

Evaluation of fly ash form co-combustion of coal and Petroleum coke for use in Concrete.

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Abstrak

An investigation of fly ash (FA) produced from various blend of coal and petroleum coke (pet coke) fired at Belledune Generating Station New Brunswick , Canada, was conducted to establish its performance relative to FA derived from coal-only combustion and its compliance with CSA A3000. The FA samples were beneficiated by an electrostatic separation process to produce samples for testing with a range of loss-on-ignition (LOI) values. The results of these studies indicate that the combustion of pet coke results in very little inorganic residue (for example, typically less than 0,5% ash) and the main impact on FA resulting from the co-combustion of coal and up to 25% pet coke is an increase in the unburned carbon content and LOI Values. The testing of FA after benification indicates that FA produced from fuels with up to 25% pet coke performs as good as FA produced from the same coal without pet coke.