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Safeguarding People  
while Saving Money<sup>SM</sup>.

## FLAKING PAINT ON TRUSSES IN NORTH DAKOTA YOUTH CORRECTIONAL CENTER

**Solution:** The solution chosen was the use of SAFE Encasement Systems proprietary coating system that requires minimal surface preparation. Only the really loose, flaking paint was removed prior to starting the encasement process. Then SE-110 Penetrating-Stabilizer (primer) was spray applied to achieve a wet film thickness of 16-18 mils (7-8 dry mils). The SE-110 penetrates the existing paint, re-adhering any remaining loose and flaking paint, and renders it non-friable. Not only is outstanding adhesion achieved on all surfaces, but also the penetration ability of the primer into difficult spaces between back-to-back angles allows the primer to stabilize the loose paint in those spaces. The primer is next over-coated with SE-120 topcoat, which is spray applied to produce a wet film thickness of 16-18 mils (dry film thickness 10-11 mils). In a case like this the "shrink-wrap" effect of this encasement system around the truss members provides additional assurance that the coating system will remain in place for many years. In situations such as this, the reduction in required surface preparation leads to substantial labor and time savings.



**Challenge:** The trusses in the gymnasium at the North Dakota Youth Correction Center in Mandan, ND were covered with extensive loose flaking paint, were to be repainted as part of a major renovation project. Although Lead-Based Paint (LBP) was not involved in this case, extensive surface preparation (removal) would have been required if a conventional paint had been used to re-paint these trusses.

