

Fly Ash Beneficiation at Baltimore Gas and Electric Brandon Shores Plant

John Jeffcoat¹, Al Vasiliauskas², J. Park Boyer³

¹Baltimore Gas and Electric Company, 1000 Brandon Shores Road, Baltimore MD 21226. Tel: 410-787-5580, Fax: 410-787-6463; ² Separation Technologies, Inc., 10 Kearney Road, Needham MA 02494 Tel: 781-455-6600, Fax 781-455-6518; ³Master Builders, Inc. 23700 Chagrin Boulevard, Cleveland OH 44122 Tel: 216-831-5500 Fax: 216-831-3470

KEYWORDS: Beneficiation, NOx

Baltimore Gas and Electric (BG&E) seeks uses for all coal combustion by-products from its generating stations. Following modification of the two generating units at the Brandon Shores station to comply with current NOx emission requirements, the carbon content of the fly ash produced by these units increased to unacceptable levels for use in concrete. After investigating available technologies for upgrading this fly ash to acceptable carbon levels, BG&E contracted Separation Technologies, Inc. (STI) to install and operate a fly ash beneficiation facility at the utility site and to market the product to the concrete industry. STI's exclusive marketing partner, Master Builders, Inc. will promote and sell the processed fly ash from this facility. Details of the construction and installation of the STI system and ancillary equipment, marketing approaches and operating history will be presented.