

TABLE A.3.1
Control Technologies for SO₂ Reduction

SYSTEM	PERFORMANCE	APPLICABILITY	UNCERTAINTY	WASTE DISPOSAL	PROBLEMS
Wet F.G.D. Limestone Lime	Acceptable Availability (90% or less)	All fuels	Cost is a function of size, sulfur content, location, redundancy of equipment, whether ash removal is included. ^a	Preferably oxidized to gypsum, otherwise settling problems in ponds and land- fill unless chemically fixed.	Waste disposal because of volumes. Utilities sceptical of costg and relia- bility. ^a
Dual Alkali	Acceptable Availability	All fuels		As above.	As above.
Wellman Lord	Limited experience so far.	All fuels	Uncertain market by-products.	Potential water pollution problem.	High cost.
Dry Scrubber	Limited experience so far.	Low sulfur fuels	Performance data sparse.	Lime systems have minimal problems, whereas soda-based units have potential water pollution problems.	Waste disposal involves large volumes, Opera- tional difficulties with variations in coal characteristics
Low-Sulphur Fuel		Coal	Incremental costs, availability of supplies.		Boiler derating, effects on precipi- tator, transporta- tion, logistics.
Physical Coal Cleaning	Effective up to 25% sulfur removal.	Used for high pyritic sul- fur coals.	Coal variability and expansion of existing facilities	Water pollution and solid waste disposal.	Energy losses, maintaining quality control.

^a This comment is equally applicable to all processes in this table.