

"Read Me" File for:

CO\$T-AIR Control Cost Spreadsheets

This set of twenty Lotus™ spreadsheets is intended to make the calculation of capital and annual costs for air pollution control devices much easier, more flexible, and more accurate than other methods can. Primarily based on design and cost procedures and data in the *OAQPS Control Cost Manual* (Fourth Edition, 1990, with supplements), the CO\$T-AIR spreadsheets form a link between the *Manual* and the VAPCCI indexes, in that they allow for the escalation of equipment costs. (The VAPCCI are documented in the EPA report *Escalation Indexes for Air Pollution Control Costs* (EPA-452/R-95-006, October 1995), which, along with the VAPCCI updates, is posted on the "Clean Air Act" and "Control Technology Center" bulletin boards on the OAQPS TTN.) The spreadsheets cover twelve control devices and one category of auxiliary equipment (ductwork). The control devices are:

* Particulate emission controls: electrostatic precipitators, fabric filters, mechanical collectors (cyclones), venturi scrubbers, and wet impingement scrubbers;

* Gaseous emission controls: carbon adsorbers, catalytic incinerators, gas absorbers, flares, refrigeration systems, regenerative thermal oxidizers, and thermal incinerators (recuperative).

Accompanying the spreadsheets is a text file ("CO\$T-AIR.wpf") that serves as an introduction. This file contains such information as the Lotus™ file names, the *Manual* chapters corresponding to the various control devices, a description of the elements common to every spreadsheet, and a discussion of special features that are unique to certain spreadsheets alone. An example of the latter is the iterative procedure used to calculate the saturation temperature of a waste gas stream after it has been quenched in a venturi or wet impingement scrubber.

This introductory file is in WordPerfect version 5.1 format. However, the spreadsheets are in Lotus™ (version 2.0), a format that is importable to later versions of Lotus™, as well as such programs as Excel™ and Quatro-Pro™.

For more information about the spreadsheets, contact: **William M. Vatavuk, ISEG/AQSSD/OAQPS, at (919)-541-5309.**