JOHN ZINK
JOHN ZINK COMPANY LLC

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For Immediate Release

John Zink Company, LLC Selected to Participate in TCEQ Emissions Testing

TULSA, Okla., Oct. 6, 2003 – The Texas Commission on Environmental Quality (TCEQ) recently had an open-path Fourier Transport Infrared Spectroscopy (FTIR) measurement system tested at John Zink Company's industrial-scale flare test facility. The testing was performed to determine the open-path FTIR system's ability to monitor flare emissions and ultimately assess flare combustion efficiency.

"This testing is the first step in our research effort and will allow us to analyze the limits and capabilities of the open-path FTIR measurement method," said Karen Olson, senior technical specialist of TCEQ's technical analysis division. "By doing so, we can determine if this is a viable technique and worth pursuing with additional research dollars."

During the test of the FTIR measurement system, officials examined a simulated flue-gas plume with trace amounts of hydrocarbons, such as ethylene and propylene that were injected into heated air to reproduce flue gases from a combustion process. The trace gases were added in known quantities in order to calibrate the FTIR measurement and validate its accuracy. Samples were extracted from the plume and analyzed with a closed-path FTIR as part of the validation process. The open-path FTIR system was then used to examine the flue-gas plume from an actual flaring event.

The TCEQ testing was conducted in conjunction with the University of Houston, URS, John Zink Company, and Industrial Monitor and Control Corporation (IMACC).

"John Zink is uniquely qualified to assist companies and organizations such as the TCEQ in flare testing," said Dr. Roberto Ruiz, vice president of technology and commercial development at John Zink. "The flare testing capabilities at John Zink's International Research and Development Test Center enable us to perform tests at conditions typically encountered in the field, at industrial scale, and with the ability to control the test parameters as required by the test plan."

Zink's flare testing facility accommodates a wide range of fuels and flow rates, with sophisticated flow control and automated data acquisition systems and redundant safety systems.
A variety of flare designs can be tested for performance in smokeless capacity, purge rate required, blower horsepower or steam requirements for assisted flares, tip longevity, radiation, and noise.

John Zink Company, LLC is a leading provider of advanced combustion systems and breakthrough technologies worldwide, servicing a wide range of global markets. John Zink branded products include JZ® flares, process burners, duct burners, thermal oxidizers and vapor control systems; KALDAIR® flares; TODD® boiler burners; and GORDON-PIATT™ boiler burners. John Zink Company is a member of the Koch Chemical Technology Group, LLC. To learn more about John Zink, visit www.johnzink.com.

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