



**National Fire Protection Association**

1 Batterymarch Park, Quincy, MA 02169-7471  
Phone: 617-770-3000 • Fax: 617-770-0700 • www.nfpa.org

## **TECHNICAL COMMITTEE ON FINISHING PROCESSES**

### **AGENDA**

#### **First Draft Meeting**

**March 18-19, 2013 -- 8 AM – 5 PM EDT**

**Marriot Hotel, Charleston, SC**

*Note-Continental Breakfast served both mornings at 7:30 AM. Lunch will be provided on day one.*

1. Welcome-Committee Chair, Tom Euson.
2. Introduction of Attendees and Update of Committee Roster.
3. Approval of Minutes of Last Meeting/Conference Call--February 22, 2013. (attached)
4. Staff updates-Nancy Pearce
  - a) Committee membership update. (attached)
  - b) Fall 2014 revision cycle schedule.
  - c) New Process Presentation-Nancy Pearce NFPA Staff.
5. Review of Public Inputs NFPA 33 (79 PIs) and NFPA 34 (35 PIs)
6. Additional First Revision Considerations for Committee.
  - a) Chapter reviews with recommendations
  - b) New and Revised drawings (attached)
  - c) Additional items
  - d) Staff reviewed items
7. New Business.
8. Scheduling Second Draft Meeting.
9. Adjournment.



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## **TECHNICAL COMMITTEE ON FINISHING PROCESSES**

### **Minutes Pre-FD Conference Call/ Meeting February 22, 2013 2:00-3:30 PM EDT**

**Attendees:**

Tom Euson, Chair  
Geoff Raifsnider, Secretary

Shane Adams  
William Anderson  
Donald Ankele  
Robert Feldkamp  
Rob Friberg  
James Gustin  
Steven Jensen  
Martin Korecky  
John McKnight  
Douglas Rivord  
Mark Bowman  
Thomas George  
David Schutt

Nancy Pearce, NFPA Staff Liaison

**Guests:**

Jim Parks, Lauderdale Marine

1. Welcome-Committee Chair, Tom Euson welcomed committee members.
2. Introductions-New committee member David Schutt, alternate for Steven Jensen, introduced himself and was welcomed to the committee.
3. Minutes of Last Meeting October 17, 2012 Greenville, SC were approved by the Committee.
4. Reports from Task Groups and Individuals

**NFPA 33**

- 1) Inside Membrane Enclosures TG-Barry Thomas, Chair. Barry could not join the call but asked Nancy to update the committee on the status. A fire test on the membrane enclosure material was done last week at Lauderdale marine. The task group has met several times and is waiting for the video of the fire test to be completed and the draft inside membrane enclosures chapter from Greg Cahanin to be completed this coming week. At that point the TG will meet and work to develop a recommendation to be provided to the entire Committee for the March meeting in Charleston. Jim Parks added that they felt the fire test had gone well.

- 2) Combustible Dust TG-Marty Korecky, Chair. Marty said that the TG had looked at Chapter 15 and determined that it required a significant rewrite. The TG has decided to meet several times in person in the next few weeks prior to the full committee meeting to rewrite Chapter 15. Guy Colonna, (NFPA Division manager and a combustible dust expert), will be joining the TG meeting on Sunday in Charleston prior to the committee meeting to provide technical expertise. Marty welcomed others to join the meeting scheduled from ~3-6 Sunday March 17<sup>th</sup>.
- 3) Life Safety Egress Issue-Geoff Raifsnider. Geoff indicated that he had submitted a PI #40 and would bring a response to PI 29, 30 to the committee for review.
- 4) Recirculation Issue-Geoff Raifsnider submitted PI 41-44 and will bring proposed response to PI 27 and 28 to the committee for review.
- 5) Sprinkler Task Group-Bill Anderson, Chair. A first draft will be ready for the meeting. Bill's group will also bring response to PI 19-23 to the committee for review. In addition Tom Euson asked the group to look at two other issues. 1) Difference in 12 foot spacing for sprinklers in horizontal versus vertical ducts. 2) Water supply requirements under 9.4.6.
- 6) Water Wash Booths for Nitrocellulose Lacquers-Geoff Raifsnider submitted PI 58.
- 7) New Technology Task Group-Geoff Raifsnider, Chair submitted PI 79. Also need to look at other new technology involving electrostatic precipitators to collect overspray.
- 8) Fire Wall and Fire Rated Wall Issue-James Gustin will have Chapter 4 recommendations completed for meeting.

