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On the cover: New electrostatic precipitator (ESP) unit was constructed at a refinery in the western United States to replace an older fluid catalytic cracking unit (FCCU) electrostatic precipitator. To comply with federal, state, and local regulations, FCCU units routinely use ESPs for control of particulate matter. Courtesy of Southern Environmental, Inc., Pensacola, FL, 850-944-4475 (www.southernenvironmental.com).

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Dry injection of sodium sorbents (trona or sodium bicarbonate) has become a good option to control SO₂, SO₃, HCl, and HF because of its low capital cost, small installation footprint, ease of operation, and flexibility to adapt to fuel changes.

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