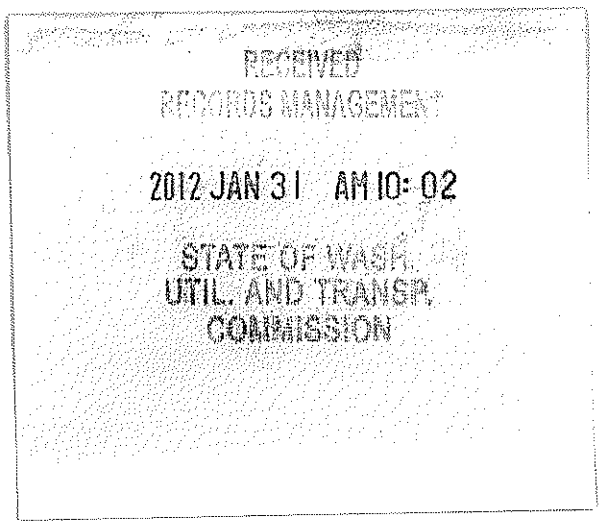
Georgia Pacific
Camas Facility

July 2011 Natural Gas Pipeline Safety Inspection

WACU Docket PG-110017



January 27, 2012

Georgia Pacific - Camas Facility
July 2011 Natural Gas Pipeline Safety Inspection
WACU Docket PG-110017

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INDEX OF ATTACHMENTS

3.9 Summary of Qualification Requirements for Pipeline Contractors

The following steps must be completed prior to a contractor performing any covered tasks on the pipeline. These requirements are in addition to the standard and customary terms and conditions a contractor must satisfy in order to work for GP. This listing is only a summary of major requirements. Persons responsible for selecting and qualifying contractors should consult the relevant O&M manual procedures to ensure compliance with all requirements.

A contractor is any entity or individual (other than GP or a GP employee) contracted and/or under purchase order to provide services on behalf of GP. This would apply to service providers that work for multiple utilities and specialty contractors. Typical tasks may include; excavators, construction contractors, welders, corrosion inspectors, leakage inspectors, welding inspectors, pipeline locators, NDT contractors etc.

Operator Qualification:

Refer to the Natural Gas Pipeline Operator Qualification program located in Section 6 of the O&M Manual for complete requirements.

1. The Reliability Leader may approve an outside contractor to perform covered tasks on the pipeline if they are deemed qualified under an equivalent qualification plan and if the plan is deemed equivalent to that of the Camas Mill.
2. Contractors will be required to submit credentials for review by the Reliability Leader to determine if the credentials satisfy the minimum requirements of the Camas Mill OQ Program
3. Written confirmation will be sent to the contractor advising that the Camas Mill has accepted the Contractors OQ program and will specifically identify which covered tasks the Contractor is authorized to perform.
4. Two methods of qualification are required; confirm that the Contractor's training program provides knowledge training (e.g., classroom instruction, videos, reading material, etc.) and performance verification.

Note that NDT Contractors have additional requirements. Some of the additional requirements are list below. See Section 4 Appendix II for additional NDT requirements.

- NDT contractors must receive a copy GP Camas NDT procedures.
- NDT contractors shall submit written certification of qualification to Georgia Pacific prior to beginning work.
- The non-destructive Technicians employed by the CONTRACTOR shall be qualified in accordance with ASNT SNT-TC-1A requirements
- Only Technicians holding a Level II or higher rating for the method being used shall perform non-destructive testing and interpretation.
- Proof of Technicians certification will be required along with current eye examination.

Recordkeeping Requirements:

A copy of the contractor's OQ plan, copy of the Plan approval letter, and if applicable a copy of Veriforce employees and contractors, copy of API, NACE, etc. with acceptable methods, recertification time lines and span of control.

Determine Qualification Requirements

Each Covered Task will have maintained qualification records and other pertinent records for employees and contractors to support each activity qualified under. Records will be maintained for five years and the current certification.

1. Identification of Qualified Individual
2. Identification of Covered Tasks that the individual is qualified to perform
3. Date of the current Qualification
4. Method of Qualification
5. Re-Qualification date

Contractor Qualification Checklist

G-P uses the "Pipeline Maintenance & Construction" check list that can be found with forms and end of section 3 of this manual.

Drug and Alcohol Qualification:

Contractors must have drug and alcohol plans in effect that meet the requirements of DOT Part 199 and 40. Per the requirements of the Georgia Pacific Drug and Alcohol plans the following actions are required for a contractor to be eligible to bid or perform work for GP. See the Contractor Monitoring requirements located in Section XV of the Anti-Drug Plan and in Section XIV of the Alcohol Misuse Prevention Plan for detailed requirements.

1. The contractor shall submit copies of their plans to GP for review.
2. Upon approval, written letter of acceptance is sent to the contractor. The contractor is now eligible to bid on work.
3. Contract employees must have pre-employment drug screening results prior to performing covered tasks
4. Workers must be in a random testing pool.

Recordkeeping Requirements:

Retain copy of the contractor's approved Anti-Drug and Alcohol plans, copy of the Plan approval letter.

Contractor Pre-Qualification Review

- ☐ OQ Program – Confirm the contractor has qualified personnel as deemed appropriate for the Covered Tasks associated with the scope of work
- ☐ Has the contractor safety program been reviewed and approved?
- ☐ Review the contractor's financial strength.
- ☐ Has a negotiated agreement/insurance been completed?
- ☐ Have the contractor compliance programs and performance been reviewed and approved?
- ☐ See attachment 17 "Pipeline Maintenance Construction" check list.

CATHODIC PROTECTION ENGINEERING, INC.

3853 FAIRHAVEN DR. * WEST LINN, OR 97068 * (503) 720-3220

TO: Georgia Pacific Consumer Products
Attn: Steve Ringquist
401 NE Adams St
Camas, Wa 98607

Date: January 12, 2012

Re: SR-14 & Union St. Project Design Document Revisions

The design document dated 10/17/11 supersedes the original design document dated 4/14/10. The revised design document confirms the X-52 material grade.

Please remove the design document dated 14/14/10 from the SR-14 Project hard copy reports and replace with the attached update design document dated 10/17/11.

Hard copy reports are held by: Steve Ringquist, George Kelsey & Roy Rogers.

The revised design document original shall also be placed in the pipeline file under test records and a copy shall be included in Section 8 of the O & M Manual.

Roy Rogers

Roy Rogers P.E.
Principal Engineer

GEORGIA PACIFIC CONSUMER PRODUCTS, LLC - CAMAS MILL

DESIGN DOCUMENT

DATE: 10/17/2011
PREPARED BY: Roy Rogers
PROJECT: SR-14 & SE UNION ST RELOCATION PROJECT
DESCRIPTION: REPLACE 380FT OF MAIN IN CONFLICT WITH WDOT INTERCHANGE PROJECT (Post construction design document to reflect dual grade X52 / X42 material and test length = 380 ft)

DESIGN DATA:	Location Class:	3	(DOT 192.5)
	Design Factor (F):	0.50	(DOT 192.111)
	Design Pressure (P):	800	psig
	MAOP:	250	psig
PIPE DATA:			
	Outside Diameter (D):	10.75	inches
	Wall Thickness (t):	0.307	inches
	Pipe Grade:	X-52	(B, X42, X52,X60)
	Longitudinal Joint Factor (E):	1.0	(DOT 192.113)
	Yield Strength (S):	52,000	(DOT 192.107, 192.3)
	Temperature Derating Factor (T):	1.0	(DOT 192.115)
	Length (L):	380	Feet
CALCULATIONS:		(DOT 192.105)	
	P(allowable) = 2*S*t*F*E*T/D	1,485	psig
	S(hoop)=(P*D)/(2*t)	14,007	psig
	% SMYS = 100*S(hoop)/S	26.9	%
	Pressure at 100% SMYS = 2*S*t/D	2,970	psig
OTHER:			
	1. Fittings *	(DOT 192.149)	
	Minimum Wall Thickness: 0.365 inches or	0.365	inches
	Minimum Yield Strength: 52K psi or	52K	psi
	2. Hydrostatic Test	(DOT 192.505, 192.507)	
	Hydrostatic Test Required:	YES	
	Minimum Test Pressure:	375	psig
	Maximum Test Pressure = .95*2*S*t/D	2,822	psig
	Test Duration	8	hrs
	3. Nondestructive Weld Test (X-ray)	(DOT 192.241)	
	% of welds to be inspected	100	%
	4. Pack volume of gas		
	Vol = p*d*d*L/2695	3,477	cu. ft
	p= Normal operating pressure psig 240 psig		
	d= Pipe inside diameter, inches = 10.14 inches		
	5. Sectionalizing valves required? (yes/no)	No	(DOT 192.179, 192.181)

Roy Rogers
Approved by

10/17/11
Date

GEORGIA PACIFIC CONSUMER PRODUCTS, LLC - CAMAS MILL

DESIGN DOCUMENT

DATE: 10/4/2011
PREPARED BY: Roy Rogers
PROJECT: SR-14 & SE UNION ST RELOCATION PROJECT
DESCRIPTION: Prepared for WUTC regarding the % SMYS at the hydrostatic test pressure of 1346 ps

DESIGN DATA:

Location Class:		3	(DOT 192.5)
Design Factor (F):		0.50	(DOT 192.111)
Design Pressure (P):	(Hydrostatic test pressure	1363	psig
MAOP:		250	psig

PIPE DATA:

Outside Diameter (D):	10.75	inches
Wall Thickness (t):	0.307	inches
Pipe Grade:	x-52	(B, X42, X52,X60)
Longitudinal Joint Factor (E):	1.0	(DOT 192.113)
Yield Strength (S):	52,000	(DOT 192.107, 192.3)
Temperature Derating Factor (T):	1.0	(DOT 192.115)
Length (L):	380	Feet

CALCULATIONS:

	(DOT 192.105)	
P(allowable) = 2*S*t*F*E*T/D	1,485	psig
S(hoop)=(P*D)/(2*t)	23,864	psig
% SMYS = 100*S(hoop)/S	45.9	%
Pressure at 100% SMYS = 2*S*t/D	2,970	psig

