

L.O. COATING & COMPOSITE REPAIR FACILITY

These images show just a few of the advanced features of Pauli Systems L.O. Coating & Composite Repair Facilities. At the top are Makeup Air Units with full control of temperature and humidity in a punishing desert climate. At center left is Pauli Systems' full authority, password protected, digital graphic interface control unit in a Pauli Systems integrated motor control center. At center right is the working space between the Pauli Systems NESHAP 3-stage paint filtration system and the activated carbon VOC elimination filters. The bottom image is of the inside of one of our L.O. booths. The orange doors on the ceiling are part of the fire suppression system. The blue air inlet filters in the plenum main facility door ensure only dust free air enters the facility.



Integrated Surface Finishing Systems

1820 Walters Court
Fairfield, California 94533 USA
TEL (707) 429-2434
FAX (707) 429-2424
E-MAIL info@paulisystems.com
WEB www.paulisystems.com

©2009 Pauli Systems Inc. LOCCRF200903



Integrated Surface Finishing Systems

L.O. COATING & COMPOSITE REPAIR FACILITY

USAF Nellis Air Force Base



Pauli Systems aircraft paint hangar inserts enable maintenance technicians to enjoy state-of-the-art coating and repair facilities inside existing hangars. There is no need for demolition or new construction. Note the integrated structural framework, entirely independent of the hangar structure.

A typical system works in the following sequence:

- Operators begin by pressing the "Start" button in the touch screen control.
- The makeup air units begin the process of bringing the facility's working chamber temperature and humidity into specified value ranges. This is accomplished by heating, cooling, humidifying or dehumidifying, as dictated by internal hangar and local atmospheric conditions. Rain or shine, night or day, winter or summer prove no obstacle to accomplishing the mission in a Pauli Systems facility.
- The makeup air units deliver properly conditioned air via large ducts running along the shoulders of the facility. The air exits the ducts, is deflected downward into the four-foot thick plenum doors where it is filtered and distributed evenly through the booth.
- The air flows along the longitudinal axis of the aircraft and out the filter bank in the rear. The four filters are: EPA NESHAP (National Emissions Standards for Hazardous Air Pollutants—Aircraft/Aerospace) three-stage filters (blanket first stage, panel second stage, pocket third stage) plus activated carbon VOC (volatile organic compound) filters.

- The process air, now cleaned and prior to discharge into the atmosphere, passes through an energy recovery section to pre-heat or pre-cool incoming atmospheric air prior to conditioning in the makeup air units.
- There are several cycles available to operators including standby, coating, repair, cure and ventilate.

Pauli Systems aircraft paint booths include fully integrated motor control centers. No longer is it necessary to run outside to turn on air compressors and air dryers, then move to another area of the base to turn on breathing air systems, then yet another to... well, you get the idea. With Pauli Systems, everything can be in one time-saving location.

Pauli Systems can do it all, from structural and process design, through engineering, manufacturing, erection and Operator training. With us, there is one telephone number to call, without finger pointing at "the other guy."