

Transmission Line Construction

Construction of transmission lines involves the following activities:

- **Site Preparation**
- **Foundation Construction**
- **Structure Construction**
- **Wire-Stringing Operations**

Site Preparation

Tower locations are cleared of vegetation prior to construction of the towers. Access roads may need to be upgraded or new roads constructed to accommodate construction vehicles and equipment access to each tower site.



Transmission line tower construction site.



Foundation construction for an LST.

Foundation Construction

Most structures have a concrete foundation. The size of the foundation depends on the type of structure and the terrain. Foundation construction begins with the auguring of holes for footings (four for lattice steel towers [LSTs] and one for tubular steel poles [TSPs]). For LSTs, each hole is usually 3 to 4 feet wide and 15 to 30 feet deep. TSPs require one hole that is up to 8 to 12 feet wide and 40 to 60 feet deep. Regardless of the structure type, foundations typically have a slight projection above the ground.

After the footing holes are excavated, they are reinforced with steel and then concrete is poured into the holes. Once the concrete has cured, crews can begin the construction of the structure itself.

Structure Construction

Generally, structures are built from the ground up. Structures are assembled in sections near the new tower location and a crane is used to lift the sections into place. Crews then bolt the sections together.

TSPs are either completely assembled near the tower location and then erected at once, or are assembled in sections. The method used is determined by terrain and available space next to the structure site.

Tower erection is usually performed by crane, but helicopters are used in areas that are inaccessible to large ground-based construction equipment.



A crane carrying the top section of a LST for installation.



A sky crane helicopter carrying the top section of a LST.

Transmission Line Construction Safety Manual

K Morrison



Transmission Line Construction Safety Manual:

United States Government Organization Manual , Reclamation Manual United States. Bureau of Reclamation,1951 Lineman and Cableman's Field Manual 2e (PB) Thomas M. Shoemaker,James E. Mack,2009-03-16 A Compact On the Job Reference for Linemen and Cablemen Fully updated with the latest NEC and OSHA standards this one stop portable guide contains the crucial electrical data formulas calculations and safety information essential at any jobsite The Lineman s and Cableman s Field Manual Second Edition provides easy to follow details on constructing operating and maintaining both overhead and underground electric distribution and transmission lines Helpful charts tables diagrams equations and definitions are included throughout this handy resource The new edition of the manual covers Line conductors Cable splices and terminations Distribution voltage transformers Wood pole structures Guying Lightning and surge protection Fuses Inspection and maintenance plans Tree trimming Rope knots splices and gear Grounding Protective grounds Safety equipment and rescue **National Electrical Safety Code (NESC) 2012 Handbook** David Marne,2011-11-11 Achieve full 2012 NESC compliance with this hands on guide Designed to be used alongside the Code itself McGraw Hill s National Electrical Safety Code NESC 2012 Handbook provides a rule by rule annotation of the NESC that clarifies potentially confusing Code text and allows you to perform your work safely and confidently This step by step guide explains how to apply and meet the NESC rules for electrical supply stations and equipment as well as overhead and underground electric supply and communications lines Hundreds of illustrations and photos practical examples and concise language regarding complicated and controversial issues are included in this expert resource **COVERAGE INCLUDES GENERAL SECTIONS** Application definitions grounding methods **RULES FOR THE INSTALLATION AND MAINTENANCE OF ELECTRIC SUPPLY STATIONS AND EQUIPMENT** Protective arrangements working space rotating equipment batteries transformers regulators conductors circuit breakers switchgear surge arresters **SAFETY RULES FOR THE INSTALLATION AND MAINTENANCE OF OVERHEAD ELECTRIC SUPPLY AND COMMUNICATION LINES** Classes of lines and equipment clearances grades of construction loadings strength requirements line insulation **SAFETY RULES FOR THE INSTALLATION AND MAINTENANCE OF UNDERGROUND ELECTRIC SUPPLY AND COMMUNICATION LINES** Underground circuit systems supply cable cable in underground structures direct buried cable cable in duct risers terminations equipment installation in tunnels **WORK RULES FOR THE OPERATION OF ELECTRIC SUPPLY AND COMMUNICATIONS LINES AND EQUIPMENT** Employer and employee rules OSHA requirements **Wellton-Mohawk Generating Facility** ,2005

Application of Image Processing and Knowledge Reasoning in the Construction of New Power System Fuqi Ma,Bo Wang,Hengrui Ma,Yikui Liu,Rong Jia,2025-03-12 The power system is undergoing changes in terms of grid formation technology foundation and operational characteristics which are placing higher requirements on the perception and cognitive capabilities of the current system This necessitates the urgent promotion of new power systems construction incorporating

digital and intelligent technologies to serve the energy transformation AI plays a crucial role as one of the key driving technologies for the digital transformation of energy It encompasses an exclusive AI formed by the fusion of relevant theories technologies and methods of AI with the physical laws technologies and knowledge of power systems From the perspective of perception and cognition the exclusive AI primarily consists of two research directions 1 The application of perceptual intelligent technologies such as image recognition in scenarios like equipment defect recognition and construction site safety monitoring 2 The application of cognitive intelligence technologies such as knowledge question answer and knowledge graph in scenarios like power knowledge retrieval and intelligent question answer By leveraging power production knowledge and AI technology intelligent perception and cognition of the operational status can effectively meet the urgent needs of the power industry development This Research Topic focuses on the application of image processing and knowledge reasoning in the power industry It utilizes multi source power industry image data employing image intelligent processing deep semantic knowledge mining and other technical methods to achieve intelligent perception and cognition of the power system s operation status The goal of this Research Topic is to enhance the digital and intelligent level of the power system and propel the construction and development of the new power system to a new level Excavation Safety Resource Manual ,1993

Pamphlets on Forest Policy ,1911 McGraw-Hill's National Electrical Safety Code 2017 Handbook 4E (PB)

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