OTHER:

1. Fittings *

			(DOT 192.149)	
Minimum Wall Thickness	0.365	inches or	0.365	inches
Minimum Yield Strength:	52K	psi or	52000 K	psi

2. Hydrostatic Test

	(DOT 192.505, 192.507)	
Hydrostatic Test Required:	YES	
Minimum Test Pressure:	375	psig
Maximum Test Pressure = .95*2*S*t/D	2,822	psig
Test Duration	8	hrs

3. Nondestructive Weld Test (X-ray)

	(DOT 192.241)	
% of welds to be inspected	100	%

4. Pack volume of gas

Vol = p*d*d*L/2695 — 3,477 cu. ft
p= Normal operating pressure psig 240 psig
d= Pipe inside diameter, inches = 10.14 inches

5. Sectionalizing valves required? (yes/no) — No — (DOT 192.179, 192.181)

Roy Rogers P.E. — Approved by
10/4/11 — Date

Pipeline Maintenance Construction Check List
Date: 1/25/2012

No.	Question	Response
Pipeline Specific Questions		
1	Does your company's Abrasive Blasting Program prohibit the use of blast media containing more than 1% free silica?	
2	Are your company's employees aware that if they generate hazardous waste while completing work on a GP asset, waste must be handled - identified, containerized, labeled, and stored in accordance with 40 CFR Parts 261, 262 and 265?	
3	Does your company have a program and training that meet the Pre-Transportation requirements of 40 CFR Part 262 Subpart C, Standards Applicable to Transporters of Hazardous Waste in 40 CFR Part 263, and DOT requirements in 49 CFR 172.704?	
4	Are your employees aware that if they generate Universal Waste while completing work on a GP asset, waste must be handled - identified, containerized, labeled, and stored in accordance with 40 CFR Part 273?	
5	Are your employees aware that if they generate used oil while completing work on a GP asset, waste must be handled - identified, containerized, labeled, and stored in accordance with 40 CFR Part 279 regulations?	
6	Are your employees aware that when chlorofluorocarbons (CFCs or Freon) are removed from refrigeration or air conditioning systems, they must be reclaimed for reuse?	
7	Are your company's employees aware that PCB dielectric fluids and the electrical equipment in which they are contained are managed in accordance with the regulations in 40 CFR Part 761?	
8	Are your company's employees aware that if they generate asbestos waste while completing work on a GP asset, waste must be managed in accordance with 40 CFR Parts 763 and 40 CFR Part 61.150?	
9	Are your company's employees aware that if they generate waste water while completing work on a GP asset, the water must either be managed offsite as a solid or hazardous waste, or if discharged onsite, a permit is required?	
10	Are your company's employees aware that if they generate air emissions while completing work on a GP asset, prior authorization or a permit may be required?	
11	Does the contractor have an applicator's license to apply/use pest control products?	
12	Does the contractor use only registered pest control products?	
13	Does your company's State One Call Program address underground installations?	
14	Does the program address the first responder awareness level? Individuals who are likely to witness or discover a hazardous substance release and who have been trained to initiate an emergency response sequence by notifying the proper authorities of the release. 1910.120(q)(6)(i)	
Incident Investigation, Reporting and Analysis		
15	Does your company have an accident and incident reporting system in place?	
16	Does your company have a policy or system requiring written accident/incident reports (spills, injuries, property damage, near misses, fires, explosions, motor vehicle crashes, etc.)?	
17	Does your company conduct accident/incident investigations?	
18	Does your company have a written process in place to share the lessons learned from accidents and incidents with the entire workforce?	
Environmental Policy and Controls		
19	Has your company reported any spills or releases in the last three (3) years?	
20	Has your company received any environmental charges and/or fines within the last three (3) years?	
21	Does your compnay have a system in place to control hazardous materials that will be brought to, used on, and removed from the worksite?	
22	Are your company's work sites and procedures periodically audited by an accredited HSE auditor to measure the effectiveness of your HSE programs?	
General Information		
23	Does your company have scheduled documented employee safety meetings?	
24	Does your company hold onsite (tailgate/toobox/pre-tour/pre-job/pre-start) safety meetings?	
25	Does your company have a policy stating that no weapons or firearms of any type are allowed on the worksite?	
26	Does your company perform Job Safety Analysis (JSA)/Job Risk Analysis (JRA)/Job Hazard Analysis (JHA) or equivalent?	

Pipeline Maintenance Construction Check List
Date: 1/25/2012

No.	Question	Response
27	Does your company have a formal Drug and Alcohol Policy?	
28	Are your company's employees subject to Pre-Employment drug and alcohol screening?	
29	Are your company's employees subject to "for cause" drug and alcohol screening?	
30	Are your company's employees subject to Random drug and alcohol screening?	
31	Does your company's drug testing program satisfy DOT regulation: Pipeline and Hazardous Materials Safety Administration (PHMSA) 49 CFR, Part 199?	
32	Does your company have a written Substance Abuse Awareness program/policy?	
33	Is your company's First Aid employee training documented?	
34	Is your company's Hazard Communication employee training documented?	
35	Does your company maintain training records for your company's employees and/or subcontractors?	
36	Does your company use Health, Safety, Security, Environmental (HSSE), and/or OQ performance criteria in selection of subcontractors?	
37	Does your company verify that subcontractors meet or exceed your company's safety and training requirements?	
38	Do your company's employees read, write, and understand English such that they can perform their job tasks safely without an interpreter?	
Safety Statistics		
39	Has your company received an CITATIONS from a regulatory agency during the last three (3) years? *(Note: Answer of 0 = No, 1 = Yes)*	
40	If your company received any citations or fines from a regulatory agency during the last three (3) years, how many citations have been issued?	
41	If citation(s) have been issued, have all issues been resolved with the regulatory agency?	
42	Average TRIR for the past three (3) years?	
43	Total Recordable Incident Rate (TRIR) average from the last four (4) quarters?	
44	Lost Time Case (LTC) Rate from the last four (4) quarters?	
45	Total Number of Exposure or Employee Hours?	
46	Total Number of Cases with Days Away from Work?	
47	Total Number of Cases with Restricted/Job Transfer Work Days?	
48	Total Number of Other Recordable Cases?	
49	Total Number of Restricted/Job Transfer Work Days?	
50	Total Number of Days Away from Work?	
51	Total Number of Recordable Cases?	

Georgia-Pacific Public Awareness Communication

Location

City_____ State____ County/Parish_____ Station #_____

Contact Information

Contact Type_____ Company_____ _____ First/Last Name_____ _____
Phone#_____ Street Address_____ City_____
State___ Zip_____ ___ E-Mail_____ Contact Date_____

Public Awareness Communication

Contact Method (circle one) Face to Face Mail Meeting Phone Fax E-Mail

Excavation	Public	Discussion Items
☐	☐	Recognize Pipeline Location
☐	☐	Recognize Emergency, Report an Emergency
☐	☐	Safe Excavating/Digging Practices/One Call Requirement
☐	☐	Safety Precautions, Ignition Prevention, Product Avoidance
☐	☐	Emergency Phone Numbers
Y ☐	N ☐	Did You Leave a Public Awareness Brochure?
Y ☐	NA	Did You Attend Excavator or Safety Meeting?
Y-N	Y-N	Is Additional Follow-up Required?

No Locate Request

☐ Stakeholder Digging Without a One-Call Locate Request and Reasons Checked:

- ☐ Didn't know anything was underground
- ☐ Didn't know it was required
- ☐ Rush job
- ☐ Only hand digging
- ☐ Only digging a few inches deep
- ☐ Only excavating on private property
- ☐ Other (Explain)_____

Identified Sites – Provide detail in Comments section

☐ Land Use	☐ Increase in Residential Encroachment
☐ Land Development	☐ Farming Activity
☐ Increase in Excavating	☐ Specific Local Situation

Comments

*Employee Signature*_____ *Print Name*_____

*Date*_____

VALVE INSPECTION AND REPAIR

(Natural Gas Pipeline)

One form is to be completed for each valve, each time it is inspected, repaired, or replaced. The four, eight and ten inch valves are sealed units and do not require external servicing. If these valves do not operate smoothly, or they show other indications of an internal problem, they are to be torn down and serviced according to manufacturer's recommendations. The 3/4, one, and two inch valves also do not require external servicing, but must be replaced if their performance is suspect. Immediately notify the Utilities Operations Team Leader of problems for further action. Turn in each completed form to the Reliability Leader for placement in the gas line files.

VALVE (Check One)

(X)	#1	8 inch main blocking valve at Washougal WFS station	(Normally Open)
( )	#1A	10 inch pig valve at Washougal WFS station	(Normally Closed)
( )	#1B	4 inch pig system bypass valve at Washougal WFS station	(Normally Closed)
( )	#1C	2 inch pig system vent valve at Washougal WFS station	(Normally Closed)
( )	#1D	1 inch convenience valve at Washougal WFS station	(Normally Closed)
( )	#1E	3/4 inch convenience valve at Washougal WFS station	(Normally Closed)
( )	#2	10 inch main blocking valve at South Mill	(Normally Open)
( )	#3	10 inch main blocking valve at mill metering station	(Normally Open)
( )	#3A	10 inch pig valve at mill metering station	(Normally Closed)
( )	#3B	4 inch pig system bypass valve at mill metering station	(Normally Closed)
( )	#3C	2 inch pig system vent valve at mill metering station	(Normally Closed)
( )	#3D	1 inch convenience valve at mill metering station	(Normally Closed)
( )	#3E	3/4 inch convenience valve at mill metering station	(Normally Closed)

INSPECTION

Quarterly: (For all Valves)*
Visual inspection for signs of damage or leakage and correct valve positions.
Results: **No damage or leakage conditions observed, valve was found locked in the open position.**

Annually: (For all Valves)**
Operate valve approximately 5% of range. Lubricate locks on valves.
Results **Operated valve through 5% of operating range. Valve operated properly, locks lubricated.**

Date: **9/10/11** **Roy Rogers** Roy Rogers
Signature of Inspector

REPAIR/REPLACEMENT***
None Required

Date: _____

_____
Signature of Mechanic

* Indications of gas leak require a special leak survey and investigation.
** Note that the mill confined space procedure is required to enter the vault for Valve #2.
*** Must be followed by a special leak survey at operating pressure.

