

**SAN DIEGO AIR POLLUTION CONTROL DISTRICT
FEE SCHEDULE 26F
HASSTECH SYSTEM E.O. G-70-164-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) ± .5 inch w.c. positive pressure and an eight (8) ± 2 inch w.c. 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

PHASE II HASSTECH SYSTEM

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

Are nozzles certified and installed per Attachment 1? Yes No

Remote vapor valves required? Yes No

If required, are remote vapor valves installed? Yes No N/A

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 fourteen (14) feet.)

Additional equipment certified and installed per Attachment 1? Yes No

Number of fueling points supported by a collection unit ≤ 16? Yes No

Number of fueling points per collection unit: _____

Access to the collection unit and processor provided? Yes No

Visible emissions observed from processing unit (burner)? Yes No

(Processing unit VE's shall not exceed Ringlemann one-half (1/2) or 10% opacity at any time)

Opacity/Ringlemann observed: _____

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

Horizontal distance between P/V valve and processing unit ≥ 20 feet? Yes No

Dispensing observed when processing unit is disabled for any reason? Yes No

Tank Stick Correction (TSC) gauge installed? (Optional Equipment) Yes No

If yes, TSC reading: _____

(See Attachment 1, diagram for TSC gauge legend)

ECS status panel installed and equipped with clearly labeled indicators? Yes No

(See Attachment 1, page 4, for ECS status panel indicator legend)

a. Power status panel on? Yes No

b. Indicators lit when the collection and process units are operating? Yes No

c. Message displayed on the status panel (Code #6 indicates failure of the process unit):

(See Attachment 1, page 2, for error code legend)

PR/SO ratios reviewed from date of last inspection? Yes No

Is a written log being maintained of the daily PR/SO ratios? Yes No N/A

Date of last inspection and dates reviewed _____

(PR/SO ratio shall not be less than .90)

a. Indicate any PR/SO ratios less than .90 and date of occurrence:

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>Test</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"/>

Annual test: (cont)	<u>Date</u>	<u>Test</u>	<u>Pass</u>	<u>Fail</u>	<u>Incomplete</u>
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 HASSTECH SYSTEMS

NOZZLES W/VAPOR VALVE

OPW 11VAI-XX (XX – 29 and 49)
Husky V34 6200-8

NOZZLES W/O VAPOR VALVE*

OPW 11VAI-XX XX – 27, 37** and 47
Husky V3 – 6201
EW A4500-002

***Note: Hasstech CFC-1 Flow Control Valve must be used with nozzles w/o vapor valve**
****Only the OPW 11VAI-37 nozzle can be used with dispensers utilizing a high hang hose.**

BREAKAWAY W/O VAPOR VALVE

(Must be used with Hasstech CFC01 Flow Control Valve)

Catlow AV200 or AV200-1, IVC 2005
Emco Wheaton A5019-001
OPW 66CI, 66TEC
Richards VA-51, VA51B, or VA0-61

INVERTED COAXIAL HOSES

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

BREAKAWAYS W/VAPOR VALVE

Catlow AV2001 or AV200S, IVC200S
Emco Wheaton A5219-001
OPW 66CIP or 66CAS, 66ISU-5100
Husky 4034, 5134
Richards VA-50, VA-50B, or VA-60
VST-IS-SBK

SWIVELS

Richards Industries MFVA, STVA, STVA1, Husky 4605

BREAKAWAY/SWIVEL COMBINATION

Richards Industries STVA

BREAKAWAY/HOSE COMBO

VST-IS-BK

FLOW CONTROL UNITS

Catlow I10G-1A	Healy 1301M
Healy 1302M	Husky 5837, 4490
OPW 66FL	OPW 66FD
Richards Industries FRVAD	VST

