BYSTRUP

THE NEEDLE

Voltage: Material: Surface finish: Foundation: 2x400 kV (can be modified) Spun Concrete / Steel None Directly embedded

The Needle has a minimal footprint and ROW (Right Of Way). It is also faster to build. Prefabricated in spun concrete or bolt-together sections in steel, up to 6-8 pylons can be installed in one day. Depending on the landscape conditions, the pylon can be installed using a mobile crane or helicopter. Transportation can be done either via a truck or helicopter. The parts of the pylon are smaller, meaning transportation is easier, as the parts fit a truck.

The Needle can easily be modified to other specifications.

The Needle is about a third lower in height compared to traditional solutions - with a reduced voltage, the Needle can be made even more compact.

We propose a design in either spun concrete or steel, depending on the specific project. The two approaches have similar benefits; minimum footprint/ROW, no routine maintenance, easy and fast installation, and high durability. Concrete poles are a highly cost-efficient solution with regards to material, whereas steel poles are cheaper to transport due to the reduced weight.

The spun concrete pole arrives in a single piece ready for installation - directly embedded. (www.valmont-newmark.com) Spun concrete poles, in service extensively throughout Florida, weathered sustained winds of 145 mph and gusts exceeding 200 mph without a single failure when Hurricane Andrew hit South Florida in 1992. The easier installations and virtually no post-installation maintenance result in low lifetime costs of these poles. Direct burial is used extensively, significantly reducing installation costs. There is no rusting or rotting to monitor, and replacements and patches are not needed. These factors provide a much better return on investment over the longterm. 111. 200



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