Updated July 30, 2011

VALVE INSPECTION AND REPAIR

(Natural Gas Pipeline)

One form is to be completed for each valve, each time it is inspected, repaired, or replaced. The four, eight and ten inch valves are sealed units and do not require external servicing. If these valves do not operate smoothly, or they show other indications of an internal problem, they are to be torn down and serviced according to manufacturer's recommendations. The 3/4, one, and two inch valves also do not require external servicing, but must be replaced if their performance is suspect. Immediately notify the Utilities Operations Team Leader of problems for further action. Turn in each completed form to the Reliability Leader for placement in the gas line files.

VALVE (Check One)

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( )	#1A	10 inch pig valve at Washougal WFS station	(Normally Closed)
( )	#1B	4 inch pig system bypass valve at Washougal WFS station	(Normally Closed)
( )	#1C	2 inch pig system vent valve at Washougal WFS station	(Normally Closed)
( )	#1D	1 inch convenience valve at Washougal WFS station	(Normally Closed)
( )	#1E	3/4 inch convenience valve at Washougal WFS station	(Normally Closed)
(X)	#2	10 inch main blocking valve at South Mill	(Normally Open)
( )	#3	10 inch main blocking valve at mill metering station	(Normally Open)
( )	#3A	10 inch pig valve at mill metering station	(Normally Closed)
( )	#3B	4 inch pig system bypass valve at mill metering station	(Normally Closed)
( )	#3C	2 inch pig system vent valve at mill metering station	(Normally Closed)
( )	#3D	1 inch convenience valve at mill metering station	(Normally Closed)
( )	#3E	3/4 inch convenience valve at mill metering station	(Normally Closed)

INSPECTION

Quarterly: (For all Valves)*
Visual inspection for signs of damage or leakage and correct valve positions.
Results: **No damage or leakage conditions observed, valve was found locked in the open position. Vault free of debris and access locks in place.**

Annually: (For all Valves)**
Operate valve approximately 5% of range. Lubricate locks on valves.
Results **Operated valve through 5% of operating range. Valve operated properly. Locks lubricated.**

Date: **9/10/11** **Roy Rogers** Roy Rogers
Signature of Inspector

REPAIR/REPLACEMENT***
None Required

Date: _____ _____
Signature of Mechanic

* Indications of gas leak require a special leak survey and investigation.
** Note that the mill confined space procedure is required to enter the vault for Valve #2.
*** Must be followed by a special leak survey at operating pressure.

Updated July 30, 2011

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(Natural Gas Pipeline)

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VALVE (Check One)

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( )	#1A	10 inch pig valve at Washougal WFS station	(Normally Closed)
( )	#1B	4 inch pig system bypass valve at Washougal WFS station	(Normally Closed)
( )	#1C	2 inch pig system vent valve at Washougal WFS station	(Normally Closed)
( )	#1D	1 inch convenience valve at Washougal WFS station	(Normally Closed)
( )	#1E	3/4 inch convenience valve at Washougal WFS station	(Normally Closed)
( )	#2	10 inch main blocking valve at South Mill	(Normally Open)
(X)	#3	10 inch main blocking valve at mill metering station	(Normally Open)
( )	#3A	10 inch pig valve at mill metering station	(Normally Closed)
( )	#3B	4 inch pig system bypass valve at mill metering station	(Normally Closed)
( )	#3C	2 inch pig system vent valve at mill metering station	(Normally Closed)
( )	#3D	1 inch convenience valve at mill metering station	(Normally Closed)
( )	#3E	3/4 inch convenience valve at mill metering station	(Normally Closed)

INSPECTION

Quarterly: (For all Valves)*
Visual inspection for signs of damage or leakage and correct valve positions.
Results: **No damage or leakage conditions observed, valve was found locked in the open position.**

Annually: (For all Valves)**
Operate valve approximately 5% of range. Lubricate locks on valves.
Results **Operated valve through 5% of operating range. Valve operated properly, locks lubricated.**

Date: **9/10/11** **Roy Rogers** Roy Rogers
Signature of Inspector

REPAIR/REPLACEMENT***
None Required

Date: _____ _____
Signature of Mechanic

* Indications of gas leak require a special leak survey and investigation.
** Note that the mill confined space procedure is required to enter the vault for Valve #2.
*** Must be followed by a special leak survey at operating pressure.

Updated July 30, 2011

Georgia-Pacific

Atmospheric Corrosion Inspection

LOCATION

Division | System | Index Name | Index #

Chaining station start + | Chaining station end + | Station Name | Station #

GPS (optional) | Latitude | Longitude

DD-000.000000 | Start | End

Legal Description

State | County / Parish | Section | Township | Range

Survey | Abstract | Block | Lot

FACILITY CONDITIONS

Type ☐ Aboveground Pipe Section ☐ Exposed Underground Pipe Section ☐ Breakout Tank Tank #(s)

Coating Type ☐ Polytape ☐ Polyjacket ☐ Asphalt ☐ Paint ☐ Other
☐ Fusion Bonded Epoxy ☐ Coal Tar (TFG)/Somasitic ☐ Painted Underground Coating ☐ None

If Exposed Underground Coating, is Coating or Top Coat UV Resistant? ☐ Yes ☐ No

Coating Condition ☐ Good ☐ Poor ☐ Not Applicable

Coating Adhesion ☐ Good ☐ Poor ☐ Not Applicable

Ext. Pipe Damage ☐ None ☐ Surface Rust ☐ Corrosion ☐ Other Defect ☐ Not Visible

Pipe Support ☐ Corrosion ☐ Other Defect ☐ Not Applicable ☐ Gaps

Is the support structure providing support as designed? ☐ Yes ☐ No If no, explain

Erosion Control ☐ None ☐ Sand Bags ☐ Rip-Rap ☐ Other

Soil/Air Interface Condition ☐ Good ☐ Poor ☐ Not Applicable

Markers ☐ ID Markers ☐ Facility Sign ☐ None

If none, were markers installed on each end? ☐ Yes ☐ No

P/S Near P/L | millivolts Indicate"On" or "Off" ☐ On ☐ Off If no P/S, explain

EXPOSED UNDERGROUND PIPE SECTION

Length Exposed | Select Units | Max Unsupported Span | Select Units

ROW CONDITIONS

Land Use ☐ Pasture ☐ Farming/Cultivated ☐ Residential/Commercial ☐ Industrial
☐ Swamp/Marsh ☐ Water w/Ship Traffic ☐ Water - No Ship Traffic

Vegetation ☐ None ☐ Grass ☐ Brush ☐ Trees

Soil Type ☐ Sandy ☐ Rocky ☐ Gravel ☐ Clay ☐ Other

Surface Drainage ☐ Level Site ☐ Parallel to Pipeline ☐ Perpendicular to Pipeline

Soil Erosion ☐ Yes ☐ No

OUTSIDE FORCE DAMAGE POTENTIAL

Construction ☐ Low ☐ Medium ☐ High

Excavation ☐ Low ☐ Medium ☐ High

Debris ☐ Low ☐ Medium ☐ High

Drainage Maintenance ☐ Low ☐ Medium ☐ High

Vandalism ☐ Low ☐ Medium ☐ High

EVALUATOR INFORMATION

Attach enough photographs to describe the exposed pipe section. Attach Photos | Display Photos | Remove a Photo

Comments:

Date Of Evaluation

Signature | First name | Last name | Date

Pipeline Damage Prevention Capability Leader

EVALUATION REVIEW & ASSESSMENT

EVALUATION

Corrosion Control Measures	☐ Not Needed	☐ Present and Adequate	☐ Action Required
Conditions Rate Of Change	☐ Low	☐ Medium	☐ High
Potential For Coating Damage	☐ Low	☐ Medium	☐ High
Potential For Pipe Damage	☐ Low	☐ Medium	☐ High

Next Evaluation ☐ 1 Year* ☐ 2 Year* ☐ 3 Year ☐ Not Applicable

* Not to exceed interval plus 6 months.

REVIEW SUMMARY AND COORDINATOR INFORMATION

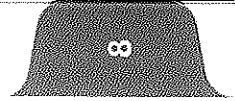
Original Evaluator Present? ☐ Yes ☐ No

Action Required? ☐ Yes ☐ No

WO# for required action

Description Of Action Required:

Signature	First name	Last name	Date



LOCAL PUBLIC OFFICIALS AND GOVERNMENT COUNCILS STAKEHOLDER GROUP

Revised 1/27/12

City of Camas Public Works
Attn: Eric Levison
616 NE 4th Ave
Camas, WA 98607

City of Camas Planning Div.
Attn: Phil Bourquin
616 NE 4th Ave
Camas, WA 98607

City of Camas Operations
Attn: Jim Gant
1620 SE 8th Street
Camas WA 98607
City of Camas Fire Department

City of Camas Fire Dept
Attn: Monte Brachmann
616 NE 4th Ave
Camas WA 98607

City of Camas Police Dept
Attn: Mitch Lackey
2100 Northeast 3rd Ave
Camas WA 98608

City of Washougal Fire Dept
Attn: Ron Schumacher
1400 A Street
Washougal WA 98671

City of Washougal Police Dept
Attn: Ron Mitchell
1320 A Street
Washougal WA 98671

WDOT Southwest Region
Attn: Chad Hancock
PO Box 1709
Vancouver WA 98682

Clark County Emergency Mgmt
Attn: Pipeline Safety Liaison
710 W 13th Street
Vancouver WA 98660

WUTC
Attn: David Lykken
1300 S Evergreen Pk Dr SW
Olympia WA 98504

EXCAVATION CONTRACTOR - STAKEHOLDER GROUP

Clark Public Utilities
Attn: New Construction Super.
8600 NE 117th Ave
Brush Prairie, WA 98606

Clark Public Utilities
Attn: Maintenance Supervisor
8600 NE 117th Ave
Brush Prairie, WA 98606

