



TECHNICAL SUPPORT DOCUMENT

**Air Discharge Permit 24-3656
Air Discharge Permit Application CL-3271**

Issued: August 15, 2024

FRED MEYER GASOLINE #140 – HAZEL DELL

SWCAA ID – 2466

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Southwest Clean Air Agency

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Appendix A – CARB Executive Order VR-101-N

ABBREVIATIONS

List of Acronyms

ADP	Air Discharge Permit	NESHAP	National Emission Standards for Hazardous Air Pollutants
AP-42	Compilation of Emission Factors, AP-42, 5th Edition, Volume 1, Stationary Point and Area Sources – published by EPA	NSPS	New Source Performance Standard
BACT	Best available control technology	ORVR	Onboard Refueling Vapor Recovery
BART	Best Available Retrofit Technology	PSD	Prevention of Significant Deterioration
CARB	California Air Resources Board	RACT	Reasonably Available Control Technology
CFR	Code of Federal Regulations	RCW	Revised Code of Washington
EPA	U.S. Environmental Protection Agency	SEPA	State Environmental Policy Act
EU	Emission Unit	Standard	Standard conditions at a temperature of 68°F (20°C) and a pressure of 29.92 in Hg (760 mm Hg)
EVR	Enhanced Vapor Recovery	SWCAA	Southwest Clean Air Agency
LAER	Lowest achievable emission rate	T-BACT	Best Available Control Technology for toxic air pollutants
MACT	Maximum Achievable Control Technologies	WAC	Washington Administrative Code

List of Units and Measures

tpy Tons per year

List of Chemical Symbols, Formulas, and Pollutants

CO.....	Carbon monoxide	PM ₁₀	PM with an aerodynamic diameter 10 µm or less
CO ₂	Carbon dioxide		
CO _{2e}	Carbon dioxide equivalent	PM _{2.5}	PM with an aerodynamic diameter 2.5 µm or less
HAP	Hazardous air pollutant listed pursuant to Section 112 of the Federal Clean Air Act	SO ₂	Sulfur dioxide
		SO _x	Sulfur oxides
NO _x	Nitrogen oxides	TAP.....	Toxic air pollutant pursuant to Chapter 173-460 WAC
O ₂	Oxygen		
PM.....	Particulate Matter with an aerodynamic diameter 100 µm or less	VOC.....	Volatile organic compound

Terms not otherwise defined have the meaning assigned to them in the referenced regulations or the dictionary definition, as appropriate.

1. FACILITY IDENTIFICATION

Applicant Name: Fred Meyer Stores, Inc.
Applicant Address: PO Box 42121
Portland, OR 97242
Facility Name: Fred Meyer Gasoline #140 – Hazel Dell
Facility Address: 7400 NE Highway 99
Vancouver, WA 98665
~ 45°40'33.56"N, 122°39' 46.31"W
SWCAA Identification: 2466
Contact Person: Daniel Hermann
Primary Process: Gasoline dispensing
SIC/NAICS Code: 5541: Gasoline service stations
447190 (2012/2017 NAICS): Gas stations without convenience stores
457120 (2022 NAICS): Gas stations without convenience stores
Facility Classification: Natural Minor

2. FACILITY DESCRIPTION

This facility is a retail gasoline dispensing facility adjacent a Fred Meyer retail store.

3. CURRENT PERMITTING ACTION

This permitting action is in response to Air Discharge Permit (ADP) application number CL-3271 received June 13, 2024, requesting removal of the Stage II vapor recovery system.

Air Discharge Permit 15-3142 will be superseded in this permitting action.

4. PROCESS DESCRIPTION

This facility receives unleaded gasoline from tanker trucks for storage in two underground storage tanks. The gasoline storage tanks are equipped with two-point vapor balance systems that return gasoline vapors vented from the underground storage tanks to the tanker truck during filling (Stage I vapor recovery). Gasoline is dispensed from 18 multi-product pumps. Vapors displaced from individual motor vehicle gasoline tanks during filling will not be returned to the gasoline storage tanks (no Stage II vapor recovery).

<u>Products at Pump</u>	<u>Number of Pumps</u>
Blended gasoline through as single hose, diesel through a single hose	10
Blended gasoline through as single hose	8

5. EQUIPMENT/ACTIVITY IDENTIFICATION

5.a. Storage Tanks. The following storage tanks are utilized at the facility:

Tank	Product	Capacity
1	Regular Unleaded	20,000 gallons
2 - 1	Super Unleaded	8,000 gallons
2 - 2	Diesel	10,000 gallons

The gasoline storage tanks are fitted with equipment approved by CARB Executive Order VR-101-N as components of the Franklin Fueling Systems, Inc. Phil-Tite Phase I enhanced vapor recovery system. The following components of the Stage I system have been installed:

Component	Make / Model
Drop Tubes / Overfill Protection	EBW / 782-204
Fill Adapters ¹	Phil-Tite / SWF-100-SS
Fill Caps	EBW / 777-201-02
Vapor Adapters ¹	Phil-Tite / SWV-101-SS
Vapor Caps	EBW / 304-301-01
Extractor Assembly	OPW / 233-4420
Float Vent Valve	OPW / 53VML (note this is an optional component)
Spill Bucket	EBW / Defender series
Pressure / Vacuum Valve	Husky / 5885

¹ This is a two point system.

This facility will not utilize Stage II vapor recovery equipment. The following low permeation hoses and enhanced conventional nozzles will be installed:

Component	Make / Model
Nozzles	OPW / 14E
Hoses and Whip Hoses	Goodyear (ContiTech) / Futura Low-Permeation

5.b. Equipment/Activity Summary.

ID No.	Equipment/Activity	Control Equipment/Measure
1	Retail Gasoline Dispensing Facility	Stage I Vapor Recovery Systems

6. EMISSIONS DETERMINATION

Unless otherwise specified by SWCAA, actual emissions must be determined using the specified input parameter listed for each emission unit and the following hierarchy of methodologies:

(a) Continuous emissions monitoring system (CEMS) data;

- (b) Source emissions test data (EPA reference method). When source emissions test data conflicts with CEMS data for the time period of a source test, source test data must be used;
- (c) Source emissions test data (other test method); and
- (d) Emission factors or methodology provided in this TSD.

Nothing precludes the use, including the exclusive use of any credible evidence or information relevant to identifying or quantifying emissions if such credible evidence provides more accurate identification or quantification of actual emissions than other available information.

- 6.a. Gasoline Vapors. Total potential VOC emissions from the facility were estimated using the following emission factors from the California Air Resources Board December 23, 2013, document "Revised Emission Factors for Gasoline Marketing Operations at California Gasoline Dispensing Facilities":

Emission Source	VOC Emission Factor (lb/1,000 gallons of fuel)
Loading – Stage I Controlled (EVR)	0.150
Breathing – Controlled with P/V Valve	0.092
Uncontrolled Refueling – Stage II uncontrolled (non ORVR Vehicles, no Stage II)	0.84 ¹
Controlled Refueling (ORVR vehicles, no Stage II)	0.151 ²
Spillage (ECO nozzles)	0.240
Hose Permeation (low permeation)	0.009
Total	1.482

¹ Based on 90% of the gasoline being dispensed to vehicles equipped with carbon canisters (ORVR). The base emission factor, assuming no ORVR vehicles, is 8.400 lb/1,000 gallons. 10% of the vehicles are not equipped with ORVR: 8.4 lb/1,000 gallons * (1-0.90) = 0.84 lb/1,000 gallons.

² This is the amount of vapor released during refueling that is attributable to those vehicles equipped with carbon canisters (ORVR) assuming carbon canisters provide for 98% control. 8.400 lb/1,000 gallons * 90% of gas dispensed to vehicles with ORVR * (2% of vapors not captured by the canister) = 0.151 lb/1,000 gallons.

The above calculations assume that 90% of the fuel is dispensed to vehicles equipped with onboard refueling vapor recovery (ORVR). SWCAA expects this level was met in Clark County in 2020 and will be met a few years later in Cowlitz, Lewis, Skamania, and Wahkiakum counties.

At a throughput of 6,4500,000 gallons of gasoline per year, the facility would emit 4.78 tons of volatile organic compounds. Based on EPA Speciate 3.2 profile number 2455, approximately 50.0% of the total VOC emissions are toxic air pollutants (TAPs) as defined by WAC 173-460 (as in effect August 21, 1998), and approximately 12.9% of the total VOC emissions are federally listed hazardous air pollutants (HAPs). For a throughput of

6,450,000 gallons per year, TAP and HAP emission rates are estimated at 2.39 tons per year, and 0.62 tons per year respectively.

6.b. Emissions Summary

Air Pollutant	Potential to Emit (tpy)	Project Impact (tpy)
NO _x	0	0
CO	0	0
VOC	4.78	1.23
SO ₂	0	0
PM	0	0
PM ₁₀	0	0
PM _{2.5}	0	0
CO ₂ /CO _{2e}	0	0
Toxic Air Pollutants	2.39	0.62
Hazardous Air Pollutants	0.62	0.16

¹ Based on 90% of fuel dispensed to ORVR-equipped vehicles, removal of Stage II vapor recovery at this facility, in combination with adding ECO nozzles and low permeation hoses. The magnitude of the project impact presented here assumes a gasoline throughput of 6,450,000 gallons per year.

7. REGULATIONS AND EMISSION STANDARDS

Regulations have been established for the control of emissions of air pollutants to the ambient air. Regulations applicable to the proposed facility that have been used to evaluate the acceptability of the proposed facility and establish emission limits and control requirements include, but are not limited to, the following regulations, codes, or requirements. These items establish maximum emissions limits that could be allowed and are not to be exceeded for new or existing facilities. More stringent limits are established in this ADP consistent with implementation of Best Available Control Technology (BACT):

7.a. Title 40 Code of Federal Regulations (CFR) Part 63.11110 et seq. Subpart CCCCCC "National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities" establishes emission control, testing, recordkeeping and reporting requirements for new and existing gasoline dispensing facilities. Which requirements apply to a specific facility depend upon when the facility began operation and the monthly throughput. This facility began operation after January 10, 2008 and has a potential throughput of 100,000 gallons per month or more. Facilities with a throughput of 100,000 gallons per month or more that begin operation after January 10, 2008 must comply with requirements found in Table 1 of Subpart CCCCCC including:

- (1) All vapor connections and lines on the storage tank shall be equipped with closures that seal upon disconnection;

- (2) The vapor line from the gasoline storage tank to the gasoline cargo tank shall be vapor tight;
- (3) The vapor balance system shall be designed such that the pressure in the tank truck does not exceed 18" w.c. pressure or 5.9" w.c. vacuum during product transfer;
- (4) The vapor recovery and product adaptors, and the method of connection with the delivery elbow, shall be designed so as to prevent the over-tightening or loosening of fittings during normal delivery operations;
- (5) Liquid fill connections for all systems shall be equipped with vapor-tight caps;
- (6) Pressure/vacuum vent valves shall be installed on the storage tank vent pipes. The positive pressure setting shall be 2.5" w.c. to 6" w.c. and the negative pressure setting shall be 6" w.c. to 10" w.c. The total leak rate for all pressure/vacuum valves at an affected facility, including connections, shall not exceed 0.17 cubic foot per hour at a pressure of 2.0" w.c. and 0.63 cubic foot per hour at a vacuum of 4" w.c.;
- (7) The vapor balance system shall be capable of meeting the static pressure performance requirement found in Table 1 of Subpart CCCCCC; and
- (8) Each new or existing gasoline storage tank shall be equipped with a dual-point vapor balance system.

In addition, the facility must conduct testing as required by 40 CFR 63.11120, provide notifications as required by 40 CFR 63.11124, and maintain records and report as required by 40 CFR 63.11125 and 63.11126.

- 7.b. Title 40 CFR Part 1090 "Regulation of Fuels, Fuel Additives, and Regulated Blendstocks" in section 1090.1550(b) requires that the flow through any nozzle dispensing gasoline into motor vehicles be limited so as not to exceed a maximum value of 10 gallons per minute.
- 7.c. Revised Code of Washington (RCW) 70A.15.2040 empowers any activated air pollution control authority to prepare and develop a comprehensive plan or plans for the prevention, abatement and control of air pollution within its jurisdiction. An air pollution control authority may issue such orders as may be necessary to effectuate the purposes of the Washington Clean Air Act (RCW 70A.15) and enforce the same by all appropriate administrative and judicial proceedings subject to the rights of appeal as provided in Chapter 62, Laws of 1970 ex. sess.
- 7.d. RCW 70A.15.2210 provides for the inclusion of conditions of operation as are reasonably necessary to assure the maintenance of compliance with the applicable ordinances, resolutions, rules and regulations when issuing an ADP for installation and establishment of an air contaminant source.
- 7.e. Washington Administrative Code (WAC) 173-460 "Controls for New Sources of Toxic Air Pollutants" requires Best Available Control Technology for toxic air pollutants (T-BACT), identification and quantification of emissions of toxic air pollutants and demonstration of protection of human health and safety from new sources not provided an exemption under WAC 173-460-030. Gasoline dispensing facilities are exempt from the provisions of WAC 173-460.

- 7.f. WAC 173-476 "Ambient Air Quality Standards" establishes ambient air quality standards for PM₁₀, PM_{2.5}, lead, SO₂, NO_x, ozone, and CO in the ambient air, which must not be exceeded.
- 7.g. SWCAA 400-040 "General Standards for Maximum Emissions" requires all new and existing sources and emission units to meet certain performance standards with respect to Reasonably Available Control Technology (RACT), visible emissions, fallout, fugitive emissions, odors, emissions detrimental to persons or property, SO₂, concealment and masking, and fugitive dust.
- 7.h. SWCAA 400-040(3) "Fugitive Emissions" requires that reasonable precautions be taken to prevent the fugitive release of air contaminants to the atmosphere.
- 7.i. SWCAA 400-040(4) "Odors" requires any source which generates odors that may unreasonably interfere with any other property owner's use and enjoyment of their property to use recognized good practice and procedures to reduce these odors to a reasonable minimum.
- 7.j. SWCAA 400-109 "Air Discharge Permit Applications" requires that an ADP application be submitted for all new installations, modifications, changes, or alterations to process and emission control equipment consistent with the definition of "new source." Sources wishing to modify existing permit terms may submit an ADP application to request such changes. An ADP must be issued, or written confirmation of exempt status must be received, before beginning any actual construction, or implementing any other modification, change, or alteration of existing equipment, processes, or permits.
- 7.k. SWCAA 400-110 "New Source Review" requires that SWCAA issue an ADP in response to an ADP application prior to establishment of the new source, emission unit, or modification.
- 7.l. SWCAA 400-111 "Requirements for Sources in a Maintenance Plan Area" requires that no approval to construct or alter an air contaminant source will be granted unless it is evidenced that:
- (1) The equipment or technology is designed and will be installed to operate without causing a violation of the applicable emission standards;
 - (2) Emissions will be minimized to the extent that the new source will not exceed emission levels or other requirements provided in the maintenance plan;
 - (3) BACT will be employed for all air contaminants to be emitted by the proposed equipment;
 - (4) The proposed equipment will not cause any ambient air quality standard to be exceeded; and
 - (5) If the proposed equipment or facility will emit any toxic air pollutant regulated under WAC 173-460, the proposed equipment and control measures will meet all the requirements of that Chapter.

The facility is located in a maintenance plan area; therefore, this regulation applies to the facility.

7.m. SWCAA 491-040(4) "Gasoline Vapor Control Requirements – Gasoline Dispensing Facilities" establishes the following requirements:

- (1) All gasoline dispensing facilities with an annual gasoline throughput greater than two hundred thousand (200,000) gallons in Clark County and three hundred sixty thousand (360,000) gallons in Cowlitz, Lewis, Skamania and Wahkiakum Counties shall be subject to gasoline Stage I vapor control requirements;
- (2) All gasoline dispensing stations subject to this section shall be equipped with submerged or bottom fill lines and fittings to balance gasoline vapors with the delivery transport tank;
- (3) The owner or operator of a gasoline dispensing facility subject to this section shall not permit the loading of gasoline into a storage tank equipped with vapor recovery equipment from a transport tank equipped with vapor recovery fittings unless Stage I vapor recovery equipment is attached to the transport tank and operated satisfactorily;
- (4) Every retailer and wholesale purchaser-consumer shall equip each pump from which gasoline is dispensed into motor vehicles with a nozzle that dispense fuel at a flow rate not to exceed 10 gallons per minute;
- (5) Stage II vapor recovery equipment compatible with ORVR may be removed from service beginning January 1, 2023 after an Air Discharge Permit has been issued for the modification; and
- (6) New gasoline dispensing facilities (built after February 7, 2020), or existing gasoline dispensing facilities without Stage II vapor recovery, are not required to install Stage II vapor recovery equipment.

8. RACT/BACT/BART/LAER/PSD/CAM DETERMINATIONS

The proposed equipment and control systems incorporate BACT for the types and amounts of air contaminants emitted by the processes as described below:

8.a. Retail Gasoline Dispensing Facility. SWCAA has determined that Best Available Control Technology for the control of gasoline vapors emitted from new gasoline dispensing facilities with a throughput of more than 200,000 gallons per year in Clark County consists of EVR Stage I vapor recovery equipment as tested and approved by CARB, enhanced conventional nozzles (where Stage II is not in place), and low permeation hoses if liquid gasoline is carried against the outermost hose wall.

The applicant will utilize Stage I enhanced vapor recovery equipment, low permeation hoses, and enhanced conventional nozzles. This configuration meets the requirements of BACT.

8.b. PSD Applicability. Maximum potential emissions from this facility are well below PSD thresholds; therefore, PSD permitting is not required.

- 8.c. Compliance Assurance Monitoring (CAM) Applicability Determination. CAM is not applicable to any emission unit at this source because it is not a major source and is not required to obtain a Part 70 permit.

9. AMBIENT IMPACT ANALYSIS

- 9.a. The retail gasoline dispensing facility equipped with Stage I enhanced vapor recovery systems, ECO nozzles, and low permeation hoses will not cause the ambient air quality standards established by Title 40 Code of Federal Regulations Part 50 (40 CFR 50), "National Primary and Secondary Ambient Air Quality Standards" to be violated.
- 9.b. The retail gasoline dispensing facility equipped with Stage I enhanced vapor recovery systems, ECO nozzles, and low permeation hoses, if properly installed and maintained, can be operated without causing a violation of the applicable emission standards which include the limits established under SWCAA 400-040 "General Standards for Maximum Emissions."
- 9.c. The retail gasoline dispensing facility equipped with Stage I enhanced vapor recovery systems, ECO nozzles, and low permeation hoses will not cause the requirements of WAC 173-476 "Ambient Air Quality Standards" to be violated.

10. DISCUSSION OF APPROVAL CONDITIONS

SWCAA has made a determination to issue ADP 24-3656 in response to ADP application CL-3271. ADP 24-3656 contains approval requirements deemed necessary to assure compliance with applicable regulations and emission standards, as discussed below.

- 10.a. Supersession of Previous Permits. ADP 15-3142 will be superseded in its entirety.
- 10.b. Emission Limits. An annual VOC emission limit of 4.78 tons per year was established. This limit is based upon the facility utilizing properly operated Stage I enhanced vapor recovery systems, enhanced conventional nozzles, low permeation hoses, dispensing 90% of the fuel to ORVR-equipped vehicles, and a gasoline throughput of 6,450,000 gallons per year.
- 10.c. Operational Limits and Requirements. Consistent with SWCAA 400-040(4), the permittee is required to use recognized good practice and procedures to minimize odors that impact other property owners.

