

Pavement Subgrade Stabilization and Construction Using Bed and Fly Ash

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ABSTRACT

Ash produced from the combustion of fuel mix has long been a major subject of solid waste disposal. An innovative method has been developed by the Jacksonville Electric Authority (JEA) to recycle both bed ash and fly ash from a circulating fluidized bed (CFB) boiler into a by-product construction material marketed under the brand name "EZ-BASE." This recycled product has been evaluated as a stabilizer for non-cohesive sands, which are typical of north Florida. The results of numerous low volume road stabilization examples in North Florida and South Georgia illustrate that EZ-BASE is effective in stabilizing soils for sub-base applications. It is also shown that EZ-BASE has great potential as an alternative base material by itself. This paper provides documentation of both laboratory and field results and highlights construction issues related to the use of EZ-BASE.

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