

Special design 'non-plug' stack silencer continues to perform.

PROBLEMS: Environmental conditions
Environmental noise
Unreliable ratings

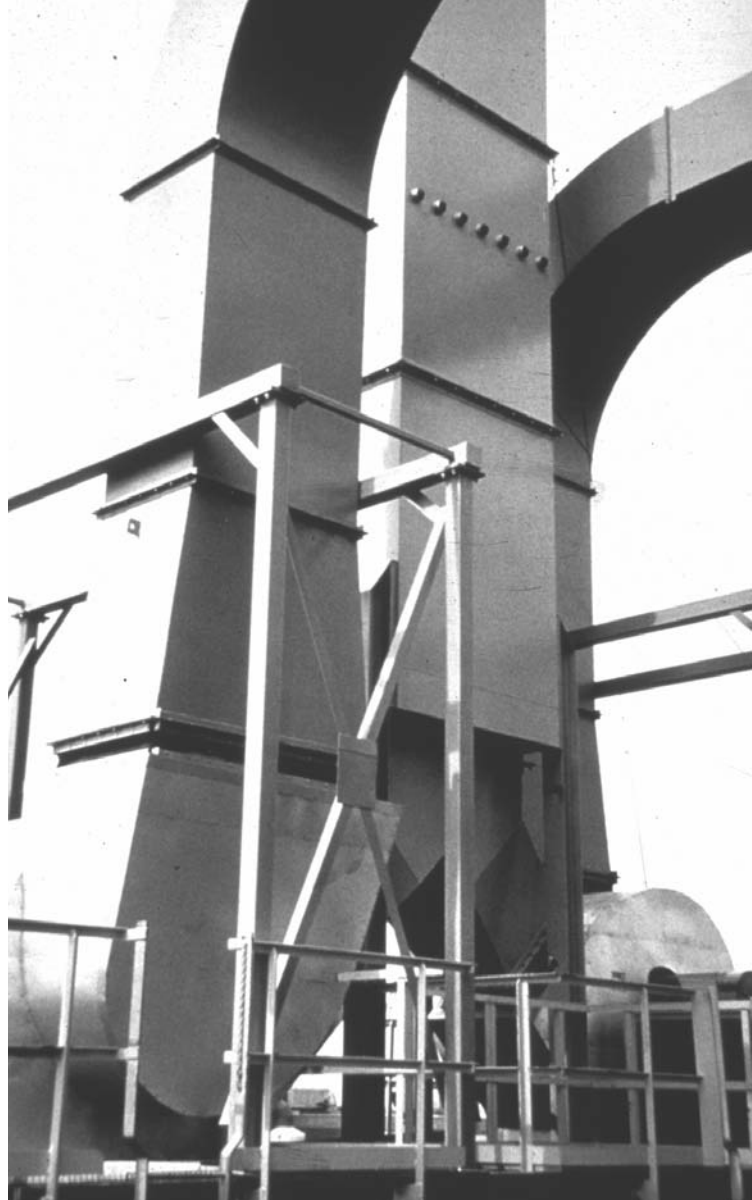
Noise radiating from the air stack outlet to the neighbourhood had to be reduced. Because of the particulate matter in the airstream, standard dissipative silencers could not be considered.

SOLUTIONS: Non-plug silencer and stack
Scale model test

A 'non-plug' silencer was designed and supplied to prevent the exhaust air particulate contaminant from plugging the silencer and degrading the acoustic performance. Access ports were included to test for contaminant concentrations during production.

To ensure the success of the design, a scale model of the silencer was tuned for peak performance at 250 Hz and tested in the Vibro-Acoustics laboratory.

The system was still performing well after three years.



Vibro-Acoustics designed and supplied a special silencer/exhaust stack package for the 90,000 CFM tile line dust collection system.