#### NFPA 34

- 1) Building Code-James Gustin will have recommendations completed for meeting.
  - 2) Recirculation Issue-Geoff Raifsnider submitted PI 21 and will have response for PI 12 for committee to review at meeting.
  - 3) Exhaust Duct Issue (NFPA 91)-Tom Euson. Tom will review and have recommendation ready for meeting.
  - 4) Carbon Dioxide Extinguishing Systems-Tom Euson. Tom will review and have recommendation ready for meeting.
  - 5) Waste Containers-Barry Thomas and Amy Brown. Public Inputs have been submitted.
  - 6) Sprinklers, Dipping, Coating-Tom Euson Tom will review and have recommendation ready for meeting.
5. Drawings for NFPA 33/34. Nancy indicated that a number of the diagrams had been redone to improve clarity and to be consistent with drawings in other NFPA standards. These diagrams will need committee approval. In addition, there are other diagrams in the two standards that may need to be reworked. A task group that includes Marty Korecky, Bob Feldkamp, Geoff Raifsnider, John Bloomgren, Steven Jenson agreed to look at the diagrams and have recommendations ready for the committee meeting in March.
  6. Chapter Review Reports. All chapter reviews have either been completed and have public inputs submitted already, or will be ready for the full Committee meeting. Nancy explained that all chapters should be reviewed to eliminate exceptions and to check for vague and unenforceable language. An email was sent to the committee explaining and giving examples of both unenforceable language and how to rewrite exceptions.
  7. Agenda Review for March meeting. Agenda will be sent out in next week. It will include all PIs for review.
  8. Adjournment. Meeting was adjourned at 3:40 PM.

# Address List No Phone

02/26/2013  
Nancy Pearce  
**FAA-AAA**

## Finishing Processes

<b>Thomas G. Euson</b> <b>Chair</b> 3S Incorporated 8686 Southwest Parkway Harrison, IN 45030 <b>Alternate: Matthew M. Euson</b>	<b>IM 1/1/1988</b> <b>FAA-AAA</b>	<b>Geoffrey A. Raifsnider</b> <b>Secretary</b> Global Finishing Solutions 12731 Norway Road Osseo, WI 54758 <b>Alternate: John S. Vonasek</b>	<b>M 8/5/2009</b> <b>FAA-AAA</b>
<b>Shane A. Adams</b> <b>Principal</b> Rancho Cucamonga Fire Protection District 10500 Civic Center Drive Rancho Cucamonga, CA 91730	<b>E 08/09/2012</b> <b>FAA-AAA</b>	<b>William C. Anderson</b> <b>Principal</b> Approved Fire Protection Company, Inc. 2513 North Burdick Street Kalamazoo, MI 49007 <b>National Association of Fire Equipment Distributors</b>	<b>IM 7/20/2000</b> <b>FAA-AAA</b>
<b>Donald W. Ankele</b> <b>Principal</b> UL LLC 333 Pfingsten Road Northbrook, IL 60062-2096 <b>Alternate: Michael A. Slowinske</b>	<b>RT 1/14/2005</b> <b>FAA-AAA</b>	<b>Robert G Arrighetti, Jr.</b> <b>Principal</b> Broward Sheriff's Office Fire Marshal Bureau 2601 West Broward Boulevard Fort Lauderdale, FL 33312	<b>E 08/09/2012</b> <b>FAA-AAA</b>
<b>John D. Bloomgren</b> <b>Principal</b> Infinity Precision, LLC 7850 Park Drive Chanhassen, MN 55317	<b>M 4/1/1993</b> <b>FAA-AAA</b>	<b>Amy Brown</b> <b>Principal</b> FM Global 1151 Boston-Providence Turnpike PO Box 9102 Norwood, MA 02062-9102 <b>Alternate: John A. LeBlanc</b>	<b>I 8/5/2009</b> <b>FAA-AAA</b>
<b>Larry B. Cox</b> <b>Principal</b> Structurlite Composites Consultants 122 Wilshire Drive Hebron, OH 43025	<b>SE 11/2/2006</b> <b>FAA-AAA</b>	<b>Dean Doherty</b> <b>Principal</b> General Motors North America 30300 Mount Road, Mailcode 480-109-161 PO Box 9040 Warren, MI 48090 <b>NFPA Industrial Fire Protection Section</b>	<b>U 1/16/2003</b> <b>FAA-AAA</b>
<b>Robert J. Feldkamp</b> <b>Principal</b> Nordson Corporation 300 Nordson Drive Amherst, OH 44001 <b>Alternate: Edward L. Jones</b>	<b>M 7/24/1997</b> <b>FAA-AAA</b>	<b>Rob J. Friberg</b> <b>Principal</b> Liberty Mutual Property 5911 Decker Street Schofield, WI 54476 <b>Property Casualty Insurers Association of America</b> <b>Alternate: Andrew Anshell</b>	<b>I 4/5/2001</b> <b>FAA-AAA</b>

