

# SANTA ROSA FIRE DEPARTMENT

## FIRE PREVENTION BUREAU PLAN REVIEW CHECKLIST

July 1, 2010



### COMBUSTIBLE DUST-PRODUCTION OPERATIONS

<b>Address:</b>		<b>Permit #:</b>
<b>Inspector:</b>	<b>Date:</b>	<b>Status:</b>
<b>Inspector:</b>	<b>Date:</b>	<b>Status:</b>
<b>A-Approved; AC-Approved w/comments; I-Incomplete; D-Denied</b>		

**This Checklist outlines general requirements. Information contained herein applies to typical instances and may not address all circumstances.**

#### **PERMIT INFORMATION**

Combustible Dust-Production Systems shall be designed and installed in accordance with the California Fire Code, California Building Code, California Mechanical Code, California Electric Code and the use of nationally recognized standards to address the specific hazard.

Working plans shall be submitted for approval to the Santa Rosa Fire Department before any equipment is installed. A completed Permit and Plan Review Application Form and fees shall be submitted along with not less than three (3) sets of plans and calculations as required. A Santa Rosa Tax Certificate, current appropriate contractor's license and proof of worker's compensation insurance shall be provided or shall be on file at the time of application.

- FEES** – Permit fees entered in Permits Plus. 3<sup>rd</sup> or greater checks require an hourly fee for the review.

Any deviation from plans as submitted during the installation requires Fire Department approval. Plans shall include the information specified below and failure to provide all of the required information may result in the plans being rejected. Rejected plans will be returned with a Plan Review Correction Form. Review the form and make the required additions/changes which shall be clouded for identification. Provide a legend to describe the addition or change. Allow ten (10) working days for review of submitted plans.

Working plans shall be drawn to an indicated scale, on sheets of uniform size, with a plan of each floor and shall show the following data:

#### **WORKING PLAN**

##### **General**

- |    | Y                        | N                        |   |
|----|--------------------------|--------------------------|---|
| 1. | <input type="checkbox"/> | <input type="checkbox"/> | Name of owner and occupant.   |
| 2. | <input type="checkbox"/> | <input type="checkbox"/> | Location, including street address, point of compass and symbol legend. |
| 3. | <input type="checkbox"/> | <input type="checkbox"/> | Fire Department access roads to and around the facility.                |
| 4. | <input type="checkbox"/> | <input type="checkbox"/> | Location of operations with respect to property lines                   |

Plan Review Checklist  
Combustible Dust-Production

- |    | Y                        | N                        |  |
|----|--------------------------|--------------------------|--|
| 5. | <input type="checkbox"/> | <input type="checkbox"/> | Location and construction of protected fire walls, enclosure walls and partitions. |

**General**

- |     |                          |                          |  |
|-----|--------------------------|--------------------------|--|
| 6.  | <input type="checkbox"/> | <input type="checkbox"/> | Enclosure cross section, full height of schematic diagram, including location and construction of building floor/ceiling assemblies above and below, raised access floor and suspended ceiling.  |
| 7.  | <input type="checkbox"/> | <input type="checkbox"/> | The location of all dust collection equipment, including each fan, motor, blower unit, operating control panels, fume scrubbers, flexible connections, dampers and exhaust systems shall be detailed with accompanying manufactures guidelines for installation and operation - CFC – Ch 13 and 19, NFPA 664   |
| 8.  | <input type="checkbox"/> | <input type="checkbox"/> | Explosion (deflagration) venting or an approved explosion suppression system shall be detailed on the plan - CFC – Ch 9 – 911  |
| 9.  | <input type="checkbox"/> | <input type="checkbox"/> | Deflagration venting shall be detailed with specific location, operation, distances to windows and exits, property lines and other buildings - CFC – Ch 9 – 911.2  |
| 10. | <input type="checkbox"/> | <input type="checkbox"/> | Locations indicating “No Smoking” shall be posted where a fire hazard may be present - CFC – Ch 19 – 1903.5.3  |
| 11. | <input type="checkbox"/> | <input type="checkbox"/> | Grounding and bonding wires detailed to prevent static electricity build-up - CFC – Ch 19 – 1903.5.2   |
| 12. | <input type="checkbox"/> | <input type="checkbox"/> | Detail information regarding fire protection systems – where installed, shall be specifically designed to address the building protection, process equipment and the chemical and physical properties of the materials being processed. Fire-extinguishing agents shall be compatible with the conveyed materials - NFPA 654 – Ch 10 – 10.1 and 10.2.1 |
| 13. | <input type="checkbox"/> | <input type="checkbox"/> | Where fire detection systems are incorporated into the pneumatic conveying system, the fire detection systems shall be interlocked to shut down any active device feeding materials to the pneumatic conveying system on actuation of the detection system - NFPA 654 – Ch 10 – 10.2.3 – NFPA 72   |