



Flue Gas Desulfurization —

Lime Slurry Duct Injection is an important new development at Chemical Lime and can assist you in achieving SO₂ removal with minimal capital investment.

Chemical Lime is one of the largest lime products manufacturers in North America with over 6,000,000 tons per year of quicklime manufacturing capacity. One important aspect of our business is the fact that we are North America's largest commercial lime slurry producer and retailer. **Lime Slurry Duct Injection (LSDI)** couples our expertise in lime slurry manufacturing and FGD applications with existing slurry atomizing technology to present a new approach for SO₂ removal at very low capital costs; **resulting in low \$/ton of SO₂ removed.**

The chemistry behind this SO₂ removal process is the conventional reaction of water-slurried calcium hydroxide reacting with gaseous SO₂ forming solid particles of calcium sulfite or sulfate (gypsum). Quite simply, unobstructed sections of flue gas duct work are injected with a controlled pattern and amount of atomized lime slurry. The latent heat of the flue gas evaporates the remaining slurry water and the dry reaction products are collected on baghouse filters or electrostatic precipitators.

Other acidic pollutants, such as HCl and HF, are amenable to this type of treatment. Chemical Lime is prepared to determine the applicability of this technology at your existing site. Our mobile equipment and field personnel for making, storing, and injecting the lime slurry can be made available for this on-site, short feasibility demonstration.

For assistance, please contact us at:



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