WDOT Southwest Region
Attn: Chad Hancock
PO Box 1709
Vancouver, WA 98682

Haag & Shaw Inc
636 Southeast 3rd Ave
Camas, WA 98607-2805

Glen Kincaid Rentals & Const.
Attn: Safety Supervisor
1840 S.E. 8thAve
Camas, WA 98607

McDonald Excavating, Inc.
Attn: Safety Supervisor
2719 Main St.
Washougal, WA 98671

George Schmid & Sons
Attn: Safety Supervisor
1411 32nd Street
Washougal, WA 98671

Thompson Brothers Excavating
Attn: Safety Supervisor
18211 NE Fourth Plain Rd
Vancouver, WA 98682

Tapani Underground Inc.
Attn: Safety Supervisor
1904 Southeast 6th Place
Battle Ground, WA 98604

NW Natural
Attn: Bob Anderson
6600 NE 112th Ct Suite F
Vancouver, WA 98662

City of Camas Operations
Attn: Jim Gant
1620 SE 8th Ave
Camas, WA 98607

Georgia Pacific Corporation
Attn: Steve Ringquist
401 NE Adams St.
Camas, WA 97607

Williams Northwest Pipeline
Attn: Ruth Mabry
8907 NE 219th St
Battle Ground, WA 98604

McNealy Excavating, Inc
81 Dubalson Rd
Washougal, WA 98671

REVISED 10/6/11

Georgia-Pacific
CONSUMER PRODUCTS (CAMAS) LLC
401 NE Adams Street, Camas, WA 98607
Telephone: (360) 834-3021

January 18, 2012

Stephanie --

This is a follow up submittal in response to our telephone conversations on January 3 and 4, 2012, which discussed the Notice of Probable Violation issued to Georgia Pacific's Camas Mill (the Mill) on September 20, 2011, by the Washington Utilities and Transportation Commission (UTC). The Notice concerned a 1.7 mile natural gas pipeline that serves the Mill. This is a narrow diameter, low pressure pipeline that serves a single customer.

The Mill responded to the Notice with a written submittal and exhibits on October 21, 2011. In that response, we noted that none of the 33 alleged potential violations raised any issue about the physical safety of the pipeline; virtually all of the allegations addressed paperwork, procedures and training issues.

In our October 21, 2011, response to the Notice, we expressed our belief that the majority of all Items in the Notice should be resolved by our response (including additional documentation); only three general areas (which included 9 of the original 33 Items) required further action by the Mill. As stated in our October submittal, it was our intention to complete those actions by the end of January 2012.

In our recent phone conversations, you requested some additional information on 12 of the Items set forth in the initial Notice (9 of those relate to Items we believe should already be resolved, while 3 concern Items we agreed to take further action on by the end of January 2012). You asked if we could submit this additional information now, before the end of January, in a cooperative attempt to narrow or close this matter. We are complying with your request by this response.

Please note that we continue to work on those remaining Items that we previously indicated require further action (involving revisions to our Operations & Maintenance Manual, including Operator Qualification and Drug & Alcohol Program elements). We intend to provide notice to you by January 31, 2012, on the status of those activities. Of course, we will then resume our process of

'continual evaluation' and revision of all required Manuals and procedures, as required by law.

If you have any questions about this submittal, please do not hesitate to contact me. Our goal is to fully address all issues raised in UTC's September 20, 2011, Notice, and it is our intent to cooperate with UTC to achieve that result.

Sincerely,

Steve Ringquist

GP Camas Mill

UTC Docket PG-11017 (9.20.11)

Additional Information on Select Items as Requested
Item No./Authority/Allegation or Concern (update provided below)

2. WAC 480-93-017

Concern over discrepancies between construction design and implementation procedures

- Believed resolved by October 21, 2011 submittal and Exhibits
- Attachment 1 further establishes the pedigree of the pipe and the fittings used for this State road project
- Despite some inconsistencies between Manual and construction specs, dual rated 'X42/X52' pipe was used, with Y52 fittings
- Facility will be more careful in future projects on ensuring consistency in paperwork

3.1 WAC 480-93-018

Concern over construction project OQ records for contractors

- Believed resolved by October 21, 2011 submittal and Exhibits
- The contractor Alaska Continental utilizes the Veriforce database to manage and implement OQ training, which includes Written Testing
- Attachment 2 is a copy of the Veriforce written training guidelines

3.3 WAC 480-93-018

Concern over discrepancies between construction design and implementation procedures

- Believed resolved by October 21, 2011 submittal and Exhibits
- Attachment 1 further establishes the pedigree of the pipe and the fittings used for this State road project
- Despite some inconsistencies between Manual and construction specs, dual rated 'X42/X52' pipe was used, with Y52 fittings
- Facility will be more careful in future projects on ensuring consistency in paperwork

5 WAC 480-93-110

Concern about Corrosion control inspection and record keeping

- Believed resolved by October 21, 2011 submittal and Exhibits
- All four struts were removed and inspected before our October 21 submittal, with measurements documented
- Attachment 3 is the new Manual procedure for individually listing loss measurements

7.2 WAC 480-93-180

Concern about AMPP procedures

- Attachment 4 is a Letter from Wolfgang Associates clarifying the notification procedure if an employee of CPE is ineligible.

7.3 WAC 480-93-180

Concern about AMPP procedures

- Attachment 4 is a Letter from Wolfgang Associates clarifying the statistical record retention utilized for the AMPP, if necessary to implement
- The project at issue was only two weeks in duration and had no incidents, nor suspicion of abuse. Therefore no alcohol testing was implemented. This is consistent with both OMP and regulations regarding testing.

14 49 CFR §192.105

Concern about Variables in Design Pressure Formula

- Believed resolved by October 21, 2011 submittal and Exhibits
- Attachment 1 further establishes the pedigree of the pipe and the fittings used for this State road project
- The Yield Strength variable used in the calculations correctly matched the actual yield strength of the pipe (pipe max 52000, S=52000)

15 49 CFR §192.225

Welding Procedures

- Believed resolved by October 21, 2011 submittal and Exhibits
- Attachment 5 is the GP version of predecessor company weld procedure. This has been update in the OMP
- GP has added weld procedure GP CAMAS-01 to the OMP manual.

25 49 CFR §192.807

Concern over Recordkeeping

- Believed resolved by October 21, 2011 submittal and Exhibits
- Contractor Alaska Continental uses the Veriforce database to manage and implement the OQ training program.
- Attachment 2 is the Veriforce written OQ training procedure.

28.b 49 CFR §199.105

Concern about Drug Testing

- Operator J.S. was an apprentice who participated in training but was not intended to be Qualified
- JS was removed from the Qualified Operator pool on July 22, 2011.
- GP will revise its OMP to guard against unintentional Qualified Operator designations

29 49 CFR §119.113

Supervisor Training records

- Attachment 6 is the Completed Drug and Alcohol Training for Supervisors record.
- GP will revise its OMP to cover Drug and Alcohol Trainings for Supervisors and record keeping of such training

30 49 CFR §119.115

Concern over notification procedure for Contractor Employees

- Attachment 4 is the letter from Wolfgang Associates clarifying notification of ineligible contractor employees.
- GP will revise its OMP to cover notification of ineligibility of all contractor employees

GP respectfully submits that all of the Items noted above have now been fully addressed and should be considered closed out. As a supplement to our October 21, 2011, submittal, this response should clarify Items identified in UTC's September 20, 2011, Notice. As stated in our October submittal, we plan to provide notice to UTC by the end of January, 2012, on our status of completion of remaining activities

Attachment 1

Documentation tracing the path between GP Camas purchase order and the materials delivered and used for the SR-14 Union St relocation project.

GP Camas issued a contract number (note this is the same as a Purchase Order) to Ferguson Enterprises, Inc for the pipe and fittings:

- GP Camas Contract Number: 00848579
- Reference Camas Contract (attached)

Fergusson Enterprises generated purchase orders to their suppliers for the materials:

- Ferguson PO#: F3002-5609 for the pipe
- Ferguson PO#: F3002-5611 for the fittings
- Reference Ferguson Enterprises Sales Order (attached)

Purchase Order F3002-5609 to Yarrs Corp. is filled with Material Test Report heat lot numbers:

- 200388
- 200388 A
- Reference email linking Ferguson PO# to Yarrs tally sheet and MTR reports (all attached)

Purchase Order F3002-5611 to Industrial Valco is filled with Material Test Report Heat Codes

- A08XMT1
- A08XMR2
- Reference Industrial Valco packing slip and MTR reports (all attached)

Contract

Georgia-Pacific

GEORGIA-PACIFIC

Contract: 00848579
Release :
Executed: 02/12/2010
Printed : 01/10/2012
Page : 1

Mail Invoice To:

Contract Invoicing
GP Consumer Products Camas LLC
401 NE Adams Street
CAMAS WA 98607

Vendor:
STEVE HARTZ 8773859235
FERGUSON ENTERPRISES INC
C/O FERGUSON INDUSTRIAL PLASTI
740 S 28TH ST
WASHOUGAL WA 98671-2512

Please Direct Inquiries to:
MIKE E. THOENNES
Title: PURCHASING MGR
Phone: 360-834-8469 Ext:
Fax : 360-834-8198

Work Location:
PURCHASING DEPARTMENT
GP CONSUMER PRODUCTS CAMAS LLC
CAMAS OPERATIONS
401 N.E. ADAMS
CAMAS WA 98607

Title: 10" NATURAL GAS LINE PIPE

** DUPLICATE COPY ** DRAFT COPY **

Total Value : $31,268.32 USD
Pricing Method: ESTIMATE

Contract Type : EQUIPMENT/MATERIAL PURCH
Project :

Start Date: 02/08/2010
End Date : 04/02/2010

Vendor Authorized Signature		Authorized Signature	
Printed Name/Title		Printed Name/Title	
Date Signed	Phone	Date Signed	Phone

Terms and Conditions - Text at End

Fac	Standard	Rev	S/P	Text	Title
	7141 T&C	000	S	Y	FORM 7141 TERMS AND CONDITIONS

Scope of Work

Item 1
Provide 400 feet of pipe per the specification listed below:
PIPE, STEEL, API 5-L PSL2, 10" DIA, .307" WALL THK, MATERIAL GRADE X-42,

JOINT LENGTH 40FT NOMINAL.

