



Global Finishing Solutions

Project Profile: Bluegrass Station



Bluegrass Army Depot
Lexington, KY
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This facility in Kentucky is a high technology instrumentation and maintenance facility for helicopters run by L-3 Communications. They have a maintenance contracts with the US Army to service rotary wing aircraft. This includes the re-painting of aircraft. The installation recently completed start-up and began painting planes in August 2004.

L-3 started this project in August of 2003 as a fast track project, requiring that engineering begin almost immediately, followed by manufacture of the sheet metal and structural components. The booth was shipped in late spring of 2004 and was installed very soon thereafter. The need for repair and re-painting of aircraft returning from combat operations made the time schedule very important.

The booth is 40' wide x 90' long x 25' high and has state-of-the-art 3-stage NESHAP filters in a single filter wall at the rear of the booth (seen in the photo). Behind that wall of particulate filters is a wall of non-regenerative carbon filter cells to capture VOC from the painting operation. The booth is air conditioned with control of temperature and humidity. Exhaust recirculation of 80% recirculation and 30% exhaust is used to reduce energy consumption.

A VOC sensor that senses the concentration of VOCs in ppm and alarms if the concentration gets above a set limit continuously monitors the level of VOCs in the booth. The control panel uses a PLC controller to control all operations of the booth, including purge and cure cycle times and temperatures. Global also supplied fire suppression and fall protection on this project.

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