# Address List No Phone

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Nancy Pearce  
**FAA-AAA**

## Finishing Processes

<b>Paul B. Gentry</b> <b>Principal</b> Zurich Services Corporation Risk Engineering 1047 Waldron Road La Vergne, TN 37086 <b>Alternate: James W. Taylor</b>	<b>I 10/4/2001</b> <b>FAA-AAA</b>	<b>John Gokey</b> <b>Principal</b> Tyco Fire Suppression & Building Products One Stanton Street Marinette, WI 54143 <b>Alternate: Jeffrey A. Breighner</b>	<b>M 7/1/1993</b> <b>FAA-AAA</b>
<b>Steven J. Gunsel</b> <b>Principal</b> SGTechnologies, LLC 944 Southport Drive Medina, OH 44256-3018	<b>SE 1/1/1992</b> <b>FAA-AAA</b>	<b>James S. Gustin</b> <b>Principal</b> Travelers Companies, Inc. Risk Control PO Box 473500 Charlotte, NC 28247-3500	<b>I 3/1/2011</b> <b>FAA-AAA</b>
<b>Brian K. Haynack</b> <b>Principal</b> Sherwin-Williams Company 101 Prospect Ave. NW, Midland Bldg. 400 Cleveland, OH 44115 <b>American Industrial Hygiene Association</b>	<b>M 7/26/2007</b> <b>FAA-AAA</b>	<b>Steven D. Jensen</b> <b>Principal</b> 3M Company 915 Adams Street, SE Hutchinson, MN 55350-9431 <b>Alternate: David J. Schutt</b>	<b>U 4/1/1995</b> <b>FAA-AAA</b>
<b>Guy L. Jones, Jr.</b> <b>Principal</b> Amerex Corporation 7595 Gadsden Highway PO Box 81 Trussville, AL 35173-0081 <b>Fire Equipment Manufacturers' Association</b> <b>Alternate: William Vegso</b>	<b>M 03/05/2012</b> <b>FAA-AAA</b>	<b>Martin J. Korecky</b> <b>Principal</b> AkzoNobel Powder Coatings 150 Columbia Street Reading, PA 19601	<b>M 3/15/2007</b> <b>FAA-AAA</b>
<b>John C. Larson</b> <b>Principal</b> The DuPont Company, Inc. Experimental Station E308/225 PO Box 80308 Wilmington, DE 19880-0308 <b>Alternate: John R. Moore</b>	<b>M 7/17/1998</b> <b>FAA-AAA</b>	<b>Dennis P. Mason</b> <b>Principal</b> AEGIS Insurance Services Loss Control Division 4797 Jackson Street Trenton, MI 48183 <b>Alternate: Thomas B. George</b>	<b>I 7/17/1998</b> <b>FAA-AAA</b>
<b>John McKnight</b> <b>Principal</b> National Marine Manufacturers Association 444 North Capitol Street NW, Suite 645 Washington, DC 20001 <b>Society of the Plastics Industry, Inc.</b>	<b>U 4/1/1996</b> <b>FAA-AAA</b>	<b>Lowell Miles</b> <b>Principal</b> Miles Fiberglass & Composites 8855 SE Otty Road Portland, OR 97266 <b>American Composites Manufacturers Association</b>	<b>U 1/1/1986</b> <b>FAA-AAA</b>

