

A thermoplastics moulding company had an opportunity to tender for a battery of wet scrubbers required at a mining development to remove dust during transfer operations of exotic minerals. Typically dust scrubbers are fabricated from ferrous or GRP materials.

The company approached Covey to provide the process design for the required scrubbers having established in discussion that Covey Consulting had designed particulate scrubbers and gas absorbers for a wide range of industrial applications.

The scope of work required of Covey Consulting was to provide:

- Arrangement drawing for the scrubber assembly
- Basic scrubber performance information (min/max capacity [cu.m/hr], Pressure Drop [kPa], Max/Min Reagent Concentration [ppm], Max/Min particle size removed [mm])
- Duty information for pumps, fans and other equipment requiring sizing and recommendations on models and suppliers.
- Definition of any proprietary items (eg packing) which may be required.
- Process Guarantee
- (Process) technical support to fabricating company
- Supply of any proprietary items

The tender for this equipment was accepted and the scrubbers comfortably complied with all process guarantees. An important part of the design was the practical expertise that enabled Covey to anticipate operating issues that Client had not anticipated and ensure a trouble free start up of the equipment. Covey Consulting was also able to provide recommendations for pre-delivery testing and the operating expertise to permit satisfactory operation in a turndown operating situation.

Covey Consulting has specialty expertise in the design of process equipment and a demonstrated capability for flexibility to meet the needs of clients.

