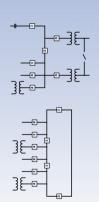
Asset Management Update



ATC Network Customer Meeting

May 17, 2007

Presenter: Mark Davis, Director

Asset Management & Arrowhead Weston Department



Maintenance to Asset Management

 The Maintenance Management approach was appropriate to establish our performance baseline of newly acquired assets.

- But we need . . .
 - To manage risk,
 - Better plan for asset renewals,
 - A strategic approach to managing and financing an aging infrastructure.



Changing Landscape Drivers

	<u> ^ </u>		
	Asset Maintenance	Asset Management	
	2001 to 2005	2006 to 2007	=> 2012
	January 2001: \$580 million in assets 2002: \$0.7 billion in assets 2003: \$0.9 billion in assets 2004: \$1.0 billion in assets 2005: \$1.4 billion in assets	9,100 miles of transmission line 480 substations 2006: 1.9 billion in assets	Construction plans for next 10 years \$3 billion.
Nee	Perform a general assessment of ATC assets. Obtain information on current assets and their maintenance requirements. Maintain the assets to support a reliable system. Needed to act on the increased Vegetation Management expectations (2004)	Maintain an asset base that has grown significantly since start of ATC. Improved cost effective management of system. Supporting an increased emphasis on reliability. Transition to operations based maintenance. NPV renewal based on financial attributes.	Continue to manage a reliable large fleet of assets. Anticipated construction plans for next 10 years increase asset base significantly. Increased emphasis on maintenance. Operations based maintenance. Renewal strategy considering NPV and multiple attributes. Meet and/or exceed NERC reliability standards.
acn	Time-based Maintenance Approach	Apply Industry Leading Practices	



Good Business Decisions (Risk-Value-Cost-Reliability Based)

Asset Management Department

Developing a Methodology

"Ensure assets deliver the required function and level of performance in terms of service, in a sustainable manner, at the lowest whole life cost without compromising health, safety, environmental performance, or ATC's reputation...."

For the Purpose of

Improving reliability for our customers through applying leading risk-based decision making practices to the management of our transmission assets.



Shift from Maintenance to Asset Management

Key Steps

- Develop Framework for Asset Management.
- Develop Asset Health Index Calculation.
- Develop Risk/Benefit Valuation.
- Apply additional attributes to Net Present Value Concepts.

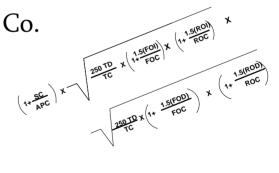
Benefit Realized

- Engaged workforce.
- Performance based asset maintenance instead of time based.
- Better Asset Renewal Decisions (Quantify the risks and benefits).
- Enhanced NPV (risk/benefit based).



Approach Behind our Change

- Analyzed the "AS-IS" state.
 - Identified risk adverse processes
 - Right skills of staff; adjust focus
- External Assessment.
 - Call for Papers
 - Yanco & Assoc. consultant
 - Benchmarking Dominion, Southern Co.
- Learn from the Workforce.
 - "Tribal" knowledge
 - HR support and guidance
- Build a Strong Sense of "Team".
 - Candor and inclusion
- Capitalize on Talents.





We've Re-aligned for the Future

Asset Management

Mark Davis

Asset Maintenance

Rod Ellifson

- * Execution of work plans.
- * Stewardship of O&M budget.
- * Portal of maintenance work to alliance partners.
- * Asset data owners.

Asset Planning & Engineering

Andy Dolan

- * Long-term planning based on system health.
- * Stewardship of AM driven capital budget.
- * Standards with leading practices.

System Protection & Commissioning

Jim Vespalec

- * Enhanced business perspective.
- * Synergies in the labor/resource pool.

Compliance & Development

Rich Young

- * Develop, manage & report AM NERC/ FERC compliance.
- * Establish metrics.
- * Manage EPRI spending.

Data Management & Arrowhead Weston

Pete Holtz

- * Close the gaps in data needs.
- * Close the gaps in records needs.
- * Own our applications.

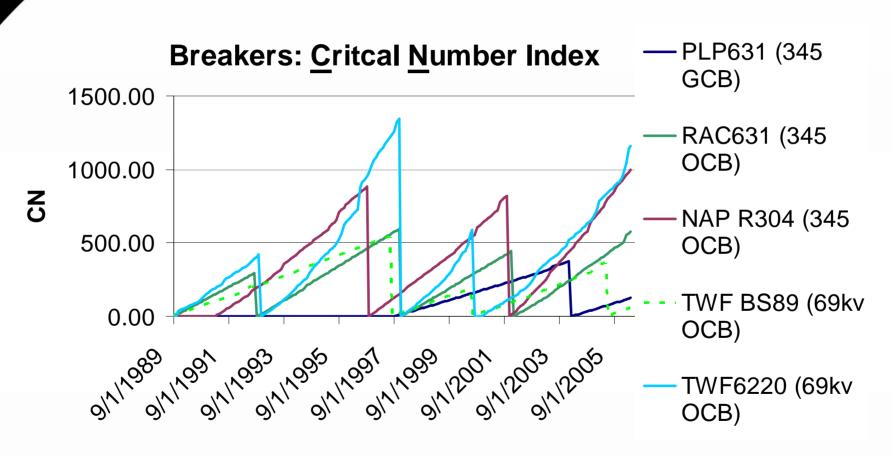


Asset Management Methodology Pilot Project Excerpt

Health Index
Substation Circuit Breakers



Health Index – Circuit Breakers





We're on the move!

- Analyzing "health" of breakers,
- Challenging '09 projects using what we've learned,
- Applying methodology on the run,
 - Used to identify poor performing assets
- Employing economic analysis on some asset renewals,
- Continuing development of T-Line health index model,
- Setting firm '07 targets for data acquisition,
- Developing asset renewal model using the valuation of risk and benefits.

We're putting the pieces in place. . . .

- Industry leading practices,
- ATC and Consultant expertise,
- Re-aligned organization,
- Focused development effort (circuit breakers, transformers, and T-Lines).

For more than maintaining but for managing our transmission assets using leading practices.