



BAY AREA
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**Bay Area Air Quality Management District
Public Workshop
October 6, 2008 - 1:00 pm**

**Bay Area 2005 Ozone Strategy
Control Measure SS 7**

**BAAQMD Regulation 8, Rule 39:
Gasoline Bulk Plants and Cargo Tanks**

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Air Quality Engineer**



Agenda

- **Background**
- **Proposed amendments**
- **Emission reductions**
- **Costs**
- **Next Steps**

Background

- **Regulation 8, Rule 39** adopted in 1987, last amended in 1994
- **2005 Ozone Strategy Control Measure SS-7**

Current requirements

- **Vapor Recovery System must be CARB certified**
- **Organic emissions standard: ≤ 0.50 lbs non-methane organics/1000 gallons**
- **Vapor Leak standard: 100% of Lower Explosive Limit (LEL)**
- **Liquid Leak standards: 4 drops/minute, and ≤ 10 ml. per disconnect (averaged over 3 disconnects)**



Proposed Amendments

- **Vapor and Liquid leak standards**
 - ◆ **Leak Standards – apply to the hose/cargo tank connectors**
 - ◆ **Vapor Leak Standard - 100% of Lower Explosive Limit (LEL)**
 - ◆ **Liquid Leak Standards – 3 drops/min and 10 ml. upon disconnect (averaged over 3 disconnects)**
- **VRS back-pressure monitoring**
 - **Propose pressure gauge to monitor back-pressure at each loading rack**
- **Vapor Check Valves in Vapor return piping**
 - **As close as practical to the piping / hose interface of each vapor return arm**



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Proposed Amendments - 2

- **Minimize organic vapors during maintenance**
- **Reduced back-pressure on New VRS piping**
- **Monitoring, inspection, notification and emissions reporting protocol**

Emission Reductions

- **Current emissions are 0.008 tons per day**
- **Estimated hydrocarbon emission reductions are very low**
- **Reduced emissions and frequency of episodic events is expected to be more significant**

Costs

Cost estimates for the various proposals

- **Pressure gauge: \$500 capital**
- **Vapor check valves: \$1000 each**
- **Portable Maintenance Container: \$1500**
- **Larger piping for new piping systems: \$10K**



Next Steps

- **Written comments are requested no later than Wednesday, October 15, 2008**
- **Consider input, and modify as required**
- **California Environmental Quality Act Analysis, and Socio-Economic Analysis required**
- **Public Hearing before the Board of Directors – January, 2009**



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Public Comments

- **Please direct comments to:**
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