

Application Profile

Project: Xcel Energy®, Harrington Station, Amarillo, Texas
Savage® Energy Services, Harrington Facility Operation

Polyurea Applicator: Hunting Pipeline Services, Cincinnati, Ohio
Inspection / Project Monitoring by Primeaux Associates LLC

Polyurea System Applied: PolyArmor® 462-378 Aromatic Polyurea Spray Elastomer
Visuron Technologies, Inc, Bay City, MI

Substrate / Area: Metal Panel Walls, Asbestos Paint Encapsulation,
approximately 90,000 ft², three building areas

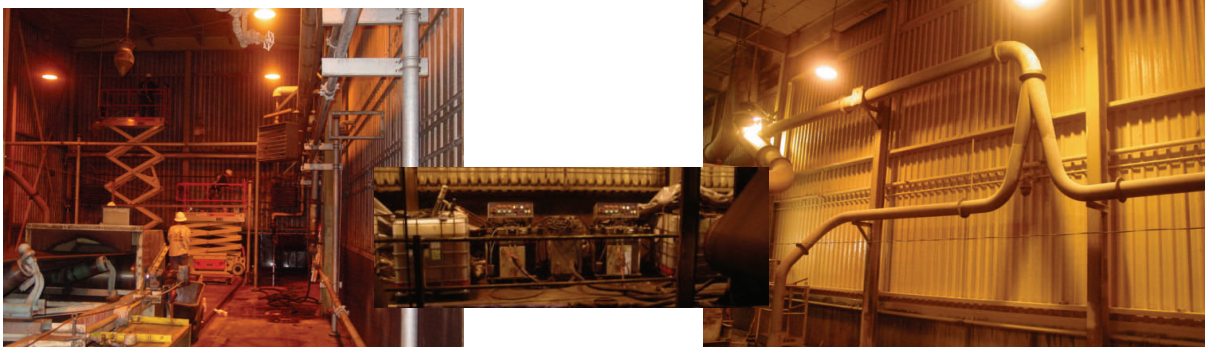
Date: October, 2006

At the Xcel Energy plant, the tripper deck area, where the coal is distributed to the crushers and on to the boiler, the interior metal wall sections were coated with asbestos paint. The paint, installed over 40 years ago, was beginning to crack and flake off. Complete removal of the paint would have required a major asbestos remediation and expense. Following a mock-up demonstration section, Savage Energy chose the use of the polyurea spray technology for encapsulation of the paint. The fast set time of the PolyArmor 462-378, coupled with the hard, smooth surface qualities, allowed for an encapsulation system with excellent bonding to the substrate and ease of subsequent cleaning off of the coal dust that collects on the walls, which presents a fire hazard.



Prior to installation of the PolyArmor 462-378, the painted wall areas were washed with an aqueous TSP (trisodium phosphate) solution (SSPC-SP 1) to remove any coal dust, dirt and any loose paint material. The wall areas were allowed to dry. The PolyArmor 462-378 was then applied at a nominal 100 mils (2.5 mm) to provide for encapsulation of the asbestos paint and resist the high temperatures some time obtained in the room area.

For application, two GRACO/GUSMER H-20/35 Pro units were used, with the PolyArmor 462-378 being supplied in totes to minimize drum handling / movement issues. For the general application areas, GRACO/ GUSMER GX-7 400, GRACO FUSION AP and GlasCraft Probler P2 guns were used. Detail areas around the pipes required the use of the PENTECH, Inc. low output Palm Gun. Application presented a challenge as the work was on the 11th floor of each building and all equipment, including spray units, material and lifts, had to be brought up via the “people” elevators.



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