



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10
1200 Sixth Avenue, Suite 155
Seattle, WA 98101

ENFORCEMENT &
COMPLIANCE ASSURANCE
DIVISION

**Clean Air Act - Section 112(r)
Risk Management Program
and EPCRA 312 – Tier II
Facility Inspection Report**

FACILITY INFORMATION:

Name: Kiva Energy- LP Terminal, LLC Washougal
Physical Address: 701 South 28th Street, Washougal, WA 98261
Phone Number: (209) 823-8005
Latitude/Longitude: 45.572722 / -122.342528
RMP Facility ID#: 1000 0019 0964
FRS ID#: 110023012862
EJ Concerns: Yes (Above 80%)

CONTACT INFORMATION (RMP Implementation):

Name: Darren Pahl
Phone Number: (209) 351-7512
E-mail: dpahl@kivaenergy.com

EMERGENCY CONTACT INFORMATION:

Name: Ed Reinhardt
Phone (24-hr): (260) 899-7829
E-mail: ereinhardt@kivaenergy.com
Website: www.kivaenergy.com

TRIP DETAILS:

Inspection Date: March 3, 2023
Inspection Time: 0900 hours through 1120 hours
Inspectors: Mhara Coffman, US EPA Region 10, Lead RMP Inspector in Training
Edward Johannes, US EPA Region 10 SEE Grantee, RMP Inspector
Erin Williams, US EPA Region 10, EPCRA Coordinator
Terry Garcia, US EPA Region 10 SEE Grantee, RMP Inspector
Lisa Graves, Weston Solutions, Inc., EPA START Contractor

DATE AND PROGRAM LEVELS OF SUBMITTED RMP:

Initial Submission Date: March 3, 2005
Date of Latest Update: September 21, 2021

Process (Program 1, 2, 3) as reported in RMP:

Process ID	Description	Process Chemical ID	NAICS Code	Program Level	Chemical Name CAS Number	Quantity (lbs)
1000119162	LPG Storage Terminal	1000149025	42471	3	Propane (74-98-6)	220,806

PURPOSE:

The purpose of this inspection was to determine whether this facility is in compliance with Section 112(r) of the Clean Air Act (CAA) and Title 40 Code of Federal Regulations (CFR) Part 68, Chemical Accident Prevention Provisions.

- The facility has been previously inspected in the past 5 years: No ☒ Yes ☐
If Yes, Date of Last Inspection:
- The facility is High Risk: No ☐ Yes ☒
- Joint EPCRA inspection: No ☐ Yes ☒

CAA Title V Air Permit:

Does the facility have a CAA Title V Permit? No ☒ Yes ☐
If Yes, Permit Number:

RELEASE/ACCIDENT HISTORY:

Did the facility have a reportable release in the past 5 years? No ☒ Yes ☐
If Yes, Date and Description of the Release:

EPCRA TIER II REPORTING:

Did the facility submit the 2022 Tier II report to the SERC? No ☐ Yes ☒
If Yes, Date the Tier II was submitted: 2/3/2023
If No, calendar year of the most recent Tier II:

Did the facility submit a Tier II to the LEPC and local fire department? No ☐ Yes ☒
If Yes, Date the Tier II was submitted: 2/14/2023

INSPECTION ENTRY:

Mhara Coffman led the inspection entry. The EPA Inspection Team (EPA) team met with Darren Pahl at the Kiva Energy - LP Terminal, LLC facility in Washougal, Washington. The team arrived at the facility at 0855 and was joined by the following facility personnel:

Name	Title
Ed Reinhardt	Terminal Operator
Les Gleaves	Terminal Operations Manager
Darren Pahl	Director

Was a state/county/or local emergency representative present? No ☒ Yes ☐
If Yes, Name and Title of Representative:

The facility is a first responder: No ☒ Yes ☐
If No, Responding Agency: Washougal Fire Department

EPA met facility representatives outside the facility's office space, due to limited space for all participants. Lead Inspector Mhara Coffman made introductions, provided a summary of the risk management program (RMP), and explained the purpose of the visit. Each EPA Inspector presented his/her credentials.

EPA then requested an explanation of the facility's operations and any additional safety measures that should be taken during the site tour. Ed Reinhardt and Les Gleaves gave a brief description of the facility, operations, and personal protective equipment required for the tour.

Prior to the inspection, EPA sent a certified notice of inspection letter to the facility informing them of the CAA Section 112(r)(6)(L) requirement that facility employees and employee representatives (such as a union representative) have the right to participate in the RMP inspection, and that a copy of the letter must be provided to the employee representative(s) and the letter posted in a manner accessible to employees in the facility.

