



Daniel Latournerie  
Continuous Improvement Manger  
Textron Marine & Land Systems  
1010 Gause Blvd.  
Slidell, LA 70458

March 20, 2015

RE: Exhaust System for Paint Kitchen at Stone Road

Mr. Latournerie,

1. An investigation of the International Mechanical Code (IMC) 2012, Section 510 was performed for Hazardous Exhaust System(s).
2. The following items are noted in the IMC 2012 codebook:
  - a. Ducts used to convey hazardous exhaust shall be constructed of approved G90 galvanized sheet steel, with a minimum nominal thickness as specified in Table 510.8. (12" Round duct shall have a minimum nominal thickness of 0.034" (22 gauge)).
  - b. Duct joints shall be made tight with lap joints having a minimum lap of 1 inch (25 mm). Joints used in NSI/SMACNA Round Industrial Duct Construction Standards and ANSI/SMACNA Rectangular Industrial Duct Construction Standards are also acceptable.
  - c. Ducts shall have a clearance to combustibles of 1 inch.
  - d. The exhaust duct shall terminate not less than 10 feet from any fresh air intakes.
3. We recommend that you follow one of the following:
  - a. The 12 inch round duct system shall connect to the existing exhaust fan utilizing a flange and immediately turn 90° upwards through the roof terminating the duct with a weatherproof cap. All 90° should be sweeping turns rather than tight turns.
  - b. The 12 inch round duct system shall connect to the existing exhaust fan utilizing a flange and immediately turn 90° upwards. It shall then turn 90° back over the top of the Paint Kitchen and extend past the exhaust duct coming from the paint booth. The duct shall then turn 90° toward the exterior wall and penetrate the exterior wall. On the exterior of the building the duct shall turn 90° upwards and extend to an elevation above the roof line. Terminate the duct with a weatherproof cap. All 90° should be sweeping turns rather than tight turns.

Respectfully,

Brian A. Mistich, P.E.

