

**US Department of Transportation
Pipeline and Hazardous Materials Safety Administration
Office of Pipeline Safety**

**Gas IMP Field Verification Inspection
49 CFR Subparts 192.911, 192.921, 192.933, & 192.935**

General Notes:

1. This Field Verification Inspection is performed on field activities being performed by an Operator in support of their Integrity Management Program (IMP).
2. This is a two part inspection form:
 - i. A review of applicable Operations and Maintenance (O&M) and IMP processes and procedures applicable to the field activity being inspected to ensure the operator is implementing their O&M and IMP Manuals in a consistent manner.
 - ii. A Field Verification Inspection to determine that activities on the pipeline and facilities are being performed in accordance with written procedures or guidance.
3. Not all parts of this form may be applicable to a specific Field Verification Inspection, and only those applicable portions of this form need to be completed. The applicable portions are identified in the Table below by a check mark. Only those sections of the form marked immediately below need to be documented as either “Satisfactory”; “Unsatisfactory”; or Not Checked (“N/C”). Those sections not marked below may be left blank.

Operator Inspected: **Weyerhaeuser Company**

Op ID: **22515**

Perform Activity <i>(denoted by mark)</i>	Activity Number	Activity Description
	1A	In-Line Inspection
X	1B	Hydrostatic Pressure Testing
	1C	Direct Assessment Technologies
	1D	Other Assessment Technologies
	2A	Remedial Actions
	2B	Remediation – Implementation
X	3A	Preventive & Mitigative – additional measures evaluated for HCAs
X	3B	Preventive & Mitigative – automatic shut-off valves
	4A	Field Inspection for Verification of HCA Locations
	4B	Field Inspection for Verification of Anomaly Digs
	4C	Field Inspection to Verify adequacy of the Cathodic Protection System
	4D	Field inspection for general system characteristics
	attachment	Anomaly Evaluation Report
	attachment	Anomaly Repair Report

Gas IMP Field Verification Inspection Form

Name of Operator:

Headquarters Address:

Weyerhaeuser-Ostrander
3401 Industrial Way
Longview 98632

Company Official: Tim Haynes

Phone Number: (360) 636-6812

Fax Number: (360) 578-4556

Operator ID: 22515

Persons Interviewed	Title	Phone No.	E-Mail
Bob Cosentino	Consultant	530-604-3868	
Ron Kosloski	Facilities Engineer/Pipeline Operations Manager	360-636-6540	

OPS/State Representative(s): Dave Cullom – Western Region/Wa State Date(s) of Inspection: 6/24-6/25/2013

Inspector Signature: Dave Cullom Date: July 12, 2013

Pipeline Segment Descriptions: *[note: Description of the Pipeline Segment Inspected as part of this field verification. (If information is available, include the pipe size, wall thickness, grade, seam type, coating type, length, normal operating pressure, MAOP, %SMYS, HCA locations, class locations, and Pipeline Segment boundaries.)]*

The Weyerhaeuser-Ostrander Pipeline is comprised of 4 (NPS-4) (~1000ft) and 12-inch diameter (NPS-12) (~9miles), API 5L, X-42 ERW steel pipe with the 12 inch diameter sections having a nominal wall thickness of 0.25 inches for below ground sections and 0.5 nominal wall thickness for above ground sections. The entire system is treated as a class three and much of its percentage is in class three locations since it passes through several residential neighborhoods.

Site Location of field activities: *[note: Describe the portion of the pipeline segment reviewed during the field verification, i.e. milepost/stations/valves/pipe-to-soil readings/river crossings/etc. In addition, a brief description and case number of the follow up items in any PHMSA compliance action or consent agreement that required field verification. Note: Complete pages 8 & 9 as appropriate.]*

No field work was being performed during the time of the standard inspection

Summary:

The Weyerhaeuser-Ostrander Pipeline is comprised of 4 (NPS-4) (~1000ft) and 12-inch diameter (NPS-12) (~9miles), API 5L, X-42 ERW steel pipe with the 12 inch diameter sections having a nominal wall thickness of 0.25 inches for below ground sections and 0.5 nominal wall thickness for above ground sections. The company operates the natural gas transmission pipeline in Cowlitz County, Washington beginning at the Williams Pipeline Interconnection slightly north east of the City of Kelso and ending at the Longview Facility. Weyerhaeuser purchased CNG’s district regular station and uses it to control the gas to NorPac. The 4 inch line also can send gas to Solvay.

