

7.22 Pilot-Scale Fluidized Bed Combustion (FBC)

Principal Investigator's Name:

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Cooperative agencies and investigators: (if applicable)

Duration:

Start 1976 - Completion 1984

Approximate Cost: (indicate applicable yearly period)

1982 \$250K in-house, \$200K in contracts.

Objectives:

To develop and extrapolate fluidized-bed technology to burn low-grade Canadian coals and coal rejects in steam generating and process heat applications under acceptable environmental conditions.

Method:

- a) Preliminary tests with feasibility of temperature diagnostics. (October 1982)
- b) Characterisations of Canadian limestone as sulfur receptors. (March 1983)
- c) Second phase of coal-feeder development. (September 1983)
- d) Liaise with contracting parties under International Energy Agency agreement for FBC data exchange. (April 1984)

(N.B. All burn trials include monitoring of SO₂ and NO_x. The effect of limestone addition will be determined on high sulfur coals.)