PIPE COATING, FUSION BONDED EPOXY, MANUFACTURER 3-M, PRODUCT 6233, 14MIL COATING THICKNESS, 4" CUTBACK AT JOINTS

PIPES SHALL BE SHIPPED WITH ROPE RINGS FOR SEPARATION AND DUNNAGE TO PREVENT DAMAGE TO PIPE COATING. PLASTIC END COVERS WILL BE REQUIRED.

Item 2
Provide four (4) each pipe elbows per specification listed below:
CARBON STEEL BUTTWELD FITTING, 3-R 45DEG ELL, 10" DIAMETER, .307" WALL THK, GRADE Y-42. COATING PER PIPE SPEC.

Item 3
Provide two (2) each pipe end caps per the specification listed below:
CARBON STEEL BUTTWELD FITTING, WELD END CAP, 10" DIAMETER, .307" WALL THK, GRADE Y-42. NO COATING

1. Items 1, 2 and 3 will require heat sheets from the steel manufacturer.
2. Georgia-Pacific Corporation reserves the right to perform QA/QC inspections at the pipe manufacturing and coating facilities prior to acceptance.
3. Pipe mill must be an approved API facility.
4. Fitting manufacturer must be in compliance with ASTM A234, ANSI B16.9 & ANSI B16.28.
5. All materials shall be obtained from a domestic manufacturer.
6. These materials will be used in a high pressure pipeline that is regulated by the Pipeline and Hazardous Materials Safety Administration. These pipeline components will not transport corrosive gas.

Delivery to Georgia-Pacific Corporation, Camas Mill shall be coordinated through George Kelsey, (360)834-8347. Delivery notice shall be a minimum of two business days in advance.

Contract Amendments

Amendment: 001
Title : ACTUAL COST
Amended Start :
Amendment Value: $17,809.56
Pricing Method :
Execution Date : 04/03/2010
Amended End Date:

Amendment Scope

Cost estimate based on quote to Roy Rogers from State Pipe in Vancouver but quote did not include coating. Ferguson used because they are the preferred supplier for pipe.

Contract

Georgia-Pacific

GEORGIA-PACIFIC

Contract: 00848579
Release :
Executed: 02/12/2010
Printed : 01/10/2012
Page : 3

Amendment: 002
Title : ADDITIONAL CHARGES
Amended Start :
Amendment Value: $458.76
Pricing Method :

Execution Date : 04/08/2010
Amended End Date:

Amendment Scope

Additional costs:
LPDE pipe end caps - $160
Freight - $119.78
Adjustment for actual painting cost - $178.98

Terms and Conditions - Text

7141 T&C 000 FORM 7141 TERMS AND CONDITIONS

Form 7141 T&C

. The terms and conditions of Georgia-Pacific's Form 7141 shall supercede those herein
and apply as the terms and conditions for this purchase order.

* * * End of Contract * * *

ACCEPT B/O = Y
SHOWROOM = N
SOURCE = SOE
IB FRT = Y 0.00
OB SHP = N 0.00
30 MAR 2010 06:12:23

FERGUSON ENTERPRISES, INC.® a WOLSELEY company

FEI LONGVIEW #3002
20 INTERNATIONAL WAY
LONGVIEW, WA 98632-1020

PH: 360-425-5330 FAX: 360-425-8457

MAR 3 1 2010

STOCK SALES ORDER

WRITER	SALESMAN
BLO	JH/JH

TAG P.O. NO.

OML CONTACT: Bryan Overby

VENDOR

VENDOR P.O. NO.

ROUTE NO. | RUN NO. | DEPART

ROUTE DESC.

PACKED BY | CHECKED BY

ORDER NO.	REQUIRED DATE	SHIP WHS.	SELL WHS.
559925	03/31/10	3002	3002

CUSTOMER NO.	CUSTOMER ALPHA	CONTRACT NO.	BID NO.	ORDER DATE	ORDERED BY
12177	GEORGIAPA		6374399	03/11/10	MIKE THOENNES

INSTRUCTIONS: B.O. OK TK

GEORGIA PACIFIC LLC
CAMAS MILL
PO BOX 381353
EL PASO, TX 79938-1353

CUST PH: 404-652-4000

SHIP TO:
GEORGIA PACIFIC LLC
CAMAS MILL
401 NE ADAMS ST
CAMAS, WA 98607-3021

SHIP VIA: OT OUR TRUCK

PCS	BAGS	BOXES	CRATES	LENGTHS	BUNDLES

SHIP WT.	SHIP DATE	DELIVERED BY

CUSTOMER P.O. NO.	JOB NAME	ATTN:
3848573	GAS LINE	

LINE	ORDERED	SHIPPED	B/O	ITEM NO.	DESCRIPTION	UNIT PRICE	U/M	TOTAL	P.O. NO.	AISLE LOC
1	400	400		SF-DBFAPI5LX52DRL1	10 .307 API5L PSL2 X52 ERW PIPE		FT		F3002-5603	
									34.2 lb	
2	400	400		SF-3M623314MILCOAT	14 MIL FUSION BOND EPOXY 6233 4"CUT		FT		F3002-3610	
									1.0 lb	
3	4	4	0	DWY32R410	10 CS STD BW Y-52 3R 45 ELL		EA		F3002-3611	3
									88.8 lb	
4	4	4	0	SF-3M623314MILCOAT	14 MIL FUSION BOND EPOXY 6233 4"CUT		FT		F3002-3610	
									1.0 lb	
5	2	2	0	DWY52CAP10	10 CS STD BW Y-52 CAP		EA		F3002-3611	3
									19.8 lb	
6					PIPE AND FITTINGS DOMESTIC					
7					WITH MATERIAL TEST REPORTS					
8					PIPE IS API MATERIAL					
9					FITTINGS ASTM A234					
10					GAS PIPELINE MATERIAL					

SUBTOTAL	FREIGHT	OUTBOUND SHIPPING	TAX	LESS DEPOSIT	TOTAL DUE

TERMS:

CONTINUED

CUSTOMER'S SIGNATURE: _____ DATE: _____

FILE COPY

From: Rishi Mittal [mailto:rishi@yarrs.com]
Sent: Wednesday, March 17, 2010 2:34 PM
To: Overby, Bryan L [Ferguson] - 3002 PORTLAND
Subject: P.O. #3002-5609

Hey Bryan, attached are the tally & MTR's for your order. Let me know if you need anything else and thank you for the order!

-Regards
Rishi Mittal
YARRS CORP
769 La Canada St
San Diego CA 92037
ph 800.293.9277
local 858.551.5426
fx 858.551.5436/858.220.7444

FAXED 3-15-10

attn: Rish.

TALLY SHEET

EZR TRUCKING Inc.

Transportation Specialists

☐ FONTANA
9813 ALMOND AVENUE
FONTANA, CA 92335
(909) 822-6806

☐ PHOENIX
3632 S. 15TH AVENUE
PHOENIX, AZ 85007-4401
(602) 258-5908

DATE 3-15-10

PAGE ___ OF ___

JOB ORDER NO.

LOAD NO.

SOLD BY Yorba Capo Fax EZR Trucking 150 Valley Ranch

SOLD TO Wecall Yorba Capo P.O.# YC-031110

DESCRIPTION

BEGINNING INVENTORY

PIECE COUNT 10

TOTAL LOAD RnL 42-72144

FOOTAGE 405 ~

BILL OF LADING NO. ST-47226-05

1	40.7	HT N-200788			
2	40.7	HT N-200788			
3	40.7	HT N-200788			
4	40.7	HT N-200788			
5	40.7	HT N-200788			
6	40.7	HT N-200788			
7	40.7	HT N-200788			
8	40.7	HT N-200788			
9	40.3	HT [redacted]200788-A			
10	39.6	HT [redacted]200788-A			
11					
12					
13	10 PCS	10 3/4	307	34.27	APSX42A 57
14					DRL
15					
16					
17					
18					
19					
20					
TOTAL	405 ~				

CARRY OVER

THIS SHEET

TOTAL

TALLY APPROVED BY:

RECEIVED IN GOOD ORDER

TRUCK NO. R Plank Trans

BY: R

LOAD CHECKED BY:

[redacted]
CALIFORNIA STEEL INDUSTRIES
[redacted]

TUBULAR PRODUCTS CERTIFIED TEST REPORT

CUSTOMER

SHIP TO

TALLY NUMBER

SHIPPING DATE

PO NUMBER

MO. NUMBER 06-3702-01

CUSTOMER ORDER 84438-GP

NDT: UT/N-10 NOTCH; AMALOG; 1/16 IN. HOLE/N-10 NOTCH. WELD HT TREAT MIN 1650F

PRODUCT SRW HIGH TEST LINE PIPE - PRIME

END USE JOBBER STOCK

SPEC API 5L 3-04 GR.X52/GR.X42-PSL2/ASTM-A-53-04A-GR.B-CVNT 15/20 FTLB, FULL SZ SPEC, +32 DEGF, EA HT LOT

SIZE 10-3/40D x .3070 x 34.27#

WT | LG | GR

CHEMICAL COMPOSITION

HEAT/LOT	TYPE	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al	V	Cb	Ti	Ca	B	CEQ (1)	SIGM (2)
2D0388	H	.06	1.11	.010	.002	.210	.02	.01	.03	.01	.043	.000	.021	.002	.0027	.0000	.13	.025
	M	.06	1.12	.009	.002	.228	.01	.02	.03	.00	.045	.000	.023	.003	.0030	.0000	.13	.026
	T	.05	1.07	.008	.002	.212	.01	.01	.03	.00	.042	.000	.020	.002	.0029	.0000	.11	.022

I CERTIFY THAT THE MATERIAL HEREIN DESCRIBED HAS BEEN MANUFACTURED IN ACCORDANCE WITH THE ORDERED SPECIFICATION AND THAT THIS TEST INFORMATION IS CORRECT AS CONTAINED IN THE RECORDS OF THE COMPANY

Sr. Chemist - Laboratory Services

MANUFACTURED IN U.S.A.