On March 1, 2010, Weyerhaeuser became part of Cosentino Consultant Corp’s Total Care Program. This means that the consultant will visit site every 90 days; has review plan for each visit to ensure all requirements are met and appropriate forms filled out. Also, he will be emailed about every gas function, etc

Weyerhaeuser also has the designs for automatic shutoff valves done and other measures for mitigation in response to PHMSA’s ANPRM Docket 2011-0023.

Findings:

No findings at this time. We will continue to work with the operator and review IM activities as needed.

Key Documents Reviewed:

Document Title	Document No.	Rev. No	Date
Weyer - IMP Manual Rev 0 (12-1-07)-Rec'vd 4-29-13.pdf	N/A	0	12-1-07
Weyer - O&M Manual Rev 3D, (Rec'vd 4-29-13).pdf	N/A	3D	9-15-12

Part 1 - Performance of Integrity Assessments

1A. In-Line Inspection	Satisfactory	Unsatisfactory	N/C	Notes:
Verify that Operator’s O&M and IMP procedural requirements (e.g. launching/receiving tools) for performance of ILI were followed.			X	Hydrostatic testing is performed
Verify Operator’s ILI procedural requirements were followed (e.g. operation of trap for launching and receiving of pig, operational control of flow), as appropriate.				
Verify ILI tool systems and calibration checks before run were performed to ensure tool was operating correctly prior to assessment being performed, as appropriate.				
Verify ILI complied with Operator’s procedural requirements for performance of a successful assessment (e.g. speed of travel within limits, adequate transducer coverage), as appropriate.				
Document ILI Tool Vendor and Tool type (e.g. MFL, Deformation). Document other pertinent information about Vendor and Tool, as appropriate				
Verify that Operator’s personnel have access to applicable procedures for preparing, running and monitoring the pipeline for ILI tools include performance requirements (e.g.: tool speeds, pipe cleanliness, operation of tool sensors, and ILI field calibration requirements), as appropriate.				
Other:				
<i>[Note: Add location specific information, as appropriate.]</i>				
1B. Hydrostatic Pressure Testing	Satisfactory	Unsatisfactory	N/C	Notes:See Appendix D of O&M manual
Verify that hydrostatic pressure tests complied with Part 192 Subpart J requirements.	X			
Review documentation of Hydrostatic Pressure Test parameters and results. Verify test was performed without leakage and in compliance with Part 192 Subpart J requirements.				
Review test procedures and records and verify test acceptability and validity.				
Review determination of the cause of hydrostatic test failures, as appropriate.				
Document Hydrostatic Pressure Test Vendor and equipment used, as appropriate.				
Verify that the baseline assessment is conducted in a manner that minimizes environmental and safety risks (reference §192.919(e) and ADB-04-01)				
Other:				
1C. Direct Assessment Technologies	Satisfactory	Unsatisfactory	N/C	Notes:
Verify that application of “Direct Assessment Technology” complied with Part 192.923			X	Hydrostatic testing is performed
Review documentation of Operator’s application of “Direct Assessment Technology”, if available. Verify compliance with Part 192.923 and Operator’s procedural requirements, as applicable.				
Verify that appropriate tests and/or inspections are being performed and appropriate data is being collected, as appropriate.				
Other:				
1D. Other Assessment Technologies	Satisfactory	Unsatisfactory	N/C	Notes:
Verify that application of “Other Assessment Technology” complied with Operator’s requirements, that appropriate notifications had been submitted to PHMSA, and that appropriate data was collected.			X	Hydrostatic testing is performed
Review documentation of notification to PHMSA of Operator’s application of “Other Assessment Technology”, if available. Verify compliance with Operator’s procedural requirements. If documentation of notification to PHMSA of Operator’s application of “Other Assessment Technology” is available, verify performance of assessment within parameters originally submitted to PHMSA.				
Verify that appropriate tests are being performed and appropriate data is being collected, as appropriate.				
Other:				