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Nancy Pearce  
FAA-AAA

## Finishing Processes

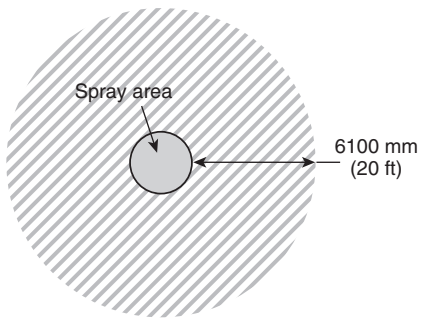
<b>G. Randall Nance</b>	<b>IM</b> 1/1/1990	<b>Douglas A. Rivord</b>	<b>M</b> 1/18/2001
<b>Principal</b> Automated Fire Systems, Inc. PO Box 23545 Charlotte, NC 28227	<b>FAA-AAA</b>	<b>Principal</b> Graco, Inc. PO Box 1441 Minneapolis, MN 55440 <b>Alternate: Angela Redlund Spieker</b>	<b>FAA-AAA</b>
<b>Don Scarbrough</b>	<b>SE</b> 1/1/1972	<b>Barry Thomas</b>	<b>M</b> 1/1/1996
<b>Principal</b> 550 Randall Road Elyria, OH 44035	<b>FAA-AAA</b>	<b>Principal</b> BECCA Inc. 2010 Cobb International Blvd. Kennesaw, GA 30152	<b>FAA-AAA</b>
<b>Mark A. Bowman</b>	<b>I</b> 10/28/2008	<b>Andrew Anschell</b>	<b>I</b> 8/9/2011
<b>Voting Alternate</b> XL Global Asset Protection Services 13467 Chevington Drive Pickerington, OH 43147 <b>Voting Alt. to XLGAPS rep.</b>	<b>FAA-AAA</b>	<b>Alternate</b> Liberty Mutual Insurance 1548 NE 170th Street Shoreline, WA 98155-6019 <b>Property Casualty Insurers Association of America</b> <b>Principal: Rob J. Friberg</b>	<b>FAA-AAA</b>
<b>Jeffrey A. Breighner</b>	<b>M</b> 8/5/2009	<b>Matthew M. Euson</b>	<b>IM</b> 10/28/2008
<b>Alternate</b> Tyco/SimplexGrinnell 9585 Snowden River Parkway Columbia, MD 21046 <b>Principal: John Gokey</b>	<b>FAA-AAA</b>	<b>Alternate</b> 3S Incorporated 8686 Southwest Parkway Harrison, IN 45030 <b>Principal: Thomas G. Euson</b>	<b>FAA-AAA</b>
<b>Thomas B. George</b>	<b>I</b> 1/15/2004	<b>Edward L. Jones</b>	<b>M</b> 7/26/2007
<b>Alternate</b> Tokio Marine Management, Inc. 800 East Colorado Boulevard Pasadena, CA 91101 <b>Principal: Dennis P. Mason</b>	<b>FAA-AAA</b>	<b>Alternate</b> Nordson Corporation 300 Nordson Drive, M/S 44 Amherst, OH 44001 <b>Principal: Robert J. Feldkamp</b>	<b>FAA-AAA</b>
<b>John A. LeBlanc</b>	<b>I</b> 8/5/2009	<b>John R. Moore</b>	<b>M</b> 10/4/2007
<b>Alternate</b> FM Global 1151 Boston-Providence Turnpike PO Box 9102 Norwood, MA 02062-9102 <b>Principal: Amy Brown</b>	<b>FAA-AAA</b>	<b>Alternate</b> E. I. DuPont Company Experimental Station E308/205 PO Box 80308 Wilmington, DE 19880-0308 <b>Principal: John C. Larson</b>	<b>FAA-AAA</b>
<b>David J. Schutt</b>	<b>U</b> 8/9/2011	<b>Michael A. Slowinske</b>	<b>RT</b> 7/22/1999
<b>Alternate</b> 3M Company Design and Engineering Solutions 3M Center, Building 275-06W-25 St. Paul, MN 55144-1000 <b>Principal: Steven D. Jensen</b>	<b>FAA-AAA</b>	<b>Alternate</b> UL LLC 333 Pfingsten Road Northbrook, IL 60062-2096 <b>Principal: Donald W. Ankele</b>	<b>FAA-AAA</b>

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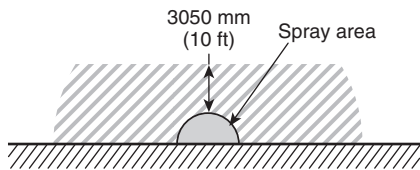
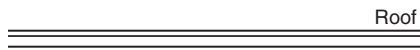
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

<b>Angela Redlund Spieker</b>	<b>M 8/5/2009</b>	<b>James W. Taylor</b>	<b>I 3/4/2009</b>
<b>Alternate</b> Graco, Inc. 88 11th Avenue NE Minneapolis, MN 55413 <b>Principal: Douglas A. Rivord</b>	<b>FAA-AAA</b>	<b>Alternate</b> Zurich Services Corporation 545 Saddle Lane Cookeville, TN 38501 <b>Principal: Paul B. Gentry</b>	<b>FAA-AAA</b>
<b>William Vegso</b>	<b>M 3/15/2007</b>	<b>John S. Vonasek</b>	<b>M 10/29/2012</b>
<b>Alternate</b> Buckeye Fire Equipment Company 110 Kings Road Kings Mountain, NC 28086 <b>Fire Equipment Manufacturers' Association</b> <b>Principal: Guy L. Jones, Jr.</b>	<b>FAA-AAA</b>	<b>Alternate</b> Global Finishing Solutions 12731 Norway Road Osseo, WI 54758 <b>Principal: Geoffrey A. Raifsnider</b>	<b>FAA-AAA</b>
<b>Matthew I. Chibbaro</b>	<b>E 4/15/2004</b>	<b>William R. Hamilton</b>	<b>E 3/4/2009</b>
<b>Nonvoting Member</b> US Department of Labor Occupational Safety & Health Administration 200 Constitution Ave. NW, Room N3609 Washington, DC 20210 <b>Alternate: William R. Hamilton</b>	<b>FAA-AAA</b>	<b>Alt. to Nonvoting Member</b> US Department of Labor Occupational Safety & Health Administration 200 Constitution Ave. NW, Room N3609 Washington, DC 20210 <b>Principal: Matthew I. Chibbaro</b>	<b>FAA-AAA</b>
<b>Nancy Pearce</b>	<b>1/11/2012</b>		
<b>Staff Liaison</b> National Fire Protection Association 1 Batterymarch Park Quincy, MA 02169-7471	<b>FAA-AAA</b>		



