

7.21 FLUIDIZED-BED COMBUSTION MECHANISMS

Principal Investigator's Name:

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Cooperative agencies and investigators: (if applicable)

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Duration:

Start 1979 - Completion 1984

Approximate Cost: (indicate applicable yearly period)

1982 \$125K in contracts

Objectives:

To elucidate the mechanism in the in-situ sulfur capture during combustion, using additives to the coal feed and changes in combustion parameters.

Method:

- a) Trials with two coals including one with limestone.
(April 1982)
- b) Rig modifications. (July 1982)

Anticipated Results:

An in-depth study of the chemistry of sulfur capture and of SO₂ and NO_x emissions in fluidized-bed combustion.