Part 2 - Remediation of Anomalies

2A. Remedial Actions – Process	Satisfactory	Unsatisfactory	N/C	Notes:
Verify that remedial actions complied with the Operator’s procedural requirements.			X	
Witness anomaly remediation and verify documentation of remediation (e.g. Exposed Pipe Reports, Maintenance Report, any Data Acquisition Forms). Verify compliance with Operator’s O&M Manual and Part 192 requirements.				Hydrostatic testing is performed. No failures during the test were reported.
Verify that Operator’s procedures were followed in locating and exposing the anomaly (e.g. any required pressure reductions, line location, identifying approximate location of anomaly for excavation, excavation, coating removal).				
Verify that procedures were followed in measuring the anomaly, determining the severity of the anomaly, and determining remaining strength of the pipe. Review the class location factor and failure pressure ratio used by Operator in determining repair of anomaly.				
Verify that Operator’s personnel have access to and knowledge of applicable procedures.				Cathodic Protection readings of pipe to soil at dig site (if available): On Potential: _____mV Off Potential: _____mV
Other:				<i>[Note: Add location specific information and note whether CP readings were from the surface or from the pipe following exposure, as appropriate.]</i>
2B. Remediation - Implementation	Satisfactory	Unsatisfactory	N/C	Notes:
Verify that the operator has adequately implemented its remediation process and procedures to effectively remediate conditions identified through integrity assessments or information analysis.			X	
If documentation is available, verify that repairs were completed in accordance with the operator’s prioritized schedule and within the time frames allowed in §192.933(d).				Hydrostatic testing is performed. No failures during the test were reported.
Review any documentation for this inspection site for an immediate repair condition (§192.933(d)(1)) where operating pressure was reduced or the pipeline was shutdown. Verify for an immediate repair condition that temporary operating pressure was determined in accordance with the requirements in §192.933(a) or, if not applicable, the operator should provide an engineering basis justifying the amount of pressure reduction.				
Verify that repairs were performed in accordance with §192.103, §192.111, §192.713, §192.717, §192.719, §192.933 and the Operator’s O&M Manual, as appropriate. If welding is performed, verify a qualified welding procedure and qualified welders are used to perform repairs. If composite repair methods are used, verify that a method approved by the Operator is used, procedures are followed, and qualified personnel perform the repair.				
Review CP readings at anomaly dig site, if possible. (See Part 4 of this form – “Field Inspection to Verify adequacy of the Cathodic Protection System” , as appropriate.				Cathodic Protection readings of pipe to soil at dig site (if available): On Potential: _____mV Off Potential: _____mV
Other:				<i>[Note: Add location specific information and note whether CP readings were from the surface or from the pipe following exposure, as appropriate.]</i>

