

**SAN DIEGO AIR POLLUTION CONTROL DISTRICT
FEE SCHEDULE 26F
GILBARCO SYSTEMS E.O. G-70-150-AE
INSPECTION CHECKLIST**

Annual Mid-Year Test/Witness Inspection Date: _____

Company (DBA) _____

Location: _____

Representative: _____ Title: _____

Sector/ID #: _____ Permit #: _____ Expiration Date: _____

EQUIPMENT DESCRIPTION

Is equipment description same as Permit to Operate? Yes No

If no, are changes in compliance with applicable District rules: Yes No

Description of changes: _____

Permit posted in compliance with applicable District rules? Yes No

Were permit conditions reviewed? (Current, supported by a rule, enforceable) Yes No

Operating in compliance with permit conditions? (If not, list affected permit condition(s)) Yes No

PHASE I VAPOR RECOVERY

Submerged Fill Pipe (SFP) (Annual Inspection Only)

Product _____	SFP Measurements _____	“
Product _____	SFP Measurements _____	“
Product _____	SFP Measurements _____	“
Product _____	SFP Measurements _____	“

Tank caps and gaskets in good condition? Yes No

Drybreak(s) operable and properly seal(s)? Yes No

Fuel drop observed? Yes No

If yes, was all Phase I equipment (hoses, hose elbow gaskets, etc) used properly and in good working order? Yes No

Are P/V valves installed with a three (3) inch positive pressure and eight (8) inch negative pressure setting and on each tank vent? Yes No UTD

Are vent lines manifolded aboveground? Yes No

If so, is manifold greater than 12 feet above driveway surface? Yes No N/A

PHASE II GILBARCO VAPORVAC SYSTEM

Nozzle(s), manufacturer(s), and model(s): _____

Are nozzles certified and installed per Attachment 1? Yes No

Are all nozzles on each side of the dispenser of the same type; either mini-boot with vapor valve or a non-booted nozzle without a vapor valve. Yes No

Hose(s), manufacturer(s)/model(s): _____

Are hoses certified and installed per Attachment 1? Yes No
(List all hose defects or deficiencies in comments.)

Length of longest hose: _____ (Maximum length of any hose shall be fifteen (15) feet.)

Additional equipment certified and installed per Attachment 1? Yes No

Bag test performed? (Per GDF-01 or GDF-03) Yes No

If yes, list nozzles tested and results. _____

Are the storage tank vent pipes, manhole covers, and spill containment covers maintained in a color to minimize solar gain and have a reflective effectiveness of 55% or greater or color coded for product identification? Yes No

For storage tank vent pipes and manholes which are not color coded for product identification are paint color cards maintained onsite? Yes No N/A

Have any vapor pumps or electronic components associated with the system been replaced? Yes No

(If so, A/L test(s) for the affected nozzles must be conducted prior to placing the nozzles in service.)

If yes, list nozzles tested and results. _____

RENEWAL TESTING NA

District notified 15 calendar days prior to the required annual test(s)? Yes No

Date(s) of notification: _____

Test conducted 45 calendar days prior to renewal date? Yes No

Date(s) results received: _____

Annual test:	<u>Date</u>	<u>Tests</u>	<u>Pass</u>	<u>Fail</u>	<u>Incomplete</u>
1.	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7.	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

LEGEND: 2" = Two inch Pressure Decay A/L = Air- to-Liquid TT = Torque Test
10" = Ten inch Pressure Decay DT = Drop Tube Integrity Test PV – PV Valve Test

Test results submitted to the District within 15 calendar days of test? Yes No

In the event of a failed test, were repairs made and a retest performed before equipment put back in service? Yes No N/A

Is a copy of all test data onsite? (If no, address in comments) Yes No N/A

Compliance issues addressed regarding contractor data since last inspection: If no explain in comments. Yes No N/A

Description of compliance issues addressed _____

Date of last inspection: _____

Record review period: _____

Are the inspection, maintenance, flowrate, and throughput records being maintained per A/C or P/O conditions? Yes No

If no, explain _____

Is there a conspicuous posting of the operating instructions and ARB toll-free complaint telephone number (1-800-952-5588)?

