

STANDARD INFORMATION

Standard Number: NFPA 33

Standard Name: Spray Application Using Flammable or Combustible Materials

Standard Edition and Issue Date: 2016 Edition Dated September 7, 2015

Date of Previous Revision of Standard: 2011 Edition Dated June 21, 2011

EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

Effective Date: **February 1, 2019**

IMPACT, OVERVIEW, AND ACTION REQUIRED

Impact Statement: A review of all Listing Reports is necessary to determine which products comply with new/revise requirements and which products will require re-evaluation. **NOTE:** Effective immediately, this revised standard will be exclusively used for evaluation of new products unless the Applicant requests in writing that current requirements be used along with their understanding that their listings will be withdrawn on Effective Date noted above, unless the product is found to comply with new/revise requirements.

Overview of Changes:

- Exhaust Ducts
- Particulate Scrubber
- Precipitator Scrubber
- High-Capacity Dry Paint Arrestor
- Powder Coating

If the applicable requirements noted in the table are not described in your report(s), these requirements will need to be confirmed as met and added to your report(s) such as markings, instructions, test results, etc. (as required).

Client Action Required:

Information – To assist our Engineer with review of your Listing Reports, please submit technical information in response to the new/revise paragraphs noted in the attached or explain why these new/revise requirements do not apply to your product (s).

Current Listings Not Active? – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records. We will do this at no charge as long as Intertek is notified in writing prior to the review of your reports.



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CLAUSE	VERDICT	COMMENT
		<i>New clause added;</i>
5.1.9.1		Spray application of finishing materials containing nitrocellulose shall be permitted in a dry-type spray booth provided that residue is removed from all baffle plates at least daily and all filters are changed at least daily.
		<i>Items 4, 5, and 8 were added;</i>
7.4		Routing of Exchange Ducts. Air exhausted from liquid spray operations shall be conducted by ducts directly to the outside of the building. Exhaust ducts shall follow the shortest route to the point of discharge and shall meet the following conditions. (4) Exhaust discharge point shall be at least 3048 mm (10 ft) from openings into the building. (5) Exhaust discharge point shall be at least 3048 m (10 ft) above adjoining grade. (8) Exhaust duct shall not discharge in the direction of any exit discharge or public way that is within 7625 m (25 ft) of the exhaust duct discharge point.
		<i>Item 6 was added;</i>
7.5		Recirculation of Exhaust. Air exhausted from spray areas shall not be recirculated unless all the following requirements are met: (6) For occupied spray areas where a portion of the exhaust air is recirculated within the spray area, toxicity and worker exposures shall be addressed.
		<i>New clause added;</i>
8.3.2		Where the quantities of liquids required or the floor area necessary to provide a suitable mixing room exceeds the limits specified in 8.3.3 through 8.3.6, the mixing room shall meet all applicable requirements of NFPA 30.
		<i>Additions to existing requirements are <u>underlined</u> below;</i>
9.4.6		Duct Protection. Sprinkler systems protecting stacks or ducts shall meet all of the following requirements: (1) One sprinkler shall be located at the top of each vertical riser and at the midpoint of each offset. Additional heads shall be spaced on 7.3 m (24 ft) centers if the rise is greater than 7.3 m (24 ft). (2) Horizontal exhaust ducts shall have sprinklers located on 3.7 m (12 ft) <u>centers beginning no more than 1.7 m (6 ft) from the duct entrance.</u>



9.9		<p><i>New requirements added for systems with Dry Particulate Scrubbers;</i></p> <p>Protection for Dry Particulate Scrubber.</p>
9.10		<p><i>New requirements added for systems with Electrostatic Precipitator Scrubbers;</i></p> <p>Protection for Electrostatic Precipitator Scrubber</p>
9.11		<p><i>New requirements added for systems with High-Capacity Dry Paint Arrestor;</i></p> <p>Protection for High-Capacity Dry Paint Arrestor</p>
15	Info	<p>Powder Coating</p> <p><i>The following is only applicable to power-coating applications.</i></p> <p><i>Additions to existing requirements are <u>underlined</u> below.</i></p>
15.8.1.1		<p>Where nondeposited, air-suspended powder (powder overspray) is conveyed by ductwork to a recovery system, sufficient airflow shall be provided in the ductwork to maintain the powder concentration in the ductwork at not more than 50 percent of the minimum explosive concentration (MEC) of the powder in use. <u>If the MEC of the powder has not been established, then the exhaust duct powder concentration shall be maintained below 15 g/m³ (0.015 oz/ft³).</u></p>
15.10	Info	<p>Operation and Maintenance</p> <p><i>New clause added;</i></p>
15.10.3		<p>The booth exhaust shall remain on during spray area cleaning and operations to confine airborne combustible dust.</p> <p><i>New clause added;</i></p>
15.14		<p>Hot Flocking. The temperature of the object or material being coated shall be maintained at least 28°C (50°F) below the autoignition temperature of the powder.</p> <p><i>New clause added;</i></p>
15.15		<p>Fluid Bed Coating. The temperature of the object or material being coated shall be maintained at least 28°C (50°F) below the autoignition temperature of the powder.</p> <p><i>New section added;</i></p>
15.16		<p>Powder Coating Delivery and Circulation.</p>
15.16.1		<p>All bins, hoppers, and fluid beds that are actively in use in the powder application process shall be grounded and shall comply with 15.7.3 and 15.13.4.</p>
15.16.2		<p>Bins, hoppers, and fluid beds shall be vented to prevent the accumulation of powder outside of the application process in accordance with 15.8.4.</p>
15.16.3		<p>The compressed air supply shall be interlocked with the ventilation system so that the equipment cannot be operated unless ventilation is in operation.</p>



15.17	<i>New section added;</i> Powder Unloading, Bag Dumping Stations, and Pneumatic Conveying Systems.
15.17.1	Powder unloading, bag dumping stations, and pneumatic conveying systems located in, connected to, or adjacent to the spray area shall be Class II, Division 2 as defined in 6.3.2.2 or Zone 22 as defined in 6.3.2.5.
15.17.2	All powder unloading, bag dumping stations, and pneumatic conveying systems shall comply with Section 6.5.
15.17.3	Housekeeping shall be maintained in accordance with 15.10.1 through 15.10.4.
15.18	<i>New section added;</i> Screening or Sieving Operations.
15.18.1	When a screening or sieving operation is an in-line, integral part of the powder application equipment, it shall meet the requirements of 15.13.3.
15.18.2	Ventilation for screening or sieving operations shall be designed to contain and prevent the accumulation of powder outside of the operation.
CUSTOMERS PLEASE NOTE: This Table and column "Verdict" can be used in determining how your current or future production is or will be in compliance with new/revised requirements.	