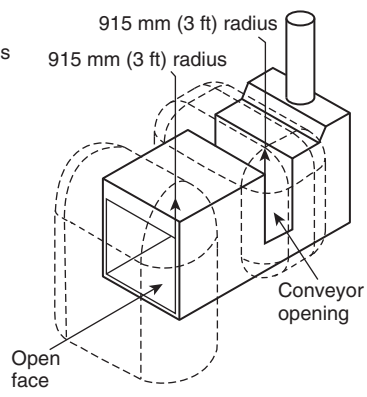
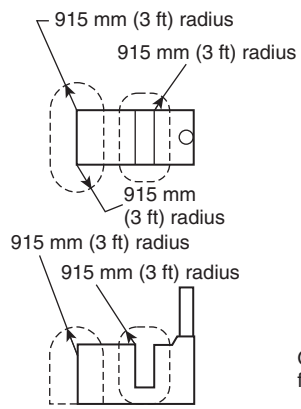
**TOP (PLAN)**

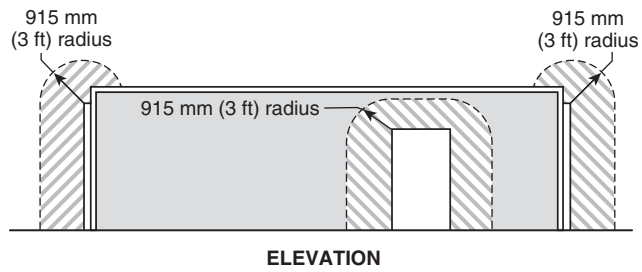
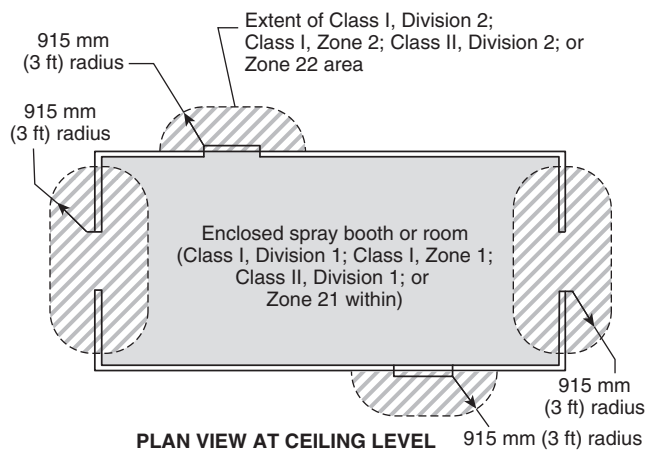


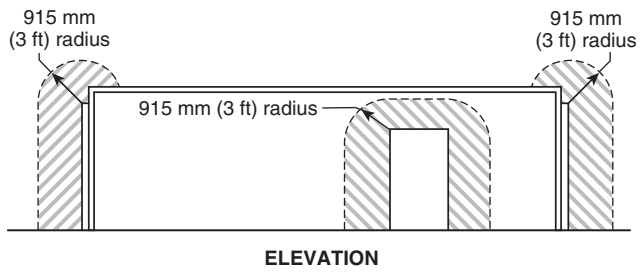
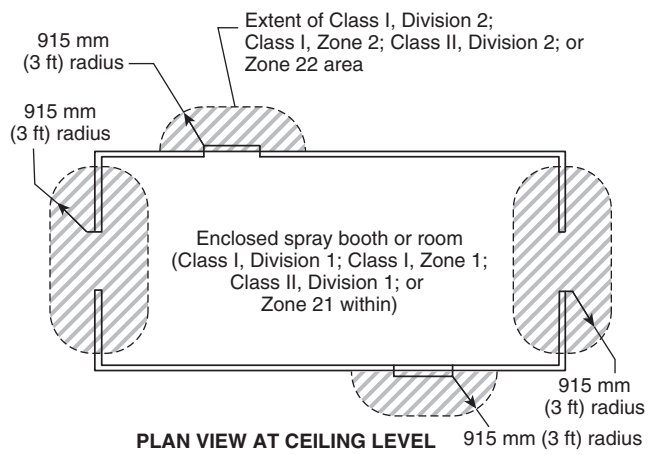
**FRONT (ELEVATION)**