The gasoline throughput was limited to 6,450,000 gallons per year. At higher throughputs the facility would be required to increase the frequency of vapor recovery testing.

The remaining requirements are related to proper operation of the Stage I vapor recovery systems, the use of low permeation hoses and enhanced conventional nozzles.

- 10.d. Monitoring and Recordkeeping Requirements. The permittee is required to record each occurrence of maintenance and repairs to vapor recovery equipment so that SWCAA and the permittee can assure that maintenance and repairs are consistent with approved vapor recovery requirements.
- 10.e. Reporting Requirements. Total gasoline throughput and the annual emissions inventory are required to be submitted to SWCAA by January 31st of each year (unless otherwise directed by SWCAA) to demonstrate compliance with the throughput limitation in the permit and allow for the development of a comprehensive emissions inventory. Test results must be reported to SWCAA within 14 days of test completion consistent with CARB and SWCAA reporting requirements.

11. START-UP AND SHUTDOWN/ALTERNATIVE OPERATING SCENARIOS/POLLUTION PREVENTION

- 11.a. Start-up and Shutdown Provisions. Pursuant to SWCAA 400-081 "Start-up and Shutdown," technology-based emission standards and control technology determinations shall take into consideration the physical and operational ability of a source to comply with the applicable standards during start-up or shutdown. Where it is determined that a source is not capable of achieving continuous compliance with an emission standard during start-up or shutdown, SWCAA shall include appropriate emission limitations, operating parameters, or other criteria to regulate performance of the source during start-up or shutdown.

This source is capable of achieving continuous compliance with all applicable requirements; therefore, no start-up or shutdown provisions were included in the ADP.

- 11.b. Alternate Operating Scenarios. SWCAA conducted a review of alternate operating scenarios applicable to equipment affected by this permitting action. The permittee did not propose or identify any applicable alternate operating scenarios. Therefore, none were accommodated by the approval conditions.
- 11.c. Pollution Prevention Measures. SWCAA conducted a review for possible pollution prevention measures outside of the use of Stage I vapor recovery equipment, low permeation hoses, and enhanced conventional nozzles. As indicated in Section 8, Stage II vapor recovery equipment was not necessary to meet the requirements of BACT. No other pollution prevention measures were identified by either the permittee or SWCAA. Therefore, none were accommodated in the approval conditions.

12. EMISSION MONITORING AND TESTING

In accordance 40 CFR 63 Subpart CCCCCC, and SWCAA 491-040(4)(n) that became effective February 7, 2020, testing of each pressure-vacuum vent valve is required every 36 months and Stage I vapor recovery testing is required annually. New pressure/vacuum vent valves are typically tested at the factory, therefore initial testing does not apply to new valves with a factory test. In

accordance with SWCAA 491, initial vapor recovery testing is required prior to placing the equipment back into service rather than within 60 days after startup as specified in the applicable CARB Executive Order.

For the static pressure decay test, TP-201.3 does not provide an allowable final pressure for stations without Stage II vapor recovery. Therefore, the allowable final pressure equation from 40 CFR 63 Subpart CCCCCC was included in the permit.

13. FACILITY HISTORY

- 13.a. Previous Permitting Actions. The following approvals, Permits, and Orders have been issued for this facility:

Permit / Order #	Application #	Date Issued	Description
15-3142	CL-2046	6/17/2015	Approval for a new gas station utilizing EVR Stage I and ORVR compatible vacuum-assist style Stage II vapor recovery systems.

Bold font indicates that the Air Discharge Permit was superseded or no longer in effect upon issuance of Air Discharge Permit 24-3656.

- 13.b. Compliance History. No compliance issues have been identified for this facility within the past five years.

14. PUBLIC INVOLVEMENT OPPORTUNITY

- 14.a. Public Notice for ADP Application CL-3271. Public notice for ADP application CL-3271 was published on the SWCAA website for a minimum of 15 days, beginning on June 20, 2024.
- 14.b. Public/Applicant Comment for ADP Application CL-3271. SWCAA did not receive specific comments, a comment period request, or any other inquiry from the public or the applicant regarding ADP application CL-3271. Therefore, no public comment period was provided for this permitting action.
- 14.c. State Environmental Policy Act. This project is exempt from SEPA requirements pursuant to WAC 197-11-800(3) since it only involves repair, remodeling, maintenance, or minor alteration of existing structures, equipment or facilities, and does not involve material expansions or changes in use. SWCAA issued a determination that the project is exempt from SEPA review on August 15, 2024 (Determination of SEPA Exempt - SWCAA 24-029).

Appendix A

CARB Executive Order VR-101-N

**Franklin Fueling Systems, Inc.
Phil-Tite Phase I Vapor Recovery System**

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER VR-101-N

Relating to Certification of Vapor Recovery Systems

Franklin Fueling Systems, Inc.
Phil-Tite Phase I Vapor Recovery System

WHEREAS, the California Air Resources Board (ARB) has established, pursuant to California Health and Safety Code sections 25290.1.2, 39600, 39601 and 41954, certification procedures for systems designed for the control of gasoline vapor emissions during the filling of underground gasoline storage tanks, in its **CP-201, Certification Procedure for Vapor Recovery Systems at Gasoline Dispensing Facilities** (Certification Procedure) as last amended January 9, 2013, incorporated by reference in title 17, California Code of Regulations, section 94011;

WHEREAS, ARB has established, pursuant to California Health and Safety Code sections 39600, 39601, 39607, and 41954, test procedures for determining the compliance of Phase I vapor recovery systems with emission standards;

WHEREAS, Franklin Fueling Systems, Inc. (FFS) requested and was granted certification of the Phil-Tite Phase I Vapor Recovery System (Phil-Tite system) pursuant to the Certification Procedure on June 19, 2001 by Executive Order VR-101-A, and last modified on May 24, 2012, by Executive Order VR-101-M;

WHEREAS, FFS requested certification of the "Defender Series" spill containers designed for use in both direct bury and secondarily contained underground storage tank riser configurations;

WHEREAS, the Phil-Tite system certification expires on May 31, 2013;

WHEREAS, the Certification Procedure authorizes the Executive Officer or Executive Officer delegate to renew the certification of the Phil-Tite system if an evaluation determines that there are no identified deficiencies;

WHEREAS, the Certification Procedure provides that the ARB Executive Officer shall issue an Executive Order if he or she determines that the vapor recovery system, including modifications, conforms to all of the applicable requirements set forth in the Certification Procedures;

WHEREAS, G-01-032 delegates to the Chief of the Monitoring and Laboratory Division the authority to certify or approve modifications to certified Phase I and Phase II vapor recovery systems for gasoline dispensing facilities (GDF); and

WHEREAS, I, Michael T. Benjamin, Chief of the Monitoring and Laboratory Division, find that the Phil-Tite Phase I Vapor Recovery System, including FFS "Defender Series" spill containers, conforms with all of the requirements set forth in the Certification Procedure, and results in a vapor recovery system which is at least 98.0 percent efficient as tested in accordance with test procedure **TP-201.1, Volumetric Efficiency for Phase I Systems (July 26, 2012)**;

NOW, THEREFORE, IT IS HEREBY ORDERED that the Phil-Tite system is certified to be at least 98.0 percent efficient when installed and maintained as specified herein and in the following exhibits. Exhibit 1 contains a list of the certified components. Exhibit 2 contains the performance standards and specifications, typical installation drawings and maintenance intervals for the Phil-Tite system as installed in a gasoline dispensing facility (GDF). Exhibit 3 contains the manufacturing specifications. Exhibit 4 contains the manufacturer warranties.

IT IS FURTHER ORDERED that compliance with the applicable certification requirements, rules and regulations of the Division of Measurement Standards of the Department of Food and Agriculture, the Office of the State Fire Marshal of the Department of Forestry and Fire Protection, the Division of Occupational Safety and Health of the Department of Industrial Relations, and the Division of Water Quality of the State Water Resources Control Board are made conditions of this certification.

IT IS FURTHER ORDERED that each component manufacturer listed in Exhibit 1 shall provide a warranty for the vapor recovery component(s) to the initial purchaser. The warranty shall be passed on to each subsequent purchaser within the warranty period. The warranty shall include ongoing compliance with all applicable performance standards and specifications, and shall comply with all warranty requirements in section 16.5 of the Certification Procedure. Manufacturers may specify that the warranty is contingent upon the use of trained installers. The manufacturer warranty tag, included with each component, shall be provided to the service station owner/operator at the time of installation.

IT IS FURTHER ORDERED that the certified Phil-Tite system shall be installed, operated and maintained in accordance with the **ARB-Approved Installation, Operation and Maintenance Manual for the Phil-Tite Phase I Vapor Recovery System as Certified by Executive Order VR-101-N** (IOM). Equipment shall be inspected at the interval specified and per the procedures identified in the IOM. A copy of the Executive Order and the IOM shall be maintained at each GDF where a certified Phil-Tite system is installed.

IT IS FURTHER ORDERED that equipment listed in Exhibit 1, unless exempted, shall be clearly identified by a permanent identification showing the manufacturer's name, model number, and serial number.

IT IS FURTHER ORDERED that any alteration in the equipment, parts, design, installation or operation of the system provided in the manufacturer's certification application or documents and certified hereby is prohibited and deemed inconsistent with this certification, unless the alteration has been submitted in writing and approved in writing by the Executive Officer or Executive Officer's delegate.

IT IS FURTHER ORDERED that the following requirements be made a condition of certification. The owner or operator of the Phil-Tite system shall conduct, and pass, the following tests no later than 60 days after startup and at least once every three (3) years after startup testing, using the following test procedures: **TP-201.3, Determination of 2 Inch WC Static Pressure Performance of Vapor Recovery Systems of Dispensing Facilities (July 26, 2012)**, **TP-201.1B, Static Torque of Rotatable Phase I Adaptors (October 8, 2003)** and depending on the system configuration, either **TP-201.1D, Leak Rate of Drop Tube Overfill Prevention Device and Spill Container Drain Valve (October 8, 2003)**; or **TP-201.1C, Leak Rate of Drop Tube/Drain Valve Assembly (October 8, 2003)**. Shorter time periods may be specified in

accordance with local district requirements. Notification of testing, and submittal of test results, shall be done in accordance with local district requirements and pursuant to the policies established by that district. Local districts may require the use of alternate test form(s), provided they include the same minimum parameters identified in the datasheet referenced in the test procedure(s). Alternative test procedures, including the most recent versions of the test procedures listed above, may be used if determined by the Executive Officer or Executive Officer delegate, in writing, to yield comparable results. Testing the Pressure/Vacuum (P/V) Vent valve will be at the option of the local districts. If P/V valve testing is required by the district, the test shall be conducted in accordance with **TP-201.1E, Leak Rate and Cracking Pressure of Pressure/Vacuum Vent Valves (October 8, 2003)** and Exhibit 2.

IT IS FURTHER ORDERED that the Phil-Tite system shall be compatible with gasoline in common use in California at the time of certification, including E-85 (85% ethanol/15% gasoline) for specific components listed in Exhibit 1. Any modifications to comply with future California gasoline requirements shall be approved in writing by the Executive Officer or Executive Officer delegate.

IT IS FURTHER ORDERED that GDF installations permitted for E-85 fuel that use the PV-Zero-E85 Pressure/Vacuum Vent Valve shall be subject to a throughput limitation of 1.2 million gallons per year (100,000 gallons per month).

IT IS FURTHER ORDERED that the certification of the Phil-Tite Phase I Vapor Recovery System is renewed and is valid through May 31, 2017.

IT IS FURTHER ORDERED that Executive Order VR-101-M issued on May 24, 2012, is hereby superseded by this Executive Order. Phil-Tite Phase I Vapor Recovery Systems certified under Executive Orders VR-101-A to M may remain in use at existing installations. This Executive Order shall apply to new installations or major modification of the Phase I system of existing gasoline dispensing facilities.

Executed at Sacramento, California, this 8th day of June 2013.



Michael T. Benjamin, Chief
Monitoring and Laboratory Division

Attachments:

- Exhibit 1 Phil-Tite Phase I Vapor Recovery System Equipment List
- Exhibit 2 Installation, Maintenance and Compliance Specifications
- Exhibit 3 Manufacturing Performance Standards and Specifications
- Exhibit 4 Manufacturer Warranties

EXHIBIT 1
Phil-Tite Phase I Vapor Recovery System Equipment List

NOTE:

(Gas/E85) = Identifies that these components are approved for standard gasoline and E85 fuel blends.

(Gas) = Identifies that these components are only approved for standard gasoline fuel blends.

Equipment

Manufacturer/Model Number

**Spill Container
(Phil-Tite Series)**

Phil-Tite 85000 Series (Gas/E85)
or
Phil-Tite 85000-1 Series (Gas/E85)

85000 and 85000 1 series legend:
85W0X-YYY-ZZZ (85000 series)
85W0X-1YYY-ZZZ (85000 1 series)

W represented by:

0 = preassembled spill container assembly
1 = replacement spill container

X represented by:

0 = product spill container
1 = vapor spill container

YYY represented by:

15 = 15 gallon capacity
EXT = external for sump configuration
(not available for 85000 1 series)
NV = Vapor (replacement spill container)
F = Product (replacement spill container)
S = Stainless Steel (SS) Sleeve
GS = Stainless Steel (SS) Sleeve and Gravel Shield

ZZZ represented by:

15 = 15 gallon capacity
EXT = external for sump configuration
(not available for 85000 1 series)
NV = Vapor (replacement spill container)
F = Product (replacement spill container)
S = Stainless Steel (SS) Sleeve
GS = Stainless Steel (SS) Sleeve and Gravel Shield

Exhibit 1 (Continued)

Equipment

Manufacturer/Model Number

Spill Container (Defender Series)

EBW Defender 705 Series* (Gas)

Defender 705 Series Legend
705-5XY-ZAB where XY-ZAB is represented by:

X = containment

4 = single wall

5 = double wall

Y = installation

2 = multiport bucket (GAS)

5 = direct bury (GAS)

Z = interstitial monitoring method

0 = no sensor/gauge (i.e. single wall)

1 = I2 monitor (float gauge, visual)

2 = TSP-ULS (electronic sensor)

A = spill container base thread**

0 = NPSM (straight thread)

1 = NPT (taper thread)

B = drain valve

1 = with drain valve (required on product/fill side)

2 = without drain valve (required on vapor side)

*May be installed in direct bury or multi-port configurations including single fill or double tank riser orientations.

**NPSM base thread spill containers (straight thread) are designed for use with the Phil-Tite M/F 4X4 Riser Adaptor at sites where the NPT threads of the tank riser are not cut flat or square. NPT base spill containers (taper thread) do not require use of Phil Tite M/F Riser Adaptor at sites where the NPT threads of the tank riser are flat and cut square.

Spill Container Lid (Phil-Tite Series Spill Containers)

Phil-Tite 85011* (Gas/E85)

*Not required with sump configuration lid, see Figure 2E in Exhibit 2

Spill Container Lid (Defender Series Spill Containers)

EBW 7054401X (Gas/E85)

Where X = Lid Color

1 = Black

2 = White

3 = Red

5 = Yellow

7 = Orange

Exhibit 1 (Continued)

<u>Equipment</u>	<u>Manufacturer/Model Number</u>
Replacement Drain Valve (Phil-Tite Series Spill Containers)	Phil-Tite 85400 (Gas/E85)
Replacement Drain Valve (Defender Series Spill Containers)	EBW 70533729 (Gas)
Debris Bucket (Phil-Tite Series Spill Containers)	Phil-Tite PP-1005 TB (Gas/E85) (product) (not required) Phil-Tite PP-1005 TBP (Gas/E85) (vapor) (not required)
Product Adaptor	Phil-Tite SWF-100-B(Gas) Phil-Tite SWF-100-SS (Gas/E85)
Vapor Adaptor	Phil-Tite SWV-101-B (Gas) Phil-Tite SWV-101-SS (Gas/E85)
Riser Adaptor	Phil-Tite M/F 4X4* (Gas/E85) Phil-Tite M/F 4X4-R* (Gas/E85)
* Required for use with "Phil-Tite Series" spill containers and for "Defender Series" spill containers with NPSM (straight thread) base. Not used for "Defender Series" spill containers with tapered (NPT) thread base.	
Riser Support Bracket	Phil Tite M 1600 (Gas/E85)
Drop Tube Riser Clamp (Defender Series Spill Containers)	FFS 70550901EC (Gas)

Exhibit 1 (Continued)

<u>Equipment</u>	<u>Manufacturer/Model Number</u>
Dust Cap	Morrison Brothers 323C-0100ACEVR (vapor) (Gas/E85) Morrison Brothers 305C-0100ACEVR (product)(Gas/E85) OPW 1711T-EVR (vapor) (Gas/E85) OPW 634TT-EVR (product) (Gas/E85) OPW 634LPC (product) (Gas) OPW 1711LPC (vapor) (Gas) CompX CSP1-634LPC (product) (Gas) CompX CSP3-1711LPC (vapor) (Gas) CompX CSP2-634LPC (product) (Gas) CompX CSP4-1711LPC (vapor) (Gas) EBW 777-201-02 (product) (Gas) EBW 777-202-02 (product) (Gas/E85) EBW 304 301 XX (vapor) (Gas) EBW 304-200-XX (vapor) (Gas) XX indicates presence of security chain: 01= no chain 02= with chain EBW 304-301-YY (vapor) (Gas/E85) YY indicates presence of security chain: 03= no chain 04= with chain
Pressure/Vacuum Vent Valve	FFS PV-Zero (Gas/E85) Husky 5885 (Gas)
Tank Gauge Port Components	Veeder-Root 312020-952 (cap and adaptor kit) (Gas/E85) Morrison Brothers 305XPA1100AKEVR (cap and adaptor kit) (Gas/E85) Morrison Brothers 305-0200AAEVR (replacement adaptor) (Gas/E85) Morrison Brothers 305XP-110ACEVR (replacement cap) (Gas/E85) EBW 90037-E (In Tank Probe Cap and Adapter Kit) (Gas/E85) EBW 90037 (In Tank Probe Cap and Adaptor Kit) (Gas)

Exhibit 1 (Continued)

<u>Equipment</u>	<u>Manufacturer/Model Number</u>
Drop Tube Overfill Prevention Device¹	Phil Tite 61SO-PT (Gas) EBW 708 49X 1Y (Gas) EBW 708-49X-3Y (Gas/E85) X represented by: 1 = 5 foot length upper drop tube section 2 = 10 foot length upper drop tube section Y represented by: 1 = 8 foot length bottom thread on section drop tube 2 = 10 foot length bottom thread on section drop tube
Drop Tube¹	OPW 61-T (various lengths) (Gas) EBW 782-204-3X2 (Gas/E85) (Note: 4 inch diameter tube) X represented by: 0 = 10 feet 2 = 12 feet
Riser Offset¹	Phil-Tite M-6050 (Gas/E85)
Double Fill¹ Tank Riser Configuration	Phil Tite (configuration only) (Gas/E85)
Tank Bottom Protector¹	Phil-Tite TBP-3516 (Gas) Phil-Tite TBP-3516-E (Gas/E85)

¹ If these components are installed or required by regulations of other agencies, only those components and model numbers specified above shall be installed or used.

