

Oncor Vegetation Management Transmission

How Have NERC Rules Changed Utility VM

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WE DELIVER.



Oncor System Overview

Oncor System

- 15,717 Transmission circuit miles
- 6,346 Circuit Miles of 345 kV (NERC)
- 19 Transmission work centers
- 70K+ Distribution miles
- 3.4 million meters
- 3,700 employees
- We provide services in 402 cities across 91 counties, making up nearly one-third of the state's geographic area.
- Since 2001, Oncor has annually been recognized as a Tree Line USA Utility for our leadership in quality tree care practices, annual training in caring for trees, quality-trained employees and public education program.

Why do we have the NERC Rules

2003 Northeast Blackout

- August 14, 2003
- Eight US states
- Ontario province
- 50 million people effected
- Three tree faults
- “Overgrown trees”
- Cascading event



NERC FAC-003

FAC-003-1 – FAC-003-4

- Original FAC-003 version 1 went into affect in 7/18/2007
- 200 kV and above or Interconnection Reliability Operating Limit (IROL)
- Major changes:
 - ROW definition
 - Clearance 1 & 2 to MVCD
 - MVCD changed from 10 ft. to 4.6 ft. for Oncor
- TVMP to annual plan only

How NERC effected Oncor Transmission VM

Before NERC

- Strategy
- Funding
- Staffing
- Capital VM process
- VM Specs and Guidelines
- Audits and T&M work



How NERC effected Oncor Transmission VM continued

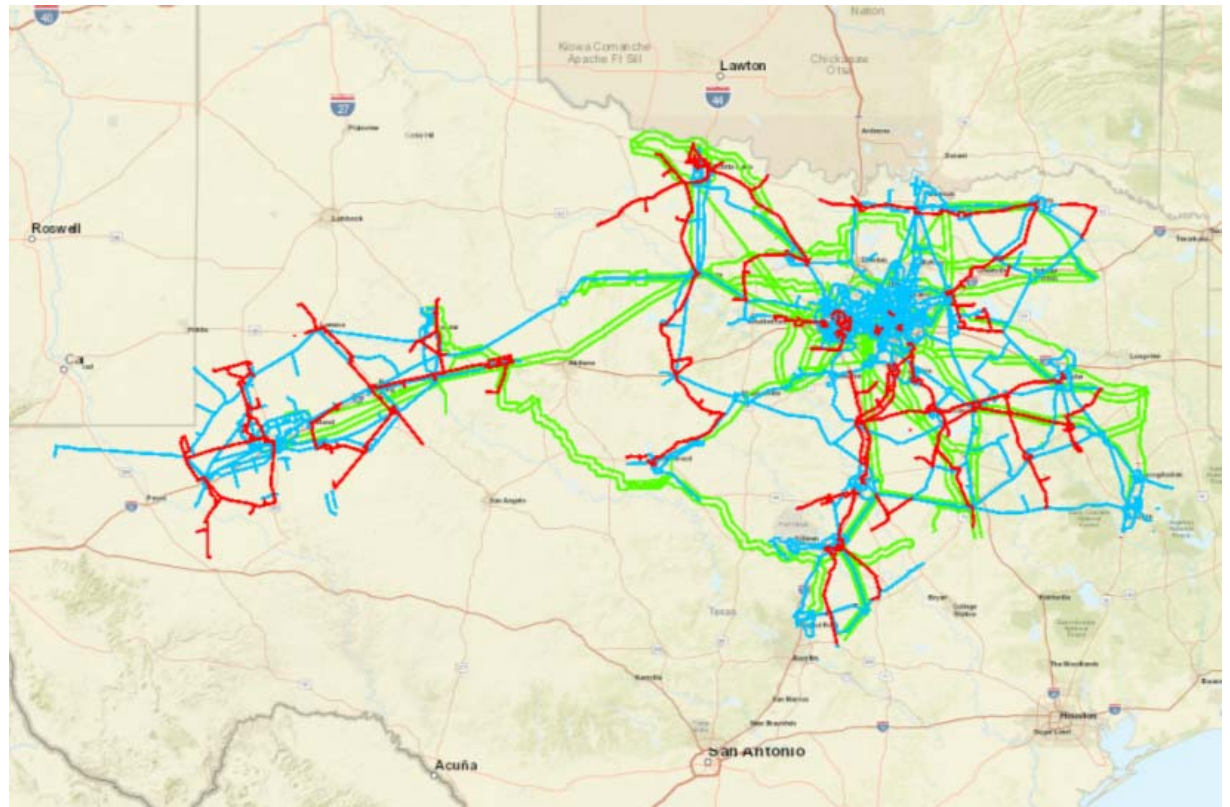
After NERC

- Staffing
- Strategy
 - Full easement reclamation
 - Cycle-based program
 - Edge and Floor cycles
 - Competitive flat price bids
 - Audits
 - Third-party consulting utility foresters
- Funding
- CREZ – Changes in capital process



Challenges

- Zero tolerance regulations
- Knowing where your NERC lines are
- Line naming, electrical system vs. ROW corridor
- Special considerations - refusals
- Easements
- Cycle busters
- 138 kV-69 kV effected
- Diverse ecosystems
- Contractor resources
- Documentation



Benefits of NERC Regulations

- Stabilized budget due to reporting annual plan
- Elevated VM awareness within the company
- Developed partnerships with other internal organizations
 - Engineering
 - ROW
 - Environmental
 - Customer Ops
- IVM usage increased

Oncor VM Transmission Future

- Work to specs vs. pre-planning
- Technologies
- Continue to address legacy trees
- OTIS
- Work Management Program



Questions

