

Subject: Underground Single Phase Protection

Customer Category: Major southwestern utility

G&W Products: Trident single phase, solid dielectric fault interrupters

Issue: The utility is undergoing efforts to increase service reliability and reduce outage time for their customers fed by underground cable equipment. Padmount load break switches are used as sectionalizing points for the underground three phase circuits however the utility decided to incorporate single phase protection devices wherever single phase loads were tapped. Rating requirements were for both 15.5 and 27kV, 200A continuous current. Because much of the cable ran through residential areas, the utility wanted as small a vault as possible with top access to the equipment. They also wanted the capability to reset the device from above ground to quickly re-energize a faulted circuit.

Solution: After evaluation of the requirements, the utility decided on G&W solid dielectric vacuum fault interrupters. The compact modular construction permits

mounting in a small, shallow vault with easy access for hookstick operation from above ground. A manual operation handle permits resetting of the vacuum interrupter thereby eliminating the cost of fuse replacement and stocking of different fuse types. An electronic control permits a wide range of overcurrent protection curves and can be easily changed in the field if future requirements change. The device is also capable of complete submersion.

For more information: Contact your G&W representative or visit www.gwelec.com. G&W has been a quality supplier of switchgear and cable accessories worldwide for over 100 years. A complete line of solid dielectric load and fault interrupters for vault and padmount applications are available.



G&W's 15kV, 200A solid dielectric switch minimized the vault size requirement and offered convenient access to the manual trip handle for easy hookstick operation from above ground.