Yes No N/A

Comments: _____

Inspector's Signature: _____

Date of Report: _____

**ATTACHMENT 1
CARB CERTIFIED EQUIPMENT*
FOR USE WITH THE GILBARCO (MARCONI) SYSTEMS**

NOZZLES WITH VAPOR CHECK VALVES

Catlow ICVN	Emco Wheaton A4505
Husky V34 Model 6250	OPW 12VW
Richards Astrovac	

NOZZLES W/O VAPOR CHECK VALVES

OPW 11VAI-XX	XX = 22, 27, 42, 47
Husky V3 6201-XXX	XXX = 049, 089
Emco Wheaton A4500-XX	XX = 051, 052, 053, 054
Saber N11110, N12110, N21110, N22110	

INVERTED COAXIAL HOSES

Catlow Vapor Mate
Dayco 7253BVD Flexever Ultimate
Dayco 7246 Flex-ever Ultimate VR
Dayco 7282 Superflex 2000
Dayco 7292 Superflex 4000
Goodyear Flexsteel
GT Sales/Hewitt Superflex 2000
Thermold Hi-Vac or Hi-Vac S
VST VSTaflex, VST-CIS

SPLASH GUARDS

Splash guards are optional, but if used must be the guards listed for use with the nozzle. (Refer to E.O. Exhibits 1, A, B, and C.)

BREAKAWAYW/VAPOR POPPET

Catlow AV2001, AV200S, IVC200S
VST-IS-SBK and VST-H-SBK
Emco Wheaton A5219-001
Husky 4034, 5134
OPW 66CIP and 66CAS
Richard Industries VA-50, VA50-B, or VA-60 (OPW 66ISU-5100)

SWIVELS

OPW 43-IS, Husky 4605, Catlow IC3, Richards Ind. MFVA

VAPOR PUMP

Blackmer VGR 3/4

BREAKAWAY W/O VAPOR POPPET (Optional)

Catlow AV200 or AV200-1
Emco Wheaton A5019-001
OPW 66CI, 66TEC
Richards Industries VA-51 or VA-61

BREAKAWAY/FLOW CONTROL UNIT COMBO

OPW 66FLB

FLOW CONTROL UNITS

Catlow 110G-1A	Healy 1301M, 1302M
Richards FRVAD	Vapor Systems Tech. (VST)
Husky 5837	OPW 66FL, 66FD

DISPENSERS

Gilbarco Advantage Series (B "XY")
X = maybe 0 through 9 or A
Y = maybe 0 through 9, A through P
B Schlumberger 4000 Series
4" ABC - YZ - S - VG
A = maybe 1 through 4 and designates the number of products on the front side
B = maybe 0 through 4 and designates the number of products on the back side
C = maybe 0 through 3 and designates the number of hoses per side
Y = maybe 2 through 7 and designates computer options
Z = maybe A; D; or none and designates computer options
S = maybe B; L; R; - B-L; B-R; L-R; B-L-R; features
VG designates the Gilbarco VaporVac system

PRESSURE/VACUUM VALVES

Any CARB certified valve with the settings 3" ± .5" pressure/8" ± 2" vacuum
OPW 523LP, 523LPS OR 523V
Hazelett H-PVB-1 Gold Label
Morrison Brothers 749CRB0600 AV
Husky Model 4620, 4885
EBW 802 Series

***California Health and Safety Code requires all components certified by the state to be clearly identified by a permanent identification of the manufacturer or re-builder.**

ATTACHMENT 1 – continued

1. **NOZZLE PROBLEMS AND REQUIREMENTS**

- a. OPW 11VAI nozzles with less than four (4) unobstructed vapor holes.
- b. OPW 12VW nozzles with all vapor holes blocked.
- c. Husky nozzles with all vapor holes blocked.
- d. Emco Wheaton with less than three (3) unobstructed vapor holes.
- e. Catlow ICVN nozzles with less than three (3) unobstructed vapor holes.
- f. Any nozzle associated with a defective vapor valve as verified through test procedure GDF-01 or GDF-03.
- g. Any nozzle with a malfunctioning liquid shut-off mechanism.
- h. Nozzle spout is loose.
- i. Both booted and un-booted nozzle types connected to the same vapor pump

OPW 11VAI Nozzle (The OPW 11VAI nozzle shall use a stainless steel spout).