Exhibit 1 (Continued)

Table 1
Components Exempt from Identification Requirements

Component Name	Manufacturer	Model Number
Drop Tube	OPW EBW	61-T Straight Drop Tube (Gas) 782-304-3X2 (Gas/E85)
Dust Caps	Morrison Brothers	323C-0100ACEVR (vapor)* (Gas/E85) 305C-0100ACEVR (product)* (Gas/E85)
Tank Gauge Port Components	Veeder-Root	312020-952 (cap & adaptor) (Gas/E85)
	Morrison Brothers	305XPA1100AKEVR (cap and adaptor kit) (Gas/E85) 305-0200AAEVR (replacement adaptor) (Gas/E85) 305XP-1100ACEVR (replacement cap) (Gas/E85)
	EBW	90037 (In Tank Probe Cap and Adaptor Kit) (Gas) 90037-E (In Tank Probe Cap and Adaptor Kit) (Gas/E85)
Riser Adaptor	Phil-Tite	M/F 4X4 (Gas/E85)
Riser Offset	Phil-Tite	M-6050 (Gas/E85)
Riser Support Bracket	Phil-Tite	M-1600 (Gas/E85)
Spill Container Lid	Phil-Tite EBW	85011 (Gas/E85) 7054401X (Gas/E85)
Sump/Sump Lids	Varies	Varies (Gas/E85)
Drop Tube Riser Clamp	FFS	70550901EC (Gas)
Replacement Drain Valve	EBW	EBW 70533729

* Morrison Brothers dust caps identified as 323C EVR and 305C EVR respectively.

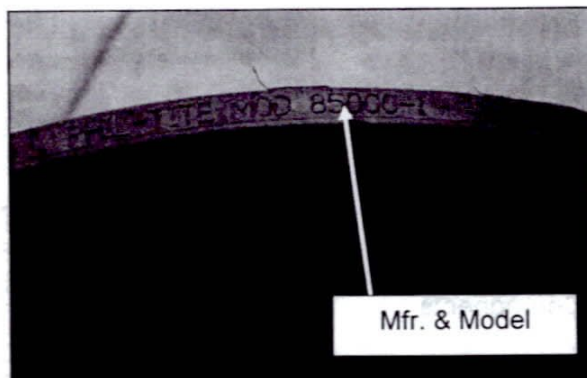
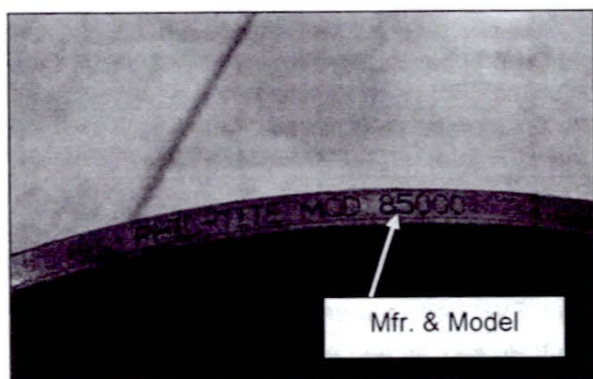
The components in Table 2 may not be installed as a new or replacement part on or after September 1, 2002. These components, if installed prior to September 1, 2002, may be used for the remainder of their useful life.

Table 2

Component Name	Manufacturer	Model Number
Drop Tube	EBW	782-204 (various lengths) (Gas)
	Emco Wheaton	A0020 (various lengths) (Gas)

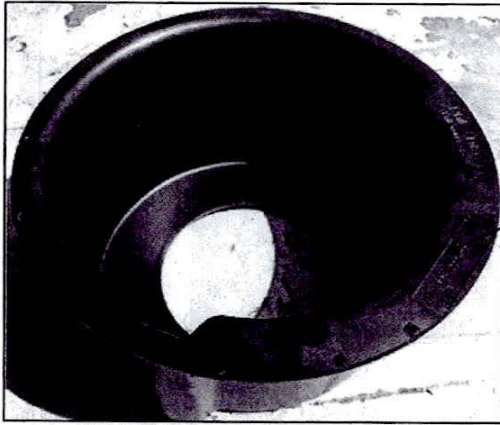
Exhibit 1 (Continued)

Component Identification and Location

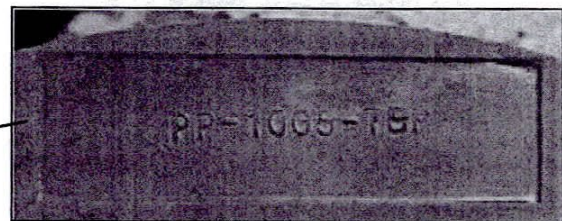
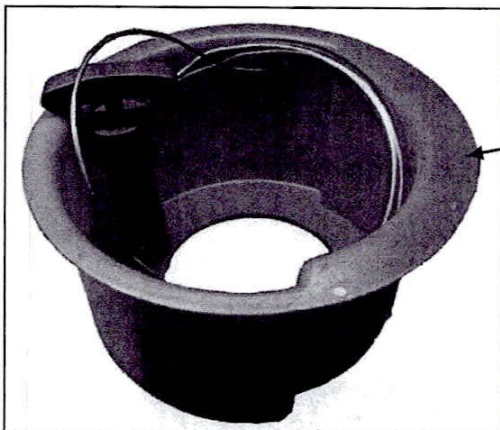


Phil-Tite Model 85000 and 85000-1 Spill Containers

Exhibit 1 (Continued)



**Phil-Tite Model PP-1005-TB
Product Debris Bucket**



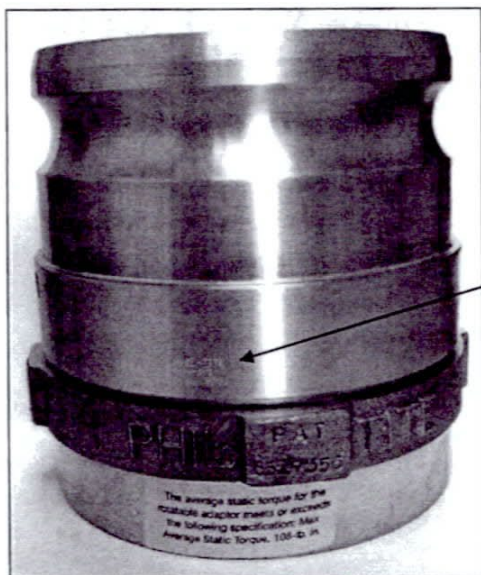
**Phil-Tite Model PP-1005-TBP
Vapor Debris Bucket**

Exhibit 1 (Continued)

Component Identification and Location



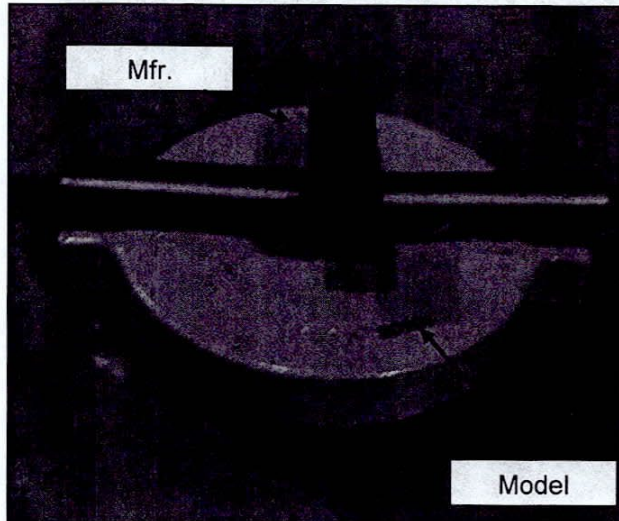
Phil-Tite Model SWF-100-B
Product Adaptor



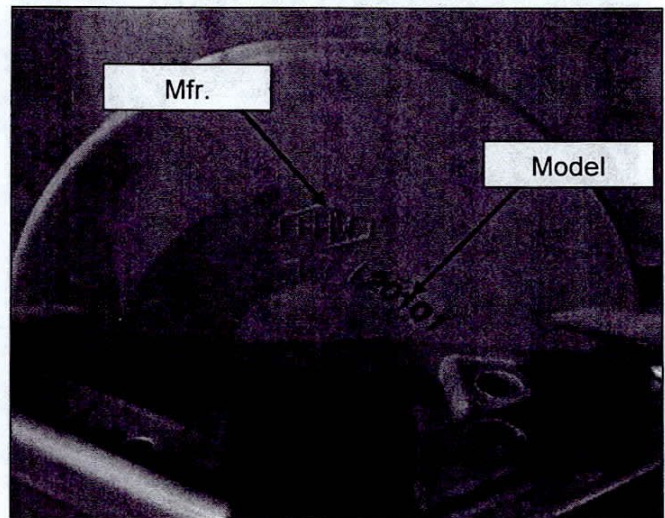
Phil-Tite Model SWV-101-B
Vapor Adaptor

Exhibit 1 (Continued)

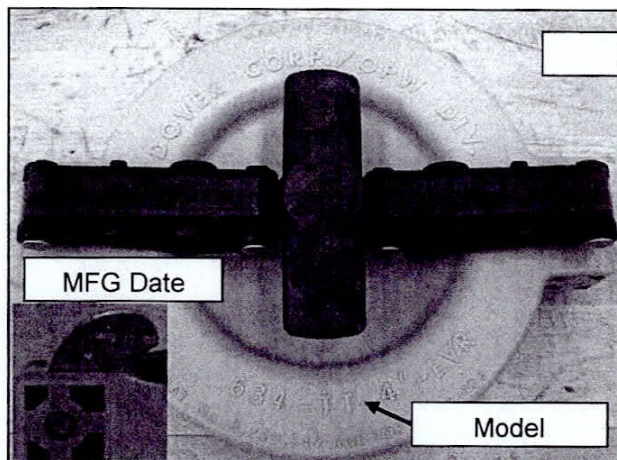
Component Identification and Location



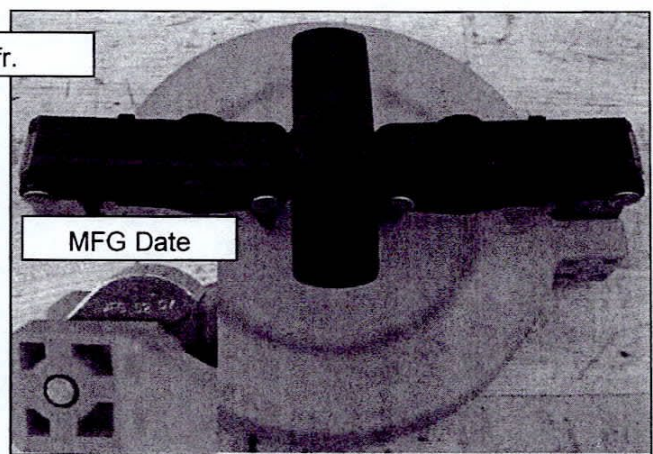
EBW 304-301-XX Vapor Dust Cap



EBW 777-201-01 Product Dust Cap



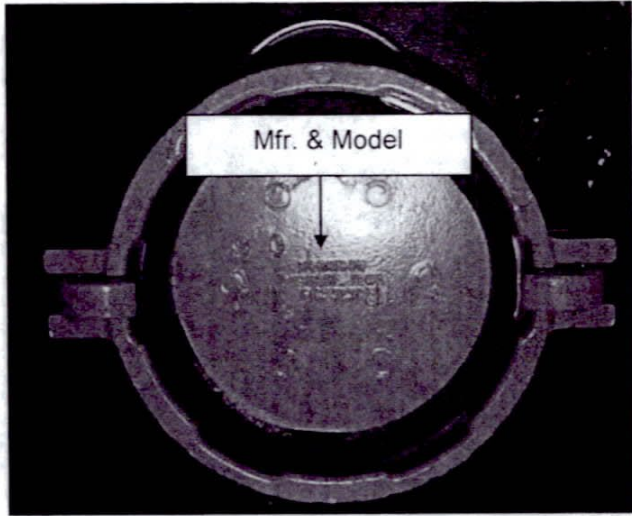
OPW 634-TT-EVR Product Dust Cap



OPW 1711-T-EVR Vapor Dust Cap

Exhibit 1 (Continued)

Component Identification and Location



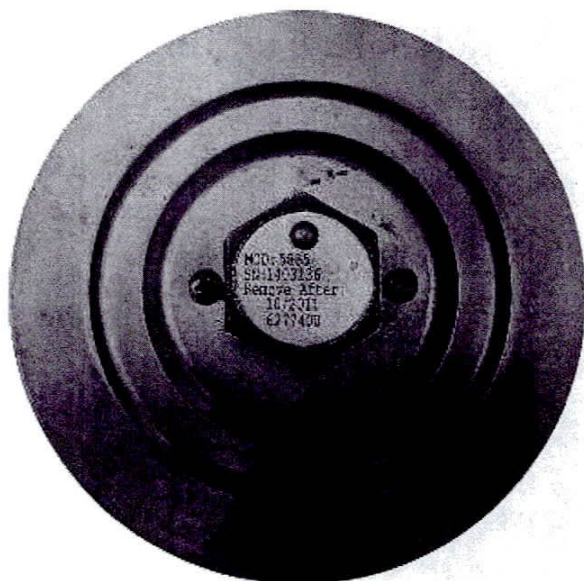
Morrison Brothers 323C EVR
Vapor Dust Cap



Morrison Brothers 305C EVR
Product Dust Cap

Exhibit 1 (Continued)

Component Identification and Location



(Gasoline Only)

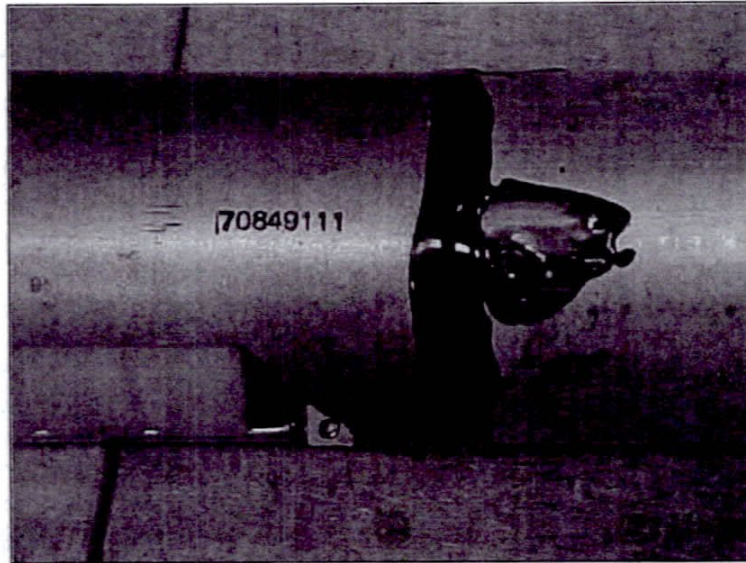
Husky 5885 P/V Vent Valve



FFS PV-Zero P/V Vent Valve
(Model and Serial Number on White Tag)
(Gas/E85)

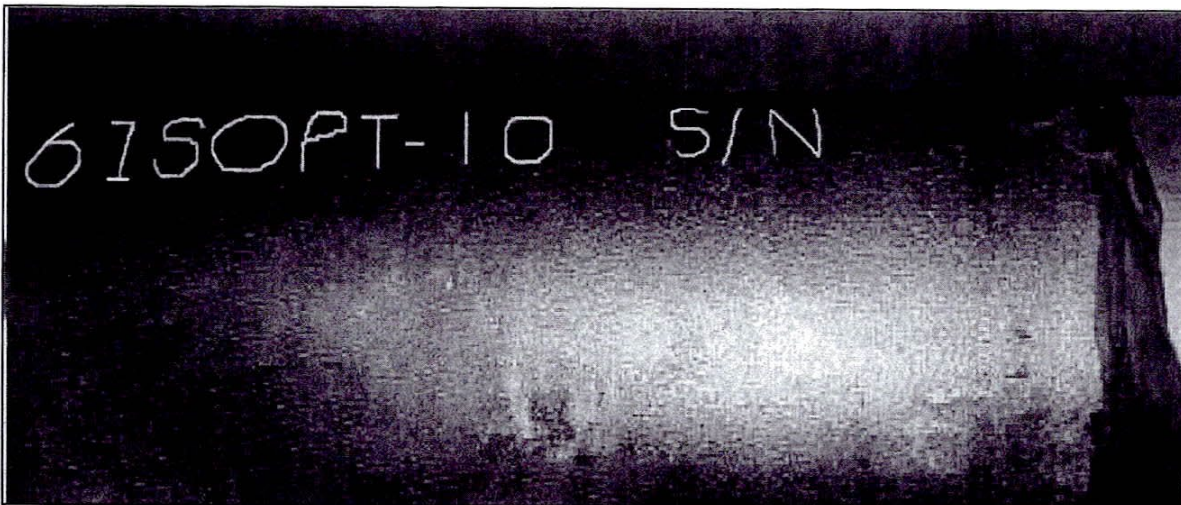
Exhibit 1 (Continued)

Component Identification and Location



EBW Model 708-49X-1Y Overfill Prevention Device

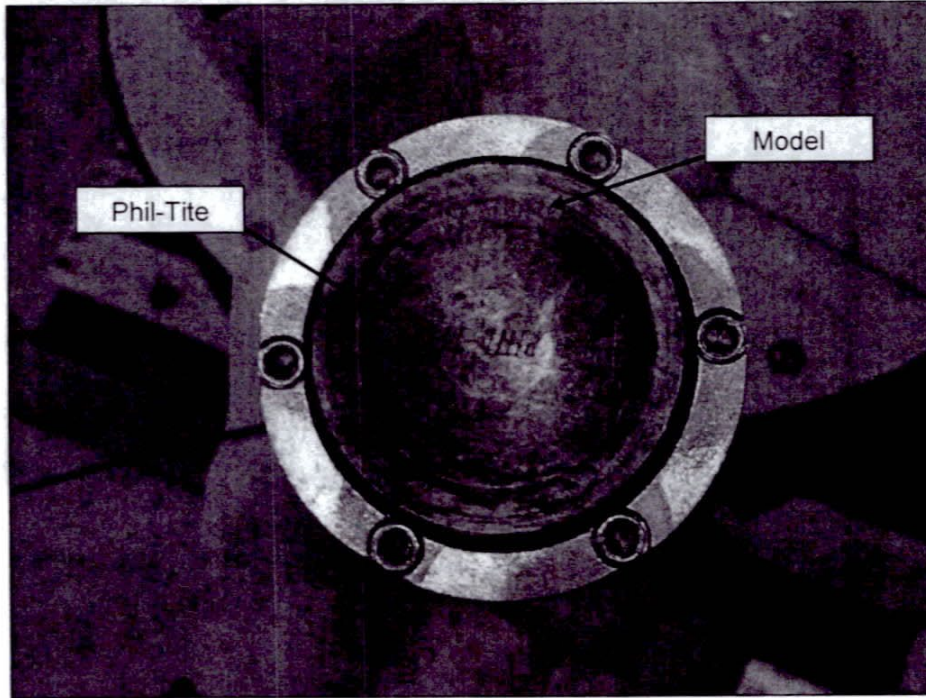
Exhibit 1 (Continued)



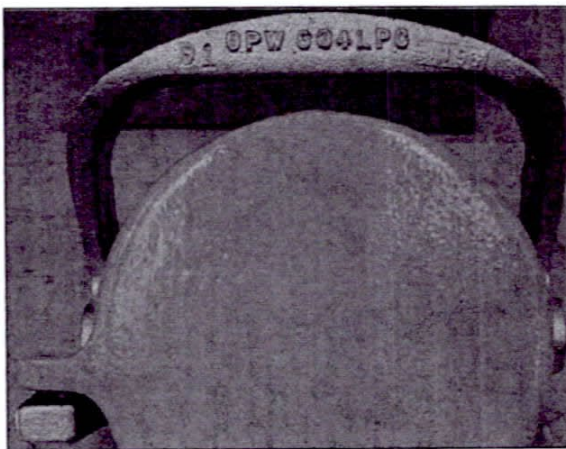
Phil-Tite Model 61SO-PT Overfill Prevention Device

