The emissions from foundry core boxes are highly odorous and include particulate in the form of sand. A major automotive supplier producing aluminum engine castings solved their core box emissions problem using a Verantis fiberglass SPT-72-120 countercurrent scrubber with inlet drop-out box.

This particular application requires high efficiency removal of odorous triethylamine which is a byproduct of the agents used to bind the core box sand. A carbon steel drop-out box was provided to remove the large sand particles prior to the scrubber. The scrubber was designed to exhaust up to 3 three core machines at a maximum volume of 19,000 ACFM containing up to 500 ppmv of TEA. Designed with high efficiency Tellerette® Tower Packing, the unit is achieving greater than 99.5% amine removal using a recycle solution of dilute sulfuric acid.

Product Literature: (click on links to take you to the literature)

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