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Development of Ultrasonic Testing of Fabricated Support Trunnion Weld for Air Pre-Heater

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Abstract

Air Pre Heater is a heat recovery equipment used in thermal power plants. It has a rotor filled with heating elements having a weight of 250 Tons. The whole weight of the rotor is supported by the support trunnion. Previously the support trunnion was a heavy forging, involving huge foreign exchange and long lead time. To overcome these, fabrication of the part had been resorted to. Since the component carries a huge load the weldments are very critical and required stringent evaluation.

In the absence of international code/specification to meet this specific application requirements separate NDE procedures are required to be established to ensure specified examination sensitivity. This paper describes the application of ultrasonic testing method to establish the soundness of the weld.