



Press Release

CiDRA Announces Breakthrough Technology for Hydrocyclone Classification and Grind Optimization

CiDRA's *CYCLONEtrac*SM is a novel complete turn-key solution capable of monitoring coarse particles and tracking particle size on individual hydrocyclone overflows

Wallingford, CT – February 24, 2014: CiDRA Minerals Processing Inc. announces the *CYCLONEtrac*SM Classification Optimization family of products, which are novel, complete turn-key systems that enable reliable optimization of classification at the individual hydrocyclone level. Both the *CYCLONEtrac* Oversized Monitoring system (OSM) and *CYCLONEtrac* Particle Size Tracking system (PST) provide reliable, real-time coarse particle monitoring and particle size tracking on individual hydrocyclones. These systems enable plant operators to reduce process upsets, improve closed circuit grind and classification, and maximize mineral recovery. The *CYCLONEtrac* systems are truly groundbreaking as they enable long-term sustainable continuous improvement strategies improving and maintaining plant recovery.

The *CYCLONEtrac* OSM system is based on a non-invasive clamp-on sensing ring designed for use in primary grinding. The system monitors the flow of coarse particles $\geq 6\text{mm}$ (pebbles) reporting to the overflow pipes of individual hydrocyclones, which indicates poor classification performance. The value of this technology lies in enabling operators, or automated control systems, to take immediate action to avoid prolonged periods of lower recovery through the early detection and isolation of pebble events.

The *CYCLONEtrac* PST system is based on a clamp-on design with a sensor that is in contact with the slurry that has been designed for primary grinding. The PST system tracks a key particle size parameter (e.g. P80, % +150 μm) of individual hydrocyclone overflow streams. This real-time feedback can be used to control a closed circuit grind process such that the desired particle size reports to the downstream flotation process, thus maximizing plant recovery. The

CYCLONEtrac PST system is the only system of its kind available today. The value of this technology lies in its ability to track the particle size of the entire overflow stream in real time, thereby enabling improved mineral recovery while maintaining or increasing plant throughput.

CYCLONEtrac systems have been designed to provide operators with actionable information that can be used to increase plant throughput, recovery, and equipment availability. CiDRA offers these systems as complete solutions so that operators can focus on bringing sustainable value to their enterprise.

CiDRA is a technology development company and solutions provider that develops new technologies and services for the minerals processing industry that bring a “step change” to the state of the art. The primary area of focus is in increasing throughput and recovery, maximizing process availability, and reducing maintenance costs.

Please visit CiDRA’s Booth #1731, at the SME Annual Meeting and Exhibit, to be held February 23-26, 2014 in Salt Lake City, Utah, USA www.smenet.org.

Additional information about CiDRA and the *CYCLONEtrac* system can be found at www.cidra.com.

CYCLONEtrac is a trademark of CiDRA.

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