The stainless steel spout has a total of 18 vapor recovery holes. Figure 1A-3 of EO G-70-150-AE shows a typical 11VAI nozzle with a stainless steel spout configuration. A fuel splash guard may be installed on the OPW 11VAI-XX nozzles at the base of the spout, as shown in Figure 1A-3.

Booted Nozzles With Vapor Check Valves

- **Catlow ICVN** – An Efficiency Compliance Device (ECD) shall be installed on the Catlow ICVN nozzle at the base of the spout, as shown in Figures 1B-1 of EO G-70-150-AE. Any Catlow ICVN nozzle with an ECD which is damaged with a slit from the base to the rim, is defective and shall be immediately removed from service.
- **Emco Wheaton A4505** – A Vapor Guard (VG) shall be installed on the Emco Wheaton A4505 nozzle at the base of the spout, as shown in Figure 1A-5. Any Emco Wheaton A4505 nozzle with a VG which is damaged such that at least one-eighth (1/8) of the circumference is missing, or which has cumulative damage equivalent to at least 1/8 of the circumference missing, is defective and shall be immediately removed from service.
- **Husky V34 6250** – A Vapor Splash Guard (VSG) shall be installed on the Husky V34 6200 and V34 6250 nozzles at the base of the spout, as shown in Figures 1A-3 of EO G-70-150-AE and 1A-4.
- **Damaged or Missing VSG** – Any Husky V34 6250 nozzle with VSG which is missing, or which is damaged such that at least a one and one-half (1.5) inch slit has developed, or which has cumulative damage equivalent to at least a 1.5 inch slit, is defective and shall be immediately removed from service.
- **Holes in VSG** – Any Husky V34 6250 nozzle which damaged such that greater than a three-eighths (3/8) inch hole has developed, or which has cumulative damage greater than a 3/8 inch hole, is defective and shall be immediately removed from service.

OPW 12VW

A Vapor Escape Guard (VEG) shall be installed on the OPW 12VW nozzle at the base of the spout, as shown in Figure 1A-8 of EO G-70-150-AE. Any OPW 12VW nozzle with a VEG which is missing, or which is damaged such that at least three-quarters (3/4) of the circumference is missing, or which has cumulative damage equivalent to at least 3/4 of the circumference missing, is defective and shall be immediately removed from service.

Nozzle Replacement

The MCS VaporVac has one vapor pump per fueling point (dispenser side). All nozzles associated with the vapor pump must be the same type: either a mini-booted with a vapor valve (“mini-booted type”) or a non-boot nozzle without a vapor valve (“non-booted type”). Therefore, if there is more than one nozzle on a fueling point, replacement of a non-booted type of nozzle with a booted-type nozzle shall require that the A/L be adjusted to the lower range, and that all other nozzles be of the same type on the fueling point. Different brands of the same nozzle type may be used on the same fueling point; nozzles requiring different A/L ranges may not be used on the same fueling point.

2. **HOSE REQUIREMENTS**

- a. The maximum length of the hose shall be fifteen (15) feet.
 - b. The length of hose that may come into contact with the island and/or ground when the nozzle is properly mounted on the dispenser is limited to six (6) inches.
3. Breakaway couplings are optional, but, if installed, only CARB certified breakaways may be used. Breakaways couplings which do not close the vapor path, may be used because the VaporVac solenoid valve closed the vapor path when breakaway couplings are separated.