(1) For C <= .12: CE(IIW), MAX = .25

(2) SIGM = Cb + V + Ti = .15 MAX

TENSILE STRENGTH

TYPE	LOC	DIR	YIELD STRENGTH KSI	TENSILE STRENGTH KSI	% ELONG 2"	W
P	S	T	64.3	71.0	38	.90
P	W			75.0		

LONGITUDINAL IMPACT TEST

LOT	TYPE	ENERGY FT-LB SPEC1	SPEC2	SPEC3	AVG	% SHEAR APPEARANCE SPEC1	SPEC2	SPEC3	AVG

TRANSVERSE IMPACT TEST

LOT	TYPE	ENERGY FT-LB SPEC1	SPEC2	SPEC3	AVG	% SHEAR APPEARANCE SPEC1	SPEC2	SPEC3	AVG
	P	110	114	120	115	100	100	100	100

Hydro Test: 2880 PSI for 10 Seconds
Flattening Test OK
Gauss in pipe =< 20.

CONFORMS TO NACE MR0175 FOR HARDNESS ONLY

TEST 1 STEP MILL

9/23/08 14:48:44

CALIFORNIA STEEL INDUSTRIES
14000 San Bernardino Ave.
Fontana, California 92335

TUBULAR PRODUCTS CERTIFIED TEST REPORT

CUSTOMER

SHIP TO

TALLY NUMBER

SHIPPING DATE

CSI NUMBER

NDT: UT/N-10 NOTCH; AMALOG; 1/16 IN. HOLE/N-10 NOTCH. WELD HT TREAT MIN 1650F

PRODUCT: ERW HIGH TEST LINE PIPE - PRIME

SO. NUMBER: 06-3702-01

END USE: JOBBER STOCK

CUSTOMER ORDER: 84438-GP

SPEC: API 5L 3-04 GR.X52/GR.X42-PSL2/ASTM-A-53-04A-GR.B-CVNT 15/20 FTLB, FULL SZ SPEC, +32 DEG F, EA HT LOT

SIZE: 10-3/40D x .3070 x 34.27#

PT:

TSR:

PCS:

CHEMICAL COMPOSITION %

HEAT/LOT	TYPE	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al	V	Cb	Ti	Ca	B	CEQ (1)	SCM (2)
200388 A	H	.06	1.11	.010	.003	.210	.02	.03	.03	.01	.043	.060	.023	.002	.0027	.0000	.13	.025
	P	.06	1.08	.009	.002	.212	.01	.02	.03	.00	.044	.000	.022	.002	.0030	.0000	.12	.025
	R	.06	1.09	.010	.002	.211	.01	.02	.03	.00	.041	.000	.022	.002	.0027	.0000	.12	.024

I CERTIFY THAT THE MATERIAL HEREIN DESCRIBED HAS BEEN MANUFACTURED IN ACCORDANCE WITH THE GIVEN SPECIFICATION, AND THAT THIS TEST INFORMATION IS CORRECT AS CONTAINED IN THE RECORDS OF THE COMPANY

Dennis Mc

Sr. Chemist - Laboratory Services

MANUFACTURED IN U.S.A.

(1) For C <= .12: CE(IIW), MAX = .25

(2) SCM = Cb + V + Ti = .15 MAX

TENSILE STRENGTH

TEST	LOC	ORI	YIELD STRENGTH KSI	TENSILE STRENGTH KSI	% ELONG IN	YT
P	R	T	66.5	72.0	37	.92
P	M			75.5		

LONGITUDINAL IMPACT TEST

LOT	TYPE	ENERGY FT-LB SPEC 1	SPEC 2	SPEC 3	AVG	% SHEAR APPEARANCE SPEC 1	SPEC 2	SPEC 3	AVG

TRANSVERSE IMPACT TEST

LOT	TYPE	ENERGY FT-LB SPEC 1	SPEC 2	SPEC 3	AVG	% SHEAR APPEARANCE SPEC 1	SPEC 2	SPEC 3	AVG
A	P	155	167	222	148	100	100	100	100

Hydro Test: 2800 PSI for 10 Seconds

Flattening Test OK

Gauss in pipe << 20.

CONFORMS TO NACE MR0 175 FOR HARDNESS ONLY

SPECIMEN TYPE CODE: T

ORIENTATION: L

MILL

9/18/06 14:48:44

Attn: Brian (360) 425-8457 3 pages

PACKING SLIP
PRINT SEQUENCE .00
Page# 1

Right Product. Right Price.™
industrialvalco.com

PRNT DT: 03/12/10
TIME: 08:29
**** TRANSFER ORDER ****

Printed By TB

Los Angeles | Bakersfield | San Francisco | Denver | Houston | Chicago | New Jersey

SOLD TO: FERGUSON #3001
P.O. BOX 9285
HAMPTON VA 23670

SHIP TO: INDUSTRIAL VALCO
3135 E ANA STREET
RANCHO DOMINGUEZ CA 90221
FAML

CUST NO.	Purchase Order No.	ORDER DATE	OT	OP	Resale	Tax	Labor	INVOICE DATE	INVOICE NO.
FAMP	F30025611	03/12/10	TB						H284282

SHIP VIA	FREIGHT	PLACED BY:	TERMS
CON-WAY FRT.	COLLECT		1% 15 DAYS NET 30 DAYS

Qty Ordered	Shipped	B/O	DESCRIPTION	LINE	CODE	WEIGHT	
			TRANSFER FOR CUSTOMER REF R621964				
4	4	0	10 STD (3-R) 45 WPH-Y52	2	Y1NB10:B	0	0
2	2	0	10 STD CAP WPH-Y52	3	Y1CB10:B	0	0

A08XMT1 – A08XMR2

[redacted]

L06LTC 6

Freight, Labor And MTR Charges Are Terms Net

FREIGHT	MISC. CHARGES	TOTAL

Mar. 16. 2010 1:50PM IV RANCHO No. 5864 P. 1

BUSINESS PRINTING CENTER 714-632-1243

CERTIFIED MATERIAL TEST REPORT

Hackney Ladish Inc.

P.O. Box 803466 - 5495 Beltline Rd. #290 - Dallas, TX 75254
Phone: (800) 527-4500 Fax: (214) 269-5601

Heat Code	Description / Specifications		
A08XMT1	10 STD 3R 45 Y52	MSS SP-75- 04	WPHY 52
	TM47 57 37098	Q & T 1650 1150	NACE MR0175

Chemical Analysis

Heat Code	Test	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al
A08XMT1	M	.170	1.030	.016	.005	.260	.140	.060	.060	.030	.0200

Chemical Analysis (cont.)

Heat Code	N	V	B	Ti	Cb	Sn	W	Pb	Co	CE
A08XMT1	.0071	< .010	<.0005	<.0100	<.010					.374

Physical Properties

Heat Code	Tensile KSI	Type	Thickness	Yield KSI	% Elong. (4D)	% RA	Hardness HB
A08XMT1	81.5	L		60.5	33.0	77.0	170

Charpy Results

Heat Code	Size x 10mm	Type	Temp. (F)	Foot Pounds	Later. Expansion	% Shear
A08XMT1	7.5	T	20	214,206,192	69,64,67	100,100,100

Test: M=Mill Product
Type: L=Longitudinal T=Transverse

We certify that the material herein described has been manufactured in accordance with the above standards and specifications and satisfies all the requirements of the editions specified. We certify all materials provided comply with ISO 10204 paragraph. 3.1 which replaces type 3.1.B of the 1991 edition of EN 10204. Our ISO9001:2000 certificate number is CERT11763-2007-AQ-HOU-RVA/ANAB. We certify these fittings capable of passing hydrostatic test compatible with their rating. The above figures are correct as contained in the records of the Company. This information has been electronically transmitted to our customer.

CERTIFIED MATERIAL TEST REPORT

Hackney Ladish Inc.

P.O. Box 803466 - 5495 Beltline Rd. #290 - Dallas, TX 75254
Phone: (800) 527-4500 Fax: (214) 269-5601

Heat Code	Description / Specifications		
A08XMR2	10 STD 3R 45 Y52	MSS SP-75- 04	WPHY 52
	TM47 57 37098	Q & T 1650 1150	NACE MR0175

Chemical Analysis

Heat Code	Test	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al
A08XMR2	M	.170	1.030	.016	.005	.260	.140	.060	.060	.030	.0200

Chemical Analysis (cont.)

Heat Code	N	V	B	Ti	Cb	Sn	W	Pb	Co	CE
A08XMR2	.0071	< .010	<.0005	<.0100	<.010					.374

Physical Properties

Heat Code	Tensile KSI	Type	Thickness	Yield KSI	% Elong. (4D)	% RA	Hardness HB
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CERTIFIED MATERIAL TEST REPORT

Hackney Ladish Inc.

P.O. Box 803466 - 5495 Beltline Rd. #290 - Dallas, TX 75254
Phone: (800) 527-4500 Fax: (214) 269-5601

eat Code	Description / Specifications
06LTC6	10 STD CAP MSS SP-75- 08 WPHY 52
	A572-50 117 W6A806 Q & T 1650 1150 NACE MR0175

Chemical Analysis

eat Code	Test	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Al
06LTC6	M	.040	1.110	.012	.008	.180	.330	.110	.070	.040	.0200

Chemical Analysis (cont.)

eat Code	N	V	B	Ti	Cb	Sn	W	Pb	Co	CE
06LTC6		.050	<.0005	<.0100	<.010					.286

Physical Properties

eat Code	Tensile KSI	Type	Thickness	Yield KSI	% Elong. (4D)	% RA	Hardness HB
06LTC6	69.5	T		57.0	37.0		146

Charpy Results

eat Code	Size x 10mm	Type	Temp. (F)	Foot Pounds	Later. Expansion	% Shear
06LTC6	7.5	T	20	216,220,218	*,*,*	*,*,*

est: M=Mill Product
ype: T=Transverse

e certify that the material herein described has been manufactured in ccordance with the above standards and specifications and satisfies all the equirements of the editions specified. We certify all materials provided omply with ISO 10204 paragraph. 3.1 which replaces type 3.1.B of the 1991 dition of EN 10204. Our ISO9001:2000 certificate number is ERT11763-2007-AQ-HOU-RVA/ANAB. We certify these fittings capable of passing ydrostatic test compatible with their rating. The above figures are correct s contained in the records of the Company. This information has been lectronically transmitted to our customer.

