

**POST INSPECTION MEMORANDUM**

**Inspector:** Scott Rukke-UTC

**Reviewed:** Joe Subsits-UTC

**Peer Review:** \_\_\_\_\_

**Follow-Up Enforcement:** **No Violation**

PCP\* PCO\* NOA WL LOC

**Director Approval\*** \_\_\_\_\_

**Date:** 11/23/2011

**Operator Inspected:**

Northwest Pipeline Corp (WGP)

**OPID:** 13845

**Region:** Western

**Unit Address:**

42612 East Christy Road

P.O. Box 330

Plymouth, WA 99346

**Unit Inspected:** Plymouth LNG

**Unit ID:** 1155

**Unit Type:** Liquefied Natural Gas Plant

**Inspection Type:** Standard

**Record Location:** On-site at above address

**Inspection Dates:** November 14 - 17, 2011

**AFOD:** 6 (4 - Scott Rukke and 2 - Lex Vinsel)

**SMART Activity Number:**

**Operator Contact:** Boyd Schow

**Phone:** (801) 584-6741

**Fax:** (801) 584-6988

**Emergency:** (800) 972-7733

**Unit Description:**

Liquefied Natural Gas Plant consisting of two storage tanks with a capacity of 348,000 bbl each and 90 feet tall. The liquefaction process consists of two, 6MMCFD cold towers, each operated as an integrated cascade loop system. The facility includes four vaporizers rated at 75MMCFD. LNG 1 was placed in operation in 1975 and LNG 2 was placed in operation in 1979. Both LNG system 1 and LNG system 2 share use of the four vaporizers. The facility is located approximately 45 minutes southwest of Pasco, Washington, west of Interstate 395 and south of Highway 82, in Plymouth, Washington. The Plymouth LNG facility uses an integrated cascade loop liquefaction process to produce and store LNG gas during the summer months as a peak shaving operation. The LNG can then be vaporized and injected into the pipeline during times of higher than normal demand. LNG boil off is re-injected into the pipeline.

**Facilities Inspected:**

Operations and maintenance records were reviewed. A field inspection was conducted of fire eyes, gas detectors, random CP reads, rectifier maintenance, atmospheric corrosion, supports, tank foundations and walls, ESD's, fire protection equipment, backup power, control room, fencing and emergency valves.

**Persons Interviewed:**

Von Studer  
Joe Frazzini  
Dustin Wallis  
Boyd Schow  
Tanya Hemphill  
Justin Reynolds  
Ron Ehrstrom

**Probable Violations/Concerns:**

No violations or concerns.

**Follow up on the history of prior offenses that are still open:**

<b>Prior Offenses (for the past 5 years)</b>		
<b>CPF #</b>	<b>What type of open enforcement action(s)?</b>	<b>Status of the regulations(s) violated (Reoccurrence Offenses, Implement a NOA Revision, Completion of PCO or CO, and etc...)</b>

**Recommendations:**

Place emphasis on Unit no. 2 in 2013. Emphasis was placed on unit no. 1 in November 2011.

**Comments:**

Cathodic protections systems were off for an annual depolarization to obtain native potentials.

**Attachments:**

- PHMSA Form 4 - Standard Inspection Report of an LNG Facility
- PHMSA Form 13 - Pipeline Drug and Alcohol Questions