

Meeting your steam requirements with CONTROLLED SUPERHEAT over WIDE LOAD RANGES

A METHOD of superheat control which successfully overcomes the disadvantages of methods such as damper by-pass, "desuperheating" by spraying water into steam, and others, has been developed and applied to Foster Wheeler steam generators.

The Foster Wheeler method operates by reducing the latent heat of the steam in the superheater inlet header. It differs from conventional desuperheating because no water is added to superheated steam. Simply, superheating becomes a controlled operation from inlet to outlet.

Boiler feedwater is diverted around the economizer and passed through tube bundles located in the superheater inlet header. This relatively cool feedwater condenses some of the entering cleaned and dried steam. The amount of moisture entering the superheater is regulated to provide positive and accurate control of final temperature. In addition to the wide range control possible when this device is used, superheated steam is not contaminated by water, and excessive metal stresses are avoided.

A reprint of an article describing in detail a specific application of Foster Wheeler condenser-type superheat control is available. Ask for B-46-20.

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