Attachment 2

ROCKFORD CORPORATION

GENERAL CONTRACTORS
PIPELINE CONSTRUCTION

22845 NW Bennett St., Ste 150
Hillsboro, OR 97124
Phone (503) 647-0224 Fax (503) 647-0226

January 16, 2012

Roy Rogers
Principal Engineer
Cathodic Protection Engineering. Inc

To whom it may concern

Alaska Continental Pipeline / Rockford Corporation ensures that all employees are Operator Qualified as per the OQ Rule was that was designed by the US Department of Transportation. Alaska Continental Pipeline / Rockford Corporation uses Veriforce as our OQ Program provider. Internally we have designated trained evaluators (Mark Skodje, Josh Stinson) through the Veriforce system. Evaluators will train each employee on a one on one basis as per federal requirement, conducting a written test with employee or using a web based training with employee for each required task. Each employee will then conduct with the evaluator performance verification training. This is a hands- on exhibit by the employee to the evaluator proving that the employee understands the task and knows how to perform it. The evaluator will then input the data into the Veriforce system by fax or email. Veriforce will the audit and store information for clients to review.

The OQ Rule requires each pipeline operator to develop a qualification program to address each of the following requirements:

- Identify covered tasks
- Ensure that individuals performing covered tasks are qualified
- Allow for non-qualified individuals to perform covered tasks under the direction/observation of a qualified individual
- Evaluate any individual whose performance of a covered task contributed to an incident or accident
- Evaluate an individual if there is reason to believe he/she is no longer qualified

- Communicate changes that affect covered tasks to individuals performing those tasks
- Identify re-evaluation intervals
- Maintain records to demonstrate compliance

The qualification program must assure qualification of employees who perform covered tasks as well as the qualification of any other personnel performing covered tasks - including those working on behalf of a contractor or subcontractor.

Training program:

Evaluators – Evaluators are required to successfully complete the Veriforce Evaluator Training program annually.

Qualified Personnel – There are certain circumstances where training must be successfully completed by an individual before an evaluation may take place. In our process, evaluators are responsible for determining whether such circumstances exist and, if the situation demands it, verifying that appropriate training requirements have been met prior to conducting the evaluation.
We have developed effective training resources for many different covered tasks. Typically, these resources have been designed to support structured on-the-job training (OJT).

Personnel Evaluation

Veriforce oversee the process of personnel evaluation using operator-defined covered tasks and the underlying evaluation criteria. Each candidate must be evaluated individually on their knowledge, skills and abilities relative to the evaluation criteria defined for each covered task.

Veriforce procedures require that candidates are evaluated by authorized evaluators who will determine whether a candidate is qualified. To ensure an effective evaluation, all Veriforce evaluators are technically competent and subject matter experts (SME) in the specific task area. We also help our clients locate authorized evaluators to evaluate and qualify their personnel.

Quality Assurance

Veriforce rigorously reviews all records submitted by evaluators, contractors, operators, and others to assure accuracy and consistency. Incomplete or inaccurate records are refused and returned to the originator.

Veriforce personnel enter data within *VeriSource* from these records. For data to be entered within *VeriSource*, Veriforce will require a full audit trail and any necessary records to support that data. Assuring the quality of those records and the data entered into *VeriSource* gives our client's confidence in the integrity and availability of our records and reporting processes.

For each "Record of Evaluation" submitted, Veriforce ensures that the evaluator of record has been authorized for the applicable covered task.

Monitoring/Auditing

Evaluators – Veriforce routinely monitors evaluator performance to ensure that evaluations are conducted in accordance with your OQ program and our procedures. Evaluators are randomly selected for audit, but may also be audited on a "for cause" basis when there is evidence to suggest procedural violations.

Qualified Personnel – Random and "for cause" audits are conducted of previously qualified individuals to ensure they have not contributed to an incident/accident while performing a covered task(s) and to ensure there is no other reason to suspect the individual may no longer be qualified. All personnel audits are conducted relative to all applicable operator clients to promote economies of scale.

Records – As the last step in concluding an evaluator or qualified personnel audit, all internal records are audited for completeness and accuracy, and to assure that electronic records within *VeriSource* are consistent with submitted records.

OQ Training

Veriforce maintains a web-based Evaluator Training Program. To maintain status as an authorized evaluator, an individual must successfully complete the evaluator training program each year.

Veriforce has developed training materials to support the "Common Covered Task List", which has been adopted by dozens of operators throughout the country. A training guide has been developed for each of these covered tasks. They are designed to support "structured" on-the-job training and are made available to all contractors and operators with access to *VeriSource*. They are provided to help meet training requirements associated with the OQ Rule.

Regulatory Training

In many cases, training is provided to meet state and/or Federal regulatory requirements. Veriforce has helped operator clients design and deploy safety training programs designed for contractor personnel. Veriforce has also designed and deployed environmental-related training programs for contractor personnel. Additionally, they have developed training to help field personnel prepare for regulatory inspections.

Thank you,

Clifford Gleave
Corporate Safety Manager
Rockford Corporation/Alaska Continental Pipeline
503-647-0224

Attachment 3

O&M Manual Revision in Response to Finding 5

3.3.6.4 All metallic pipeline surfaces exposed to the atmosphere must be inspected once every three years to identify areas of active corrosion (ref D.O.T. 192.481). Atmospheric exposure includes above ground pipe, ground penetration at the soil / air interface and pipe supports. Disbonded coating is an indication that the material is in the early stages of the corrosion process.

Area of active corrosion is defined as an area where loss of pipe wall has occurred. Areas of active corrosion may have the following appearance:

- ☐ Visible accumulation of rust colored scale that appears as rust clumps.
- ☐ Visible blisters under the coating that appears as outward bumps.
- ☐ Pitting corrosion which appears as inward dimples.

If active corrosion is identified, the area is to be cleaned to bare metal and depth of the wall loss is to be measured and documented. Generalized measurements are not allowed. The measurements must be taken as distinct individual points and referenced or mapped to the specific location on the pipe where the measurement was taken. A remaining strength calculation ASME B31G or RSTRENG must be performed immediately to determine the safe operating pressure of the pipeline. The exposed area shall be cleaned and primed as soon as practical. The final coating application shall be applied within 6 months or as soon as dry weather conditions and 50 deg F temperatures are experienced as these are the minimum conditions for moisture cured urethane application.

Wolfgang Associates, Inc.
7220 SW Sylvan Court
Portland OR 97225-3742
Tel. (503) 297-4113 • FAX (503) 297-4748
Email: stopdrugs@aol.com • Cell phone: (503) 970-5455

Attachment 4

January 9, 2012

Ronald Kramer
Georgia Pacific
By email to Ronald.Kramer@gapac.com

RE: Cathodic Protection Engineering
Compliance with DOT/PHMSA Drug/Alcohol Random Testing Regulations

Dear Mr. Kramer,

This letter will certify that Wolfgang Associates, Inc. manages the Pipeline & Hazardous Materials Safety Administration (PHMSA), US Dept. of Transportation (DOT) random testing program for **Cathodic Protection Engineering**, 3853 FAIRHAVEN DR, WEST LINN, OR 97068-3760.

With regard to random selections and client guidance, Wolfgang Associates is familiar with and follows the requirements of 49 CFR Part 40, "Procedures for Transportation Workplace Drug and Alcohol Testing Programs" and 49 CFR Part 199, "Drug and Alcohol Testing."

Cathodic Protection Engineering employees who fall under PHMSA requirements are currently subject to quarterly random selections through Wolfgang Associates' PHMSA Consortium, using a commercially available computer program specifically designed for use by DOT program managers. The annualized random selection rate for the PHMSA Consortium pool is 25% for drug testing for calendar year 2012.

As we discussed by phone, and at the request of Roy Rogers as Designated Employer Representative for Cathodic Protection Engineering, we will report to you if any DOT-covered employee of Cathodic Protection Engineering is no longer eligible to perform safety-sensitive functions as defined by PHMSA/DOT. In that event, we will both call you at telephone (360) 834-8101 and email you at Ronald.Kramer@gapac.com. Please let us know if this contact information changes.

Please do not hesitate to call me at (503) 297-4113 with any questions or if you need additional documentation.

Very truly yours,

Jana W. Wolfgang

Jana W. Wolfgang, C-SAPA
President

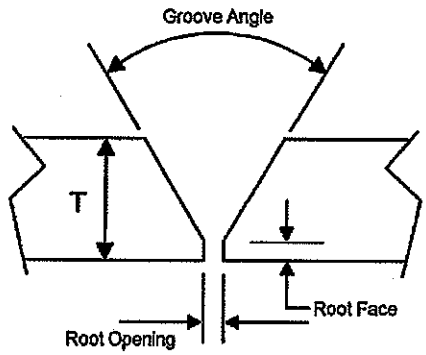
Attachment 5

Georgia Pacific
401 NE Adams
Camas, WA 98607

Welding Procedure Specification (WPS)

WPS No.: JR-SM-P1G Date: 2/14/1996 Rev. No.: 2 Date: 1/13/2012
Supporting PQR(s): JR-SM-P1G-R
Welding Process(es) / Type(s): (1) SMAW / Manual (2) SMAW / Manual

Joint Design (QW-402)
Weld Type: Groove and fillet welds



SINGLE VEE GROOVE

Backing: Without backing only Backing Material:
Fillet Welds: All fillet sizes on all base metal thicknesses and all diameters.
Retainers: None
Root Opening: 1/16" to 3/32", Root Face: 1/16" to 3/32"
Groove Angle: 60 deg min

WELD JOINT DESCRIPTIONS SHOWN ARE NOT INCLUSIVE OF ALL THOSE FOUND ON A JOB. WELD JOINT DESIGN REFERENCE IN AN ENGINEERING SPECIFICATION OR A DESIGN DRAWING SHALL TAKE PRECEDENCE OVER WELD JOINTS SHOWN IN THIS WPS.

