

Fairburn Fire Department

<p>Fire Marshal's Office</p>  <p>Plan Review</p>	<p>PAINT SPRAY BOOTHS – NFPA 33¹</p> <p>Job Name: _____</p> <p>Address: _____ Bldg: _____ Suite: _____</p> <p>City: _____ Zip: _____</p> <p>Responsible Party: _____ Phone: _____</p> <p>Email: _____</p> <p>GENERAL BUILDING INFORMATION:</p> <p>Area of Building: _____ Number of Stories _____</p> <p>Occupancy Type _____ Occupant Load _____</p> <p>Fire Sprinkler System Present Y <input type="checkbox"/> N <input type="checkbox"/> Fire Alarm System Present Y <input type="checkbox"/> N <input type="checkbox"/></p> <p>Fire Suppression System Present Y <input type="checkbox"/> N <input type="checkbox"/> Mixing Room Present Y <input type="checkbox"/> N <input type="checkbox"/></p>
<p>✓ = Pass, X = Fail, NA = Not applicable</p>	
<p>Status</p>	
GENERAL	
1) Correct Job name and address on drawings.	
2) Drawings must be scaled or indicate the dimensions.	
3) Key Plan: show location of proposed spray booth in relation to any adjacent structures.	
4) Show top view of the drawing and include the location of walls, windows and doors.	
5) Section/Elevation view, showing all required offset measurements inclusive of the exhaust, of new spray area.	
6) Scope of Operations letter on company letterhead provided.	
BOOTH CONSTRUCTION	
7) Walls, doors, and ceilings that intersect or enclose a spray area shall be constructed of noncombustible or limited-combustible materials or assemblies and shall be securely and rigidly mounted or fastened. [NFPA 33 5.1]	
8) Interior surfaces of the spray area are smooth, designed and installed to prevent pockets that can trap residues, and designed to facilitate ventilation and cleaning. [NFPA 33 5.1]	
9) Floor of the spray area shall be constructed of noncombustible material, limited-combustible material, or combustible material that is completely covered by noncombustible material. [NFPA 33 5.1.2]	
10) Enclosed spray booths shall be provided with means of egress that meet LSC. [NFPA 33 5.1.7]	
11) Spray booths shall be separated from other operations by a minimum distance of 3 ft or by a partition, wall, or floor/ceiling assembly having a minimum fire resistance rating of 1 hour. [NFPA 33 5.3]	
12) A spray booth may be closer than 3ft to an exterior wall or a roof assembly, provided they are constructed of noncombustible material and provided the spray booth can be maintained and cleaned. [NFPA 33 5.3.2 Exception 2]	
SPRAY ROOM CONSTRUCTION	
13) Spray rooms shall be constructed of and separated from surrounding areas of the building by construction assemblies that have a fire resistance rating of 1 hour. [NFPA 33 5.1.6]	
14) Spray rooms shall be provided with means of egress that meet LSC. [NFPA 33 5.1.7]	
BOOTH VENTILATION REQUIREMENTS	
15) The spray booth shall be installed such that the exhaust fans are continuously operating during spray operations and for a sufficient time after spraying has ceased to allow the vapors from drying coated objects or material and residues to be exhausted. [NFPA 33 7.2.3]	
16) The exhaust duct discharge point shall be at least 1830 mm (6 ft) from any exterior wall or roof. [NFPA 33 7.4]	
17) Individual spray booths shall be separately ducted to the building exterior. [NFPA 33 7.6]	
FLAMMABLE AND COMBUSTIBLE LIQUIDS	
18) The volume of Class I, Class II, and Class IIIA liquids stored in a storage cabinet shall not exceed 120 gal. [NFPA 33 8.2.1]	
19) Mixing rooms shall meet all of the following requirements: [NFPA 33 8.3.2]	
a. The area of the mixing room shall not exceed 150 ft ² .	
b. The mixing room shall be designed to contain a spill of the contents in the room	

c. The mixing room shall be provided with continuous mechanical ventilation capable of providing air movement of not less than 150 ft ³ per minute. The ventilation system shall be in operation at all times.	
d. The mixing room shall be provided with portable fire extinguisher(s) located in accordance with NFPA 10.	
e. Threshold detail provided to meet safety requirements of LSC.	
20) The amount of liquid in a single spray area shall not exceed 60 gal. [NFPA 33 8.3.3]	
PROTECTION	
21) Spray areas, which include by definition any associated exhaust plenums and exhaust ductwork, any particulate filters, any solvent concentrator units, any recirculation air supply units, and mixing rooms, shall be protected with an approved automatic fire protection system. [NFPA 33 9.1]	
22) Automatic fire protection system shall be permitted to be, and shall be installed in accordance with NFPA 13, NFPA 16, NFPA 12, NFPA 17, or NFPA 2001. [NFPA 33 9.1.1]	
23) The fire alarm and fire protection system shall be supervised in accordance with NFPA 72. [NFPA 33 9.1.3]	
24) Air make-up systems and spray area exhaust systems shall remain functioning during any fire alarm condition, unless the type of fire protection system requires ventilation to be discontinued. [NFPA 33 9.3]	
25) Automatic sprinkler system shall be designed for Extra Hazard (Group 2) occupancies. [NFPA 33 9.4.2]	
26) The water supply shall be sufficient to supply all sprinklers likely to open in any one fire incident without depleting the available water for use in hose streams. [NFPA 33 9.4.3]	
27) Water for the automatic sprinkler system shall be permitted to be supplied from domestic water systems, provided the domestic supply can meet the demand for Extra Hazard (Group 2). [NFPA 33 9.4.4]	
28) The sprinkler system shall be controlled by a separate, listed indicating valve(s), operable from floor level. [NFPA 33 9.4.5]	

¹ The above is not an all-inclusive list, all applicable fire and life safety provisions must be met.

Notes: _____

Reviewer: _____ Date: _____