



VAPOR SYSTEMS TECHNOLOGIES, Inc.
SINCE 1989



SPECIALIZES IN:

- DEVELOPMENT
- ENGINEERING
- MANUFACTURING
- SALES OF INNOVATIVE PRODUCTS SOLD INTO THE GDF SEGMENT OF THE PETROLEUM INDUSTRY

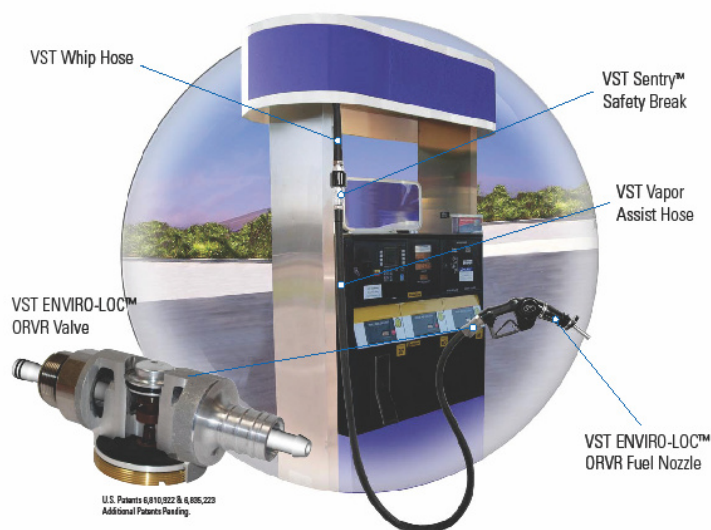
(HOSES, SAFETY BREAKAWAYS, NOZZLES, AND MEMBRANE PROCESSORS)

www.vsthose.com



ORVR SYSTEM SOLUTION

The VST ORVR Solution.
Negative Pressure. Positive Cashflow.



U.S. Patents 6,810,922 & 6,806,223
Additional Patents Pending



Protects both air and water from fugitive emissions associated with positive Underground Storage Tank (UST) pressures.



Vapor Systems Technologies, Inc.
One Company – One Integrated Solution
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Visit us online at www.vsthose.com

CONSISTS OF –
COMPLETE VST HANGING
HARDWARE SET DESIGNED
AND CERTIFIED AS A SYSTEM

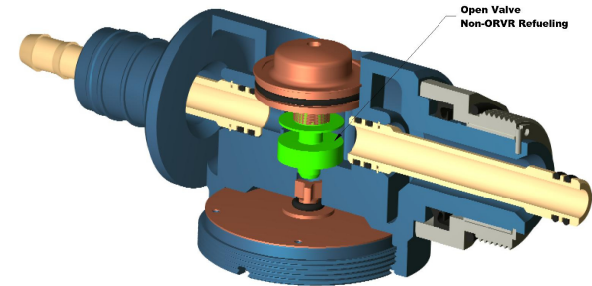
INCLUDES –

- **WHIP HOSE**
- **SAFETY BREAKAWAY**
- **VACUUM ASSIST HOSE (INCLUDING ORVR VALVE)**
- **ENVIRO-LOC™ NOZZLE**

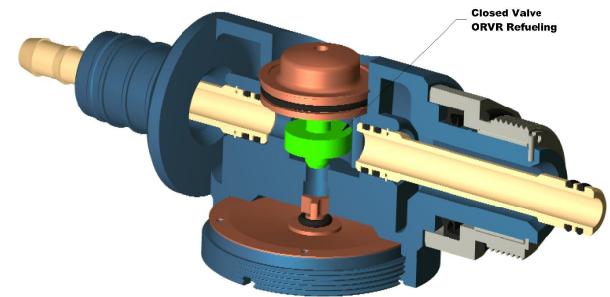


ENVIRO-LOC™ ORVR VALVE

- **RECOGNIZES ORVR AND NON-ORVR VEHICLES**
- **OPEN = NON-ORVR VEHICLES**
- **CLOSED = ORVR VEHICLES**
- **PATENTED TECHNOLOGY**
- **ADDITIONAL PATENTS PENDING**



