3M™ Gridlines©

Updates on 3M ACCR

And The Winner Is...

Results of the IEEE T&D Conference NASCAR Drawing

We appreciate everyone who entered the drawing for 3M NASCAR merchandise at the 3M booth in New Orleans. And congratulations to our winners, especially the grand prize winner of the NASCAR leather jacket, Peter German of Burlington Hydro in Burlington, Ontario.

Other winners: 2nd Prize - Polo shirts: Bob Emgarten, Iowa Lakes Electric Co-op; Mike Hughes, Clarksville Light and Water; and Kirk Rae, Baltimore Gas and Electric.

3rd Prize - T-shirts: Thomas Rege, San Diego Gas and Electric; Justin Gutierrez, Amperical Solutions; Steve Powell,

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Around the World

3M ACCR is Installed and Operating Wherever Projects Challenge Other Solutions

Although the first utility grid application of 3M ACCR was in the St. Paul/Minneapolis area in 2001, the first international installation was by Shanghai Power in 2007. Anticipating a sharp increase in power as Shanghai hosts the 2010 World Expo, the utility decided that doubling transmission capacity on its Yangxing line, which serves the Expo site – would be necessary. However, this area, the largest area ever developed

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Asia Pacific — Eight installations either complete or underway, including Shuinian to Shuangshan 220 kV line at Chongqing.

Inside this issue:

| CPFL Energia – A flooded island was not the insurmountable obstacle it was expected to be |
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The 3M NASCAR show car was a feature of the IEEE T&D Conference booth
NASCAR Merchandise Winners

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The Calvert Company; Tam Chi Duong, Hydro Quebec; Stuart Koncar, Salt River Project; Gene Holley, 4-County Electric Power; Ashely Dione

Visit 3M ACCR at:
- American Public Power Expo, Booth 606, June 20-23, Orlando, Florida
- Southeastern Electric Exchange Annual Conference, Booth 308, June 23 - 25, Miami, Florida
- IEEE Power and Energy Society General Meeting, July 25-29, Minneapolis, Minnesota
- CIGRE 2010 Technical Exposition, Booth 63 in Hall Maillot A, August 23rd - 27th, Palais des Congres de Paris, Porte Maillot,

Surviving the Flood
CPFL Paulista’s 138 kV Line Avoids a Flooded Island

At first, it seemed like a straight-forward project. In order to connect its new Iacanga substation to the grid, CPFL Paulista would cross the Rio Tietê northwest of São Paulo by building a mid-span tower on an island in the middle of the river. However, during September, 2009, a long period of above-normal rainfall swelled the river, submerging the island and plans had to change.

Instead, CPFL Paulista, a unit of CPFL Energia, eliminated the island tower on its new 138 kV line by using 3M ACCR on a 968-meter (3,177 feet) span. Although the tower was eliminated, the line still had 23 meters (75.5 feet) of clearance required for river traffic.

The Iacanga installation is the second by CPFL Energia, one

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CPFL Crosses the Flooded Rio Tietê

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of Brazil’s largest investor-owned electric utilities, serving some 6.5 million customers in four states.

In the prior application, using ACCR enabled CPFL Pratininga to solve an entirely different challenge. The utility upgraded a line passing through a densely populated suburb of the city of Várzea Paulista. The line passed through a narrow right of way immediately surrounded by residences without disrupting residents or causing logistical problems.

Get help with your challenging application through the Contact Us link at www.3m.com/accr.

3M ACCR Around the World

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oped to contain a world’s fair, is in the heart of greater Shanghai, along the Huangpu River. Expanding the right of way for new towers would be costly and time consuming, posing numerous logistical challenges. Instead, Shanghai Electric installed 3M ACCR on a double-circuit 220kV line linking the Yanggao and Xinzhou substations, more than doubling transmission capacity without any construction or right-of-way expansion.

Since that time, 3M ACCR has been installed in almost every region of the world. Utilities in China, India and Brazil, in particular, where demand for power is burgeoning with their economies, are adopting this new technol-

Paulo Ricardo Bambassaro, engineering and planning manager for CPFL Energia, “Building the foundation and tower on submerged land would have posed engineering difficulties, and waiting until mid-year for the river to subside would have caused unreasonable delay. Using ACCR was a far more desirable alternative; less costly, and safer for the construction team.”

North America — Twenty-nine projects in the U.S. and Canada, as well as Grand Bahamas Island, including the Montague Waterway Crossing, British Columbia, Canada.

Europe — Nine projects, including pilot lines in Western Europe.

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ogy to complete urgently needed upgrades while avoiding regulatory, social and logistical problems that can lead to costly delays.

For more information, contact your 3M account manager or go to www.3m.com/accr and click on Contact Us.

Latin America — One installation in Argentina and 4 in Brazil complete or underway, including Companhia de Transmissão de Energia Elétrica Paulista (CTEEP) Paraná River crossing, Brazil

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