

NRECA Underground Distribution Subcommittee Updates

Trung Hiu

Electric Staff Division

Rural Development

trung.hiu@wdc.usda.gov

(202) 720-1877

U-1 Principle Revisions

- Water blocking sealant shall be required in all stranded conductors.
- The plain cross-linked (XLP) has been removed as an acceptable insulation material and the cross-linked polyethylene with tree retardant (XLP-TR) insulation has replaced it due to the significantly improved reliability.

U-1 Principle Revisions

- Nominal insulation thickness on 25 kV cable has been reduced from 345 mils (8.76 mm) to 260 mils (6.60 mm).
- 35 kV rated cable is included as an acceptable cable operating voltage.
- In area with soil resistivity greater than 2500 ohm-centimeters, semiconducting jacket may be applied in lieu of insulating jacket.