Power plant coal ash: cost-effective transport and environmentally friendly disposal – with the GEA Circumix Dense Slurry System

Bochum (Germany), April 2, 2014 – With its Circumix Dense Slurry System (DSS), GEA Heat Exchangers offers a cost-effective and environmentally friendly procedure for management and disposal of power plant coal ash. Existing ash handling systems can be economically retrofitted with this technology and provide an efficient solution for new power plant projects as well. This well established and commercially available technology is internationally unique and has been designed for the disposal of various residues, including all ash resulting from the combustion of coal in power plants. In a process specifically designed for this purpose, combustion residues are mixed with water, which can be waste water, to produce slurry that enables simple transport by pipelines to a space-saving and environmentally friendly disposal site. The DSS satisfies relevant government regulations, and addresses and complies with upcoming US Environmental Protection Agency (EPA) regulations. Circumix not only eliminates fugitive dust, but also encapsulates and considerably reduces leachate rates – which in turn reduces the risk of soil or water pollution. In addition, Circumix offers financial benefits to the user with respect to operation and maintenance, and it reduces waste volume compared to other ash-disposal processes. The very low transport costs for DSS have been shown to offer superior economic benefits, especially for plants where waste volume is high and transport distances are long.

Pictures: depositing.jpg, Circumix_DSS-1.jpg und Circumix_DSS-2.jpg

The Circumix Dense Slurry System (DSS) from GEA Heat Exchangers operates cost-effectively and leads to space-saving disposal facilities that satisfy strict environmental protection stipulations.
Press Release

For more details, please consult:
ashhandling.gea-hx.com

Sales contact:
GEA EGI Contracting/Engineering Co. Ltd.
István Kovacsics
P.O. Box 192 – Budapest, H-1507,
Hungary
Phone +36 (0)1 225 6171
istvan.kovacsics@gea.com

Sales contact in the USA:
NAES Corporation
Dale Timmons
R.G.| Business Development Program Manager
1180 NW Maple Street Suite 200
Issaquah, WA 98027-8106
USA
Phone (direct) +1 425-961-4697
Phone (main) +1 425-961-4700
Fax +1 425-961-4646
www.naes.com

Press Relations and Public Affairs:
HX Holding GmbH
Nicole Hückels
Dorstener Str. 484 – 44809 Bochum
Germany
Tel.: +49 (0)234 980-2584
Nicole.Hueckels@gea.com
www.gea-hx.com

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About GEA Group

GEA Group Aktiengesellschaft – one of the largest systems suppliers for the food and beverage industry as well as for an extensive spectrum of process industries – achieved consolidated revenues in excess of EUR 5.7 billion in 2012. As an international technology group, the company focuses on process technology and components for sophisticated production processes throughout a range of end-user markets. GEA Group generates around 70 percent of its sales in long-term growth industries in the food and energy sectors. The group employed approximately 25,000 staff worldwide as of September 30, 2013. GEA Group is among the market and technology leaders in its business areas. It is listed on the German MDAX stock index (G1A, WKN 660 200). Further information is available on the Internet at: www.gea.com.

If you do not wish to receive any further information from HX Holding GmbH, please send us an e-mail to: press.hx@gea.com or phone us at +49-(0)234-980 2584.