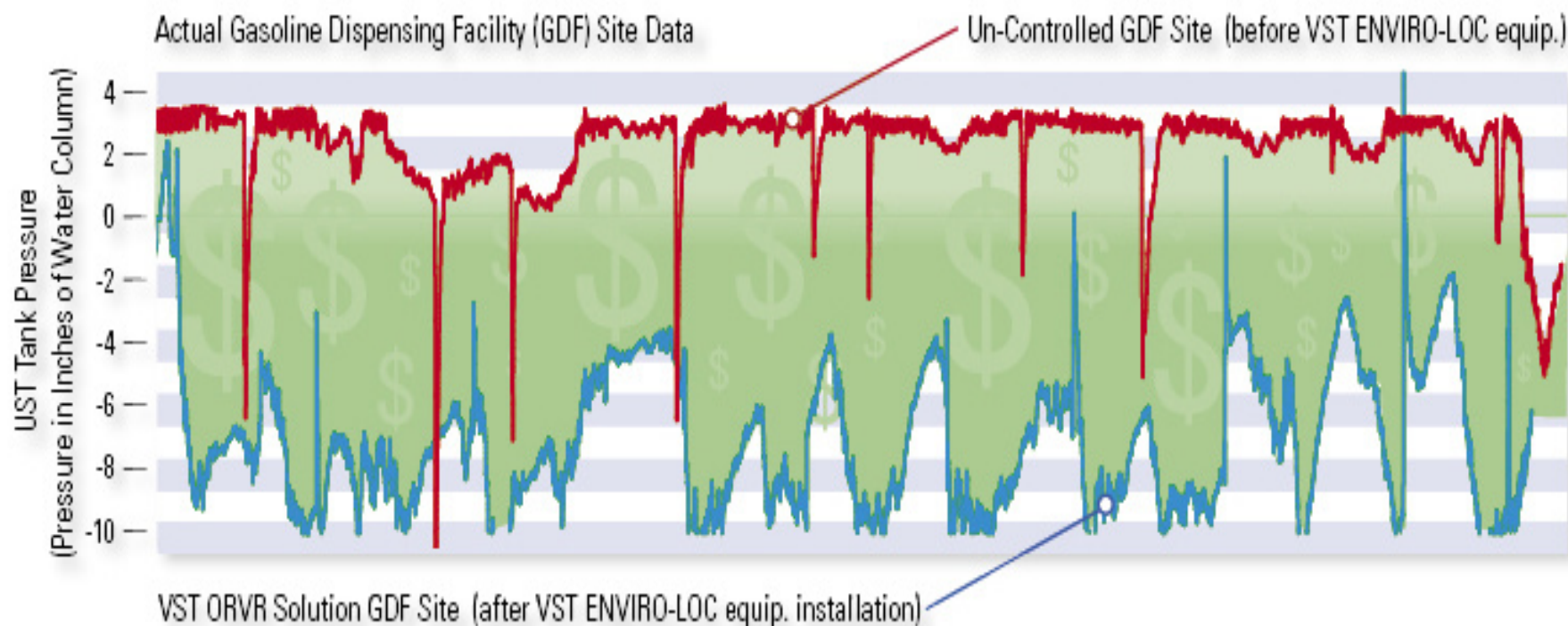
VST ENVIRO-LOC™ ORVR VALVE



VST ENVIRO-LOC™ ORVR VALVE



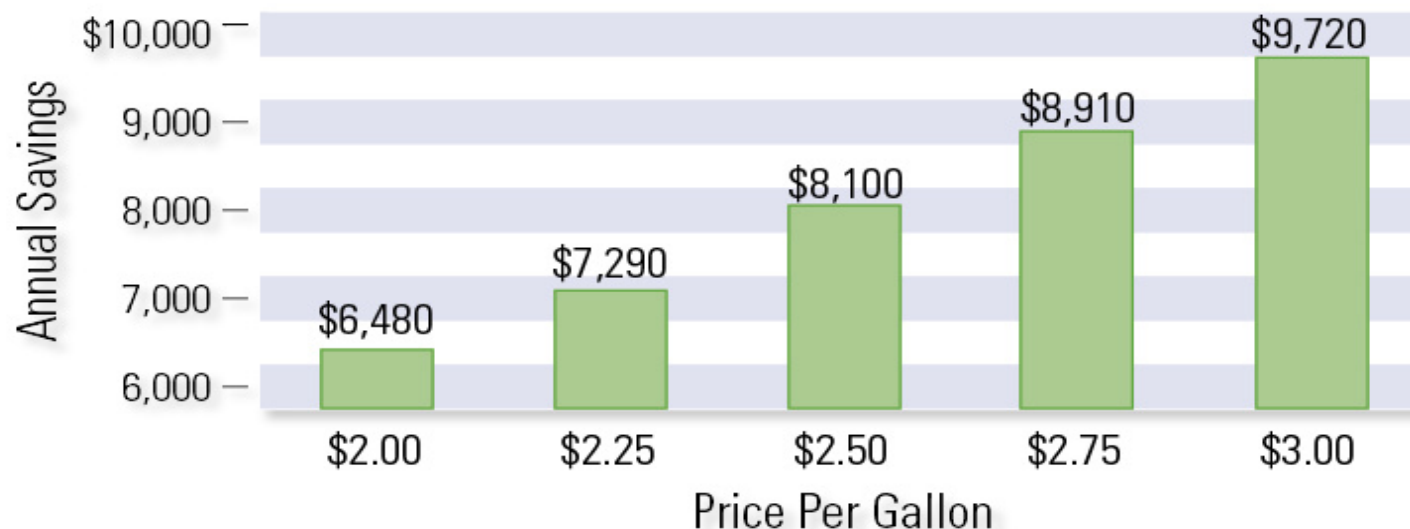
ORVR SYSTEM SOLUTION



**FUGITIVE EMISSIONS CAN NOT ESCAPE
FROM NEGATIVE UST PRESSURES**



ORVR SYSTEM SAVINGS



Savings Formula:

Gallons per Month x Vaporization Standard x

