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HANGAR RENOVATION DEMOLITION OF HANGAR DOORS COATED WITH LOOSE, FLAKING LEAD-BASED PAINT



History: The initial option available to the contractor and facility owner was to remove the LBP in a manner that prevents the release of lead-containing dust into the environment, followed by proper disposal of the debris as a hazardous waste. This option would have required removing nearly all of the LBP and was estimated to cost \$3.00 to \$5.00 per square foot.



Challenge: The hangar at Holman Field in St. Paul, MN was scheduled for a major renovation. The south side hangar doors (about 10,000 square feet) had Lead-Based Paint (LBP) that was in a very damaged condition. The Minnesota Pollution Control Agency has regulations governing a project like this, requiring the LBP to be "stabilized" before any demolition can occur, thereby reducing the potential for a release of lead-containing dust into the environment.

Solution: The solution chosen was to stabilize the damage, flaking LBP with the application of a proprietary material from SAFE Encasement Systems. SE-110 Penetrating-Stabilizer was spray applied directly over the damaged paint using an air-less sprayer and applying the material at 8-10 wet mils. The SE-110 penetrated the LBP coated surface, rendering it non-friable, and then dried forming a flexible matrix with a tack finish so any dust sticks to the coated surface. The SE-110 provided a "shrink-wrapping" effect, ideal for stabilizing this type of aging paint surface. As the SE-110 was applied, careful control of the spray pressure was used to insure that the force of spraying would not dislodge the damaged paint. With the hazardous lead now stabilized, demolition proceeded and the waste went to a demolition landfill. Utilizing this method saved over \$10,000.