Exhibit 1 (Continued)

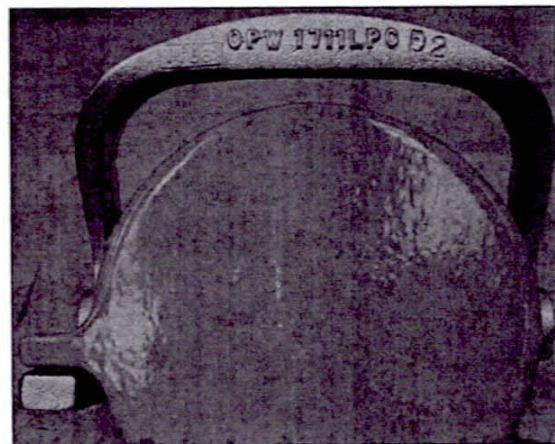
Component Identification and Location



Phil-Tite TBP-3516 Series Tank Bottom Protector



OPW 634LPC Product Dust Cap



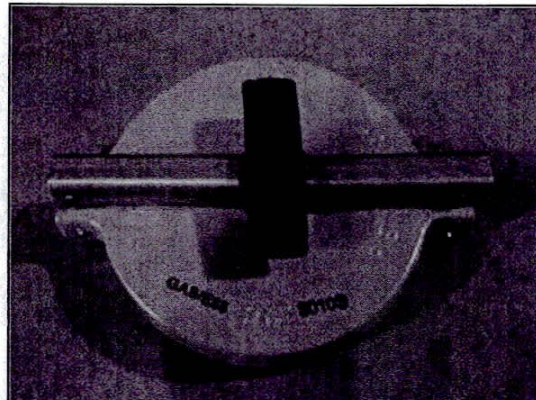
OPW 1711LPC Vapor Dust Cap

Exhibit 1 (Continued)

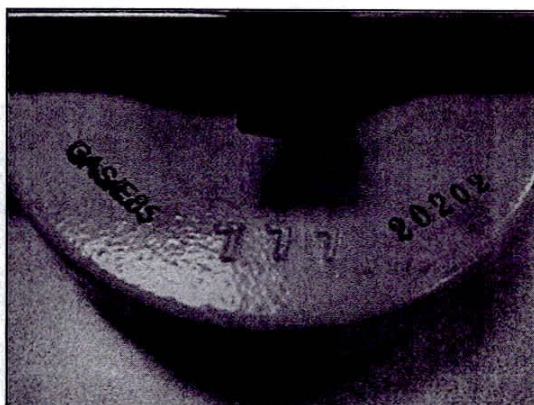
Component Identification and Location



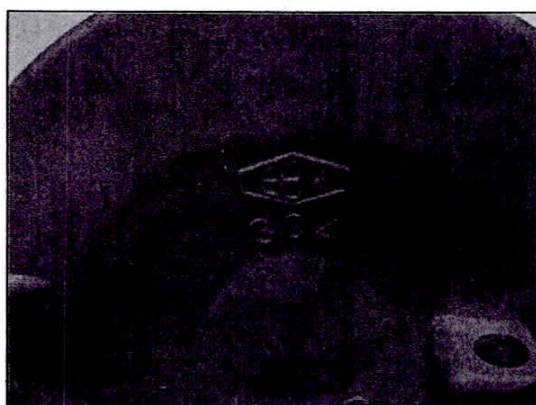
EBW 777-201-02 Product Dust Cap
(Gas/E85 Compatible)



EBW 304-301-03 Vapor Dust Cap
(Gas/E85 Compatible)



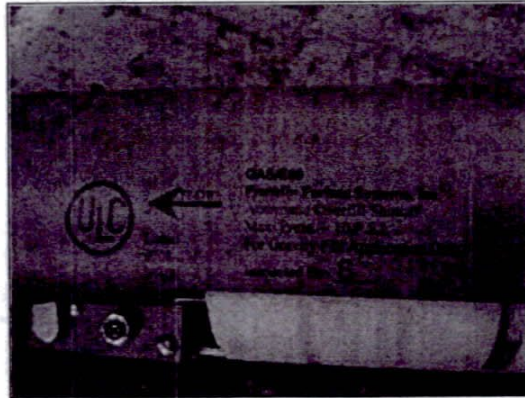
EBW 777-202-02 Product Dust Cap
(Gas/E85 Compatible)



EBW 304-200-06 Vapor Dust Cap
(Gas/E85 Compatible)

Exhibit 1 (Continued)

Component Identification and Location



EBW 708-49X-3Y Autolimiter
(Gas/E85 Compatible)



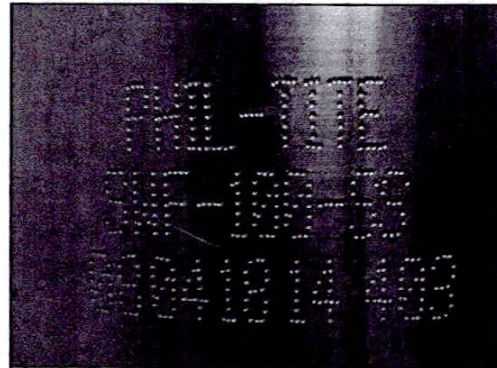
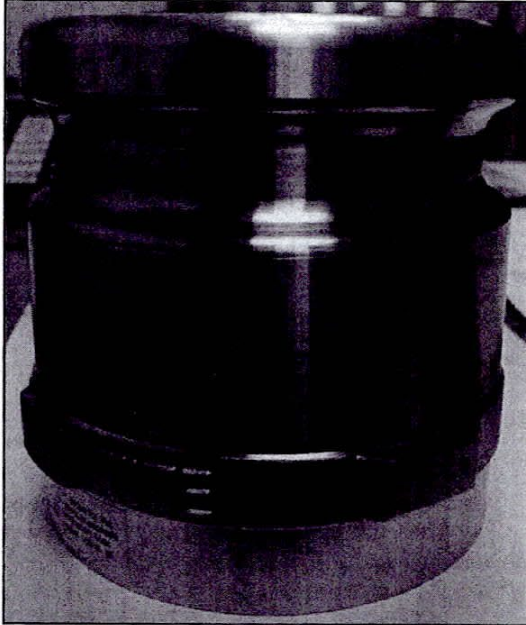
**Phil-Tite 85000 & 85000-1 Series
Spill Container**
(Gas/E85 Compatible)



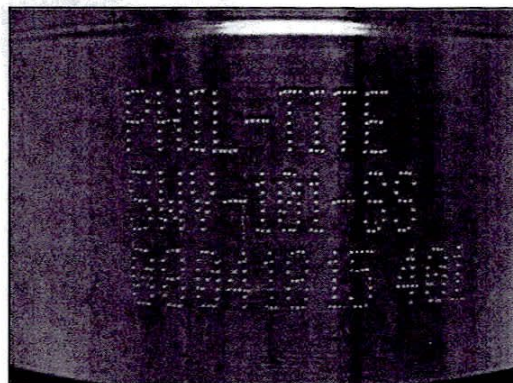
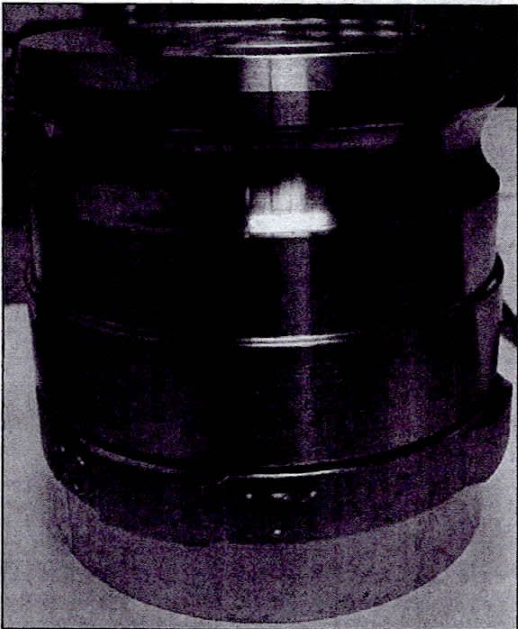
Defender 705 Series Spill Container
(Gas Compatible)

Exhibit 1 (Continued)

Component Identification and Location



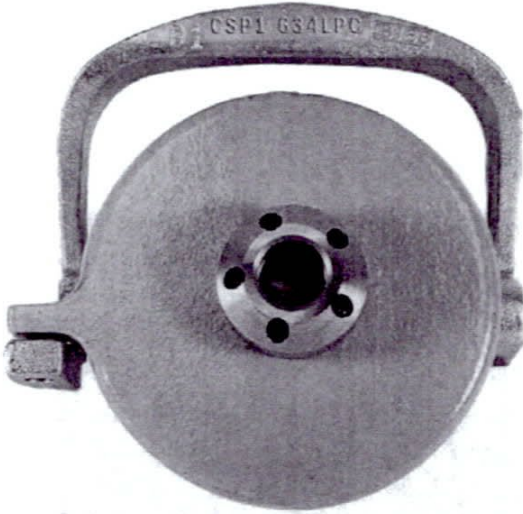
Phil-Tite SWF-100-SS Fill Adaptor



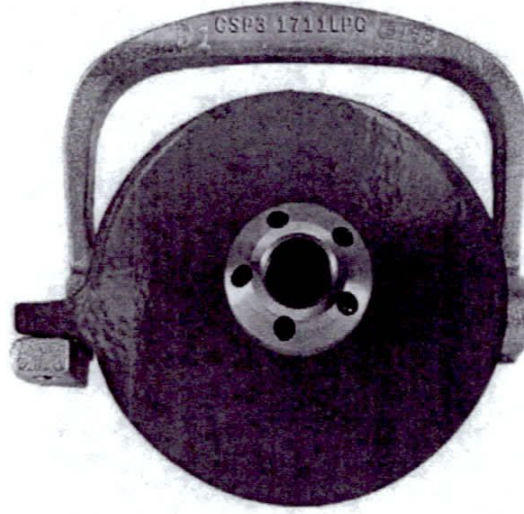
Phil-Tite SWF-101-SS Fill Adaptor

Exhibit 1 (Continued)

Component Identification and Location



CompX CSP1-634LPC Product Dust Cap



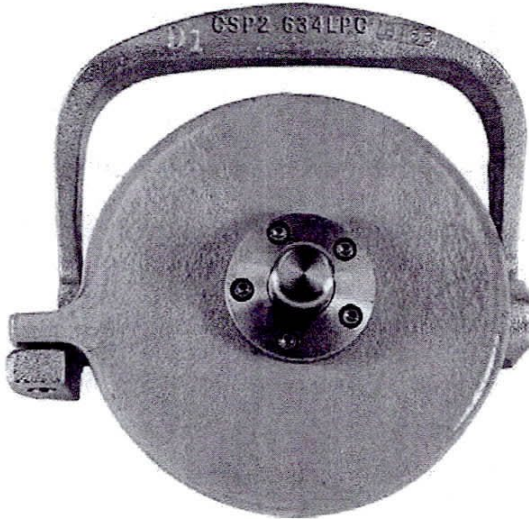
CompX CSP3-1711LPC Vapor Dust Cap
(Gas Only)



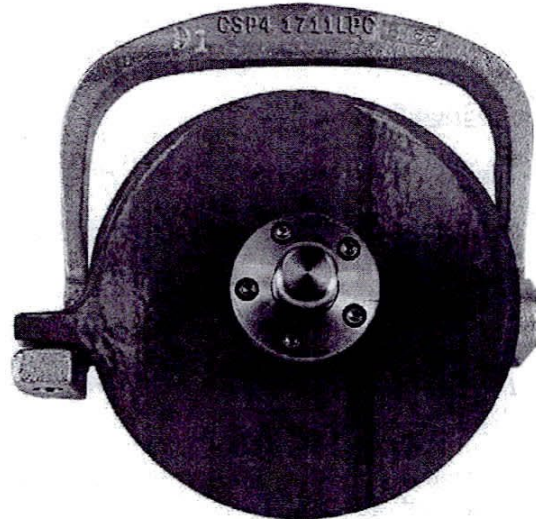
CompX Tank Commander Lid
Locks onto CSP1-634LPC and CSP3-1711LPC Dust Caps

Exhibit 1 (Continued)

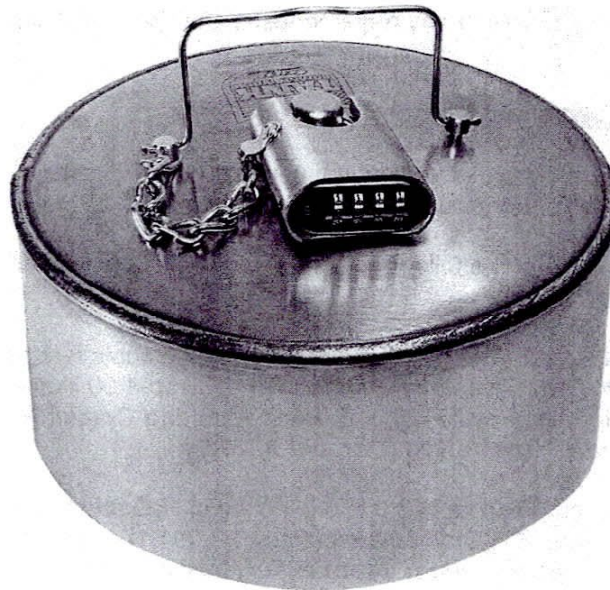
Component Identification and Location



CompX CSP2-634LPC Product Dust Cap



CompX CSP4-1711LPC Vapor Dust Cap
(Gas Only)



CompX Tank Commander Lid
Locks onto CSP2-634LPC and CSP4-1711LPC Dust Caps

Exhibit 2

Installation, Maintenance and Compliance Specifications

This Exhibit contains the installation, maintenance and compliance standards and specifications applicable to a Phil-Tite system installed in a gasoline dispensing facility (GDF).

General Specifications

1. Typical installation illustrations of "Phil-Tite" spill containers are shown in Figures 2A, 2B and 2C
2. Typical installation illustrations of the "Defender Series" spill containers are shown in Figures 2H, 2I, 2J, 2K, 2L, and 2M
3. The Phil-Tite system shall be installed, operated and maintained in accordance with the latest amended version of the **ARB-Approved Installation, Operation and Maintenance Manual for the Phil-Tite Phase I Vapor Recovery System as Certified by Executive Order VR-101-N** (IOM).
4. Any repair or replacement of system components shall be done in accordance with the latest version of the IOM.
5. The Phil-Tite system shall comply with the applicable performance standards and performance specifications in CP-201.
6. Installation, maintenance and repair of system components, including removal and installation of such components in the course of any required tests, shall be performed by Phil-Tite Certified Technicians.

Pressure/Vacuum Vent Valves For Storage Tank Vent Pipes

1. No more than three certified pressure/vacuum vent valves (P/V valves) listed in Exhibit 1 shall be installed on any GDF underground storage tank system.
2. Compliance determination of the following P/V valve performance specifications shall be at the option of the districts:
 - a. The leak rate of each P/V valve shall not exceed 0.05 cubic feet per hour (CFH) at 2.00 inches of H₂O positive pressure and 0.21 CFH at -4.00 inches of H₂O negative pressure as determined by TP-201.1E, **Leak Rate and Cracking Pressure of Pressure/Vacuum Vent Valves (October 8, 2003)**.
 - b. The positive pressure setting is 2.5 to 6.0 inches of H₂O and the negative pressure setting is 6.0 to 10.0 inches of H₂O as determined by TP-201.1E, **Leak Rate and Cracking Pressure of Pressure/Vacuum Vent Valves (October 8, 2003)**.
3. Compliance determination of the P/V valve performance specifications in items 2a and 2b for the FFS PV-Zero P/V vent valve shall be conducted with the valve remaining in its installed position on the vent line(s). The PV-Zero portion of the **ARB-Approved Installation, Operation and Maintenance Manual for the Phil-Tite Phase I Vapor Recovery System** outlines the equipment needed to test the valve in its installed position.
4. A manifold may be installed on the vent pipes to reduce the number of potential leak sources and P/V valves installed. Vent pipe manifolds shall be constructed of steel pipe or an equivalent

material that has been listed for use with gasoline. If a material other than steel is used, the GDF operator shall make available information demonstrating that the material is compatible for use with gasoline. One example of a typical vent pipe manifold is shown in Figure 2G. This shows only one typical configuration; other manifold configurations may be used. For example, a tee may be located in a different position, or fewer pipes may be connected, or more than one P/V valve may be installed on the manifold.

5. Each P/V valve shall have permanently affixed to it a yellow, gold, or white colored label with black lettering stating the following specifications:

Positive pressure setting: 2.5 to 6.0 inches H₂O
Negative pressure setting: 6.0 to 10.0 inches H₂O
Positive Leakrate: 0.05 CFH at 2.0 inches H₂O
Negative Leakrate: 0.21 CFH at -4.0 inches H₂O

6. Each FFS PV-Zero P/V valve installed shall have permanently affixed to it a label that identifies that it is compatible with E85.

Rotatable Product and Vapor Recovery Adaptors

1. Rotatable product and vapor recovery adaptors shall be capable of at least 360-degree rotation and have an average static torque not to exceed 108 inch-pounds (9 foot-pounds). Compliance with this requirement shall be demonstrated in accordance with **TP-201.1B, *Static Torque of Rotatable Phase I Adaptors (October 8, 2003)***.
2. The vapor adaptor poppet shall not leak when closed. Compliance with this requirement shall be verified by the use of commercial liquid leak detection solution, or by bagging, when the vapor containment space of the underground storage tank is subjected to a non-zero gauge pressure. (Note: leak detection solution will detect leaks only when positive gauge pressure exists.)

Vapor Recovery and Product Adaptor Dust Caps

Dust caps with intact gaskets shall be installed on all Phase I tank adaptors.

Spill Container Drain Valve

The spill container drain valve is configured to drain liquid directly into the drop tube and is isolated from the underground storage tank ullage space. The leak rate of the drain valve shall not exceed 0.17 CFH at 2.00 inches H₂O. Depending on the presence of the drop tube overfill prevention device, compliance with this requirement shall be demonstrated in accordance with either **TP-201.1C, *Leak Rate of Drop Tube/Drain Valve Assembly (October 8, 2003)***, or **TP-201.1D, *Leak Rate of Drop Tube Overfill Prevention Device and Spill Container Drain Valve (October 8, 2003)***.

Drop Tube Overfill Prevention Device

1. The Drop Tube Overfill Prevention Device (overfill device) is designed to restrict the flow of gasoline delivered to the underground storage when liquid levels exceed a specified capacity. The drop tube overfill device is not a required component of the vapor recovery system, but may be installed as an optional component of the system. Other requirements may apply.

2. The leak rate of the overfill device shall not exceed 0.17 CFH at 2.00 inches H₂O when tested as in accordance with TP-201.1D, *Leak Rate of Drop Tube Overfill Prevention Device and Spill Container Drain Valves (October 8, 2003)*.
3. The discharge opening of the fill pipe must be entirely submerged when the liquid level is six inches above the bottom of the tank as shown in Figures 2A and 2B.

Riser Adaptor

For "Phil-Tite" series spill container installations, the Riser Adaptor shall provide a machined surface on which a gasket can seal and ensures that the seal is not compromised by an improperly cut or improperly finished riser. A Threaded Riser adaptor shall be installed on the following required connections. As an option, the adaptor may be installed on other connections.

