

Management of Existing Overhead Lines WG Meeting

July 28, 2010

Management of Existing Overhead Lines WG Meeting
IEEE PES General Meeting
Minneapolis, MN



AGENDA

UPDATES:

- *TF Report: Guide for Collecting and Managing Transmission Line Inspection and Maintenance Data*

SPECIAL PRESENTATIONS:

- *CIGRE Technical Brochure: Live Working - A Management Perspective*
- *Overhead Transmission/Distribution Equipment Failures – Results of a National Survey of 1 Million Structures*

NEW BUSINESS:

- *Discussion of Potential Future Activities and Topics of Interest*

Task Force for the Development of a:
***Guide for Collecting and Managing
Transmission Line Inspection and
Maintenance Data***

Status Update

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Scope of the Guide:

- This guide provides **reference information** to assist electric utilities and their contractors with the **development of computer-based means for collecting and managing transmission line inspection and maintenance data** and associated asset information, including **inventory data**. It provides a **high level overview of key principles** and considerations learned through experience that will **help ensure common pitfalls are avoided** and **enhance the usability** of systems. It is **not intended to provide an exhaustive discussion** of the many details and specifics that must be accounted for when designing and developing a system for an individual utility's application and needs.

Purpose of the Guide:

- The purpose of the guide is to provide easy to use reference information that will serve as a framework and roadmap for designing efficient and effective systems that will facilitate and/or enhance:
 - Data Collection
 - Field and office usability,
 - Data integrity,
 - Compatibility with geographic information systems and enterprise solutions,
 - Data exchange with other systems and users,
 - System expansion and modification,
 - Transferability of data (from one system to another, i.e., due to system upgrade or implementation of a new system),
 - Data analysis,
 - Reporting,
 - Security, and
 - Flexibility to adapt to system and regulatory changes.

Sections of the Guide

TOPICS AND DESCRIPTION	SECTION
Drivers for Collecting and Managing Inspection and Maintenance Information – Reasons/rationale supporting the need to collect and manage inspection and maintenance information using efficiently designed computer-based systems are provided.	2
Starting to Design a Data Management System – A variety of key considerations ranging from determining stakeholders and development drivers to establishing requirements and resources necessary to design, develop, implement and support a system are provided.	3
Data Requirements – The types of data that need to be collected to meet various goals for system use are outlined.	4
Data Collection and Management Tools versus Data Management Systems – Issues that will be encountered and must be addressed when using multiple data collection and management tools within a data management system are discussed.	5
The Role of Geographic Information Systems (GIS) – Capabilities offered by and advantages of integrating GIS functionality with data collection and management systems are discussed.	6
Data Collection Methods – Brief explanations of the various methods for data collection are provided, including general considerations for each.	7
Matching Data Collection Capabilities with Various Types of Inspections – The capabilities of various types of inspections and the data collection features needed to support them are reviewed.	8
Sample Data Models – Graphical depictions of data models representative of those required to support systems with varying degrees of sophistication and functionality are provided.	9
Optimizing Data Quality and Usability – Data collection system design features that help ensure data quality and usability are reviewed.	10
Data Collection and Communication Hardware – Various hardware options for field data collection and data communication are discussed and the features and advantages of each are reviewed.	11
Reporting Functionality – A variety of types of reports, and report generation and presentation options designed to meet different asset management needs are discussed and samples are provided.	12

Current Status

- July 2010
 - Formatted document (Draft 1) underwent Pre-ballot Mandatory Editorial Coordination (Pre-ballot MEC) review and necessary modifications have been made
 - Ballot group formed (48 eligible voters)
 - Draft 2 uploaded for review by Staff Liason
 - To be provided to ballot group once approved

Next Steps

- Await ballot results (probably another 30-45 days)
- If approved
 - Submit final balloted draft for RevCom Mandatory Editorial Coordination
 - Revise as necessary
- If not approved
 - Determine where to go from there based on comments

Where could we go from here?

- Current Guide provides a high level overview of key topics
- Some comments in task force meetings indicate a need for a more thorough/detailed document about how to use data to answer specific questions
- Perhaps a more technical guide specifically related to things like using inspection and maintenance data to
 - Forecast maintenance expenditures?
 - Optimize inspection and treatment cycles?
 - Determine component mortality?
 - Reduce risk by prioritizing maintenance?