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connected the phase angle of the lv winding lags the hv by 30 degrees vector group is important when you run the transformers in parallel in power engineering a single line diagram sld also sometimes called one line diagram is a simplest symbolic representation of an electric power system design a single line diagram in autocad 1 hv lv generation power transmission distribution of power to understand the low voltage side of power distribution in a single line diagram let s remind ourselves how electric power is delivered to our homes and other facilities the single line diagram is the blueprint for electrical system analysis it is the first step in preparing a critical response plan allowing you to become thoroughly familiar with the electrical distribution system layout and design in your facility 132kv substation single line diagram what are the equipments used in substation every piece of equipment is a part of a bigger picture as long as they are working properly these will ensure the infrastructure s safety security and protection here are the individual parts of the 132kv substation equipment batteries when interpreting a single line diagram you should always start at the top where the highest voltage is and work your way down to the lowest voltage this helps to keep the voltages and their paths straight to explain this easier we have divided the single line into three sections

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