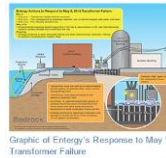


Indian Point Transformer Fire and Dielectric Fluid Leak

At 5:50 PM on May 9, 2015, a fire ignited in one of two main transformers for the Unit 3 Reactor at Indian Point Energy Center. These transformers carry electricity from the main generator to the electrical grid. While the transformer is part of an electrical system external to the nuclear system, the reactor is designed to automatically shut down in the event of a fire. Subsequent to the fire, oil (dielectric fluid) spilled into the plant's discharge canal and was released into the river. The exact amount of oil released and causes for the spill and fire continue to be investigated.



Indian Point Energy Center released photos and an informational graphic summarizing the event and response. Those can be found here: http://www.safesecurevital.com/transformer_update/

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?

1 Problem

Step 1. Define the Problem

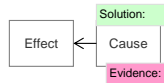
What	Problem(s)	Transformer failure and fire, Safety risk to responders, Dielectric fluid and fire-retardant foam release to river
When	Date	May 9, 2015
	Time	5:50 PM - Transformer failure and fire
Where	Facility, site	Returned to operations after shutdown on May 7, 3rd transformer failure in past 8 years
	Unit, area, equipment	Indian Point Energy Center; Buchanan, NY
Impact to the Goals	Task being performed	Unit 3 Main Electrical Transformer
		Generating power

Impact to the Goals

Safety	None, Potential for injury	
Environmental	Dielectric fluid and fire-retardant foam release	
Customer Service	Negative Publicity	
Regulatory	Notification to NRC of an Unusual Event (the lowest of 4 NRC emergency classifications)	
Production/ Schedule	Unit 3 Shutdown	
Property/ Equipment	Loss of Electrical Transformer	
Labor/ Time	Containment, Repair, Investigation Time and Effort	
Frequency	This incident	\$0
	3rd transformer failure in past eight years	Annualized Cost \$0

2 Analysis

Cause Map - Start with simple Why questions. Add detail as information becomes available.



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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