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## Veeder Root Carbon Canister Vapor Polisher Installation Requirements

On October 16, 2008 C.A.R.B and the Office of the State Fire Marshal approved and certified the *Veeder Root Carbon Canister Enhanced Vapor Recovery System*

While the system is marketed as a Carbon Filter, It is listed and functions as a **Vapor Recovery system** by vapor absorption through a carbon filtering process as defined in NFPA 30 definition for Vapor Recovery Systems; The method of installation on Vent Stacks approved by C.A.R.B, the State Fire Marshal, and the Manufacturer *fulfills* many of the set-back restrictions applied to other Vapor Recovery Systems.

The Underground Storage Tank Plan Check Unit is satisfied that the System set-back requirements from Dispensing operations, Tank filling operations, Combustible materials storage bins, and Public ways as stated in **NFPA 30A-4-5.6**, **NFPA 30-table 5-3.1.1**, **CFC-2206.7.9.22**, **CFC table-3405.3.4 (2)**, and **UFC 5202.13.3.12** are met by the Canister's installation on *existing* or *new* code compliant Vent Risers, which eliminates the hazards associated with those operations.

The plans check unit has established setback guidelines from Buildings, Building openings, property lines, and height restrictions as deemed appropriate and reasonable for this system's specific installation procedures.

The *Carbon Canister Vapor Polisher (CCVP)* shall be installed on Code Compliant Vent Risers in accordance with current **NFPA Chapters 30/ 30A, articles 70, 504 & 514 of the NEC, CFC- section 2206.7.9.1 thru 2206.7.9.2.4, section 3404**, and the following **SBCFD** plan submittal requirements:

1.  A permit and approved plans shall be obtained from the UST Plan Check Unit for the installation of the Canister.
2.  All contractors must provide Veeder- Root ISD/PMC and CCVP certification, ICC EVR phase-II certificate, Veeder Root Technician Level 2/3 or 4 and possess the appropriate State contractor's license.
3.  The Canister **must** be monitored by a Veeder Root TLS-350 plus or 350R control panel with version 329 or higher software, this shall be noted on the plans.
4.  The plans must show that the veeder-root's monitoring system has a 7 input smart sensor module with printout capability.
5.  The Canister shall not be mounted directly onto a non-supported vent riser, the plans shall show and state the Riser's support system is capable of supporting the Canister's weight and will meet or exceed Veeder Roots minimum support mounting requirements.

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6.  When an *independent support system* is used, the plans shall state the support system will meet or exceed Veeder Roots minimum support mounting requirements.
7.  The Canister **shall not** be mounted directly on Vent Risers that do not comply with the 5' setbacks from property lines that can be built upon. In **no case** shall Canisters be located closer than 5' to adjacent property lines that can be built upon.
8.  The Canister shall be *setback* a minimum of 5' from building walls, roof over-hangs, and adjacent property lines that can be built upon. [**Free standing open canopies exempt**].
9.  The **CCVP Vapor outlet** shall be located not less than **5 feet above** the highest projection of a roof or canopy.
10.  Canisters installed **directly over building roofs** shall be within a 1-hour rated enclosure, and an OSHA approved access ladder shall be provided for inspection personnel.
11.  Canisters that cannot meet the 5' feet setback requirements shall be provided with a one-hour fire resistive enclosure between the canister and the exposure, **with Department approval**.
12.  Dispensers, Tank fills and combustible storage setbacks are **not applicable** for this system.
13.  The Canister shall not be attached directly to any Building walls or roof structures.
14.  The Canister's vapor valve outlet shall be located a minimum of 5' from building openings.
15.  The Canister's vapor valve outlet shall terminate a minimum of 12' above grade per **CFC section 3406.8.1 and NFPA 30A 4-5.9**.
16.  The Canister's vapor valve outlet shall not terminate beneath eaves, overhangs or canopies and shall comply with all Class-I Div-I, Div-II clearance requirements.
17.  The Canister shall be attached to the vent riser using the Veeder Root mounting hardware.
18.  The **CCVP outlet** shall be located at least 15 feet from powered ventilation air intakes.
19.  Bollards shall be provided 18" from the support risers if needed for crash protection.
20.  The Canister shall be labeled with a sign stating "Warning Flammable Vapors".

The installation shall also comply with all Veeder Root installation requirements,  
and with the current version of the Executive Order.