Price per Gallon x 12 months = Additional Profit Dollars

Example: 150,000 Gal./Mo. x 0.0018 x \$2.25/Gal. x 12 = \$7,290

SAVINGS TODAY: 150,000 x .0018 x \$3.00 x 12 = \$9,720



Simple Solution for Vapor Recovery



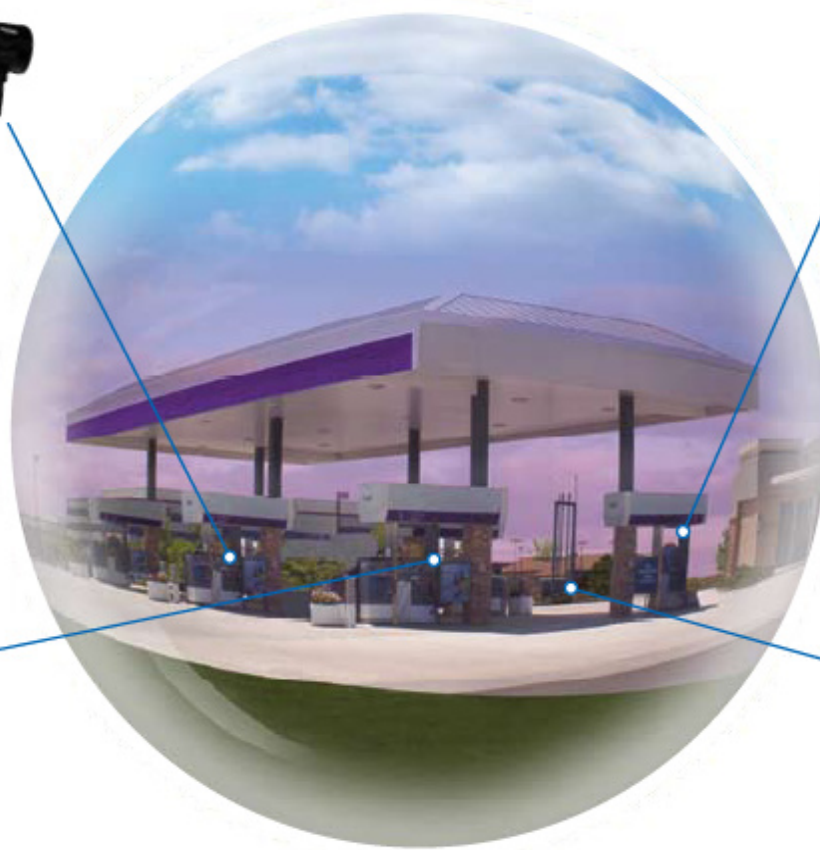
ENVIRO-LOC™
EVR Balance
Dripless/Spitless
Fuel Nozzles



