## **NYC Helicopter Tragedy - East River**

Safety

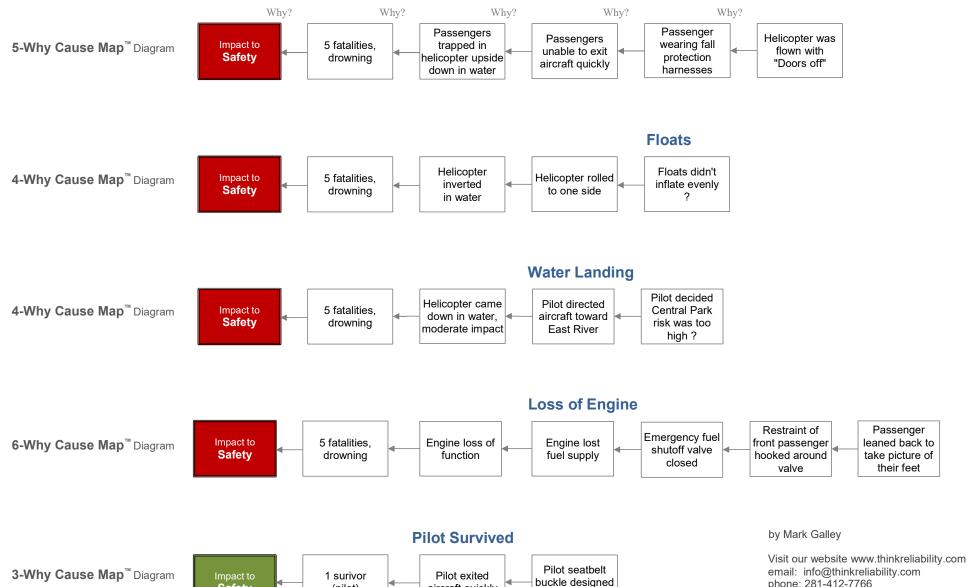
(pilot)

March 11, 2018

Cause Mapping® Method

Problem Solving • Root Cause Analysis

**Harnesses** 



Copyright 2018-2020 ThinkReliability, Novem, Inc.

for quick release

aircraft quickly

phone: 281-412-7766



## **NYC Helicopter Tragedy - East River**

March 11, 2018 Problem Solving • Root Cause Analysis Cause-and-Effect Analysis Why? Because.. **Harnesses** Effect Cause Passenger Passengers wearing fall **Basic Cause-and-Effect Relationship** unable to exit protection aircraft quickly harnesses **15-Why Cause Map**<sup>™</sup> Diagram **Loss of Engine** Harnesses Passengers Impact to 5 fatalities, trapped in AND 000 Safety drowning helicopter upside Restraint of 0000 Pilot performed down in water Emergency fuel Engine loss of front passenger auto-rotation shutoff valve function hooked around closed maneuver **Water Landing** valve Pilot directed Helicopter came AND aircraft toward down in water, moderate impact East River Pilot decided Central Park risk was too high? Helicopter inverted AND in water **Swiss Cheese Model** Accident Causation Model developed by James Reason An incident occurs when the different holes align Helicopter not with a straight line passing through all the slices. buoyant, To avoid the incident at least one of the slices doesn't float Click here to watch the video needs to be misaligned. explanation of this issue. YouTube AND or search Cause Map **Floats** Helicopter New York 2018 Loss of Engine Emergency by Mark Galley floats didn't Helicopter rolled **Flotation System** to one side inflate evenly Visit our website ? **Harnesses** www.thinkreliability.com email: info@thinkreliability.com

Cause Mapping® Method

::: ThinkReliability®