

WET SCRUBBING OF SULFUR OXIDES FROM FLUE GASES. James Jonakin and A. L. Plumley, C-E Combustion Division, Combustion Engineering Inc., Windsor, Connecticut.

Much research and development work has been directed toward reducing sulfur oxides emissions from steam generating units. The three methods of minimizing SOx emissions are using a low sulfur fuel, removing the sulfur from the fuel before combustion, and removing SOx from flue gases. Wet scrubbing of flue gases, which removes both SOx and particulates, has received the most attention because of low cost and simplicity. Combustion Engineering is offering two wet scrubbing systems: furnace injection and tail end.

This paper will describe these systems including discussions of laboratory and field studies and operating experience. The systems sold to date will be listed.

The chemical reactions that occur during operation of the system will be summarized. Also, the various by-product utilization schemes that are being investigated for recycling of the sludge from the wet scrubbing system will be outlined.