- a. Product Spill Container (required)
- b. Vapor Recovery Spill Container (required)
- c. Tank Gauging Components (required)

For "Defender Series" spill container installations, the Riser Adaptor shall only be used with the NPSM (straight thread) base. The Riser Adaptor should not be used with the Defender Series Base with NPT (tapered thread) base. This is applicable for both the vapor and fill/produce sides. Field conditions will dictate which base to use. If the existing riser is not cut square, those conditions will require the riser adaptor.

Vapor Recovery Riser Offset

1. The vapor recovery tank riser may be offset from the tank connection to the vapor recovery Spill Container provided that the maximum horizontal distance (offset distance) does not exceed twenty (20) inches. One example of an offset is shown in Figure 2F.
2. A vapor recovery riser shall be offset up to 20 inches horizontal distance with use of commercially available, four (4) inch steel pipe fittings, a Phil-Tite Model M-6050 Vapor Riser Offset, or a combination of the two products. An example of a Phil-Tite Model M-6050 configuration is shown in Figure 2F.

Tank Gauge Port Components

The tank gauge adaptor and cap are paired. Therefore, an adaptor manufactured by one company shall be used only with a cap manufactured by the same company.

Warranty

Each manufacturer listed in Exhibit 1 shall include a warranty tag with the certified component(s). The manufacturer warranty tag, included with each component, shall be provided to the service station owner/operator at the time of installation.

Connections and Fittings

All connections and fittings not specifically certified with an allowable leak rate shall not leak. The absence of vapor leaks shall be verified with the use of commercial liquid leak detection solution (LDS), or by bagging, when the vapor containment space of the underground storage tank is

subjected to a non-zero gauge pressure. (Note: leak detection solution will detect leaks only when positive gauge pressure exists).

Double Fill Configuration

A Phil-Tite Double Fill Configuration shall be allowed for installation provided that no more than two fill points are installed on any single underground storage tank and that no offset of the vapor recovery riser pipe is installed. An example of a Phil-Tite Double Fill configuration is shown in Figure 2D.

Sump Configuration

The Phil-Tite Sump Configuration is designed to place the spill containers inside of an underground sump with a single exterior lid as shown in Figure 2E. The Phil-Tite 85011 Cast Lids are not required if spill containers are placed in a sump with a sump lid.

Maintenance Records

Each GDF operator or owner shall keep records of maintenance performed at the facility. Such record shall be maintained on site or in accordance with district requirements or policies. Additional information may be required in accordance with district requirements or policies. The records shall include the maintenance or test date, repair date to correct test failure, maintenance or test performed, affiliation, telephone number, name and Certified Technician Number of individual conducting maintenance or test. An example of a Phase I Maintenance Record is shown in Figure 2N. Table 2-1

Gasoline Dispensing Facility Compliance Standards and Specifications

Component / System	Test Method	Standard or Specification
Rotatable Phase I Adaptors	TP-201.1B	Minimum, 360-degree rotation Maximum, 108 pound-inch average static torque
Overfill Prevention Device	TP-201.1D	≤0.17 CFH at 2.00 inches H ₂ O
Spill Container Drain Valve	TP-201.1C or TP-201.1D	≤0.17 CFH at 2.00 inches H ₂ O
P/V Valve ¹	TP-201.1E	Positive pressure setting: 2.5 to 6.0 inches H ₂ O Negative pressure setting: 6.0 to 10.0 inches H ₂ O Positive Leakrate: 0.05 CFH at 2.0 inches H ₂ O Negative Leakrate: 0.21 CFH at -4.0 inches H ₂ O
Vapor Recovery System	TP-201.3	As specified in TP-201.3 and/or CP-201
Connections and fittings certified without an allowable leak rate	Leak Detection Solution or bagging	No leaks

**Table 2-2
Maintenance Intervals for System Components¹**

Manufacturer	Component	Maintenance Interval
All Models	Dust Caps	Annual
All Models	In Tank Gauge Port Probe Cap and Adaptor Kit	Annual
EBW	Drop Tube Overfill Prevention Device 708-49X-1Y series Drop Tube Overfill Prevention Device 708-49X-3Y series	Annual
EBW	782 Straight Drop Tube	Annual
Husky	Pressure/Vacuum Vent Valve	Annual
FFS	Pressure/Vacuum Vent Valve	Annual
OPW	61-T Straight Drop Tube	Annual
Phil-Tite FFS	Spill Container (all models)	Every 3 years
Phil-Tite	Drop Tube Overfill Prevention Device 61SO-PT	Annual
Phil-Tite	SWF-100-B Product Adaptor SWF-100-SS Product Adaptor	Annual
Phil-Tite	SWV-101-B Vapor Adaptor SWV-101-SS Vapor Adaptor	Annual

¹ Compliance determination is at the option of the district.

¹ Maintenance must be conducted within the interval specified from the date of installation and at least within the specified interval thereafter.

Figure 2A
Typical Product Side Installation of Phil-Tite System Using 61SO-PT

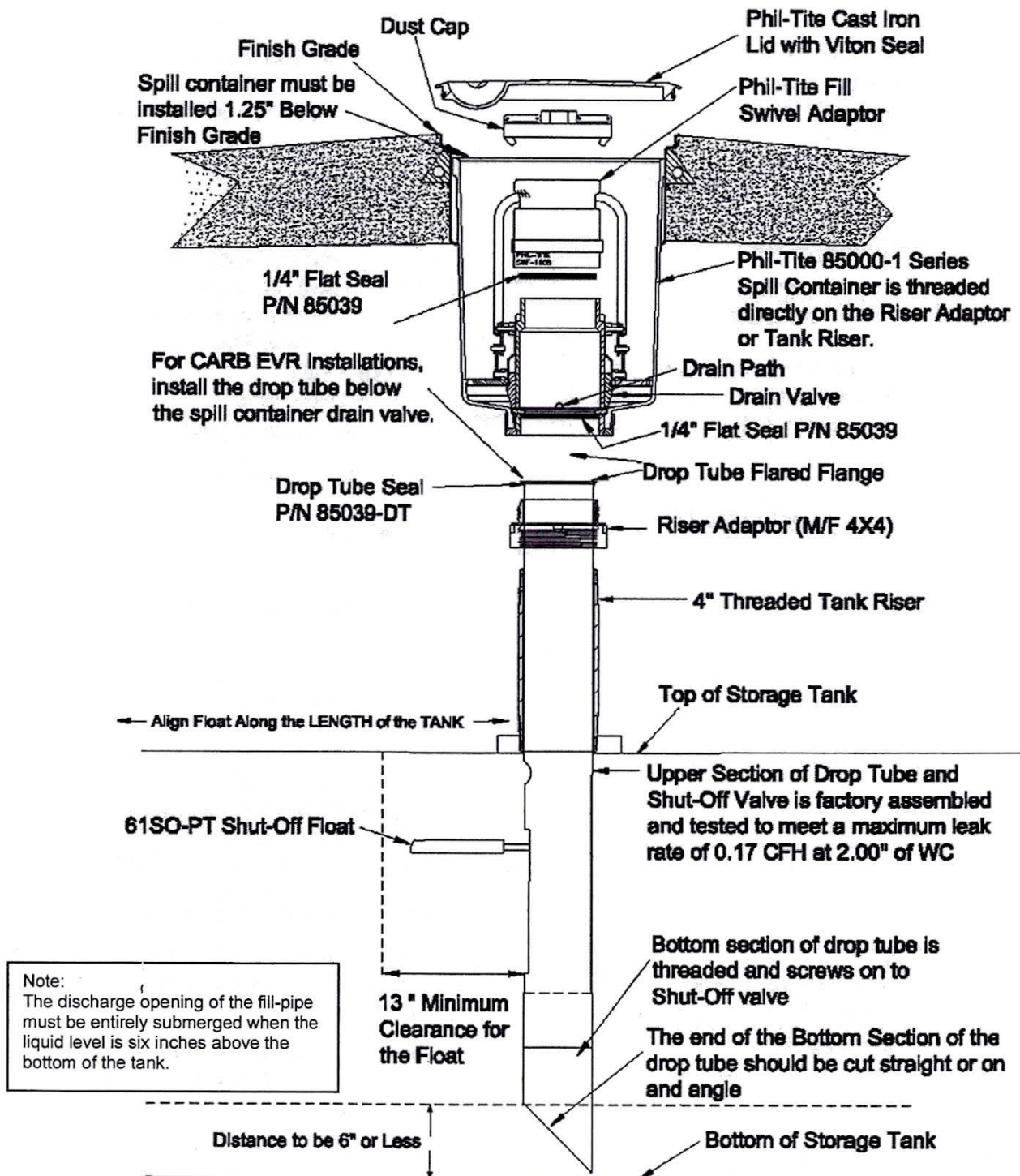


Figure 2B
Typical Product Side Installation of Phil-Tite System Using EBW Autolimiter II 708-49X- Series