The facility is unionized: No ☒ Yes ☐
If Yes, Name of Union:

An employee representative present during the facility visit: No ☐ Yes ☒
If Yes, Name/Title: Ed Reinhardt, Terminal Operator

GENERAL INFORMATION:

The facility is regulated under the RMP as a Program Level 3 facility and is owned and operated by Kiva Energy.

This facility is a Liquefied Petroleum Gas (LPG) bulk terminal storage location for resale to retail propane dealers. The facility consists of two 30,000-gallon aboveground storage tanks (ASTs) holding approximately 220,806 pounds each of LPG. The facility receives propane in railcars, transfers the propane to one of two pressurized propane tanks, and ships the LPG off-site with transport trucks. The only regulated substance at the facility site is LPG.

The facility has two processes for the transfer of LPG products. One process transfers LPG from a stationary pressure tanker railcar to the facility ASTs. The other process transfers LPG from the AST to a retail LPG transfer truck. Both LPG processes integrate manual and automatic emergency shutdown equipment. There is one full-time employee, who is the terminal operator for the site.

ON-SITE OBSERVATIONS:

The facility tour was conducted from approximately 0922 to 0954. Facility representative Ed Reinhardt escorted EPA and other facility personnel during the inspection, and EPA observed and inspected both LPG transfer systems and their associated workflows. Shortly after the facility tour Ed Reinhardt left the remaining inspection review due to illness.

The transfer of LPG from railcar to AST is initiated from a stationary pressure tanker railcar (photo 1) from a rail tower transfer loading station (photo 2). EPA noted the loading station product lines as rusty and deteriorated (photo 3). The LPG flow gauges are color coded to show the transfer of liquid (red gauge) and gas (yellow gauge) products (photo 4). The system has a flammable gas detector (photo 5) and a built-in hydrostatic release valve (photo 6). The transfer of product is powered through compressors and vane pumps (photo 7). Product lines are labeled with directional flow arrows and inspectors noted some of the product lines have rust deterioration (photo 8). Two product lines had UT Checkpoint markers for pipe density testing (photo 9).

Two ASTs (commonly referred to as “bullet tanks”) receive and store LPG (photo 10). Only one of the two ASTs are labeled with a tank number (Tank 1 is left facing). Both ASTs are clearly labeled with universal placards for flammable gas (photo 11). Both ASTs rest in concrete saddles and are secured in place with tank straps. EPA noted weathering on the concrete saddles and rust below the ASTs (photo 12).

The transfer of LPG from an AST to a retail transfer truck is initiated once a driver logs into the Tecalemit Control Panel system (photo 13). A driver will access the system through a touch panel interface (photo 14) inside of the entrance gate. A facility billboard communicates operating procedures to drivers visiting the facility (photo 15). The facility is equipped with three security cameras for 24-hour surveillance.

Once a driver has checked into the facility, they park in the fueling area for the LPG transfer. A green light signal (photo 16) near the Tecalemit panel will verify that the truckload is grounded. The fill meter will track the quantity of LPG dispersed and create a ticket recording the quantity received by the driver (photo 17). An unlabeled emergency shutoff mechanism is situated adjacent to the meter (photo 17). The fuel transfer system is installed with “smart hoses” (photo 18) that, in the event of a system failure, will automatically shut off the flow of LPG. In addition, the facility has a second fueling area for smaller transfer trucks, called bobtails (photo 19).

The facility has an emergency action plan in the event of a release. Other safety features observed during the inspection were the ecology blocks surrounding the LPG transfer systems, fire extinguishers (photo 20), a windsock (photo 21), and two crash gates with emergency exits (photo 22).

The photographs that were taken at the facility are included in Attachment A to this report.

After touring the RMP-covered process areas at Kiva Energy, the inspection team split up in vehicles and the facility office space review the RMP documentation. Upon completion of the document review, EPA provided a debriefing to Les Gleaves and Darren Pahl.