ENVIRO-LOC™
EVR Balance
Safety Breakaways



ENVIRO-LOC™
EVR Balance
Fuel Hoses



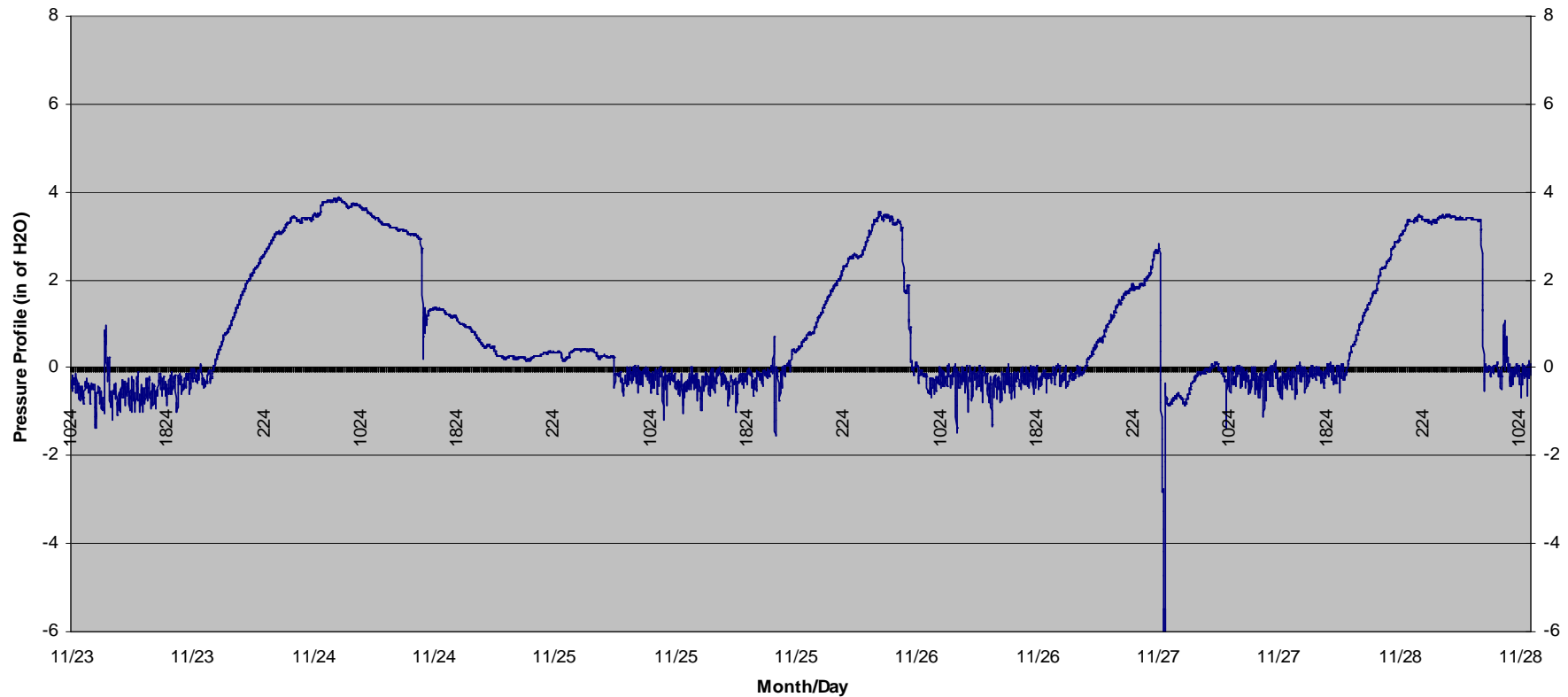
ENVIRO-LOC™ ECS
EVR Membrane Processor



No ECS Membrane Processor Pressure Profile

Challenge Mode Test Site

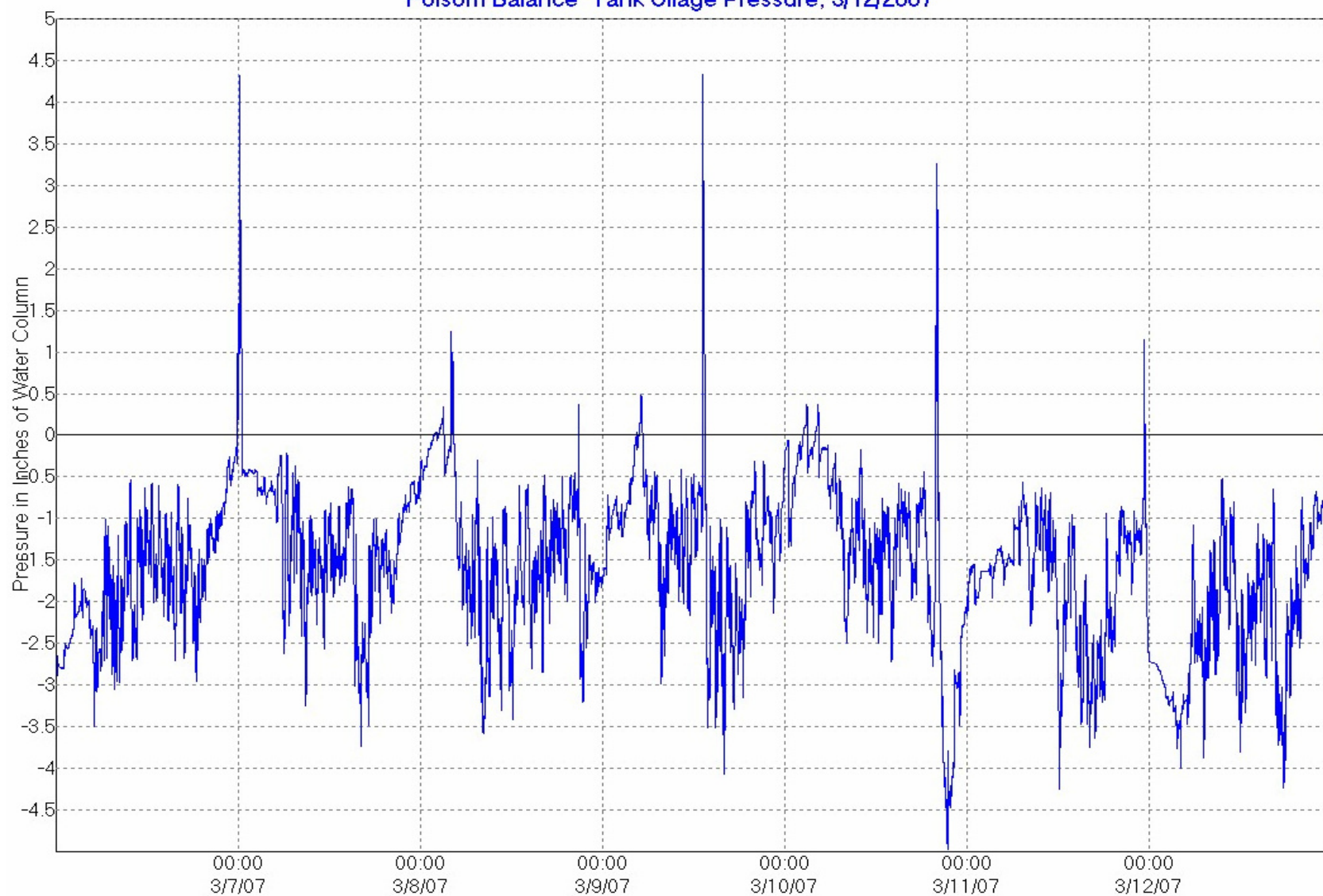
Riverside Ullage Pressure Profile





Pressure Profile with ECS Membrane Processor

Folsom Balance Tank Ullage Pressure; 3/12/2007





ENVIRO-LOCTTM

Enhanced Vapor Recovery Nozzles

Nozzle Category	Current USA Standards	CARB EVR Requirement	CARB Test Results
A. Liquid Retention	No known standard	≤ 100 ml. per 1,000 gal. dispensed	≤ 14.759 ml. per 1,000 gal. dispensed
B. Spillage	$\leq .42$ lbs per 1,000 gal. dispensed	$\leq .24$ lbs. per 1,000 gal. dispensed	$\leq .016$ lbs. per 1,000 gal. dispensed
C. Spitting	No known standard	≤ 1.0 ml. per refueling	Zero
D. Drops/refueling	No known standard	** ≤ 3 drops per refueling	≤ 2.375 drops per refueling
		** (included in spillage totals)	



200 Car Test Results

Vehicles Tested		TP-203.2 Efficiency (%)	Emission Factor (lbs/10 ³ gal)
Conventional	127	98.8	0.09
ORVR	73	96.2	0.04
Combined	200	98.5	0.07

Fugitive Emission Rate: 0.015408 lbs/ 1000 gal

ORVR penetration rate: 36.5% by vehicle population, 41.2% by gasoline dispensed.



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