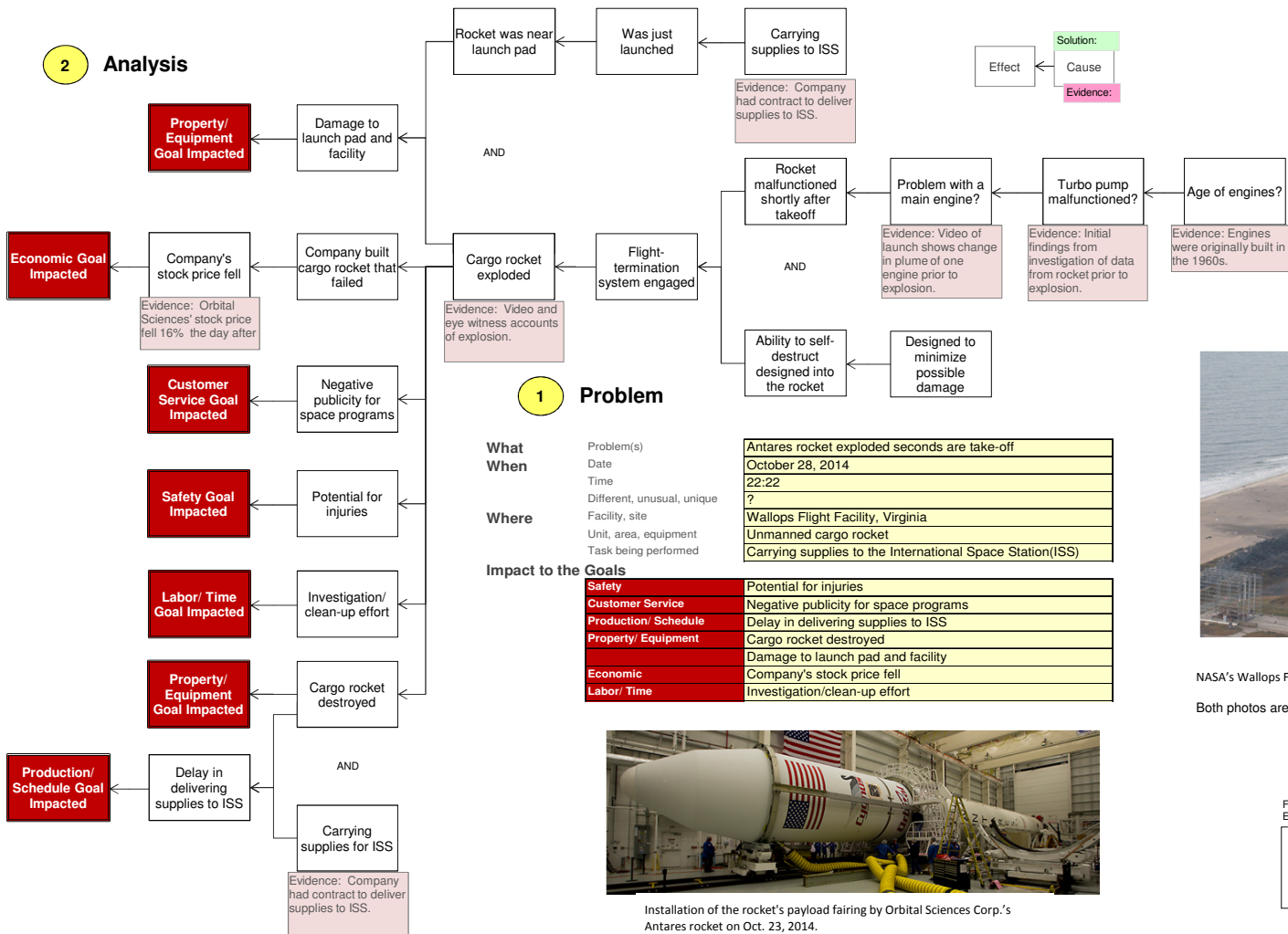


ANTARES CARGO ROCKET EXPLODES SECONDS AFTER LAUNCH

Russian engines from the 1960s eyed as possible cause

2 Analysis



1 Problem

What	Problem(s)	Antares rocket exploded seconds after take-off
When	Date	October 28, 2014
	Time	22:22
	Different, unusual, unique	?
Where	Facility, site	Wallops Flight Facility, Virginia
	Unit, area, equipment	Unmanned cargo rocket
	Task being performed	Carrying supplies to the International Space Station (ISS)
Impact to the Goals	Safety	Potential for injuries
	Customer Service	Negative publicity for space programs
	Production/ Schedule	Delay in delivering supplies to ISS
	Property/ Equipment	Cargo rocket destroyed
		Damage to launch pad and facility
	Economic	Company's stock price fell
	Labor/ Time	Investigation/clean-up effort



Installation of the rocket's payload fairing by Orbital Sciences Corp.'s Antares rocket on Oct. 23, 2014.

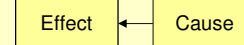
Cause Mapping is a Root Cause Analysis method that captures basic cause-and-effect relationships supported with evidence.

CAUSE MAPPING

Problem Solving • Incident Investigation • Root Cause Analysis

- Step 1 Problem** - What's the Problem?
- Step 2 Analysis** - Why did it happen?
- Step 3 Solutions** - What will be done?

Why?



NOTE: Read the Cause Map from left to right with the phrase "Was Caused By" in place of each arrow.



NASA's Wallops Flight Facility after failure of the Antares rocket on October 28, 2014.

Both photos are from the NASA website.

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

ThinkReliability

Investigate Problems. Prevent Problems.
Houston, Texas 281-412-7766 ThinkReliability.com

Copyright ThinkReliability 2014