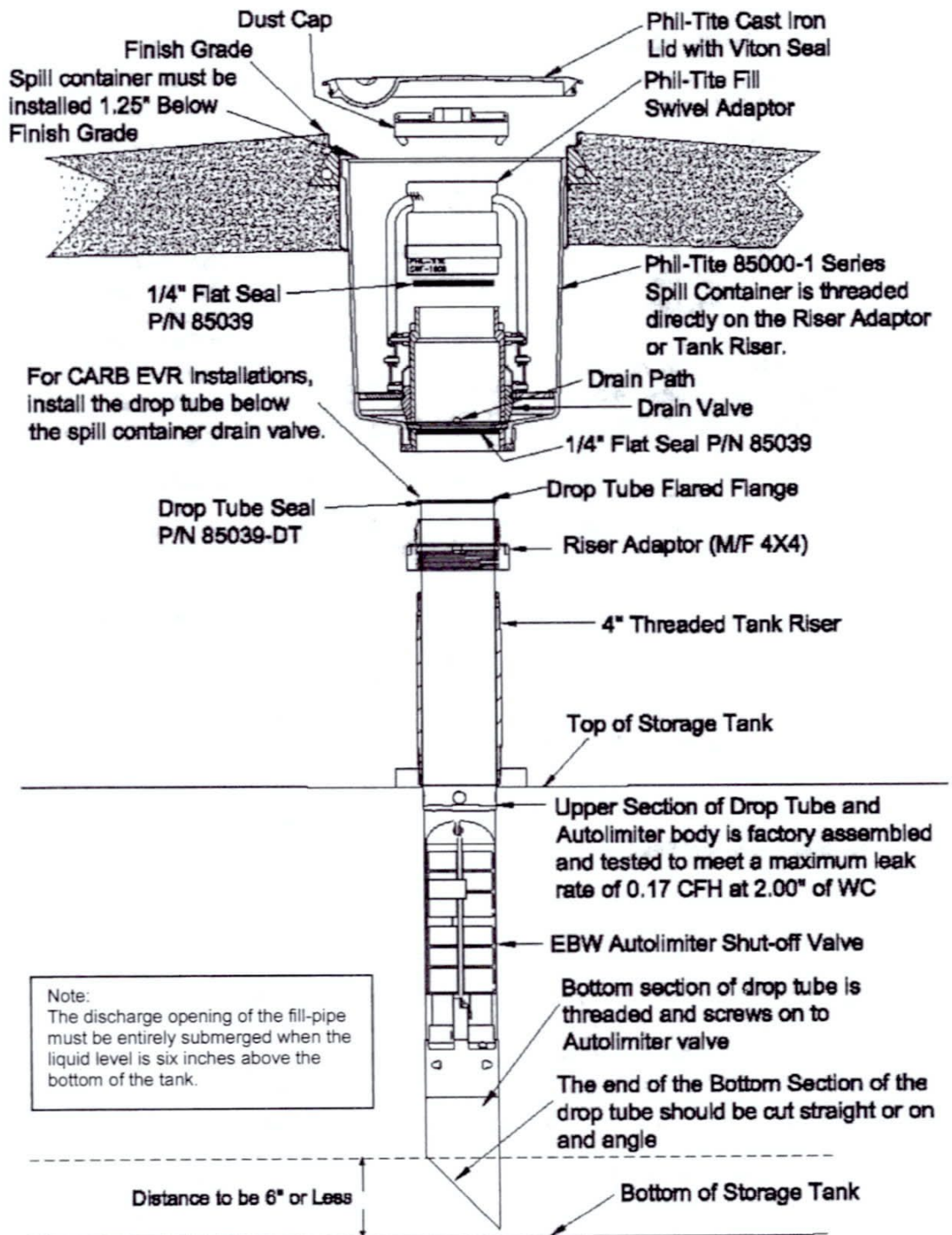


Figure 2C
Typical Vapor Recovery Side Installation of Phil-Tite System

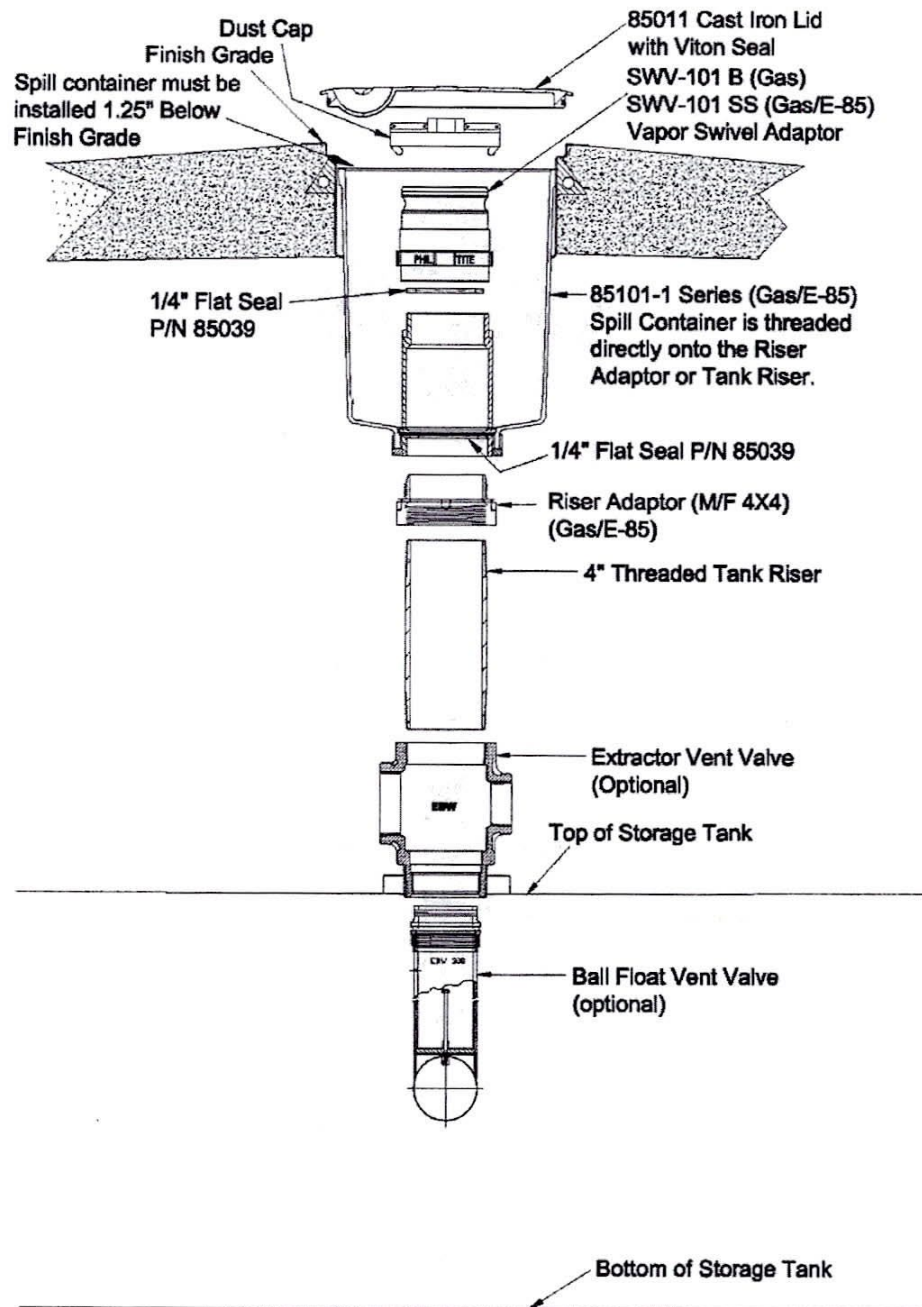


Figure 2D
Typical Phil-Tite Double Fill Configuration

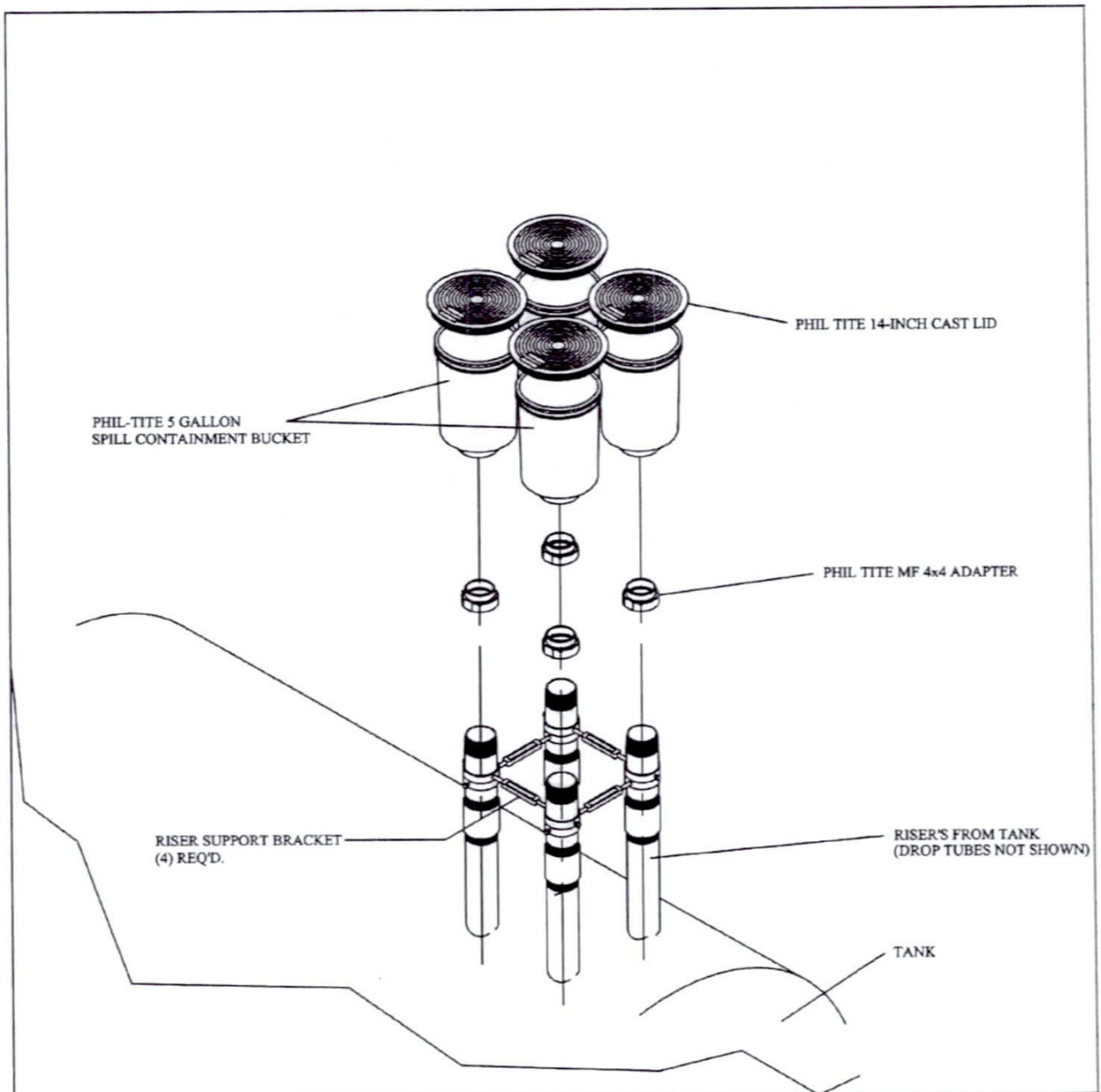


Figure 2E
Typical Phil-Tite Sump Configuration

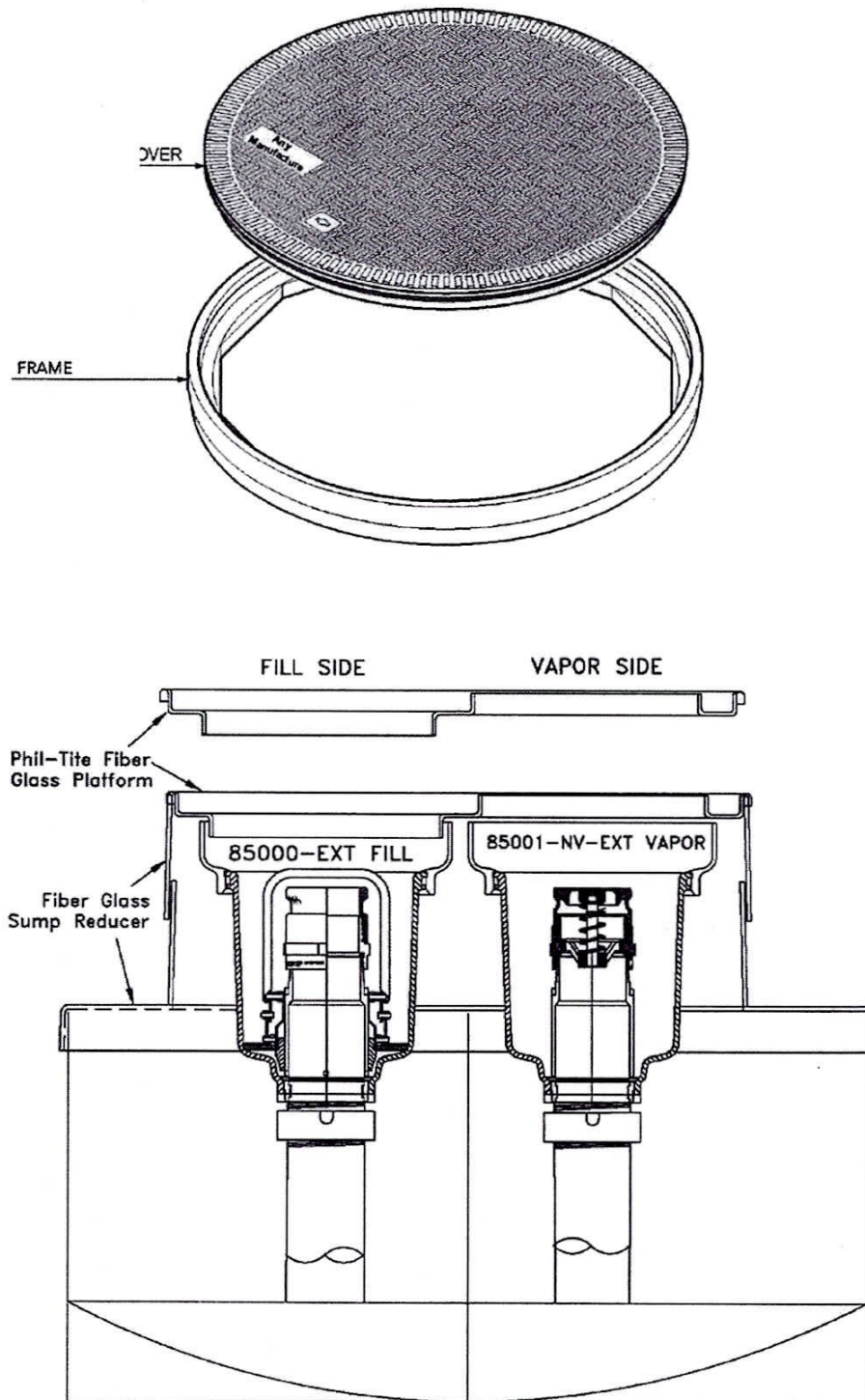
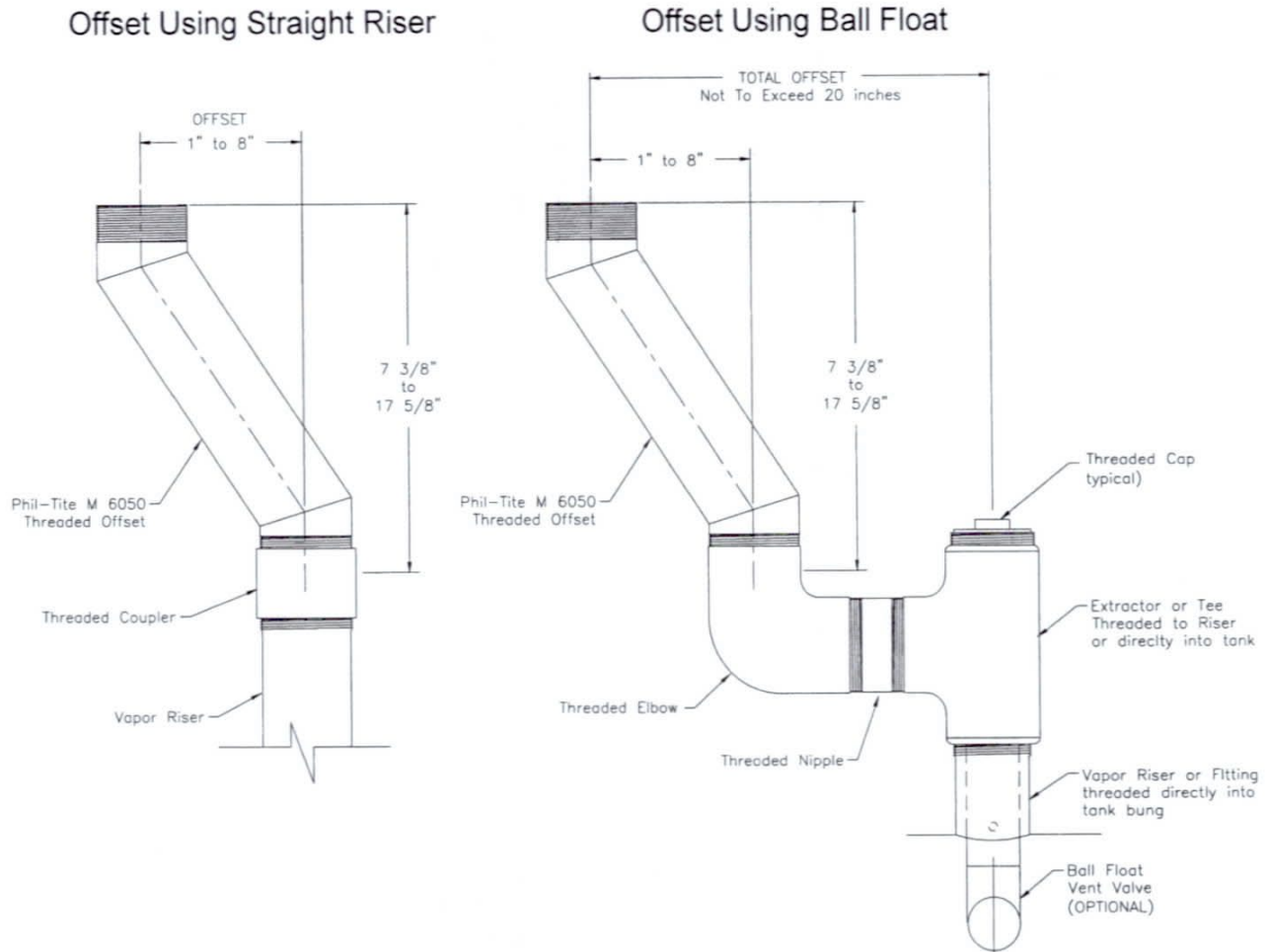
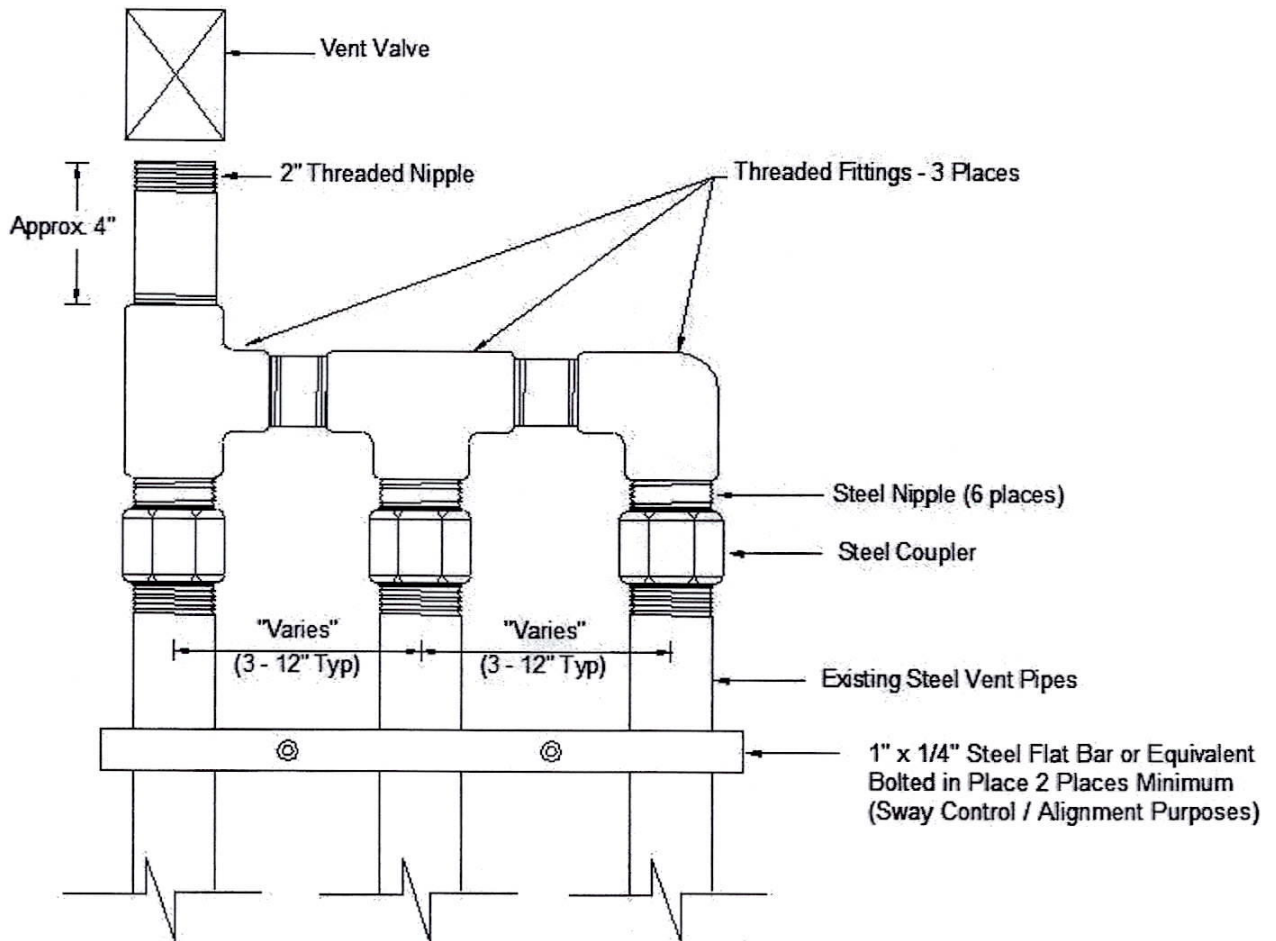


Figure 2F
Typical Phil-Tite Model M-6050 Vapor Recovery Riser Offset



Note: These figures represent instances where a vapor recovery riser has been offset in order to construct a two-point Phase I vapor recovery system. The figure on the right illustrates an offset using a 90-degree elbow. However, in some instances, elbows less than 90 degrees may be used. All fittings and pipe nipples shall be 4-inch diameter similar to those of the spill container and rotatable Phase I adaptors in order to reduce back pressure during a gasoline delivery.

Figure 2G
Typical Vent Pipe Manifold



Note: This shows one typical configuration; other manifold configurations may be used. For Example, a tee may be located in a different position, or fewer pipes may be connected, or more than one P/V valve may be installed on the manifold

Figure 2H: Typical Product Side Installation of Defender Series Spill Container: Single Wall Direct Bury Configuration

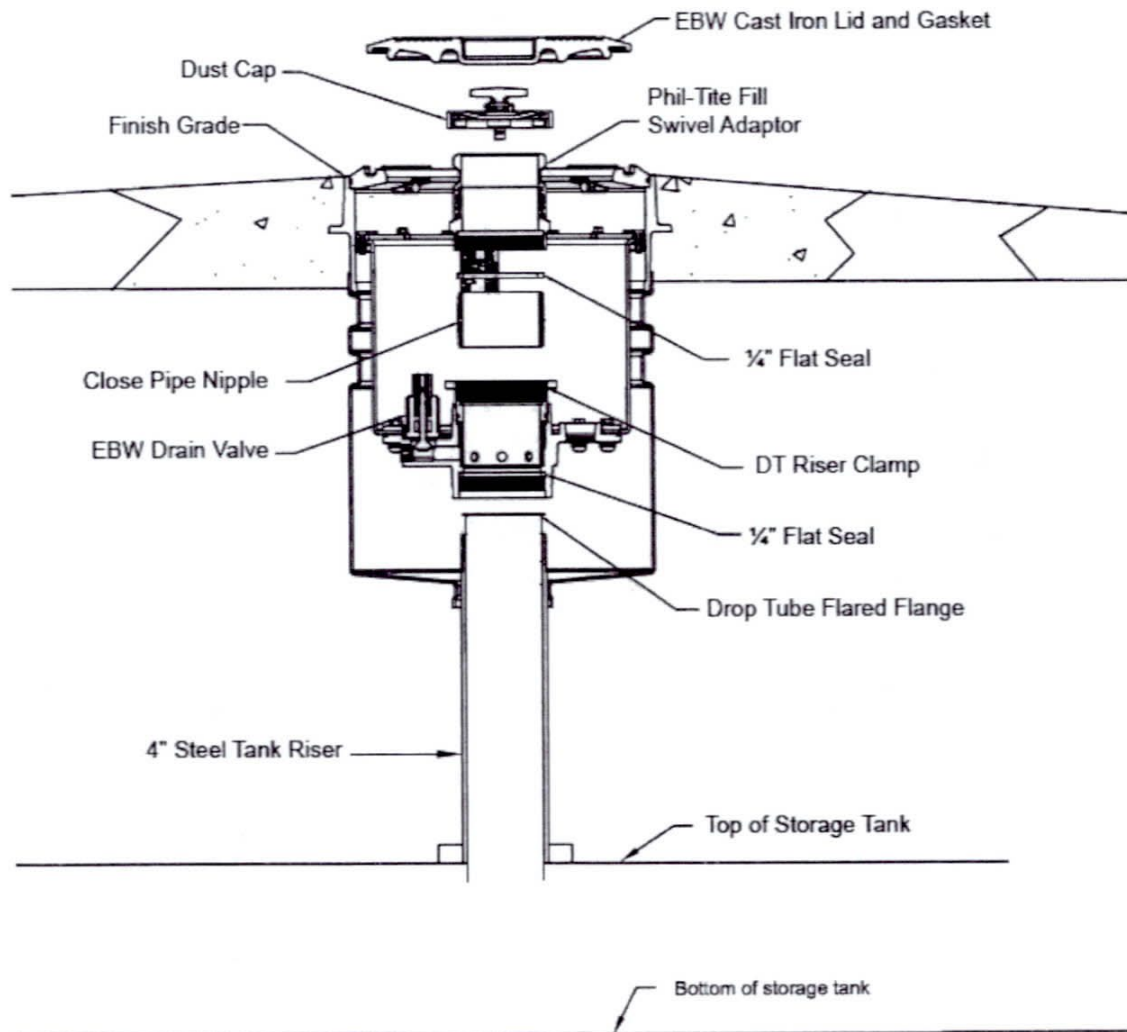


Figure 2I: Typical Product Side Installation of Defender Series Spill Container: Double Wall Direct Bury Configuration with I² Monitor

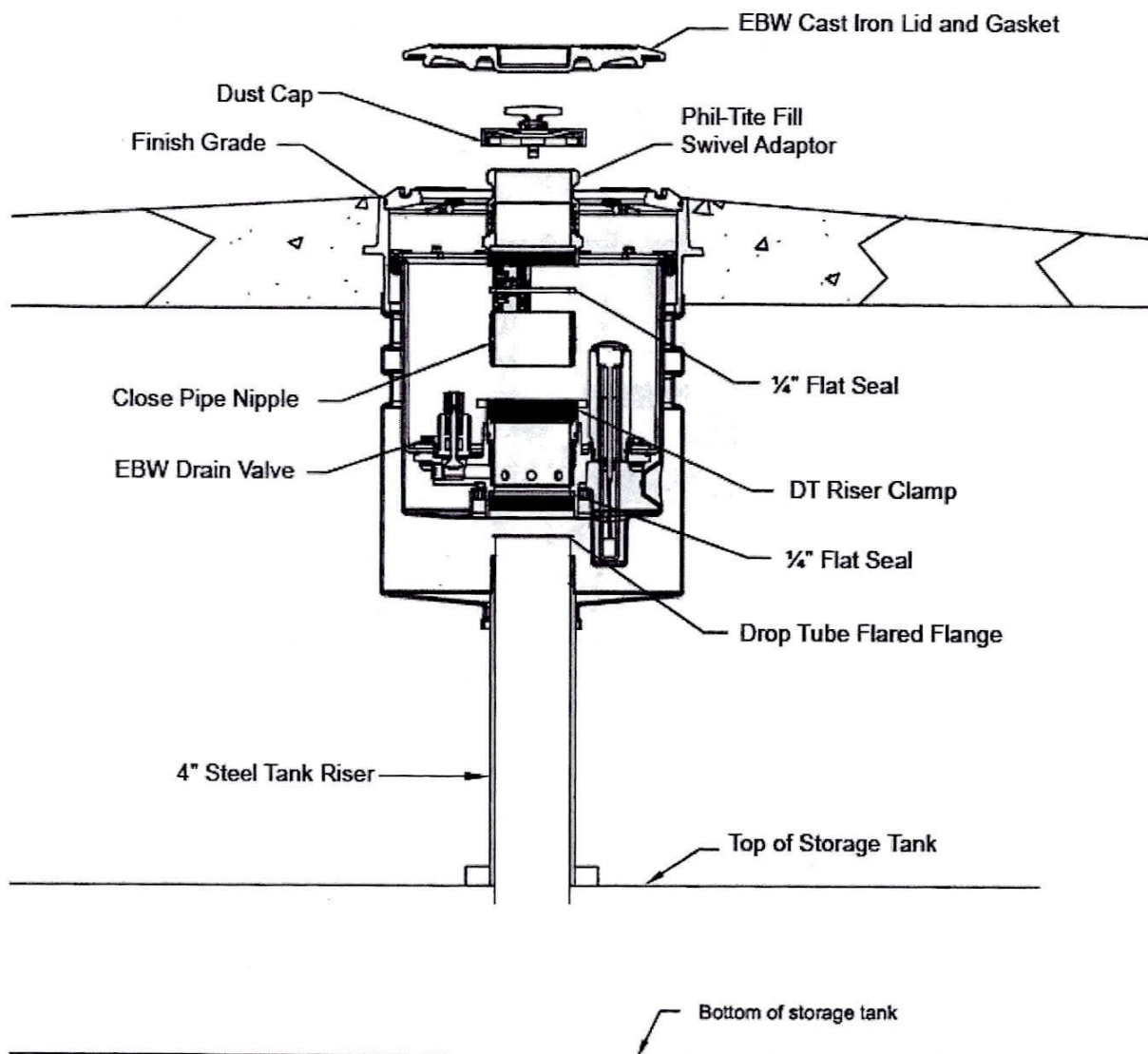


Figure 2J: Typical Product Side Installation of Defender Series Spill Container: Double Wall Direct Bury Configuration with TSP-ULS Liquid Sensor

