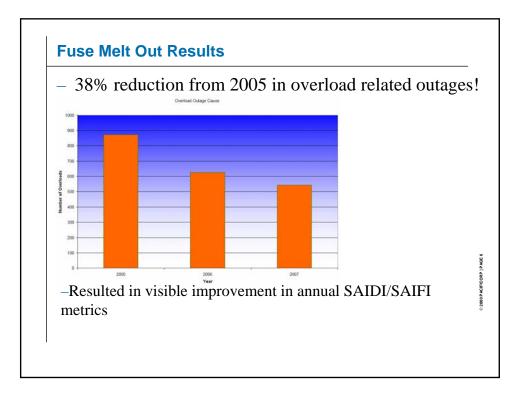


Fuse Melt-out Re	port Form - Return to the operations manag	ger by the next business day.
CADOPS Number: Time:	Responder Name: Weather/Temperature:	Date: Circuit:
Fuse melt out Circle the phase(s) that had t N C S or E		Amps Amps FPN:
Fuse size that melted:	Replacement fuse size:	Wait 5 minutes after replacing fuse for the load to settle e please contact the engineer on call.
Field engineer Required Changes:	_ □ agrees □ disagrees with fuse melt out solution. □	Date: Notify Operations of required changes.
	rm should be used whenever a fuse appears to have r d forms should be return to the local operations man	
Enter CADOPS outage num	ber, your name, date, time, weather conditions, and ci	ircuit name.
Fuse Melt Out - The fuse m	elt out section should be completed when a fuse appe	ears melted.
Circle the phases that had th		nter South when the line is running east - west ter West when the line is running north – south
		er Bottom for vertical construction.



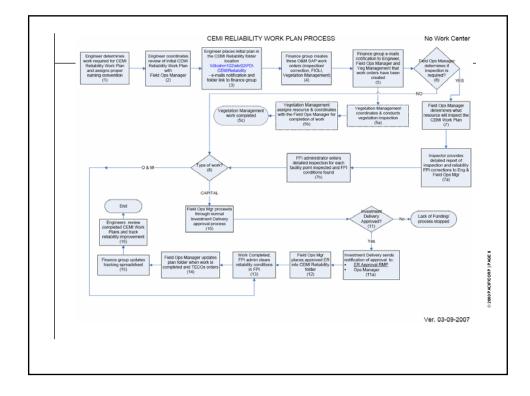


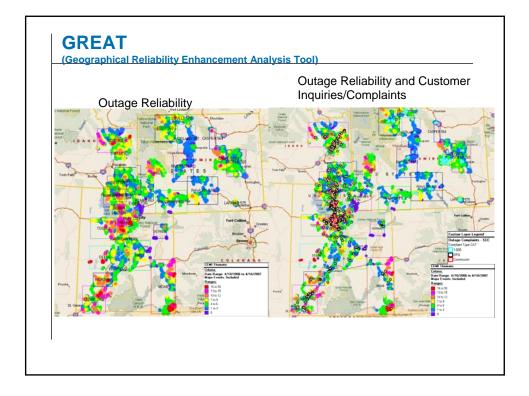
- Reliability Work Plans are oriented around what the customer experiences.
 - The customer does not care what is interrupting their power they just want it to STOP!

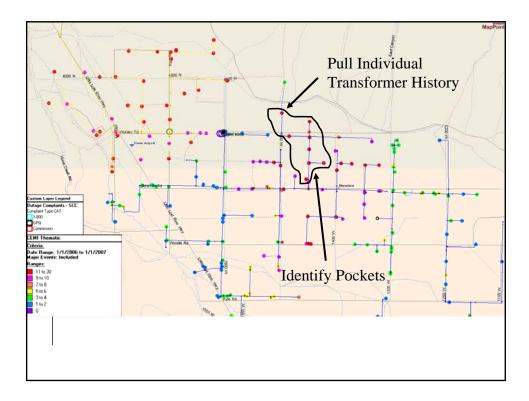
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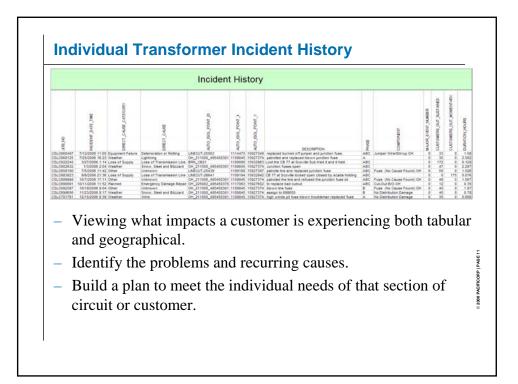
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- Areas and circuits have different characteristics in which they operate
- New technology has allowed us to view and identify characteristics isolated to a distinct location on a circuit.
- Build a plan targeted to meeting that location's needs.
- Do the work.
- Review the improvements and make changes if needed.

