State Water Resources Control Board

Executive Office

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Arnold Schwarzenegger
Governor

April 10, 2007

Mr. Mike Bartush
OPW Fueling Components, Inc.
P.O. Box 405003
Cincinnati, OH 45240

Dear Mr. Bartush

EVALUATION OF REMOTE FILL CONFIGURATION AND OTHER ADDITIONS TO OPW PHASE I EVR SYSTEM (VR 102-G)

As you know, Assembly Bill 2955 (Statutes 2004, Chapter 649) added section 25290.1.2(a) to Chapter 6.7 of the Health and Safety Code (H&SC). This section requires the Air Resources Board (ARB) and State Water Resources Control Board (State Water Board) to certify, to the best of their knowledge and using existing resources, that equipment meeting the ARB's Enhanced Vapor Recovery (EVR) requirements also meets underground storage tank (UST) statutory requirements.

On October 18, 2006 we received an information packet from you detailing two proposed modifications to the current OPW Phase I EVR System. The first proposed modification would allow the use of the OPW 71SO Overfill Prevention Valve and new models of caps and swivel adaptors. The second proposed modification includes the OPW 61JSK-4RMT Jack Screw Kit, which would allow for filling of the UST from a remote location. The proposed modifications were reviewed by a California Registered Professional Engineer, as indicated in the enclosed signed statement. Based on this signed statement and the information that you provided, we have found no evidence that the OPW Phase I EVR System conflicts with H&SC Chapter 6.7.

Although the OPW Phase I EVR System does not conflict with H&SC Chapter 6.7, we have noted that the direct burial configuration of this system does not provide secondary containment for the tank fill riser. Secondary containment of the tank fill riser is required on all UST systems installed after July 1, 2003, and on certain other UST systems pursuant to Chapter 6.7 of the Health and Safety Code and implementing regulations. **Accordingly, the direct burial configuration can only be used on UST systems where secondary containment of the fill riser is not required.**

The following additional limitations apply to the remote fill configuration of the OPW Phase I EVR System:

1 All remote fill installations must include a tank top access port or other method that allows product level gauging prior to delivery. Owners or their agents are required to ensure that the space available in the tank is greater than the volume of product to be transferred to the tank prior to each delivery[1]. Therefore, the gauging method (tank top access, electronic gauge, etc.) should be configured to allow easy access by tank operators and delivery drivers.

2 The tank top access port must be labeled to indicate that it cannot be used to fill the tank.

3. Remote fill piping must be double-walled when connected to any of the following:
   - A UST system installed on or after July 1, 2003[2],
   - A UST system where the overfill prevention valve activates at a level greater than 95%[3],
   - A UST system where secondary containment of tank fill riser piping is otherwise required by state law or local ordinance[4].

4. When remote fill piping is required to be double-walled, the requirement applies to ALL remote fill piping components including horizontal-to-vertical transitions and the short vertical piping sections at the tank top and remote fill locations. To achieve this, single-walled piping components at the tank top and remote fill locations must be contained in sumps.

Pursuant to H&SC section 25290.1.2(a) the State Water Board certifies that, to the best of its knowledge, the OPW Phase I EVR System (available in direct bury, secondarily contained, and remote fill configurations) meets the requirements of H&SC Chapter 6.7. This determination assumes the OPW Phase I EVR System is installed in accordance with applicable ARB Executive Orders, manufacturer's instructions, and the limitations outlined in this letter.

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1 California Code of Regulations, Title 23, section 2712(k)
2 California Health and Safety Code, section 25290.1 and 25290.2
3 California Code of Regulations, Title 23, section 2636(a)(1)
4 California Health and Safety Code, section 25299.2

If you have questions regarding this letter, please contact Ms. Laura Chaddock at (916) 341-5871, or by email at lchaddock@waterboards.ca.gov.