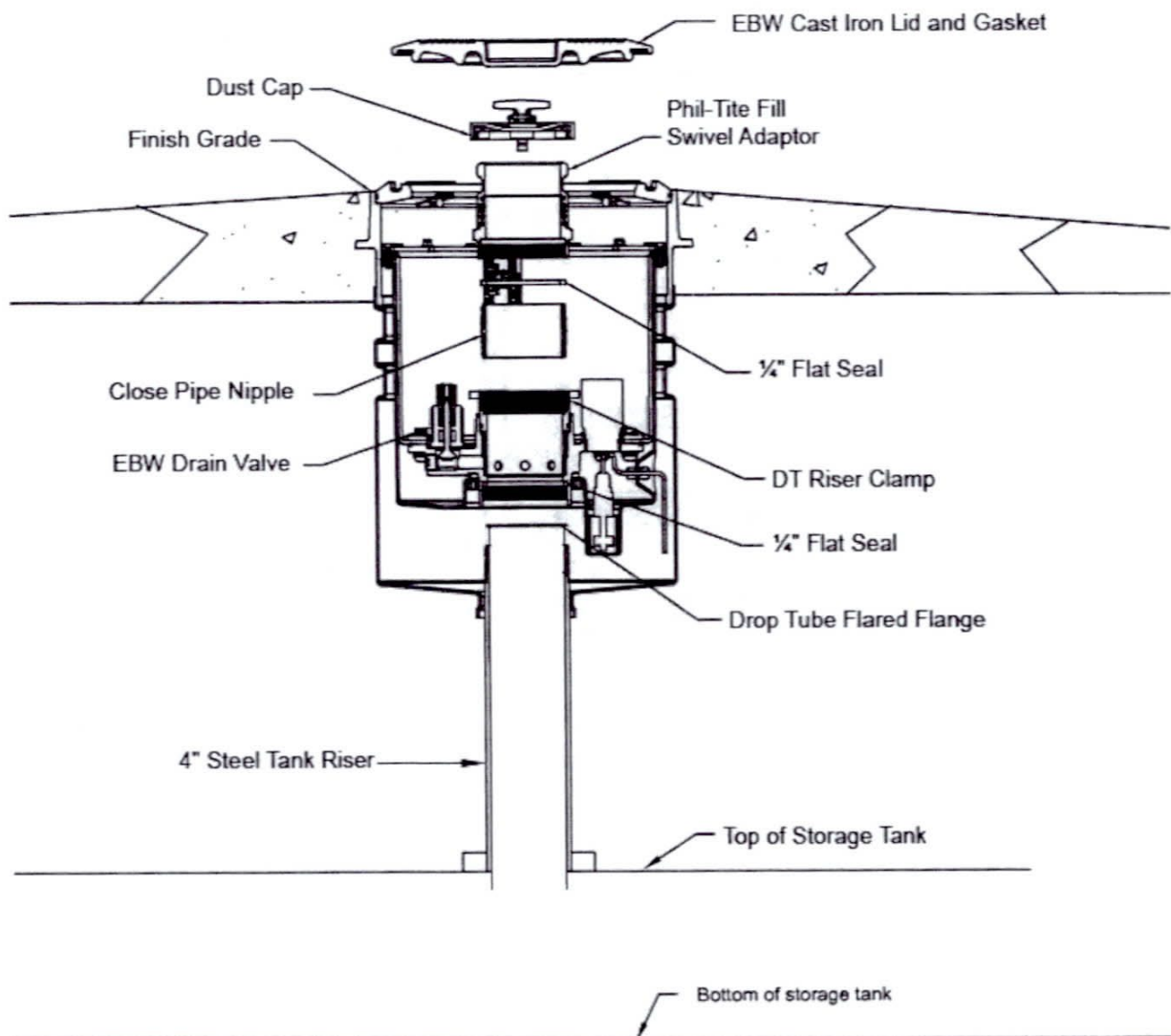


Figure 2K: Typical Vapor Recovery Side Installation of Defender Series Spill Container Single Wall Direct Bury Configuration

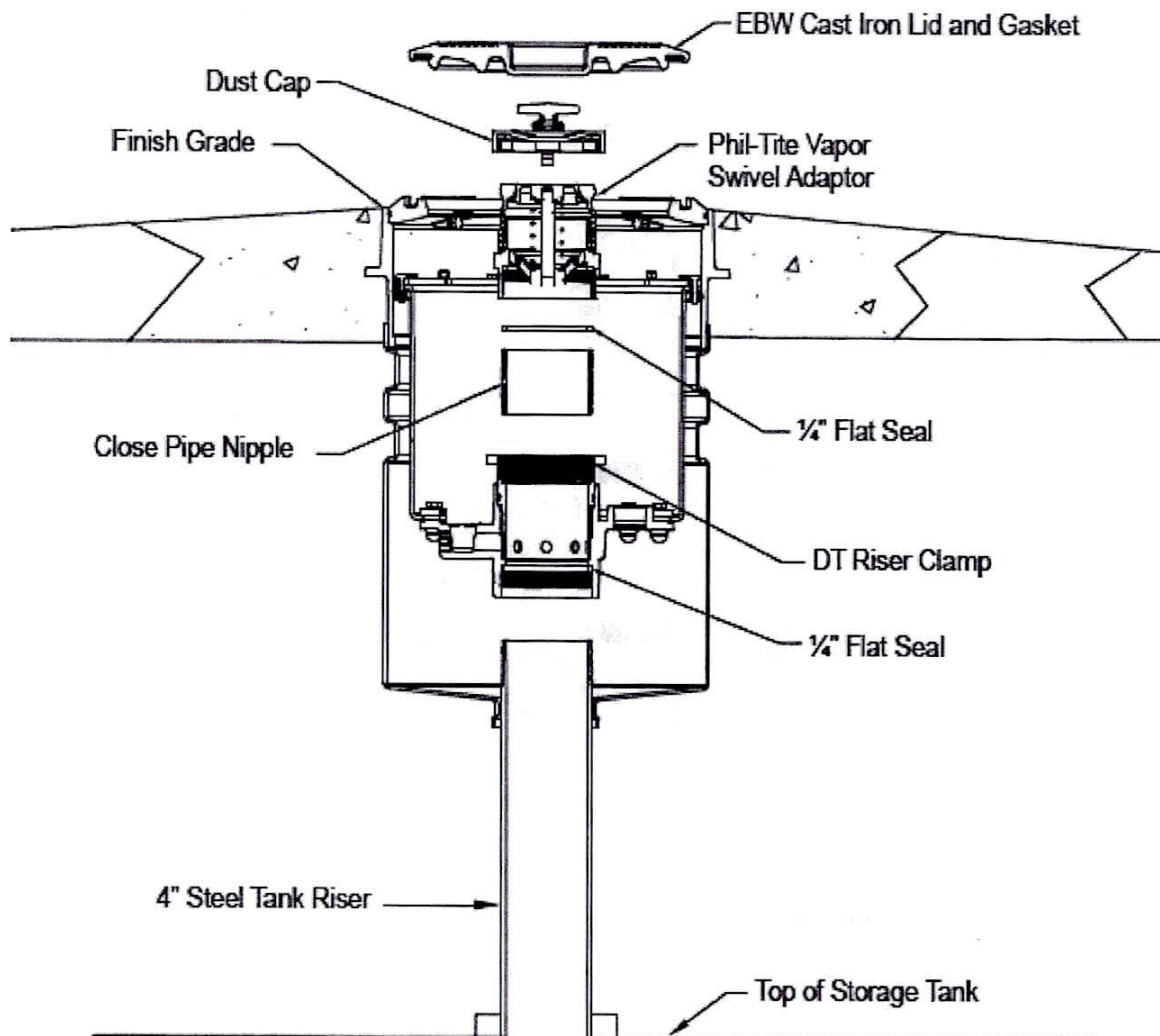


Figure 2L: Typical Vapor Recovery Side Installation of Defender Series Spill Container Double Wall Direct Bury Configuration with I² Monitor

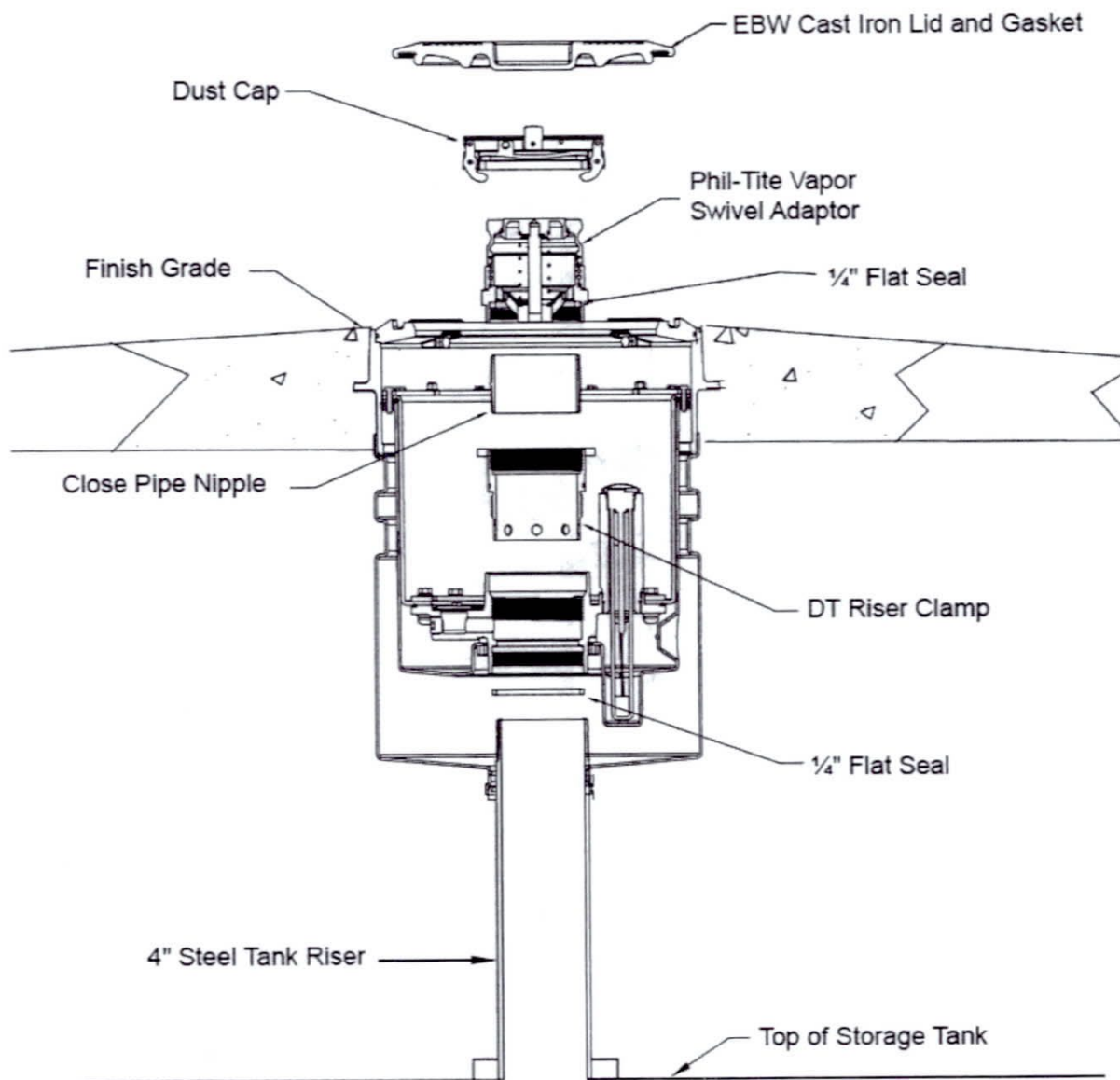


Figure 2M: Typical Vapor Recovery Side Installation of Defender Series Spill Container Double Wall Direct Bury Configuration with TSP-ULS Liquid Sensor

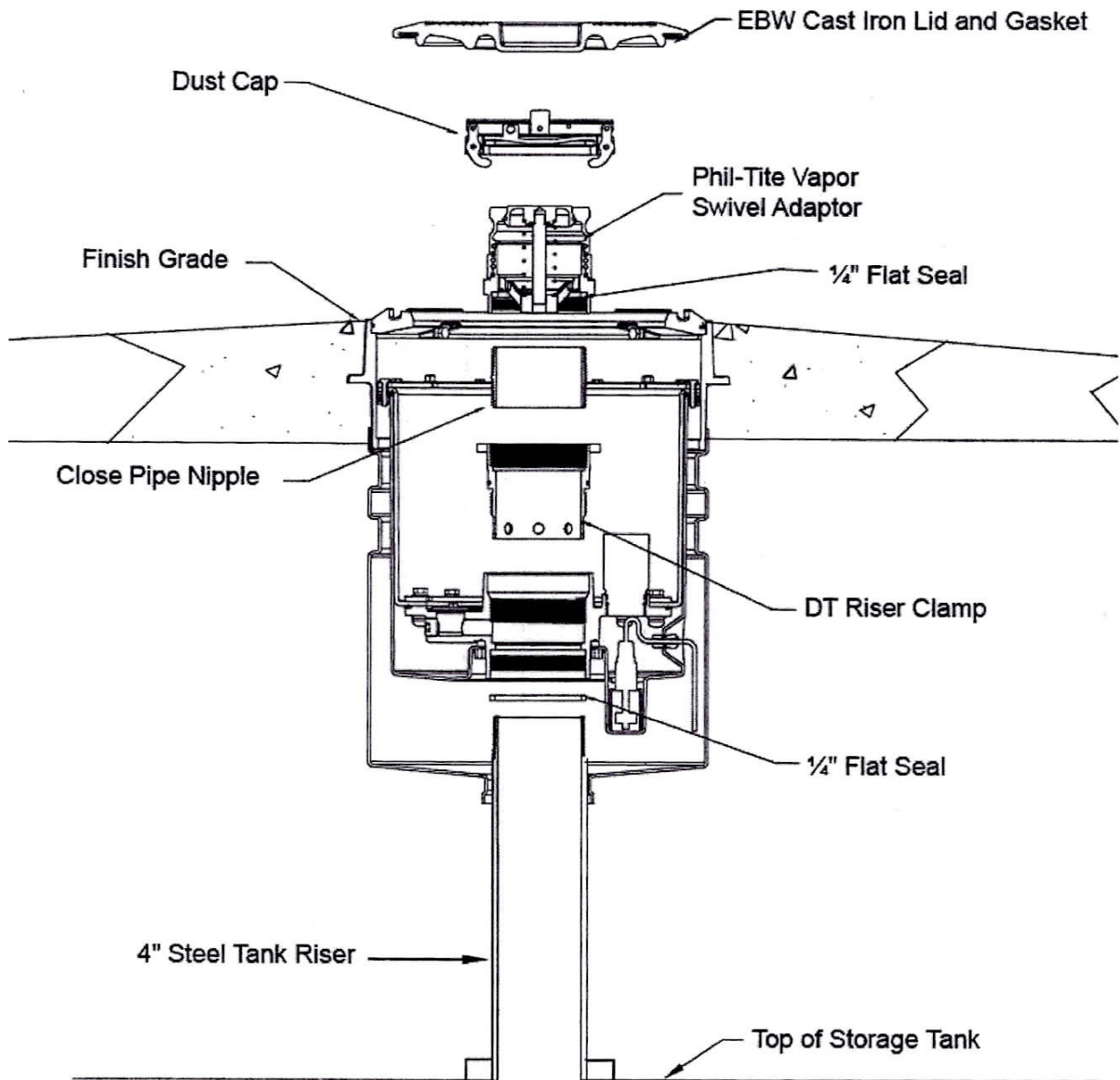


EXHIBIT 3

Manufacturing Performance Standards and Specifications

The Phil-Tite system and all components shall be manufactured in compliance with the performance standards and specifications in CP-201, as well as the requirements specified in this Executive Order. All components shall be manufactured as certified; no change to the equipment, parts, design, materials or manufacturing process shall be made unless approved in writing by the Executive Officer or Executive Officer delegate. Unless specified in Exhibit 2 or in the ARB approved Installation, Operation and Maintenance Manual for the Phil-Tite Phase I Vapor Recovery System, the requirements of this section apply to the manufacturing process and are not appropriate for determining the compliance status of a GDF.

Pressure/Vacuum Vent Valves for Storage Tank Vent Pipes

1. Each Pressure/Vacuum Vent Valve (P/V valve) shall be performance tested at the factory for cracking pressure and leak rate at each specified pressure setting and shall be done in accordance with **TP-201.1E, Leak Rate and Cracking Pressure of Pressure/Vacuum Vent Valves** (October 8, 2003).
2. Each P/V valve shall be shipped with a card or label stating the performance specifications listed in Table 3-1, and a statement that the valve was tested to, and met, these specifications.
3. Each P/V valve shall have permanently affixed to it a yellow, gold, or white colored label with black lettering listing the positive and negative pressure settings and leak rate standards listed in Table 3-1. The lettering of the positive and negative pressure settings and leak rate standards on the label shall have a minimum font size of 20.

Rotatable Product and Vapor Recovery Adaptors

1. The rotatable product and vapor recovery adaptors shall not leak.
2. The product adaptor cam and groove shall be manufactured in accordance with the cam and groove specifications shown in Figure 3A of CP-201.
3. The vapor recovery adaptor cam and groove shall be manufactured in accordance with the cam and groove specifications shown in Figure 3B of CP-201.
4. Each product and vapor recovery adaptor shall be tested at the factory to, and met, the specifications listed in Table 3-1 and shall have affixed to it a card or label listing these performance specifications and a statement that the adaptor was tested to, and met such specifications.

Spill Container and Drain Valves

Each Spill Container Drain Valve shall be tested at the factory to, and met, the specification listed in Table 3-1 and shall have affixed to it a card or label listing the performance specification and a statement that the valve was tested to, and met such performance specification.

Drop Tube Overfill Prevention Device

Each Drop Tube Overfill Prevention Device shall be tested at the factory to, and met, the specification listed in Table 3-1 and shall have affixed to it a card or label listing the performance specification and a statement that the device was tested to, and met, such performance specification.

