intelliSensor NEWS RELEASE

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FOR IMMEDIATE RELEASE

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IntelliSensor Successfully Harvests RF Energy to Power Sensor Nodes in Climate-controlled Penguin Habitat

(Irwin, PA)—XeC IntelliSensor (ISS) has successfully integrated the FireFly (FF) Wireless Power Platform™ (WPP) with intelligent wireless sensors to extend battery life during commercial use. The wireless sensor network was deployed in a climate-controlled penguin habitat at the Pittsburgh Zoo & PPG Aquarium to monitor air temperatures and provide difficult-to-acquire HVAC data. A critical concern was that the monitoring be non-disruptive to the habitat and thus led to a totally wireless implementation.

“Implementing the sensors in the field showed us that battery-life was an issue,” stated John Voytko, co-founder and president of ISS. “We needed some way to power them without wiring or constant battery changing. FireFly’s wireless power proved to be the answer.”

Dirk Kalp, Chief Technology Officer and ISS co-founder, added, “We worked in the penguin habitat, without disrupting the animal’s environs, to install the FireFly power transmitters with our wireless sensors. Battery life was extended indefinitely.”

The Intelligent Wireless Sensor Networks are based on the emerging technology of very small, battery-powered computers and radios married to sensors with wireless communication capability. The devices can gather operational data, such as temperature and vibration from process equipment or environmental locations, not possible before because of the cost of wiring and/or environment disruption.

FireFly’s Wireless Power Platform™ (WPP) consists of: (a) an RF (radio frequency) power transmitter (WPT), which transmits the energy to the mote, and (b) a wireless power supply (WPS) -- a highly efficient RF to DC converter -- which harvests the transmitted RF energy and transforms it into power for the mote’s batteries.

“It works. That is the bottom line,” offered Michael Pochan, an ISS co-founder and experienced software entrepreneur. “It gives hope to those early adopters who were frustrated by battery life. The problems would not have been uncovered in a lab test situation.”

XeC IntelliSensor (ISS) is a systems integrator of Intelligent Wireless Sensor Network technologies and a provider of application software for temperature monitoring, condition-based equipment maintenance and HVAC performance analysis. ISS’s primary industrial markets are petrochemical processing, energy production, and commercial construction and HVAC.

FOR MORE INFORMATION, go to www.sensormgmt.com and www.fireflypwr.com or contact John Voytko at 724-861-9953

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