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**Wireless Train Wheel Bearing Monitoring Powered by Perpetuum's Energy Harvester**

Austin, TX – February 10, 2011 – In a series of trials on trains in the United Kingdom, Perpetuum (www.perpetuum.com) has successfully demonstrated that their Vibration Energy Harvesters can provide energy to power sensors to monitor the condition of wheel bearings. The trial showed that vibration spectra could be correlated with faulty bearings and that this data could be transmitted wirelessly. In addition, the harvester was shown to be capable of generating 10s of mW of electrical energy which would be suitable for powering such a system.

This opens the way for a cost-effective product to monitor wheel bearing condition that can be installed in a few minutes, requires no external wiring and needs minimal maintenance since power is provided by the harvester.

Perpetuum believes that this capability can be extended from bearing monitoring to many other types of monitoring, including derailment, location, cargo condition and brakes which can be undertaken economically, and the results transmitted wirelessly down the train to the driver or stored for later download with warnings transmitted by GSM or Satcoms.

Following Perpetuum's success in powering bearing monitoring systems in the industrial field, this is a powerful demonstration of the capability of Energy Harvesting powered monitoring to deliver massive benefits in safety and operating costs in the rail industry at a low installed cost.

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About Perpetuum:

Perpetuum is a world-class, award-winning designer and manufacturer of high-power, scalable electromagnetic Vibration Energy Harvesters (VEH); a robust, lifelong, maintenance-free power source for Industrial Wireless Sensing and automation. Perpetuum represents the evolution of power for Wireless Sensing and Automation. For more information, please visit www.perpetuum.com or email info@perpetuum.com.