**Table 3-1
Manufacturing Component Standards and Specifications**

Component	Test Method	Standard or Specification
Rotatable Phase I Adaptors	TP-201.1B	Minimum, 360-degree rotation Maximum, 108 pound-inch average static torque
Rotatable Phase I Adaptors	Micrometer	Cam and Groove Specifications (CP-201)
Overfill Prevention Device	TP-201.1D	≤0.17 CFH at 2.00 inches H ₂ O
Spill Container Drain Valve	TP-201.1C or TP-201.1D	≤0.17 CFH at 2.00 inches H ₂ O
Pressure/Vacuum Vent Valve	TP-201.1E	Positive Pressure: 2.5 to 6.0 inches H ₂ O Negative Pressure: 6.0 to 10.0 inches H ₂ O Leak rate: ≤ 0.05 CFH at +2.0 inches H ₂ O ≤ 0.21 CFH at -4.0 inches H ₂ O

EXHIBIT 4

Manufacturer Warranties

This exhibit includes the manufacturer warranties for all components listed in Exhibit 1, including replacement parts and subparts. The manufacturer warranty tag, included with each component, shall be provided to the service station owner/operator at the time of installation.

Franklin Fueling Systems Warranty Statement and Tag

Franklin Fueling Systems (FFS) Enhanced Vapor Recovery (EVR) products are offered for sale under the brand names of Healy, INCON, Phil-Tite, EBW, and Franklin Fueling Systems (collectively referred to as "FFS EVR products"). FFS EVR products are fully tested at the time of manufacture to meet the applicable performance standards and specifications to which it was certified by the California Air Resource Board (CARB) for the duration of the warranty period, as indicated in the related CARB Executive Order (EO). Performance standards and specifications are listed in Exhibit 2 (System/Compliance Specifications) and Exhibit 3 (Manufacturing Performance Standards) in the related CARB EO.

FFS warrants that FFS EVR products installed in California will conform to the warranty terms and conditions required by the California Certification Procedure for Vapor Recovery Systems at Gasoline Dispensing Facilities (CP-201) with respect to (a) transferability of warranties for FFS EVR products, (b) design changes to FFS EVR products, (c) performance specifications of the FFS EVR products, and (d) duration of the warranty period of FFS EVR products.

FFS EVR products are warranted to the initial purchaser, and any subsequent purchaser within the warranty period, for workmanship, performance, and materials when properly installed, used and maintained in accordance with the CARB Approved Installation, Operation, and Maintenance Manuals by certified technicians or an owner/operator as defined in the related CARB EO and to generally accepted industry standards.

FFS reserves the right to make changes in the design or to make additions or improvements with respect to FFS EVR products without incurring any obligation to modify or install same on previously manufactured products, upon written approval from CARB.

FFS reserves the right to change or cancel all or any part of this limited warranty, upon written approval from CARB. Any such change or cancellation will be effective for products sold by FFS after the date of such change or cancellation. No agents, distributors, dealers, or employees of FFS are authorized to make modifications to this warranty or to make additional warranties with respect to any FFS EVR products. Accordingly, any statements made by individuals, whether oral or written, shall not constitute a warranty of FFS and shall not be relied upon.

FFS warrants the workmanship and materials of FFS EVR products to be free of defects, at the time of sale by FFS, for a period of one year (12 months) from the date of installation. When warranty for FFS EVR products cannot be verified to date of installation, claims will be honored for a period of fifteen (15) months from the date of purchase. When warranty for FFS EVR product cannot be verified to date of installation or date of purchase, claims will be honored for a period of eighteen (18) months from date of manufacture by FFS (for location of date of manufacture on components, see related CARB EO Exhibit 1 – Equipment List). In all cases, installation date or purchase date will require providing formal documentation to FFS as evidence of applicable warranty coverage or date of manufacture will be used to determine

duration of warranty period. Formal documentation may include, but is not limited to, FFS authorized service company and distributor work orders, startup/installation documentation, maintenance logs, and/or sales receipts.

FFS shall not be liable for any loss or damage whatsoever, including, without limitation, loss in profits, loss in sales, loss of fuel or other products, loss of use of equipment, facilities or service, costs of environmental remediation, diminution in property value, or any other special, incidental or consequential damages of any type or nature, and all such losses or damages are hereby disclaimed and excluded from this limited warranty.

Use of non-FFS replacement parts, the unauthorized addition of non-FFS items to FFS EVR products, and the unauthorized alteration of FFS EVR products will void warranty. FFS shall, as to each defect, be relieved of all obligations and liabilities under a components warranty if the FFS EVR products have been operated with any accessory, equipment, or a part not specifically approved by FFS and not manufactured by FFS to FFS design and specifications.

FFS EVR product warranty shall not apply to any products which have been mishandled, incorrectly installed or applied, altered in any way, which has been repaired by any party other than qualified technicians, or when such failure is due to misuse or conditions of use (such as, but not limited to, blown fuses, sheared breakaway screws, corrosion damage, negligence, accidents, or normal wear of plastic/rubber parts including scuff guards and seals). FFS EVR product warranty shall not apply to acts of terrorism, acts of war, or acts of God (such as, but not limited to, fire, flood, earthquake, or explosion). Unless otherwise expressly provided in a specific FFS written warranty, FFS does not provide coverage for labor or shipping charges, shall not be liable for any costs or charges attributable to any product testing, maintenance, installation, repair or removal, or any tools, supplies, or equipment need to install, repair, or remove any FFS EVR product.

Other than those FFS EVR products specifically designated for fuel concentrations of 85% ethanol with 15% gasoline (E85), FFS EVR product warranty shall not cover any components that have been in contact with fuel concentrations greater than 15% ethanol or 15% methanol by volume (up to E15/M15).

Claims for FFS EVR product warranty must be submitted in writing promptly after discovery of a defect with a Returned Goods Authorization (RGA) Number from FFS. FFS will honor warranty claims processed through FFS authorized service companies and distributors only. FFS will honor warranty claims submitted no more than thirty (30) days after the end of the applicable warranty period. Product returned for warranty inspection must be shipped freight prepaid to FFS's facilities, with the RGA Number indicated on the returned product, to the following address for inspection:

INCON branded products:	All other FFS EVR Products:
Franklin Fueling Systems, Inc.	Franklin Fueling Systems, Inc.
ATTN: Warranty Department	ATTN: Warranty Department
34 Spring Hill Road	3760 Marsh Road
Saco, ME 04072 USA	Madison, WI 53718 USA

Franklin Fueling Systems, upon inspection and after determination of a warranty defect, will at its option, repair or replace defective parts returned to FFS's facility or where the product is in use. Repaired or replaced parts will be returned freight prepaid by FFS.

A copy of this limited warranty is to be retained with the equipment, on-site with the facility owner/operator.

Component Model Number : _____
Component Date of Manufacturer : _____
Component Install Date : _____
Facility Name : _____
Facility Address : _____
Installer Name : _____
Installer Signature : _____

Morrison Bros. Co. Warranty Statement and Tag

WARRANTY— All Morrison products are thoroughly tested before shipment and meet all applicable performance standards and specifications of related ARB executive orders and vapor recovery procedures of CP-206 (Certification Procedure for Vapor Recovery Systems at Gasoline Dispensing Facilities Using Aboveground Storage Tanks) or CP-201 (Certification Procedure for Vapor Recovery Systems at Dispensing Facilities). This warranty shall include the ongoing compliance with all applicable performance standards and specifications for the duration of the warranty. Only material found to be defective in manufacture will be repaired or replaced. Claims must be made within one year from the date of installation, and Morrison Bros. Co. will not allow claims for labor or consequential damage resulting from purchase, installation or misapplication of the product. This warranty will include the initial purchaser and any subsequent purchasers of the initial equipment within the warranty period. This warranty registration must remain with the equipment and be provided to the end user. If a warranty claim needs to be pursued, a copy of this information and the invoice of these products to the purchaser must be supplied to Morrison for verification.

Installation Date: _____
Name Of Installer/Contractor _____
Installation Company: Name _____
Address _____
City _____ State _____ Zip _____
Business At Installation Site: Name _____
Address _____
City _____ State _____ Zip _____
Morrison Product(s) I.D Numbers With Date Of Manufacture _____

Date of manufacture can be found on the product identification label applied to the finished product. This warranty registration must remain with the equipment and be provided to the end user. If a warranty claim needs to be pursued, a copy of this information and the invoice of these products to the purchaser must be supplied to Morrison for verification.

OPW STANDARD PRODUCT WARRANTY TAG

Notice: FlexWorks by OPW, Inc., VAPORSAVER™ and all other OPW products must be used in compliance with all applicable federal, state, provincial and local laws, rules and regulations. Product selection is the sole responsibility of the customer and/or its agents and must be based on physical specifications and limitations, compatibility with the environment and material to be handled. All illustrations and specifications in this literature are based on the latest production information available at the time of publication. Prices, materials and specifications are subject to change at any time, and models may be discontinued at any time, in either case, without notice or obligation.

OPW warrants solely to its customer (the initial purchaser and any subsequent purchasers within the warranty period) that the following products sold by OPW will be free from defects in materials and workmanship under normal use and conditions for the periods indicated:

PRODUCT	WARRANTY PERIOD
FlexWorks Primary Pipe	10 years from date of manufacture
All Products and replacement parts installed in the State of California Certified to California CP-201 and/or CP-206 Standards*	1 year from-date of installation (proof of purchase from certified contractors/technicians required) OPW warrants ongoing compliance with the standards and specifications for the duration of the warranty period required by the State of California; this limited warranty is under the condition the equipment was installed and maintained by trained and certified contractors/technicians unless noted in Installation Manual
All other Products and replacement parts	1 year from date of manufacture**
*Products certified to California CP-201 and/or CP-206 Standards have been factory tested and met all applicable performance standards and specifications and will have an OPW registration card enclosed/attached to the product	

OPW's exclusive obligation under this limited warranty is, at its option, to repair, replace or issue credit (in an amount not to exceed the list price for the product) for future orders for any product that may prove defective within the applicable warranty period. (Parts repaired or replaced under warranty are subject to prorated warranty coverage for remainder of the original warranty period). Complete and proper warranty claim documentation and proof of purchase required. All warranty claims must be made in writing and delivered during the applicable warranty period to OPW at OPW 9393 Princeton-Glendale Road Hamilton, Ohio, USA 45011, Attention: Customer Service Manager. No products may be returned to OPW without its prior written authority.

This limited warranty shall not apply to any FlexWorks or VAPORSAVER™ product unless it is installed by an OPW attested installer and all required site and warranty registration forms are completed and received by OPW within 60 days of installation. This limited warranty also shall not apply to any FlexWorks, VAPORSAVER™ or other OPW product: unless all piping connections are installed with a nationally-recognized or state-approved leak detection device in each tank and dispenser sump (which are not for storage and from which all discharge hydrocarbons must be removed, and the systems completely cleaned, within 24 hours); unless testable sumps utilize FlexWorks pipe and access fittings; unless a sump inspection log or an EPA recommended/required checklist is maintained and the results are furnished to OPW upon request; and unless OPW is notified within 24 hours of any known or suspected product failure and is provided with unrestricted access to the product and the site. This limited warranty also shall not apply to any product which has been altered in any way, which has been repaired by anyone other than a service representative authorized by OPW, or when failure or defect is due to: improper installation or maintenance (including, without limitation, failure to follow FlexWorks Quick Reference Manual Installation Guide and all product warning labels); abuse or misuse; violation of health or safety requirements; use of another manufacturer's, or otherwise unauthorized, substances or components; soil or other surface or subsurface conditions; or fire,

flood, storm, lightning, earthquake, accident or any other conditions, events or circumstances beyond OPW's control.

THIS LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AND ALL OTHER WARRANTIES INCLUDING, WITHOUT LIMITATION, THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY EXCLUDED.

OPW shall have no other liability whatsoever, whether based on breach of contract, negligence, gross negligence, strict liability or any other claim, including, without limitation, for special, incidental, consequential or exemplary damages or for the cost of labor, freight, excavation, clean-up, downtime, removal, reinstallation, loss of profit, or any other cost or charges. No person or entity is authorized to assume on behalf of OPW any liability beyond this limited warranty. This limited warranty is not assignable.

**** Date of manufacture on this product is located (*location will be specific to each component*)**



North America Toll Free - TELEPHONE: (800) 422-2525 - Fax: (800) 421-3297 - Email: domesticsales@opw-fc.com

9393 Princeton-Glendale Road
Hamilton, Ohio 45011

International - TELEPHONE: (513) 870-3315 or (513) 870-3261 -
Fax: (513) 870-3157 - Email: intl@sales@opw-fc.com
www.opwglobal.com

Comp X TANK Commander Warranty Statement and Tag

Seller warrants to the initial and subsequent purchasers, for a period of one year from date of installation, that the Products sold hereunder will, at the time of delivery: (a) comply with the ARB CP-201 standards and specifications for the duration of the warranty period for such Products in effect at the time of shipment or such other specifications as are expressly agreed upon by Seller and Buyer in writing; (b) be adequately contained, packaged, and labeled; and (c) conform to any promises and affirmations of fact made on the container and label. In the event that any such Products fail to conform to the foregoing warranty, Seller will, at its option, repair or replace such nonconforming Products, or credit Buyer for an amount not to exceed the original sales price of such Products. Shipping costs incurred in returning such nonconforming Products to Seller shall be borne by Seller, but Seller shall in no event be liable for any inspection, handling, or packaging costs incurred by Buyer in connection with such Products. Buyer's negligence, misuse, improper installation, or unauthorized repair or alteration, shall void this warranty. The TANK Commander Warranty tag is located on the inside cover of the product.

Warranty Tag

TANK Commander TC-1

1 year warranty from date of installation

Date of manufacture __/__/____

The CompX TANK Commander product was factory tested and meets the standards and specifications to which it was certified by the California Air Resources Board (CARB) as indicated in the related CARB Phase I EVR Executive Orders.

Husky Corporation Warranty Statement and Tag

VAPOR PRODUCTS – Husky Corporation will, at its option, repair, replace, or credit the purchase price of any Husky manufactured product which proves upon examination by Husky, to be defective in material and/or workmanship for a period of one (1) year of installation or fifteen (15) months from the manufacture date of shipment by Husky, whichever occurs first. The warranty period on repaired or replacement vapor recovery products is only for the remainder of the warranty period of the defective product.

EVR PRODUCTS – With respect to EVR products installed in California, for a period of one (1) year from the date of installation, Husky warrants that the product will be free from defects in materials and workmanship (if the installation date is in question or indeterminable, Husky will warrant the product for 12 months from sale by Husky). Husky confirms that the warranty is transferable to a subsequent purchaser within the warranty period. However, the warranty does not follow the product from its initial installation location to succeeding locations. Husky confirms these products are warranted to meet the performance standards and specifications to which it was certified by CARB for the duration of the warranty. EVR products must be installed per CARB Executive Order and must follow the Husky Installation Instructions or the warranty is void. The warranty tag included with the EVR product must be provided to the end user at installation. A completed warranty tag and installation documentation is required to be returned with the product to be eligible for warranty consideration.

CONVENTIONAL PRODUCTS – Husky Corporation will, at its option, repair, replace, or credit the purchase price of any Husky manufactured product which proves upon examination by Husky, to be defective in material and/or workmanship for a period of one (1) year from the manufacture date of shipment by Husky.

Buyer must return the products to Husky, transportation charges prepaid. This Warranty excludes the replaceable bellows, bellows spring assembly, spout assembly and scuff guard, unless (i) damage is obvious when the product is removed from shipping carton and (ii) the defective product is returned to Husky prior to use. This warranty does not apply to equipment or parts which have been installed improperly, damaged by misuse, improper operation or maintenance, or which are altered or repaired in any way.

The warranty provisions contained herein apply only to original purchasers who use the equipment for commercial or industrial purposes. There are no other warranties of merchantability, fitness for a particular purpose, or otherwise, and any other such warranties are hereby specifically disclaimed.

Husky assumes no liability for labor charges or other costs incurred by Buyer incidental to the service, adjustment, repair, return, removal or replacement of products. Husky assumes no liability for any incidental, consequential, or other damages under any warranty, express or implied, and all such liability is hereby expressly excluded.

Husky reserves the right to change or improve the design of any Husky fuel dispensing equipment without assuming any obligations to modify any fuel dispensing equipment previously manufactured.



WARRANTY TAG
 Husky Corporation
 2325 Husky Way
 Pacific, Mo 63069
 (800) 325-3558

**Husky
General Fueling Products:**

Station Name: _____

Store #: _____ Date: _____

City: _____ State: _____

Service Contractor: _____

Service Tech: _____

Distributor: _____

No warranty accepted without warranty tag filled out completely and attached to product.

Model #: _____

Serial #: _____

Installation Date: _____

Manufacturer Lot #: _____

Work order # (if applicable): _____

RGA #: _____

Form #009179-6 03/2013

FRONT VIEW

FOR REFERENCE ONLY

Reason for Return (check all applicable):

☐ Leaking Fuel Around Spout

☐ Leaking Fuel In Trigger Area

☐ Keeps Shutting Off

☐ Will Not Shut Off

☐ Failed Pressure Decay Test

☐ Leaking Fuel at Hose Inlet

☐ Mechanical Malfunction

☐ Dispenses Fuel Without Pulling Lever

Notes / Comments: _____

EVR products installed in California are warranted for 1 year from the date of installation. Manufacturing data can be found on the product data tag attached to the product. Husky confirms the product was tested at the factory and met all applicable performance standards in CP-201 including Pressure Setting: 2.5-6.0 in W.C., Vacuum Setting: 6.0 - 10.0 in W.C., and Leak Rate: 0.05 CFH @ +2.0 in W.C. and 0.21 CFH @ -4.0 in W.C. Please provide installation documentation such as a purchase order, an invoice or a receipt at time of claim.

BACK VIEW

Veeder-Root Warranty Statement and Tag

This warranty applies only when the product is installed in accordance with Veeder-Root's specifications. This warranty will not apply to any product which has been subjected to misuse, negligence, accidents, systems that are misapplied or are not installed per Veeder-Root specifications, modified or repaired by unauthorized persons, or damage related to acts of God. Veeder-Root is not liable for incidental, consequential, or indirect damages or loss, including, without limitation, personal injury, death, property damage, environmental damages, cost of labor, clean-up, downtime, installation and removal, product damages, loss of product, or loss of revenue or profits. This warranty applies to the initial purchaser and any subsequent purchaser for the duration of the warranty period. **THE WARRANTY CONTAINED HEREIN IS EXCLUSIVE AND THERE ARE NO OTHER EXPRESS, IMPLIED, OR STATUTORY WARRANTIES. WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.**

CAP AND RING ADAPTOR

We warrant that this product shall be free from defects in material and workmanship and is compliant with all applicable performance standards and specifications for which it has been certified, for a period of one (1) year from the date of installation. During the warranty period, we or our representative will repair or replace the product, if determined by us to be defective, at the location where the product is in use and at no charge to the purchaser.

Warranty Card Language

EQUIPMENT WARRANTY

Veeder-Root warrants that this product shall be free from defects in material and workmanship and is compliant with all applicable performance standards and specifications for which it has been certified, for a period of one (1) year from date of installation.

Date of manufacture:

This component was tested at the time of manufacture and meets all the applicable performance standards and specification to which it was certified: EO VR-101 and EO VR-102.

For detailed warranty terms see EO VR101 or EO VR-102 warranty exhibits on the ARB Web site at <http://www.arb.ca.gov/vapor/eo-evrphase1.htm>