Dry Jigging of Coal

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Abstract

There are a number of advantages to upgrading coal with dry jigging technology, most notably the lack of process water which eliminates the need for fines dewatering and slurry confinement. Dry jigging eliminates the product moisture penalty associated with wet processing of thermal coals. Particulate emissions are virtually nonexistent due to inclusions of fabric dust collectors on all modern dry jig plants. Due to the environmentally kind nature of dry jig plants, installation permits are often measured in days, not months. Coupled with this, there has been a fundamental advance in dry jigging efficiency and this is developing renewed coal industry interest in dry jigging (allmineral, 2005).

The first of the newer generation dry jigs was commissioned in 2002 in the USA and more than 70 followed in recent years.

This paper describes the advantages of the dry jig process. It also presents operating results from several dry coal beneficiation plants in the USA, India, Columbia, Spain and Turkey.