

**SAN DIEGO AIR POLLUTION CONTROL DISTRICT  
FEE SCHEDULE 26F  
TOKHEIM MAXVAC SYSTEMS E.O. G-70-154-AA  
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 the P/V valves installed with a three (3) inch positive pressure and an eight (8) inch negative pressure setting and on each tank vent?  Yes  No

Are vent lines manifolded aboveground?  Yes  No

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

Are the storage tank vent pipes, manhole covers, and spillbox covers maintained in a color to minimize solar gain or color coded for product identification?  Yes  No

**PHASE II TOKHEIM MAXVAC SYSTEM**

Nozzle(s), manufacturer(s), and model(s): \_\_\_\_\_

Are nozzles certified and installed per Attachment 1?  Yes  No

Are nozzles equipped with ECD, VG, VSG and free of all defects per Attachment 1?  Yes  No

Hose(s), manufacturer(s)/model(s): \_\_\_\_\_

Are hoses certified and installed per Attachment 1?  Yes  No

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 spillbox covers maintained in a color to minimize solar gain or color coded for product identification?  Yes  No

**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: \_\_\_\_\_  
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Inspector's Signature: \_\_\_\_\_

Date of Report: \_\_\_\_\_

## ATTACHMENT 1

### CARB CERTIFIED EQUIPMENT\* FOR USE WITH THE TOKHEIM MAXVAC SYSTEMS

#### NOZZLES

OPW 11VAI-XX w/ECD (XX – 63, 68, 83, 88)  
Husky V34 6200-5 w/vapor valve and ECD  
Husky V34 6200 w/vapor valve and VSG  
Husky V34 6250 w/vapor valve and VSG  
Emco Wheaton A4505 w/vapor valve and VSG  
Catlow IVCN w/vapor valve and ECD  
Richards Astrovac w/vapor valve and ECD

**ECD = Efficiency Compliance Device**

**VSG = Vapor Splash Guard**

**VG = Vapor Guard**

#### SPLASH GUARDS

Splash guards are optional, but if used they must be guards listed for use with the nozzle and shall be installed so they do not interfere with the operation of the VEG or USG units.

#### INVERTED COAXIAL HOSES

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

#### BREAKAWAYS W/VAPOR POPPET

Catlow AV2001 or AVR200S, IVC200S  
Emco Wheaton A5219-001  
Husky 4034, 5134  
OPW 66CIP or 66CAS, 66ISU-5100  
Richards VA-50, VA-50B, or VA-60  
VST-IS-SBK or VST-H-SBK

#### SWIVELS

Richards Industries MFVA              Catlow IC3  
OPW 43-IS                                  Husky 4605

#### BREAKAWAY/SWIVEL COMBINATION

Richards Industries STVA

#### BREAKAWAY/HOSE COMBO

VST-IS-BK

#### FLOW CONTROL UNITS

Catlow I10G-A                              Healy 1301M  
Healy 1302M                                Husky 5837  
OPW 66FL                                  OPW 66FD  
Richards Industries FRVAD              VST

#### BREAKAWAY/FLOW CONTROL COMBO

OPW 66FLB

#### VAPOR PUMP

Nuovo Pignone NFB-459002060  
Thomas Industries VF-0020/991139  
Thomas Industries VR-0020/991202

#### PRESSURE/VACUUM VALVES

Any CARB certified valve with the settings 3" ± .5" pressure/8" ± 2" vacuum  
EBW Model 802-309  
Hazlett H-PVB-1 gold Label  
Husky 4620, 4885  
OPW 523LP, 523LPS, or 523V  
Morrison Brothers 749CRB0600 AV

**\*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.**

**NOZZLE PROBLEMS AND REQUIREMENTS**

**1. OPW 11VAI and Husky V34 6200-5**

An Efficiency Compliance Device (ECD) shall be installed on the OPW 11VAI and Husky V34 6200-5 nozzles at the base of the spout, as shown in Figure 2D-I and 2D-2 of EO G-70-154-AA. Any OPW 11VAI or Husky V34 6200-5 nozzle with an ECD which is missing, or which is damaged such that at least one-fourth (1/4) of the circumference is missing, or which has cumulative damage equivalent to at least ¼ of the circumference missing, is defective and shall be immediately removed from service.

**2. Husky V34 6200 and 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 2D-3 and 2D-4 of EO G-70-154-AA.

- Damaged or Missing VSG – Any Husky V34 6200 and V34 6250 nozzle with a 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 6200 and V34 6250 nozzle which is damaged such that greater than a three-eighth (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. Nozzles installed and in service prior to the issue date of this Executive Order may have a VSG with one-eighth (1/8) inch hole, or may be modified to have four (4) three-sixteenth (3/16) inch holes, which are equivalent to in area to a 3/8 inch hole.
- Compression of VSG – Any Husky V34 6200 and V34 6250 nozzle which has a VSG compressing more than one-half (0.5) inches when a compression force of at least 1.5 pounds is applied is defective and shall be immediately removed from service. (Note: Do not include the compression length of the VSG “flange”.)

**3. 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 2D-5 EO G-70-154-AA. Any Emco Wheaton A4505 nozzle with a VG which is completely missing is defective and shall be immediately removed from service.

**4. Catlow ICVN and Richards Astrovac**

An Efficiency Compliance Device (ECD) shall be installed on the Catlow ICVN nozzle and the Richards Astrovac nozzle at the base of the spout, as shown in Figures 2D-6 and 2D-7. Any Catlow ICVN or Richard Astrovac nozzle with an ECD which is damaged such that at least one-fourth (1/4) of the circumference is missing, or which has cumulative damage equivalent to at least ¼ of the circumference missing, is defective and shall be immediately removed from service.

5. Any nozzle with fewer than the minimum number of unblocked vapor holes shall be considered defective and removed from service.

<u>Nozzle</u>	<u>Minimum Number of Unblocked Vapor Holes Required</u>
OPW 11VAI	2
Husky V34 6200-5	2
Husky V34 6200	2
Husky V34 6250	N/A
Emco Wheaton A4505	7
Catlow ICVN	4
Richards Astrovac	4

6. Any nozzle with a defective vapor valve verified through test procedure GDF-01 or GDF-03 shall be removed from service along with all other nozzles at that fueling point.

**HOSE REQUIREMENTS**

1. The length of hose, which may be in contact with the island and/or ground when the nozzle is properly mounted on the dispenser, is limited to six inches (6”).
2. The hose configuration shall comply with Figure 2B; there may be 1 to 4 hoses on each side of the dispenser. Within the constraints of the configurations, the maximum length of the hose shall be fifteen feet (15”).