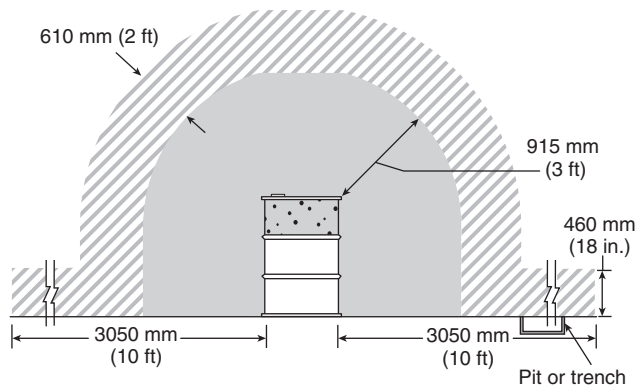
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|---|---|
|  | Class I, Division 1; Class I, Zone 1;<br>Class II, Division 1; or Zone 21 |
|  | Class I, Division 2; Class I, Zone 2;<br>Class II, Division 2; or Zone 22 |






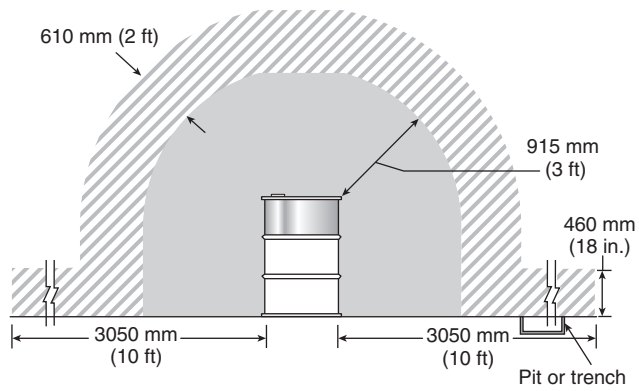







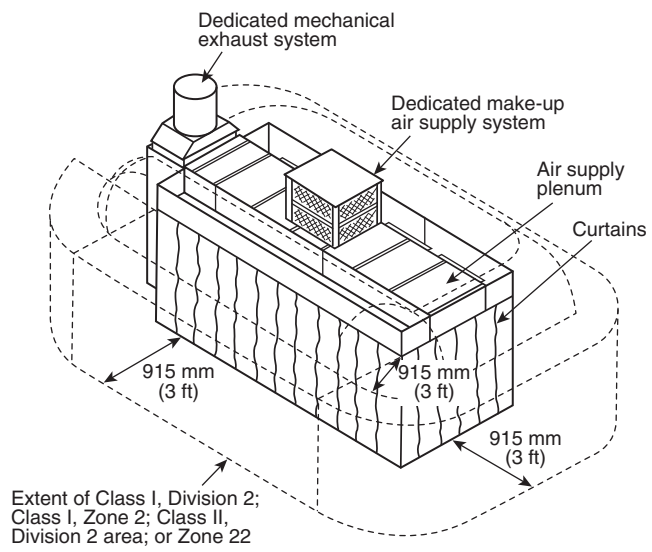


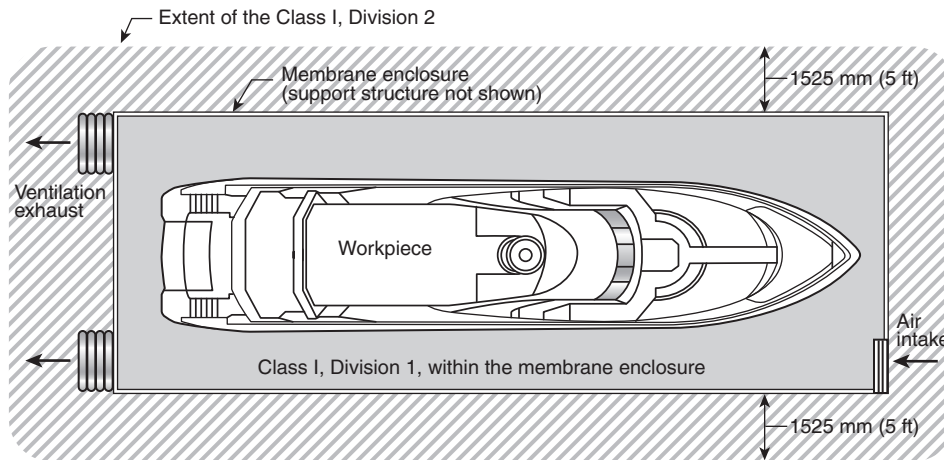


-  Class I, Division 1 or Zone 0  
(e.g., vapor space in container)
-  Class I, Division 1 or Zone 1
-  Class I, Division 2 or Zone 2