Part 3 - Preventive and Mitigative Actions

3A. P&M Measures for Third Party Damage	Satisfactory	Unsatisfactory	N/C	Notes:
Identify additional measures evaluated for the HCA section of the pipeline and facilities.	X			3 rd party is considered a threat and the following steps have been taken.
Verify that P & M measures regarding threats due to third party damage are being implemented: [§192.915(c), §192.935(b)(1)(iv)]:				
Confirm the use of qualified personnel for marking, locating, and direct supervision of known excavation work, as appropriate.				It is now policy to have a qualified observer present when excavation is scheduled to occur in proximity to the pipeline.
Confirm the use of qualified personnel for monitoring of excavations conducted on covered pipeline segments by pipeline personnel, as appropriate.				
Other:				[Note: Add location specific information, as appropriate.]
3B. Installed Automatic Shut-off Valves (Protocol H.07)	Satisfactory	Unsatisfactory	N/C	Notes:
Verify additional preventive and mitigative actions implemented by Operator.	X			The designs are in place for ASVs
Document that additional measures evaluated by the operator cover alternatives such as, installing Automatic Shut-off Valves or Remote Control Valves, installing computerized monitoring and leak detection systems, replacing pipe segments with pipe of heavier wall thickness, providing additional training to personnel on response procedures, conducting drills with local emergency responders and implementing additional inspection and maintenance programs, as appropriate				
Verify that the operator has a process to decide if automatic shut-off valves or remote control valves represent an efficient means of adding protection to potentially affected high consequence areas. [§192.935(c)] **Notes – In Appendix I of the IMP manual****				
Verify operation of installed remote control valve by reviewing operator inspection/remote control records for partially opening and closing the valve, as appropriate. ***Notes – The RCV design is in place, but not installed as of this inspection date****				
Other:				[Note: Add location specific information, as appropriate.]

Part 4 - Field Investigations (Additional Activities as appropriate)

4A. Field Inspection for Verification of HCA Locations				Satisfactory	Unsatisfactory	N/C	Notes:
Review HCAs locations as identified by the Operator. Utilize NPMS and Operator maps, as appropriate.				X			
Verify that the operator's integrity management program includes accurate and updated system maps or other suitably detailed means documenting the pipeline segment locations that are located in high consequence areas, as appropriate. [§192.905(a)]							
Review the operator's applicable procedures and forms used to document new information from one-calls, surveys, aerial & ground patrols are being completed by field personnel to communicate new developments that may impact high consequence areas or that may create new high consequence areas to IM personnel, as appropriate. [§192.905(c)]							
Review the operator's applicable procedures and forms to confirm that new HCAs and class location changes are being identified through it's continuing surveillance program as required by §192.613 and §192.905.							[Note: Add location specific information, as appropriate.]
4B. Field Inspection for Verification of Anomaly Digs				Satisfactory	Unsatisfactory	N/C	Notes:
Verify repair areas, ILI verification sites, etc.						X	
Document the anomaly dig sites observed and reviewed as part of this field activity and the actions taken by the operator.							[Note: Add location specific information, as appropriate.]
4C. Field Inspection to Verify adequacy of the Cathodic Protection System				Satisfactory	Unsatisfactory	N/C	Notes:
In case of hydrostatic pressure testing, Cathodic Protection (CP) systems must be evaluated for general adequacy.				X			
The operator should review the CP system performance in conjunction with a hydrostatic pressure test to ensure the integrity assessment addressed applicable threats to the integrity of the pipeline. Has the operator reviewed the CP system performance in conjunction with the hydrostatic pressure test?							The operator in its baseline assessment looked at CP history and we looked at numerous CP records, reports and conducted field reads as well.
Review records of CP readings from CIS and/or annual survey to ensure minimum code requirements are being met, if available.							
Review results of random field CP readings performed during this activity to ensure minimum code requirements are being met, if possible. Perform random rectifier checks during this activity and ensure rectifiers are operating correctly, if possible.							Cathodic Protection readings of pipe to soil at dig site (if available): On Potential: _____mV Off Potential: _____mV [Note: Add location specific information and note whether CP readings were from the surface or from the pipe following exposure, as appropriate.]
4D. Field inspection for general system characteristics				Satisfactory	Unsatisfactory	N/C	Notes:
Through field inspection determine overall condition of pipeline and associated facilities for a general estimation of the effectiveness of the operator's IMP implementation.				X			
Evaluate condition of the ROW of inspection site to ensure minimum code requirements are being met, as appropriate.							
Comment on Operator's apparent commitment to the integrity and safe operation of their system, as appropriate.							
Check ROW for pipeline markers in line-of-sight and Emergency call-in number on marker posts.							

