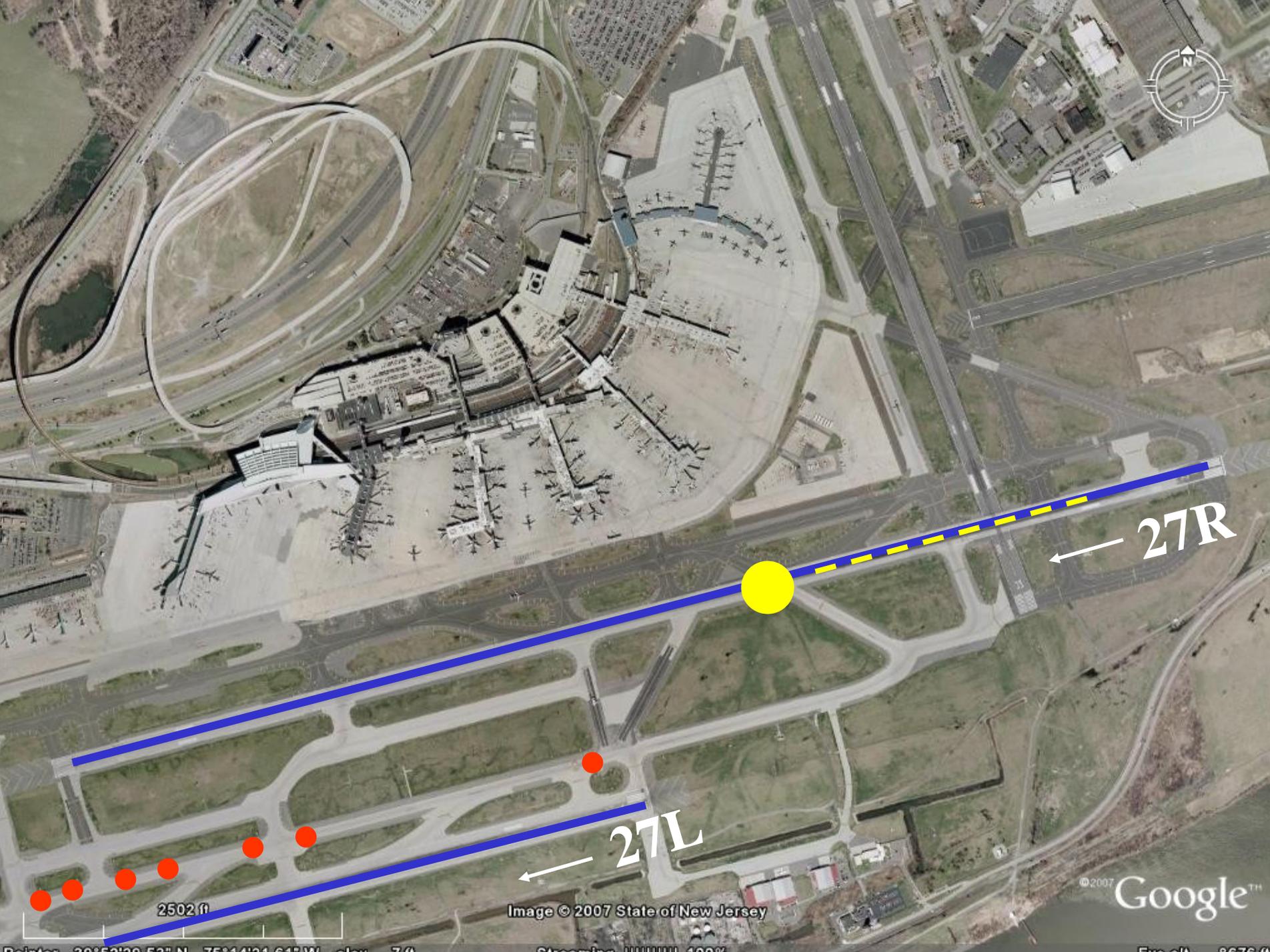


Accident Summary

- Cargo smoke warning during approach to PHL
- Smoke filled cockpit after landing
- Crew evacuated via slide at left forward (L1) door
- Major fire damage to airplane and cargo



← 27R

← 27L

2502 ft

Image © 2007 State of New Jersey

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Position: 20°52'20.52" N, 75°14'24.61" W, elev: 7 ft