INFORMATION COLLECTED FROM FACILITY:

1. Emergency Action Plan – Appendix A Map
2. Washougal Washington U.S.A. LPG Storage Terminal Process Flow Diagram
3. Les Gleaves, Kiva Energy Business Card

AREAS OF CONCERNS ADDRESSED IN CLOSING CONFERENCE:

1. The facility Hazard Assessment is missing various calculations in the documentation for the offsite consequence analysis parameters. [68.20-68.42]. Kiva Energy was unable to provide documentation for the worst case scenario and alternative release scenario for the LPG process.
2. The facility did not document Process Hazard Analysis (PHA) findings and recommendations are resolved in a timely manner, what actions are to be taken, and complete actions as soon as possible for the 2019 PHA. [68.67(e)]
3. The facility has not promptly determined and documented an appropriate response to each of the findings for the 2018 Compliance Audit and documented that deficiencies have been corrected. [68.79(e)]

DOCUMENTS REQUESTED NOT INCLUDED IN REPORT:

The following documents were requested during the inspection but are not included in this report. These documents will still be reviewed to determine compliance with Section 112(r) of the CAA.

1. Copy of Tier II submittal to LEPC and local fire department.
2. RMP and COMP parameter printout
3. Worst Case Scenario maps
4. Summary description of Worst Case and Alternative Case
5. Initial Process Hazard Analysis from 1999

INSPECTION REPORT CERTIFICATION:

This is to certify that I, Mhara Coffman, was the lead inspector at this facility and that I have verified the accuracy of the observations in this inspection report:

MAIGHDEAN-**MHARA COFFMAN**

Digitally signed by MAIGHDEAN-
MHARA COFFMAN

Date: 2023.05.23 13:59:03 -07'00'

Inspector Signature

JAVIER MORALES

Digitally signed by JAVIER
MORALES

Date: 2023.05.23 14:16:20 -07'00'

RMP Coordinator/Approval

ERIN WILLIAMS

Digitally signed by ERIN WILLIAMS
Date: 2023.05.24 11:29:30 -07'00'

EPCRA Coordinator/Approval

MATTHEW QUARTERMAN

Digitally signed by MATTHEW
QUARTERMAN

Date: 2023.05.24 14:29:01 -07'00'

Land Enforcement Section Chief/Approval

Attachment A – Photo Log

Site Name: Kiva Energy LP Terminal, LLC Washougal
City, State: Washougal, Washington
Photographer: Lisa Graves

File	Photo Layout ID	Date	Time	Description
Photo 1.jpg	1	3/3/2023	9:42 AM	Stationary Railcar for Odorized Liquid Petroleum Gas (LPG)
Photo 2.jpg	2	3/3/2023	9:43 AM	Rail Towers for Railcar LPG Transfer
Photo 3.jpg	3	3/3/2023	9:50 AM	Rust on Product Transfer Lines
Photo 4.jpg	4	3/3/2023	9:50 AM	Color Coded Liquid (Red) and Gas (Yellow) LPG Valves
Photo 5.jpg	5	3/3/2023	9:52 AM	Flammable Gas Detector
Photo 6.jpg	6	3/3/2023	9:51 AM	Hydrostatic Release Valve
Photo 7.jpg	7	3/3/2023	9:31 AM	Compressors and Vane Pumps
Photo 8.jpg	8	3/3/2023	9:52 AM	Rust on LPG Transfer Line
Photo 9.jpg	9	3/3/2023	9:52 AM	UT Checkpoint for Pipe Density
Photo 10.jpg	11	3/3/2023	9:32 AM	LPG Above Ground Storage Tanks (ASTs)
Photo 11.jpg	11	3/3/2023	9:34 AM	Release Valve at Top of LPG Tank and Universal Placards for Flammable Gas
Photo 12.jpg	12	3/3/2023	9:33 AM	Weathered Tank Saddle Below the AST
Photo 13.jpg	13	3/3/2023	9:29 AM	Truck Driver Invoice System and Facility Power Supply
Photo 14.jpg	14	3/3/2023	9:29 AM	Tecalemit Control Panel
Photo 15.jpg	15	3/3/2023	9:30 AM	Facility Communication Billboard for Truck Drivers
Photo 16.jpg	16	3/3/2023	9:29 AM	Green Light Signal to Verify Truckload is Grounded
Photo 17.jpg	17	3/3/2023	9:32 AM	Fill Meter and Ticket Printer Station
Photo 18.jpg	18	3/3/2023	9:42 AM	Fill Station with "Smart Hose"
Photo 19.jpg	19	3/3/2023	9:42 AM	Fill Station for Small Transfer Trucks
Photo 20.jpg	20	3/3/2023	9:30 AM	Ecology Block Barricade for LPG Transfer System and Fire Extinguisher
Photo 21.jpg	21	3/3/2023	9:30 AM	Facility Windsock
Photo 22.jpg	22	3/3/2023	10:56 AM	Crash Gate and Emergency Exit