

1 Problem

What	Problem(s)	2 firefighters injured
When	Date	August 21, 2014
	Different, unusual, unique	??
Where	Facility, site	Campbellsville, KY
	Unit, area, equipment	Fire fighters on fire truck's ladder
	Task being performed	Helping with an ice bucket challenge

Impact to the Goals	
Safety	4 injured, 2 seriously
Environmental	N/A
Customer Service	Power out to 4,500 customers
Regulatory	N/A
Production/ Schedule	N/A
Property/ Equipment	N/A
Labor/ Time	N/A

FIREFIGHTERS INJURED

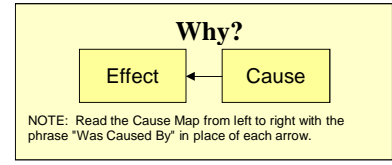
Cause Map

Ice Bucket Challenge Goes Wrong

Two firefighters were seriously injured helping the Campbellsville University's marching band raise money for amyotrophic lateral sclerosis (ALS) research by participating in the trendy ice bucket challenge. The firefighters were near power lines and were burned by an arc flash.

"A number of our students, of course, the entire marching band, witnessed the event and so we're concerned about them and the tragedy of this accident."

-Michael Carter, Campbellsville University president



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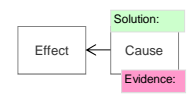
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2 Analysis

Basic Level Cause Map - Start with simple Why questions.

Basic Cause-and-Effect

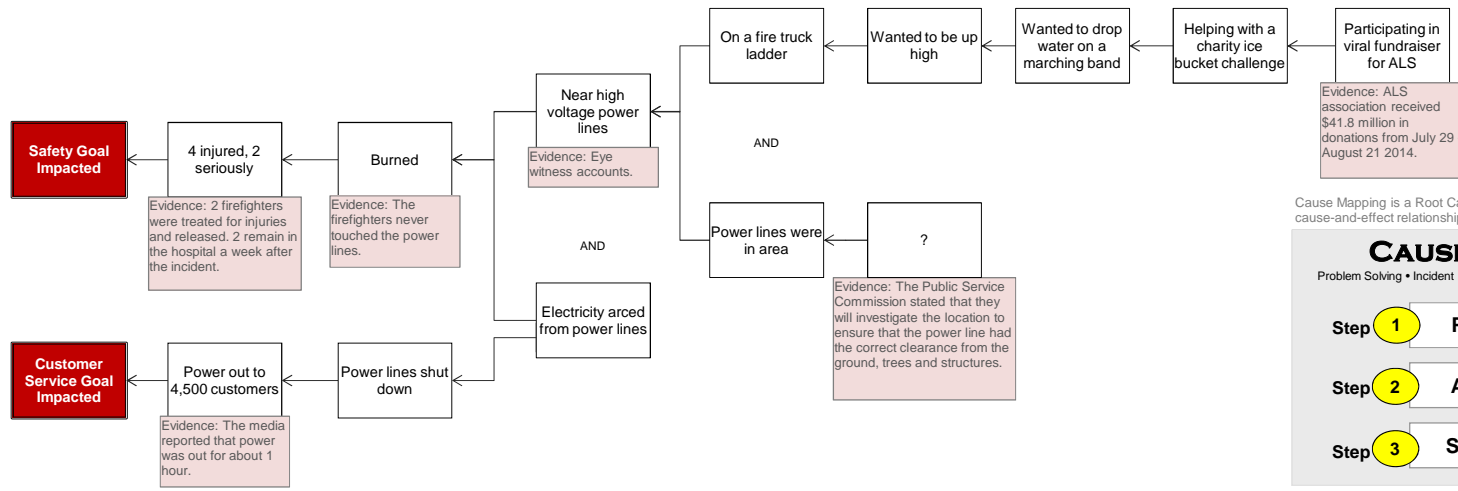
In order to make a memorable video to post on social media, the firefighters used a fire truck ladder to dump ice water on the band from above. While on the ladder, the firefighters were near high voltage power lines (although they never actually touched the lines) and electricity arced out, injuring four firefighters.



3 Solutions

The final step in the Cause Mapping process is to develop and implement solutions that will reduce the risk of a similar problem in the future. This accident is still being investigated and more details are needed. Solutions that could potentially reduce the risk of a similar problem in the future are increased education on the risks of high voltage and ensuring that adequate warning signs are in place.

More Detailed Cause Map - Add detail as information becomes available.



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?