Sincerely,

Dorothy Rice

Dorothy Rice
Executive Director

Enclosure: Certification Statement for modifications to the OPW Phase EVR System

cc: Catherine Witherspoon
Executive Officer
Air Resources Board
1001 I Street
Sacramento, CA 95814

Don Johnson
Assistant Secretary
Cal/EPA
1001 I Street
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James H. Ray
CIVIL ENGINEER
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October 4, 2006

OPW Fueling Components, Inc.
P.O. Box 405003
Cincinnati, OH 45240-5003

RE: CERTIFICATION BY STATE REGISTERED PROFESSIONAL ENGINEER
CCR Title 23, Division 3 and Chapter 16 Health and Safety Code Chapter 6.7
OPW REMOTE FILL PHASE I EVR SYSTEM
Modification to EO VR –102-E to include remote

Based on a careful review and analysis, I hereby certify that the OPW Phase I Vapor recovery System (EO VR-102-E), with one additional modification to the items now pending by application to CARB, will function as a remote fill vapor return, which is now under consideration by CARB will meet the California Air Resources Board (ARB) certification, meets the requirements of Chapter 6.7 of the Health and Safety Code.

I reviewed the following materials:

1. CARB Executive Order VR-102-E
2. OPW Drawings DC-61SALP-1020-EVR, DC-61VSA-1020-EVR, DC-634LPC-0400, ED00673ZA, DC-1711LPC-0300, E00651ZA, DC-62M-0375, EC-71SO-41OC and comparison drawing of Current CARB 61SO and New CARB 71SO
3. OPW Catalogue material on 71SO Overfill Prevention Valve.
4. OPW Installation and Maintenance Instructions for OPW 71SO-EVR VAPOR TIGHT OVERFILL PREVENTION VALVES.
5. Letter March 1, 2006 M. Bartush (OPW) to G. Lew (CARB) listing basis for enhancements and specific materials used.
6. Letter September 25, 2006 listing the specific improvement of the existing products.
7. **OPW 61JSK-4RMT Jack Screw Kit (Cap, adapter, trap door, jack screw). This is the additional item for the remote configuration.**
8. **3 OPW drawings of remote installation and parts.**
9. **1 drawing of site to be used forCARB testing.**

James H. Ray
Civil Engineer
C24518

Appendix

Certification Statement for the OPW REMOTE PHASE I EVR System

Based on a careful review and analysis, I hereby certify that the modifications to **OPW PHASE I EVR Remote Fill Configuration** which is under consideration for California Air Resources Board (ARB) certification, meets the requirements of Chapter 6.7 of the California Health and Safety Code (the State Water Resources Control Board's underground storage tank requirements, including enhanced leak detection and continuous vacuum, pressure, or hydrostatic monitoring).[2]

The **OPW PHASE 1 EVR Remote Fill Configuration** warranty is valid as long as the system is installed, operated, and maintained according to manufacturer's instructions and in a manner that does not exceed the limitations (e.g., tank capacity, fueling points, throughputs, etc.) described below.

Limitations:

Approval for Phase 1 EVR Remote Fill Configuration.

James H Ray 10-4-06
Signed by Date
(California Professional Engineer)

James H. Ray
Printed Name

(Individual)
Professional Engineer Company Name

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REGISTERED PROFESSIONAL ENGINEER
JAMES H. RAY
No. 24,518
12-31-07
CIVIL
STATE OF CALIFORNIA

Mike Bartush 10-13-06
Signed by Date
(Company Representative)

Mike Bartush
Printed Name

OPW Fueling Components
Equipment Manufacture Name

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[1]This certification statement is part of the guidelines developed by the California Code of Air Resources Board (ARP) and State Water Resources Control Board (State Water Board) to implement provisions of Assembly Bill 2955 (Statues 2004, Chapter 649:McCarthy).

[2]This certification is based on the presumption that the OPW PHASE I EVR System is constructed, installed, maintained, and operated in accordance with all applicable requirements of Chapter 6.7 of California Health and Safety Code and Chapter 16 California Code of Regulations.