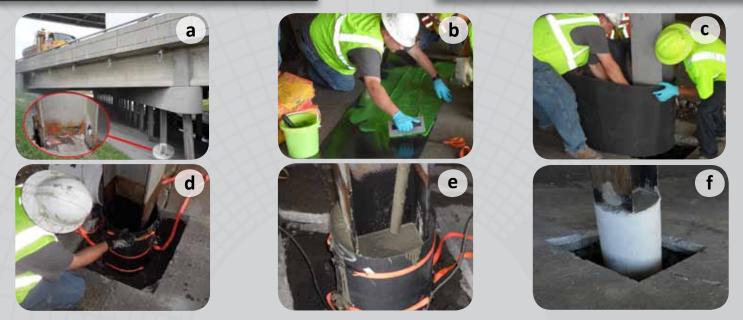
## **Beyond Wet Lay-up FRP** New Product Restores Columns & Piles in 2 hours!



The patent-pending PileMedic<sup>™</sup> is constructed with multiple layers of carbon and glass FRP pressed together to form a solid flexible laminate that is 3-4 times stronger than steel. The laminate is wrapped around the corroded column or deteriorated pile to create a seamless shell that can be filled with high-strength grout or resin.

Columns



a. Corrosion-damage b. Apply epoxy to PileMedic<sup>\*\*</sup> c. Wrap PileMedic<sup>\*\*</sup> around column or pile to create a cylindrical shell d. Temporarily support shell w/ ratchet straps e. Fill annular space with grout f. Remove ratchet straps & paint jacket (if desired)





QuakeWran Australia

Stronger Than Steel

## **Underwater Piles**





## Advantages

- 3-4 times stronger than steel
- Increases axial capacity beyond original strength of column
- No weak seams along height
- Provides structural confinement
- No costly divers for underwater repair

TONY WHITE

Business Development Manager M 0434 760 136 F 07 3217 1645



- Does not corrode
- No metallic parts
- Grout can be pressurized
- Available in carbon or glass
- One size fits all piles or columns (no delays for customized jackets)

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## **Restoration of Corrosion-Damaged Columns Using PileMedic**<sup>™</sup>

A Patent-Pending Technology Developed by QuakeWrap, Inc.

- These columns support existing transmission lines in an operating substation, and replacement or traditional repair was impossible without a temporary shutdown of the substation and disruption to the local grid.
- The rehabilitation of 31 columns was completed in 5 working days, with the lines and towers continuing to operate normally throughout the period of repair, and with no need for electrical shutdowns, switch-overs, or other interruptions to normal service and operations of the substation.
- The axial capacity of the columns was increased from approximately 189 tons to 671 tons!



Corrosion-damaged column



Cut a piece of PileMedic<sup>\*\*</sup>, apply epoxy & wrap ...



Insert drain pipe (if required)



Cut an opening at 30-inch above grade



... around the column to create a 36-inch high shell



Fill the annular space with grout & vibrate



Fill the inside of the column with grout



Use ratchet straps to support shell temporarily



Remove ratchet straps & paint jacket (if desired)

PileMedic+



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