BREAKAWAY/FLOW CONTROL COMBO

OPW 66FLB

VAPOR PUMP

Rotron 6VR313AK4HA, 6VR313AEHA

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

PROCESSOR UNIT

Hasstech 1016-PRA

PROCESS CONTROL PANEL

Hasstech ECS-1 w/Audible Alarm

***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

NOZZLE PROBLEMS AND REQUIREMENTS

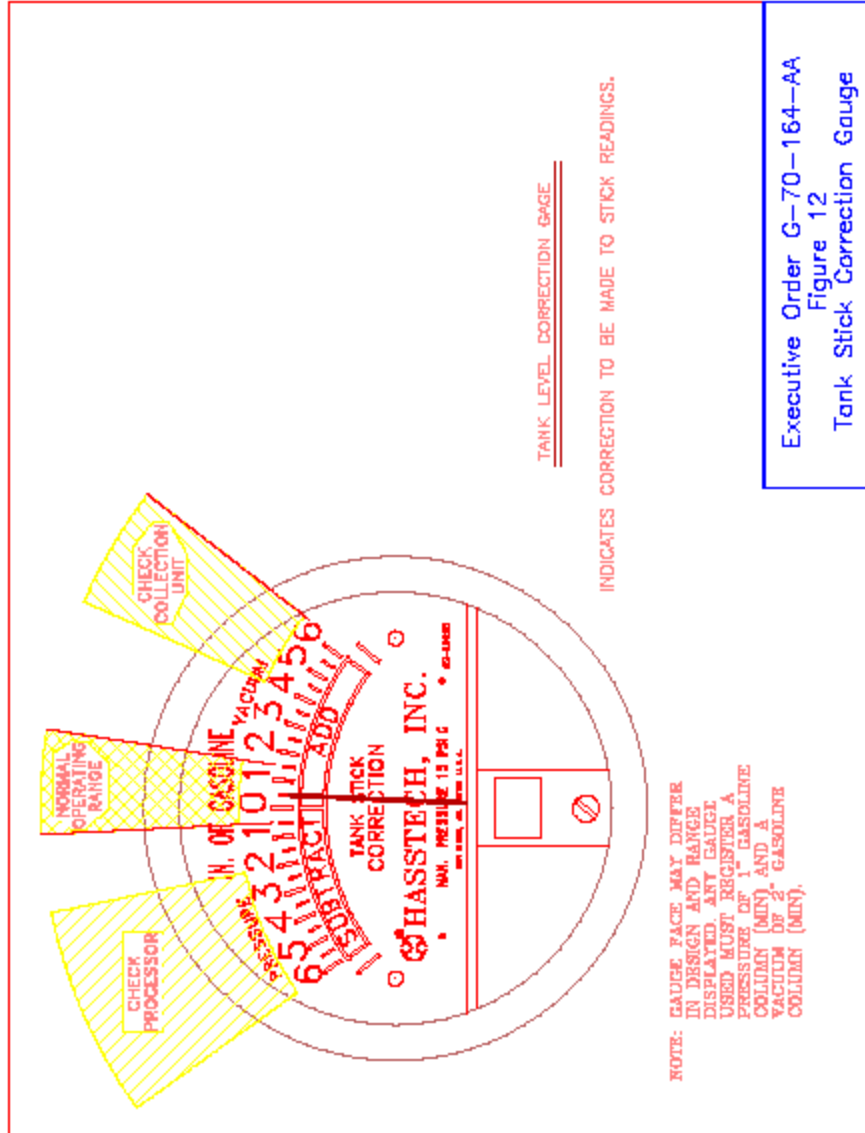
- a. OPW nozzles with less than six (6) and four (4) unobstructed vapor holes for steel and aluminum spouts, respectively.
- b. Husky all vapor holes obstructed.
- c. EW nozzles less than three (3) unobstructed vapor holes.
- d. An EW A4500 nozzle that has any visible punctures or tears of the vapor guard.
- e. Nozzle liquid shutoff mechanisms which malfunction in any manner.
- f. Any nozzle associated with a defective vapor valve verified through test procedures GDF-01 or GDF-03.
- g. 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 of EO G-70-164-AA. Any Emco Wheaton A4505 nozzle with a VG which is completely missing is defective and shall be immediately removed from service.

HOSE REQUIREMENTS

- a. Maximum length of the hose shall be fourteen (14) feet.
- b. Length in contact with island and/or ground when the nozzle is properly mounted shall be limited to six (6) inches.
- c. Breakaway couplings are optional, but if installed only CARB-certified breakaways may be used.

ECS STATUS PANEL ERROR CODE LEGEND

- Code #1: Processing unit error. Indicates that the collection unit/processing unit on-time ratio exceeded 2 to 1.
- Code #2: Not used.
- Code #3: Collection unit relay shorted. Indicates the collection unit solid state relay may be shorted or stuck closed.
- Code #4: Collection unit relay open. Indicates the collection unit solid-state relay may be open.
- Code #5: Illegal flame. Indicates an illegal flame in the processing unit.
- Code #6: Process attempt overflow. Indicates the processor has unsuccessfully tried to ignite 20 consecutive times.
- Code #7: Purge count error. Indicates more than 20 purge counts occurred in one day.
- Code #8: Not used.
- Code #9: Not used.
- Code #10: Processor to solenoid valve ratio error. Indicates the PR/SO ratio is less than 0.90.



Executive Order G-70-164-AA
Figure 12
Tank Stick Correction Gauge