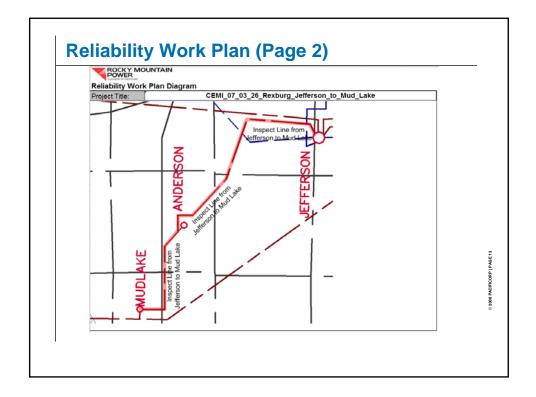


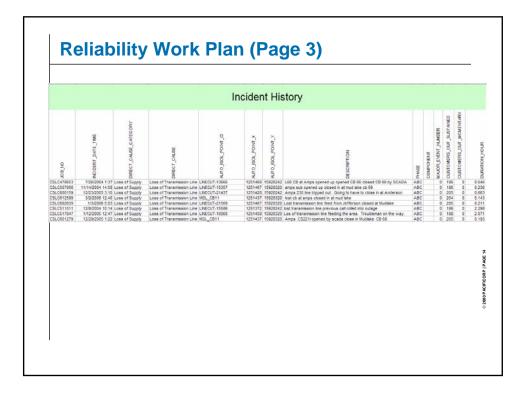


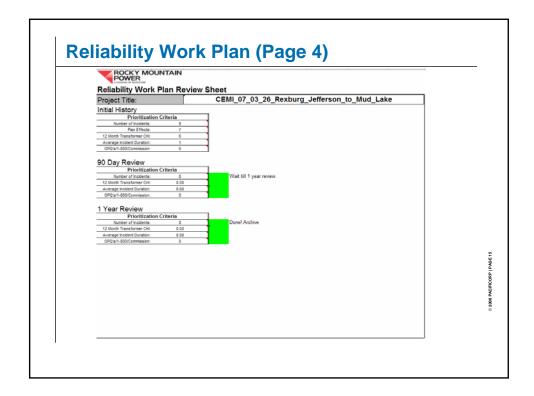


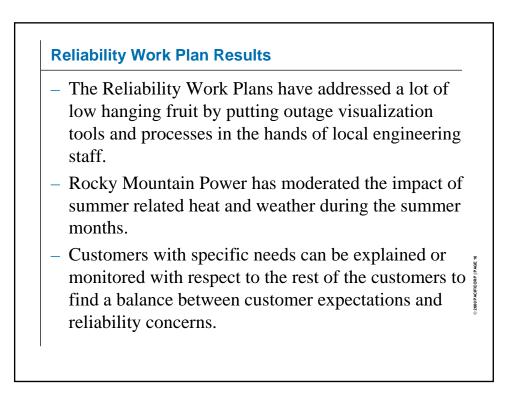


ROCKY MOUNTAIN POWER DATE: Create Nam		Reliability Work Plan		
CEMI 07 03 26 Rexburg Jef	ferson to Mud Lake	Charge Numbers	Prioritization Criteria	
			Number of Incidents:	8
Operations Manager	District	O&M Charge Number 15447760	Plan Effects: 36 Month Transformer CHI	7
Tony Nielsen Prepared By	Rexburg	FIOLI Charge Number	Average Incident Duration:	6.46
Joshua Jones	Jefferson	15447761	Customer Count	870
Date Created	Feeder/Transmission Line	Tree Trimming Number	OPO's/1-800/Commission:	6
3/26/2007	Jefferson_to_Mud_Lake	15447762	Overhead/Underground:	Overhea
Estimated By	Capital Cost	Capital Charge Number	Estimate Type	
Date Work Completed Summary: This year two transmission lines wer Incremental Improvments Justification The transmission line was picked by	on:	•		ne has









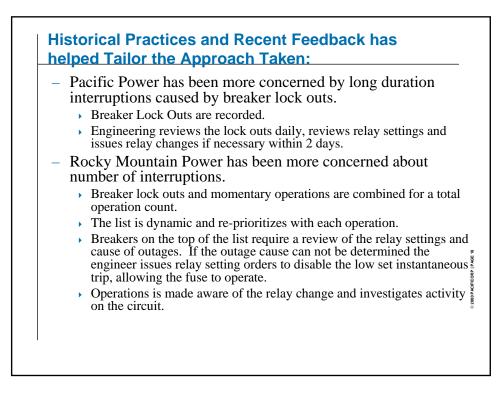
Breaker Operations

- Many companies have different philosophies.
 - Save the Fuse (Fuse Saving Scheme)
 - Operate the Fuse (Sensitive Customer Scheme)
- Regardless of the philosophy breaker operations should be tracked. (This is what the customers see)
 - High breaker activity should be reviewed and addressed regardless of type (momentary count or sustained count).
 - Sensitive customer circuits should be monitored closely to evaluate effective target ranges.