Streeting: UUUUUU 100%

File ID: 8676



NTSB





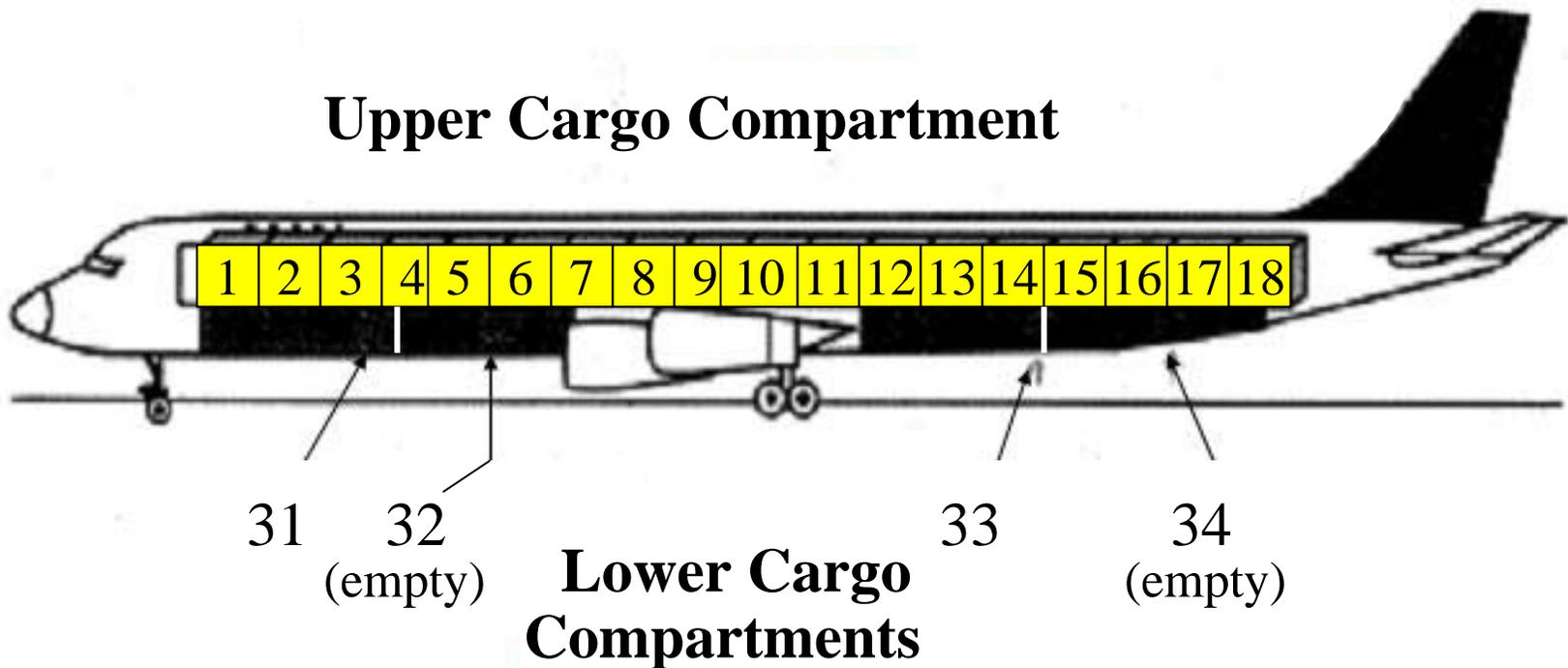
NTSB





Location of Cargo

Upper Cargo Compartment



Event Timeline

- 2334 – First officer noted abnormal smell
- 2335 – Flight engineer (F/E) checked aft of cockpit
- 2336 to 2354 – Captain and F/E continued to troubleshoot, smell subsided
- 2355 – Cargo Smoke warning light illuminated
- 2356 – Lower Cargo Fire warning light illuminated
- 2359 – Airplane landed, smoke began entering cockpit

Key Issues

- In-flight fire and smoke procedures
- Certification requirements for fire and smoke detection systems
- Fire suppression systems
- Aircraft and rescue firefighting training
- Cargo airplane emergency exits
- Dissemination of hazmat information
- Transport of lithium batteries

Airplane Operating Manual Checklists

- Crew troubleshooting based on four checklists
- No checklist for unalerted indication of smoke or fire
- Fume evacuation efforts might have degraded situation

Industry Initiative on SFF Checklists

- Inadequate guidance for unalerted smoke, fire, and fumes events
- Canadian Safety Board recommendations led to industry task force 2004-2005
- New guidelines and checklist template proposed
- New checklists being adopted by manufacturers

Parties to the Investigation

- Federal Aviation Administration
- United Parcel Service Company
- Independent Pilots Association
- Boeing Aircraft Company
- City of Philadelphia
- Pipeline and Hazardous Materials Safety Administration