

1 Problem

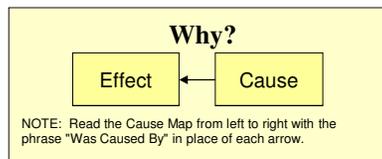
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|--------------|----------------------------|--|
| What | Problem(s) | Engine fire, evacuation, injuries |
| When | Date | September 9, 2015 |
| | Time | ~4 p.m. |
| Where | Different, unusual, unique | Fire continued until doused by firefighters |
| | Facility, site | Las Vegas, Nevada International Airport |
| | Unit, area, equipment | Boeing 777 |
| | Task being performed | Traveling at 90 mph in preparation for takeoff |

Impact to the Goals

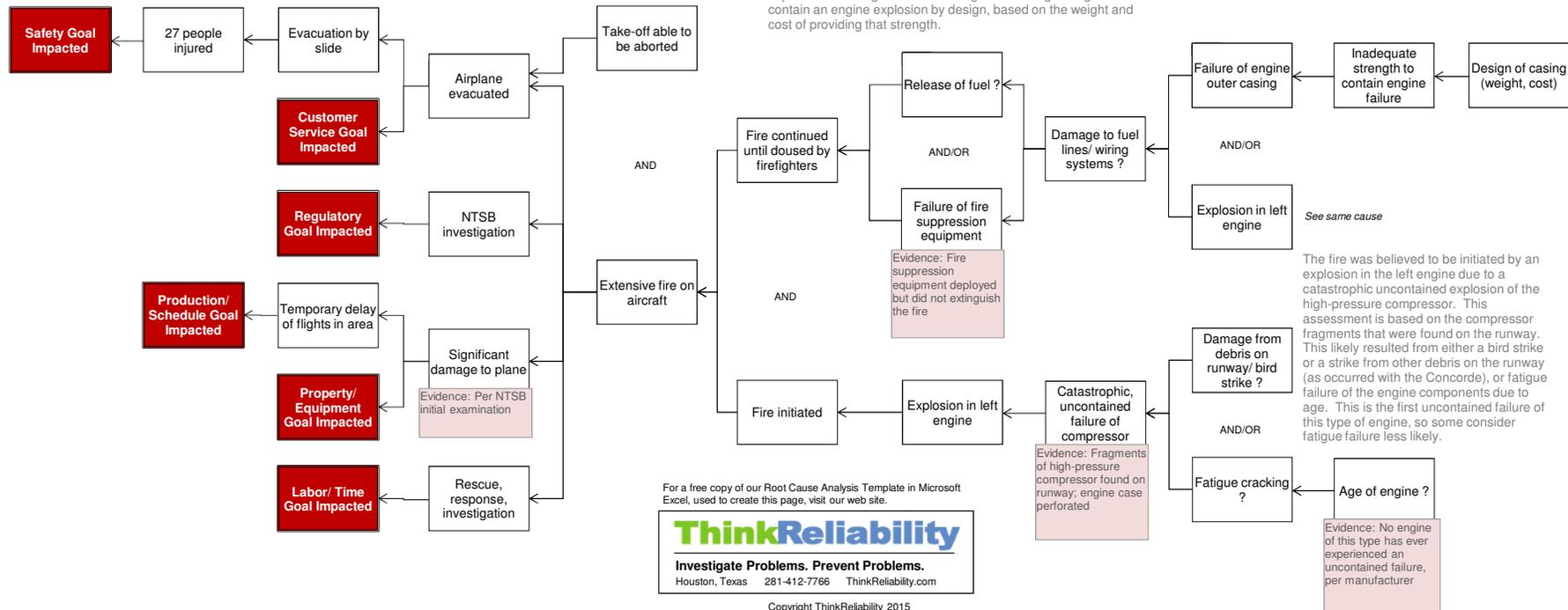
| | |
|-----------------------------|------------------------------------|
| Safety | 27 people injured |
| Environmental | ? |
| Customer Service | Airplane evacuated |
| Regulatory | NTSB investigation |
| Production/ Schedule | Temporary delay of flights in area |
| Property/ Equipment | Significant damage to plane |
| Labor/ Time | Rescue, response, investigation |

2 Analysis

Detailed Cause Map - Add detail as information becomes available.



The fact that take-off was able to be aborted, for which the pilot has been hailed as a hero, is actually a positive cause. Had the take-off been unable to be aborted, the result would likely have been far worse. The pilot's ability to quickly save the plane almost certainly saved many lives.



QUICK EVACUATION OF PLANE THAT CAUGHT FIRE ON RUNWAY

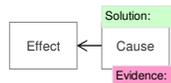
Cause Map

Pilot hailed as hero for quick stop during take-off

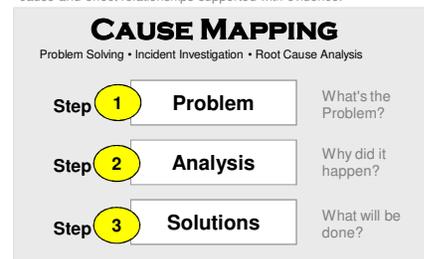
On September 8, 2015, an airplane caught fire during take-off from an airport in Las Vegas, Nevada. The pilot was able to stop the plane, reportedly in just 9 seconds after becoming aware of the fire. The crew then evacuated the 157 passengers, 27 of whom received minor injuries as a result of the evacuation by slide.

"The engine problem was in the high pressure compressor, which points us towards two things that might have gone wrong. One is that it failed because of age or it failed because it ingested something - it may have picked up something from the runway."

- Dr. Colin Brown, Institute of Mechanical Engineers



Cause Mapping is a Root Cause Analysis method that captures basic cause-and-effect relationships supported with evidence.



For a free copy of our Root Cause Analysis Template in Microsoft Excel, used to create this page, visit our web site.

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