Other:	

Anomaly Evaluation Report *(to be completed as appropriate)*

Pipeline System and Line Pipe Information		
Operator (OpID and System Name):		
Unit ID (Pipeline Name)		
Pipe Manufacturer and Year:	Seam Type and Orientation:	
Pipe Nominal OD (inch):	Depth of Cover:	
Pipe Nominal Wall thickness (inch):	Coating Type and Condition:	
Grade of Pipe:	MAOP:	
ILI Reported Information		
ILI Technology (e.g., Vendor, Tools):		
Anomaly Type (e.g., Mechanical, Metal Loss):		
Is anomaly in a segment that can affect an HCA? (Yes / No)		
Date of Tool Run (MM/DD/YY):	Date of Inspection Report (MM/DD/YY):	
Date of "Discovery of Anomaly" (MM/DD/YY):		
Type of "Condition" (e.g.; Immediate; 60-day; 180-day):		
Anomaly Feature (Int/Ext):	Orientation (O'clock position):	
Anomaly Details: Length (in):	Width (in):	Depth (in):
Anomaly Log Distance (ft):	Distance from Upstream weld (ft):	
Length of joint(s) of pipe in which anomaly is identified (ft):		
Anomaly Dig Site Information Summary		
Date of Anomaly Dig (MM/DD/YY):		
Location Information (describe or attach map):		
Mile Post Number:	Distance from A/G Reference (ft):	
Distance from Upstream weld (ft):		
GPS Readings (if available) Longitude:	Latitude:	
Anomaly Feature (Int/Ext):	Orientation:	
Length of joint of pipe in which anomaly is found (ft):		
For Mechanical Damage Anomaly		
Damage Type (e.g., original construction, plain dent, gouge):		
Length (in):	Width (in):	Depth (in):
Near a weld? (Yes / No):		
Gouge or metal loss associated with dent? (Yes / No):		Are multiple dents present? (Yes / No):
Did operator perform additional NDE to evaluate presence of cracks in dent? (Yes / No):		
Cracks associated with dent? (Yes / No):		
For Corrosion Metal Loss Anomaly		
Anomaly Type (e.g., pitting, general):		
Length (in):	Width (in):	Max. Depth (in):
Remaining minimum wall thickness (in):	Maximum % Wall Loss measurement(%):	
Safe pressure calculation (psi), as appropriate:		
For "Other Types" of Anomalies		
Describe anomaly (e.g., dent with metal loss, crack, seam defect, SCC):		
Length (in):	Width (in):	Max. Depth (in):
Other Information, as appropriate:		
Did operator perform additional NDE to evaluate presence of cracks? (Yes / No):		
Cracks present? (Yes / No):		

Anomaly Repair Report *(to be completed as appropriate)*

Repair Information		
Was a repair of the anomaly made? (Yes / No):		
Was Operating Pressure Reduced per 192.933(a) requirements?		
Was defect ground out to eliminate need for repair? (Yes / No):		
If grinding used, complete the following for affected area:		
Length (in):	Width (in):	Depth (in):
If NO repair of an anomaly for which RSTRENG/B31.G is applicable, were the Operator's RSTRENG/B31.G calculations reviewed? (Yes / No):		
If Repair made, complete the following:		
Repair Type (e.g., Type B-sleeve, composite wrap)		
Was defect ground out prior to making repair? (Yes / No):		
Operating Pressure at the time of repair:		
Length of Repair:	Pipe re-coating material used:	
Comments on Repair material, as appropriate (e.g., grade of steel, wall thickness):		
Comments on Repair procedure, as appropriate (e.g., welded sleeve, composite wrap):		
General Observations and Comments		
Was a diagram (e.g., corrosion map) of the anomaly made? (Yes / No):		(Include in report if available)
Were pipe-to-soil cathodic protection readings taken? (Yes / No):		
If CP readings taken, Record: On Potential: _____ mV; Off Potential: _____ mV		
<i>[Note: Note whether CP readings were from the surface or from the pipe following exposure, as appropriate.]</i>		
Describe method used by Operator to locate anomaly (as appropriate):		
Comments regarding procedures followed during excavation, repair of anomaly, and backfill (as appropriate):		
General Observations and Comments <i>(Note: attach photographs, sketches, etc., as appropriate):</i>		