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• System serving industrial customers or high tech customers.

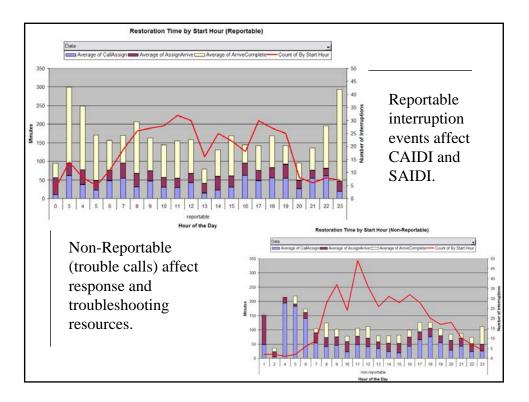


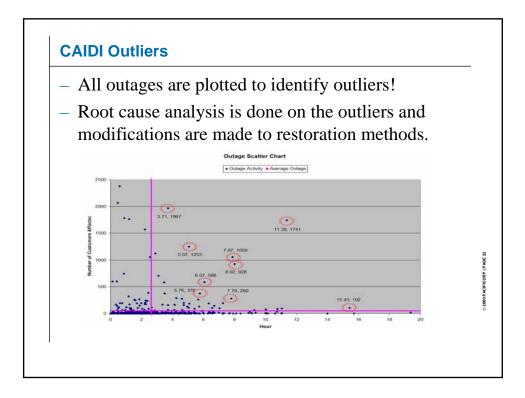
Breaker Operation Benefits

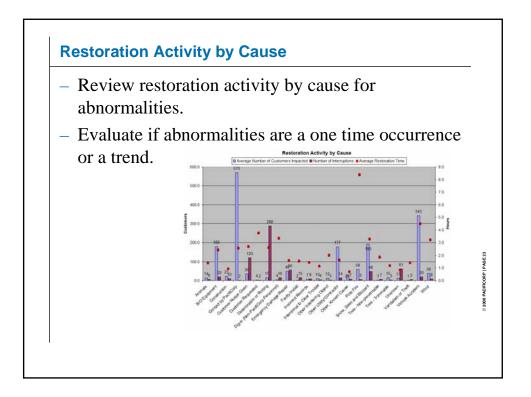
- Pacific Power has made substantial inroads with certain circuits' performance, by catching improperly set equipment as well as by more promptly patrolling for root causes of repeated devices.
- Rocky Mountain Power customers have been very pleased with the change.
 - The company has received positive feedback from customers.
 - The down side can be the change in turning a momentary outage into a sustained outage, which can only be mitigated by finding where the problem is and fixing it.

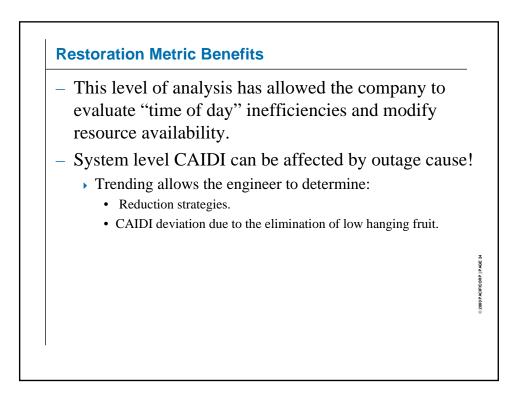
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Dutage Activity is a key real-time outage nanagement opportunity.	
Outage management system technologies have elivered some improvements.	
Key areas for Pacific Power & Rocky Mountain ower are managing:	
Resource hours,Type of calls responded to,	
Cause trends, and	
• Heavy-hitters that dominate day-to-day comparisons.	











- Plans can be developed that put you in the driver's seat by acting more rapidly on reliability information.

- Several questions need to be considered:
 - What top issues are you facing?
 - What data do you take action on?
 - How do you use the data?
 - Who uses the data?
 - > Do they know what differences in the data drive differing actions?
- If you've attacked the problem in this sort of way you too can be developing almost real-time solutions for managing reliability.

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