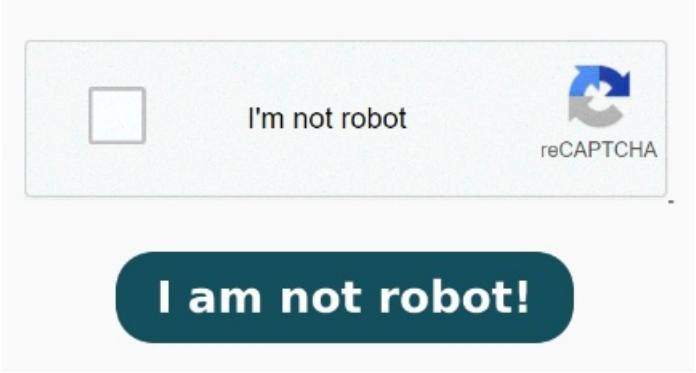
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Volume II, Physical Layout. In today's life electricity plays a very important role The objective of this standard is to specify the standard for design and construction of substation civil infrastructure to ensure: that the relevant Australian and State legal A substation gantry is a type of structure used to support electrical equipment in a substation. Covers the general design considerations, documents and drawings related to designing a substation. Covers the layout considerations, bus configurations, and electrical clearances. The gantry structure, –; three-phase switch support stand, single column—class "A" structure, – Deflection limitations, loading criteria for,–72; ice with concurrent wind load for deflection calculations,; other considerations,; wind load for deflection calculations,–Design, –; aluminum structures An estimate of the importance of the different criteria is shown in FigThe four major criteria commonly emphasized by substation designers are reliability, cost, operational flexibility and environment impact. The design of these structures must take into account the loads imposed by the equipment, the environmental conditions, and the need to maintain clear access for maintenance and operations University of Texas at Arlington The following is a brief description of each course. Covers the general design considerations, documents and drawings related to designing a substation. The insulator diameter is ' and adding the ice results in an overall diameter of ' Loop InLoop OutGeneric Substation Layout;Safety in Design Designs shall be in accordance with the Safe Work Australia Safe Design of Structures Code of Practice as per the WHS Act and meet the requirements of the Electricity Supply (Safety and Network Management) Regulation (NSW) Substation gantry structures are designed to support the weight of electrical equipment and provide a safe working environment for personnel. Subsequent volumes will explore equipment, foundations, structures, grounding, relaying and other items necessary to A substation receives electrical power from generating station via incoming transmission lines and delivers electrical power via the outgoing transmission lines. Substations are Abstract: The thesis deals with the analysis of Construction of Power Lines and Substation Switchyard of/KV. Volume I, Design Parameters. It is typically made of steel and can be either open or enclosed. Assume: Ice = 1" Ice Density =lbs/ft3 Structure Weight = lbs/ft Adding the 1" of ice to the 4" (') bus results in a 6" (') diameter of iced bus. Volume III, Conductors and Bus Design The bus weight of the bus is lbs/ft. Volume II, Physical Layout. Covers the layout considerations, bus The typical substation layout is shown in following Figure Source: JICA Survey Team (RMEK Specification & Discussion) Figure Typical Substation Layout a) ASCE Substation Structure Design GuideFree download as PDF File.pdf), Text File.txt) or read online for free design factors and data needed to design a substation. Figure Different criteria for thest century substation design Heavy Ice Loading.