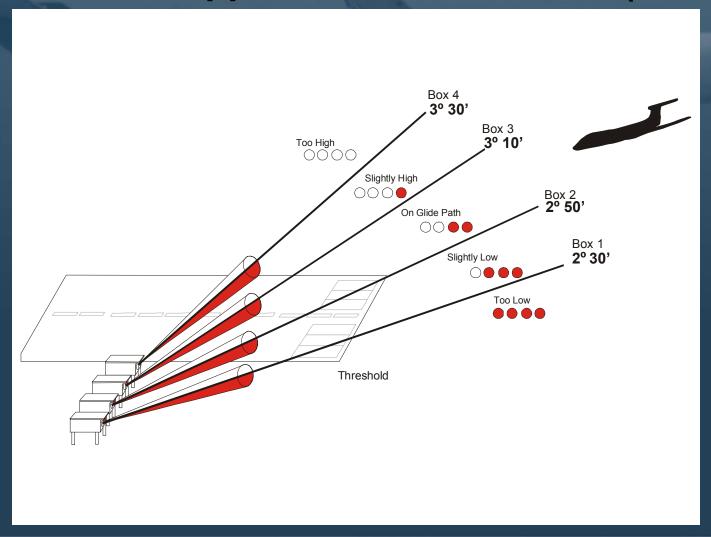


Siemens Airfield Solutions

## PAPI Components



### Precision Approach Path Indicator (PAPI)



### Investigation of Tallahassee Runway 09 PAPI

- FAA flight inspection
  - "Glide path well clear of terrain.."
  - Consistent with 3-degree glideslope
- Ground Inspection
  - TLH representatives and FAA Airways Facilities
  - Checked settings with aiming tool no adjustment needed

# Environmental Factors Affecting PAPI Operation

- Dew contamination:
  - Enlarges and blurs red/white transition zone
  - Transition zone appears as a broad "pink" signal
  - Evaporates within minutes after lamps are turned on
  - Does not alter transition zone angles
  - Cannot cause red signals to appear white, or vice versa

### Investigation of Tallahassee Runway 09 PAPI

- All crewmembers saw white and red PAPI signals during approach
- Crew descriptions consistent with normal PAPI operation
- Pink signals occur normally at white/red transition zones

#### **Conclusions:**

- PAPI was operating normally at the time of the accident
- Had the crew flown the entire approach with white and red PAPI signals evident, the airplane would have landed in the approach zone and would not have impacted trees.