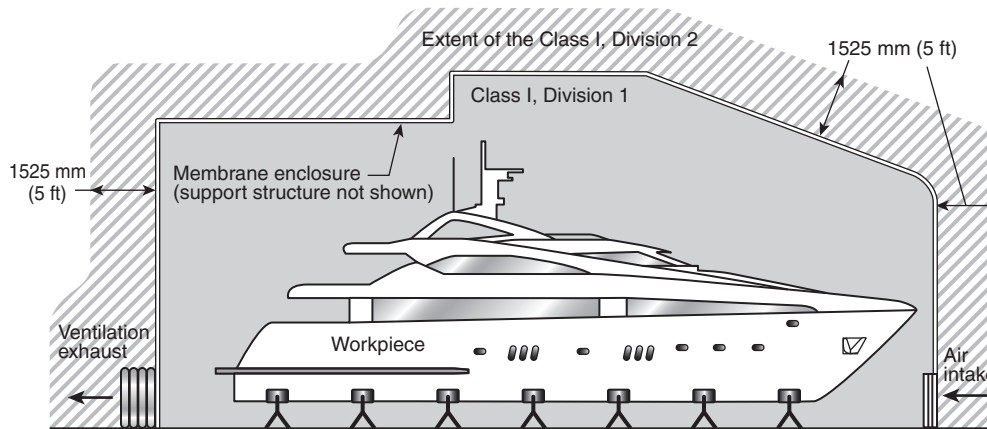


-  Class I, Division 1 or Zone 0  
(e.g., vapor space in container)
-  Class I, Division 1 or Zone 1
-  Class I, Division 2 or Zone 2

