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FOR IMMEDIATE RELEASE

The Arch Conveyor Management System:

The foundation for all conveyor monitoring and system control

Paducah, KY (Feb. 2009) – In most industries, production begins with the product in a bulk form that must be moved by a conveyor. **Arch Environmental's Conveyor Management System (CMS)** protects not only the employees who work on or near the conveyor, but also the single most expensive item on the conveyor, the belt. The ultimate goal of the **CMS** is to provide the safest, most productive conveyor possible.

Arch Environmental Equipment's Conveyor Management System instantly detects abnormality on a conveyor and prevents major damage from being caused. This system monitors the belts throughout the entire process with a series of trip switches along the conveyor. These switches are both physically and electrically connected together by a pull cable with six internal conductors. When a fault that could result in personnel injury or belt damage is indicated, the belt is stopped immediately or an alarm is given, thus eliminating unnecessary downtime that would result in a greater problem if not detected.

The CMS also contains a pre-start warning to alert personnel when the conveyor is about to start. The alarm is heard along every part of the conveyor to provide ample warning to workers. This warning alarm can be made both audible and visual.

Damage to a belt can result in lost production time. To prevent this, the **CMS** has the ability to incorporate any of the following fault detectors into the system: troughing belt misalignment, return belt misalignment, belt tear, belt rip, block chute, belt underspeed/slip detector and other switches or equipment, based on a customer's specific needs. All of these detectors prevent and/or minimize damage to the belt.

In order to provide maximum conveyor protection, an interface is required between the management system and the operator. This idea is achieved through the Head End Control Unit (HECU). The HECU provides the operator with any fault condition via a liquid crystal display, thus allowing quick and accurate fault identification (including location) in order to correct the problem and keep the conveyor running. The HECU is also capable of transmitting fault information to the plant control system through nearly any communication protocol required.

The **Arch** controllers monitor and supervise the entire operation providing fault identification and operational status to the central control room. Within the central control room, Arch combines the information from all the field components and controllers to provide an overview of the entire operation. **Arch** provides a complete and concise picture of all plant operations, including the present status as well as the tracking of all alarm systems. With complete turnkey capabilities, Arch has the resources to take your job from planning to startup and commissioning.

All pieces within the system are tested prior to shipment to eliminate delays during start-up as well as unnecessary downtime in the future. By providing a system rather than pieces, **Arch** is

able to control the flow of material, correcting problems by stopping or diverting the belt and then restarting it sequentially. The **Arch Conveyor Management System** is unsurpassed by any system currently available to the market.

Arch Environmental Equipment, Inc., the Conveyor Efficiency Specialists, provides top of the line mechanical and electrical systems for all conveyor component needs. The mechanical product range includes belt cleaners, fogger systems, impact beds, sealing systems and many components. The electrical division encompasses belt scales, metal detectors, safety switches and belt protection devices.

Each step of **Arch's** in-house manufacturing begins with computer-aided design through final assembly and shipping. "Simply the best", **Arch Environmental Equipment, Inc** has been supplying the industry with mechanical and electrical conveyor efficiency products for over 25 years. For more information about **Arch Environmental** and their products please visit www.archenv.com or call 1-800-553-4567.

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