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For Immediate Release

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**COMPOSITE TECHNOLOGY HOSTS INDUSTRY REPRESENTATIVES AT AMERICAN
ELECTRIC POWER ACCC/TW CABLE INSTALLATION**

PURCHASE ORDER RECEIVED FROM THE CITY OF KINGMAN, KS

Irvine, California, December 15, 2005 - Composite Technology Corporation (“CTC”) (OTC Bulletin Board: CPTC), a leading developer of high-performance composite core cables for electric transmission and distribution lines, announced today the conclusion of a successful event that included presentations and visits to the American Electric Power (“AEP”) (NYSE: AEP) installation site where Pike Electric Corporation (NYSE: PEC) is installing approximately 45 miles of Aluminum Conductor Composite Core (“ACCC/TW”) cable.

AEP and General Cable Corporation (NYSE: BGC) joined CTC in hosting the event attended by 42 industry representatives from the U.S. and Canada in San Antonio, Texas to witness the installation of ACCC/TW cable. The event marks an important milestone in CTC’s North American marketing drive that began with General Cable’s adoption of ACCC/TW as a standard product in its TransPowr™ cable product line, and FCI Burndy’s agreement to produce the connector hardware. This is our first joint marketing presentation event to introduce ACCC/TW to the industry in a large-scale commercial deployment. Eleven utility customers were represented together with a number of other interested parties.

Dave Ayers, who recently joined CTC as ‘Senior Applications Engineer stated, “It was fortunate that we were able to combine our largest commercial installation to date with one of the nation’s largest electric utilities. The installation went exceptionally well. Industry interest and acceptance in CTC’s novel transmission cable technology is increasing. Once our utility customers are able to try out ACCC for themselves and experience the operational advantages, I believe other projects will soon follow.”

The three-day event included project-specific presentations from AEP, General Cable and CTC. Site visits allowed attendees the opportunity of experiencing the installation first hand. This included talking with the line men and project managers about the attributes of the cable.

James Berger, AEP’s director, Transmission Line Projects Engineering, made presentations detailing the Leon Creek-Pleasanton project and reasoning for choosing the ACCC product. AEP is well known as an industry leader in working with new transmission technologies. Their goal is to optimize the delivery of power along existing rights of way while setting the highest standards for safety, efficiency and reliability.

Pike Electric was pleased with the ease of installation and Heath Young, Pike site foreman, commented: “A great concern is the practicality of a new product in the field. A key feature of the ACCC was the ease of installation. Working with this product will not force us to reorganize or rethink our project management. This is new technology at its best when we can please both the customer and our own linemen.”

The San Antonio installation represents the second significant installation of ACCC in the past thirty days. In late November, PacifiCorp began installing 22 linear miles of ACCC/TW in Salt Lake City, Utah, a project previously announced June 10, 2005.

CTC has received a purchase order from the City of Kingman Municipal Power and Light, Kingman, Kansas, for 70 linear miles of Hawk ACCC/TW cable together with associated hardware for delivery within 90 days, as part of a settlement modifying previous arrangements announced by CTC.

ABOUT AMERICAN ELECTRIC POWER

American Electric Power (AEP) owns more than 36,000 megawatts of generating capacity in the United States and is the nation's largest electricity generator. AEP is also one of the largest electric utilities in the United States, with more than 5 million customers linked to AEP's 11-state electricity transmission and distribution grid. The company is based in Columbus, Ohio. AEP operates 38,953 miles of transmission lines and 200,930 miles of distribution lines covering a service territory of 197,500 square miles in Arkansas, Indiana, Kentucky, Louisiana, Michigan, Ohio, Oklahoma, Tennessee, Texas, Virginia and West Virginia. For further information visit our website at www.aep.com or contact: Pat Hemlepp, Director of Media Relations, 614-716-1620.

ABOUT PIKE ELECTRIC

Pike Electric is one of the largest third-party providers of outsourced electric distribution and transmission services in the United States employing approximately 6,500. Their core activities consist of the maintenance, upgrade and extension of electric distribution and transmission power lines for more than 150 electric utilities, cooperatives and municipalities. They service a contiguous 19-state region that stretches from Pennsylvania in the north to Florida in the southeast and to Texas in the southwest. For further information visit www.pikeelectric.com.

ABOUT GENERAL CABLE CORPORATION

General Cable (NYSE:BGC), headquartered in Highland Heights, Kentucky, is a leader in the development, design, manufacture, marketing and distribution of copper, aluminum and fiber optic wire and cable products for the energy, industrial, specialty and communications markets. The Company offers competitive strengths in such areas as breadth of product line, brand recognition, distribution and logistics, sales and service and operating efficiency. Energy cables include low-, medium- and high-voltage power distribution and power transmission products. The Industrial and Specialty segment is comprised of application-specific cables for uses such as electrical power generation (traditional fuels, alternative and renewable sources, and distributed generation), the oil, gas and petrochemical industries, mining, industrial automation, marine, military and aerospace applications, power applications in the telecommunications industry, and other key industrial segments. Communications wire and cable products transmit low-voltage signals for voice, data, video and control applications. Visit our website at www.generalcable.com or contact Michael Dickerson, Vice President of Finance and Investor Relations at 859-572-8684.

ABOUT CTC:

Composite Technology Corporation is an Irvine, California based company providing high performance composite core conductor cables that bring the advantages of high performance composite technology to electric transmission and distribution electrical power lines. ACCC eliminates most of the cable sag that results from the heat caused by electrical transmission, contributing significantly to safety and reliability, and can transmit up to double the power of conventional cables of the same diameter and weight. Because it can operate at significantly higher temperatures, the use of ACCC creates a fundamental new opportunity for our electrical grid managers: the possibility of creating cost effective "reserve transmission capacity" that could ensure continuing grid operation during surges in demand and line failure. In many cases, use of ACCC also:

- Reduces the Capital Expenditure of Transmission or Distribution Operators
- The replacement of existing cable with ACCC brings more power to the same destination faster, cheaper and with more certainty than going through the new line design cycle which is usually costly, time consuming, and controversial

- In new construction, ACCC requires fewer support structures because it's safe; secure maximum span is greater than traditional cable
- Installation uses conventional methods and tools; no expensive refit to use the new technology
- Reduces the Operating Cost of Transmission or Distribution Operators
 - Lower line losses compared to same diameter conventional cables at same operating temperatures
 - Reduces corrosion concerns since there is no bi-metallic corrosion

For further information visit our website at: www.compositetechcorp.com or contact James Carswell, Director of Investor Relations at +1-760-416-8628.

This press release may contain forward-looking statements, as defined in the Securities Reform Act of 1995 (the "Reform Act"). The safe harbor for forward-looking statements provided to companies by the Reform Act does not apply to Composite Technology Corporation (Company). However, actual events or results may differ from the Company's expectations on a negative or positive basis and are subject to a number of known and unknown risks and uncertainties including, but not limited to, competition with larger companies, development of and demand for a new technology, risks associated with a startup company, risks associated with international transactions, general economic conditions, availability of funds for capital expenditure by customers, availability of timely financing, cash flow, timely delivery by suppliers, or the Company's ability to manage growth. Other risk factors attributable to the Company's business segment may affect the actual results achieved by the Company and are included in the Company's Annual Report filed with the Commissioner on Form 10KSB for fiscal year ended September 30, 2005.