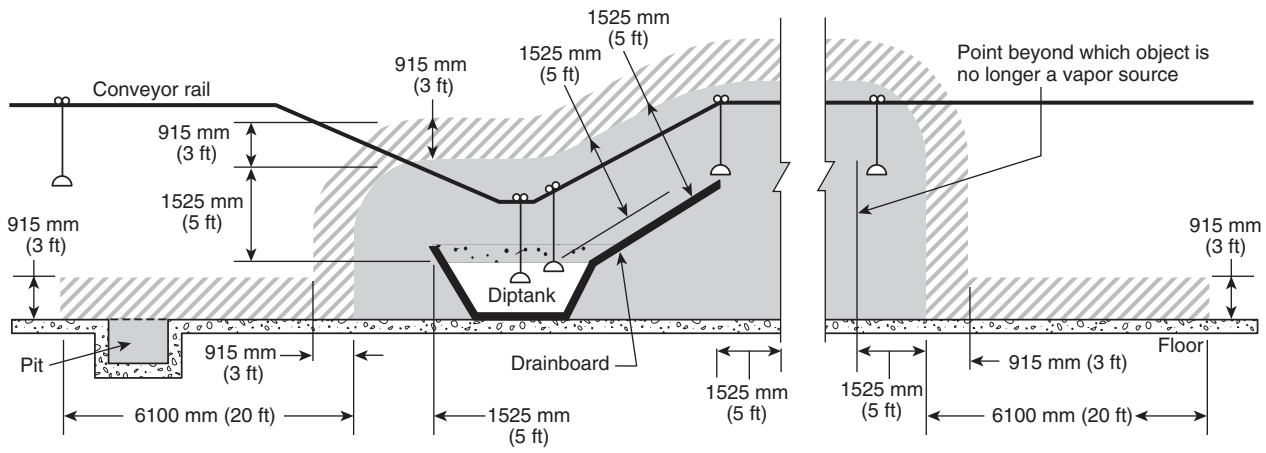







PLAN VIEW

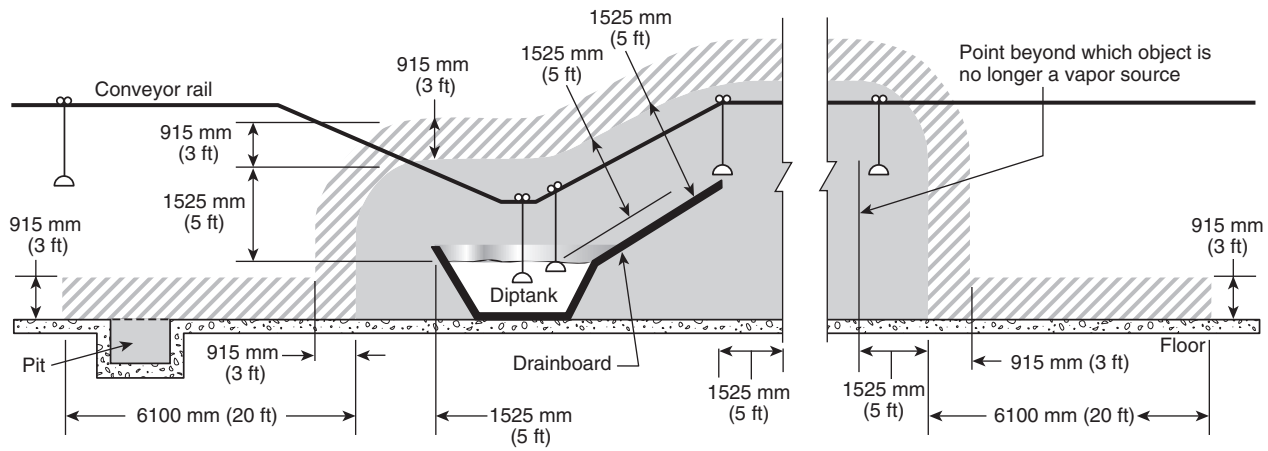





ELEVATION

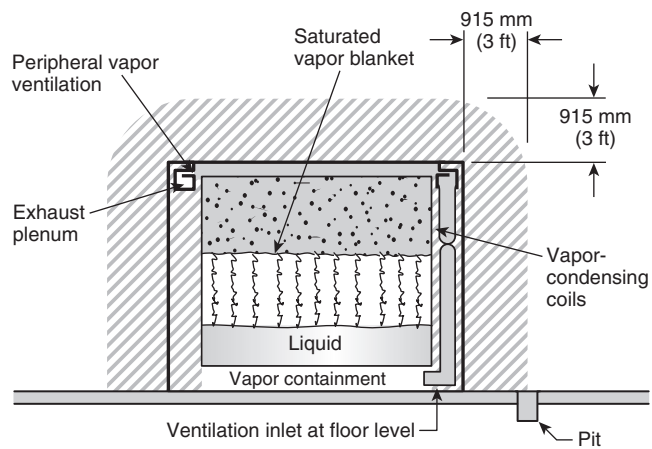





-  Class I, Division 1 or Zone 0
-  Class I, Division 1 or Zone 1
-  Class I, Division 2 or Zone 2





-  Class I, Division 1 or Zone 0
-  Class I, Division 1 or Zone 1
-  Class I, Division 2 or Zone 2

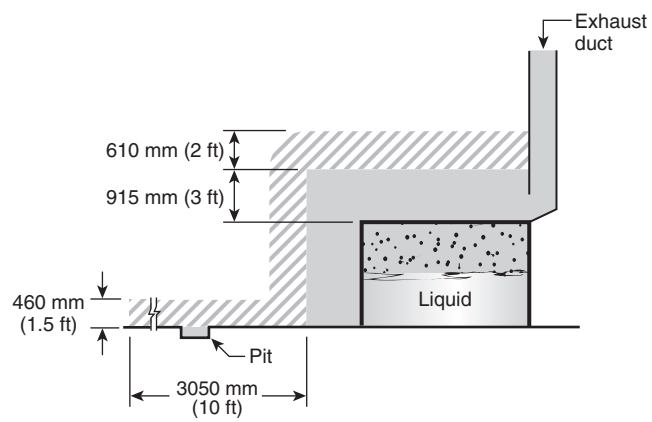





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-  Class I, Division 2 or Zone 2

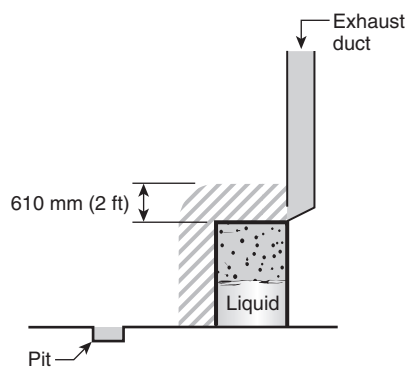
#### Definitions

**Freeboard:** The distance from the maximum solvent or coating material level to the top of the tank

**Freeboard ratio:** The freeboard height divided by the smaller of the interior length or interior width of the tank



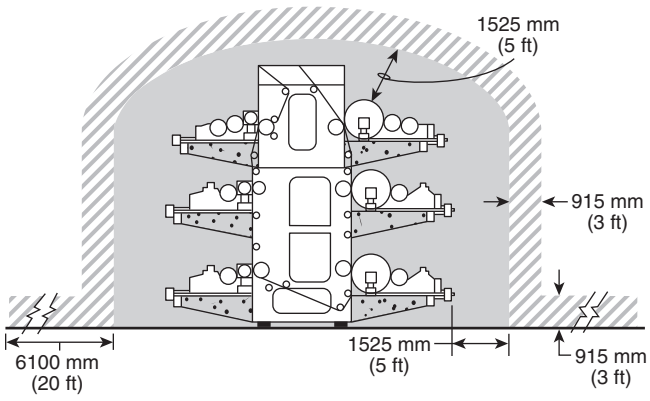
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-  Class I, Division 1 or Zone 1
-  Class I, Division 2 or Zone 2



 Class I, Division 1 or Zone 0

 Class I, Division 1 or Zone 1

 Class I, Division 2 or Zone 2



Class I, Division 1 or Zone 0

Class I, Division 1 or Zone 1

Class I, Division 2 or Zone 2