Base Metals (QW-403)
API 5L Grade X52 P-No. 1 Thickness Range: 0.0625 in. to 0.6140 in.
to P-No. 1

Preheat (QW-406)
Minimum Preheat Temperature: 50 °F
Preheat Maintenance: None

Postweld Heat Treatment (QW-407)
PWHT Type: No PWHT will be performed
PWHT Temperature : None °F
PWHT Holding Time: None

Initial and Interpass Cleaning: With wire brush clean 1 inch (25 mm) on both sides of weld joint
Method of Back Gouging: When required, grind until all defects are removed.

Notes:
- WPS amended for name change only - Rev. 2, 1/13/2012.
- WPS JR-SM-P1G amended per Section IX, QW-201.1 to reflect different ownership than existed during the original procedure qualification.
- This procedure, JR-SM-P1G, was originally written under the company name of James River Corporation. This procedure has been amended to reflect the current company name of Georgia Pacific at the top of the WPS.
- The original WPS and PQR are both on file.

We certify that the statements in this record are correct and that the test welds were prepared, welded, and tested in accordance with the requirements of Section IX of the ASME Code.

Prepared By: PATRICK J. TERRY 1/13/2012 (Date) Project Engineer

Accepted By: Patrick J. Terry 1/13/2012 (Date) QC Manager

Georgia Pacific

Welding Procedure Specification (WPS)

WPS No.: JR-SM-P1G Rev. No.: 2

First Process: SMAW **Type:** Manual

Filler Metal (QW-404)

Weld Deposit Limits: 0.1880 in. maximum — No Pass Greater Than ½" Allowed

AWS Classification: E6010 — SFA Specification: 5.1 F-No.: 3

A-No. or Chemical Composition: 1

Position (QW-405)

Position of Joint: Flat, Vertical, & Overhead

Weld Progression: Vertical up

Notes: Position: 5G

Technique (QW-410)

Stringer or Weave Bead: Stringer bead

Peening: None

Multiple / Single Pass (per side): Multipass

Electrical Characteristics (QW-409)

Current Type and Polarity: DCEP (reverse)

Max. Heat Input (J/in): None

First Process Welding Parameters

Layer(s) and/or Pass(es)	Filler Metal		Current		Voltage Range	Travel Speed Range (in/min)
	AWS Classification	Size (in.)	Type and Polarity	Amperage Range		
Any	E6010	3/32	DCEP (reverse)	60-90	n/r	Var.
Any	E6010	1/8	DCEP (reverse)	80-120	n/r	Var.
Any	E6010	5/32	DCEP (reverse)	110-165	n/r	Var.
Any	E6010	3/16	DCEP (reverse)	150-200	n/r	Var.
Any	E6010	1/4	DCEP (reverse)	225-300	n/r	Var.

Second Process: SMAW **Type:** Manual

Filler Metal (QW-404)

Weld Deposit Limits: 0.4260 in. maximum — No Pass Greater Than ½" Allowed

AWS Classification: E7018 — SFA Specification: 5.1 F-No.: 4

A-No. or Chemical Composition: 1

Position (QW-405)

Position of Joint: Flat, Vertical, & Overhead

Weld Progression: Vertical up

Notes: Position: 5G

Technique (QW-410)

Stringer or Weave Bead: Stringer bead

Peening: None

Multiple / Single Pass (per side): Multipass

Electrical Characteristics (QW-409)

Current Type and Polarity: DCEP (reverse)

Max. Heat Input (J/in): None

Second Process Welding Parameters

Layer(s) and/or Pass(es)	Filler Metal		Current		Voltage Range	Travel Speed Range (in/min)
	AWS Classification	Size (in.)	Type and Polarity	Amperage Range		
Any	E7018	3/32	DCEP (reverse)	70-110	n/r	Var.
Any	E7018	1/8	DCEP (reverse)	90-160	n/r	Var.
Any	E7018	5/32	DCEP (reverse)	130-220	n/r	Var.
Any	E7018	3/16	DCEP (reverse)	200-300	n/r	Var.
Any	E7018	7/32	DCEP (reverse)	250-350	n/r	Var.

Redacted per WAC 480-07-160

TRAINING LOG

EMPLOYER NAME Georgia-Pacific Camas Mill			
LOCATION Street 401 NE Adams St	City Camas	State WA	Zip Code 98607
Instructor [redacted]	Date of Training 12/13/2011	Subject Anti Drug & Alcohol for DOT & Pipeline	

The employees listed have satisfactorily participated and been tested per Regulation/Company training requirements.

EMPLOYEE NAME	EMPLOYEE NO.	DEPARTMENT	EMPLOYEE SIGNATURE
[redacted]			

DOT Pipeline
Anti-Drug and Alcohol Training for Supervisors

Georgia-Pacific supervisors who have assignments to the natural gas pipeline received training 60 minutes of training for recognition of alcohol abuse and 60 minutes of training for recognition of drug abuse per CRF 199. See attached outline for further description of course content.

Reasonable Suspicion Training

Sherri Silva, RN

Occupational Health Nurse

Camas Mill

1 **Reasonable Suspicion Training**

2 **Objectives**

- Facts about drugs and alcohol
- Drugs of abuse
- Alcohol basics
- Signs and symptoms of use /abuse
- Making decisions about Reasonable Suspicion
- General guidelines and procedures

3 **Under this policy...**

- All identified Employees are subject to testing
- An Employee with a positive test will be removed from the worksite
- An Employee with a positive test will be provided with access to a SAP
- Positive tests will result in disciplinary action, up to and including termination of employment
-

4 **"A supervisor should"**

- Know and understand the policy and regulation
- Regularly document performance issues
- Be able to answer questions about it
- Be responsible for enforcing the policy
- Convey an attitude of confidentiality
- Be supportive of the policy
- Identify possible use/abuse and take ACTION

5 **Testing situations**

- Pre-employment
- Post accident
- Reasonable suspicion
- Work opportunity
- Random (20% for drugs and 10% for alcohol)

6 **Understanding the testing Process**

- Collection process
- Initial specimen testing
- Confirmation process
- MRO, Medical Review Officer
- Split specimen

7 **Refusal to submit to testing**

- A refusal to be tested has consequences
- A refusal to test is considered a positive test
- Grounds for disciplinary action, up to and including termination of employment
- Not cooperating with the process could be considered refusal to be tested

8 **Employee's rights and protection**

- An Employee who does not consent will not be tested
- No one can be forced to test
- An Employee can request a copy of the results
- An Employee has a right to speak with the Medical Review Officer about prescribed medications

9

It is estimated that substance abuse costs employers billions of dollars each year due to

1 • Increased injuries
- Fatalities
- Absenteeism
- Theft
-
-
-

2 • Excessive use of health care benefits
- Decreased productivity
-

10 **General Statistics**

- 74% of adults who use drugs are employed.
- 32% of employees have witnessed the sale of drugs in the workplace.
- Absenteeism is 66% higher with drug users.
- Nearing 1 in 4 employed Americans (age 18-34) have used drugs in the last year.
- 47% of work related injuries are drug related
- Employee turn-over is significantly higher in drug users
- In one study 20% of young workers admitted they
- use marijuana on the job.
- 90% of all thefts and crime are drug and alcohol related.

11 **Warning signs of substance abuse**

1 • Excessive absenteeism/tardiness
- Numerous accidents without explanation.
- Pattern of accidents during a particular shift and time.
- Unsatisfactory work performance.
- Decreased productivity after lunch.
- Non-work related visits from other employees/strangers
-

2 • Trips to car/parking lot.
- Drowsiness, slurred speech.

- Lack of concentration, agitation.
- Drastic weight change (20 lbs + or -)
- Blood shot eyes, runny nose
- Dilated pupils, Needle marks
- Frequent need to borrow money.
- Avoidance of supervisor.
- Frequent trips to the restroom/drinking fountain

12 **Absenteeism**

- Frequent or unauthorized absence.
- Excessive sick days.
- Frequent absence of short durations.
- Frequent Monday/Friday
- Frequent use of vacation days to cover.
- Frequently away from work station.
- High rate of vague ailments, colds, flu, headache.

13

High Accident Rate

- Accidents on the job....
- Accidents off the job. home, car.....
- Failure to follow safety precautions....

14 **Substance use is a progression...**

- Tolerance-
-
- Psychological dependence
-
- Physical dependence
-
- Addiction
-
- Withdrawal

15 **Substances of Abuse**

- Socially acceptable substances
-
- Illicit drugs
-
- Prescription medications
-
- "Over the counter" medications

16 **Facts...**

- Alcohol and marijuana are commonly used in the workplace
- Prescription pain medications reaching alarming proportions
- Marijuana users have 85% more injuries
- US businesses lose more than 60 billion dollars annually to substance abuse
- Use of substances directly increases health care costs and Worker's compensation claims

17 **Drugs of Abuse**

1 •
- Alcohol
- Marijuana
- Cocaine

2 •
- Opiates
- Amphetamines
- Phencyclidine (PCP)
-

18 **Threshold levels Initial and Confirmation**

1 • Alcohol
- Marijuana
- Cocaine
- Opiates
- Amphetamines
- PCP
-
- *nanograms per deciliter

2 • 0.08 and 0.08
- 50 and 15
- 300 and 150
- 2,000 and 2,000
- 1,000 and 500
- 25 and 25

19 **Definition of "alcohol use"**

-
- "The consumption of any beverage, mixture or preparation containing alcohol"

20 **Alcohol**

- It takes 1 hour for an average person (150 lbs.) to process one serving of alcohol.
-
- A serving of Alcohol =1 beer; 6oz wine; 1oz hard liquor.
- Impairment can occur with as little as two drinks.
- An intoxicated person is 6 times more likely to have an accident.

21 **Other Alcohol Information**

More then:

60% of all Burns
40% of all falls
69% of all boating accidents
76% of all private aircraft accidents

..... ARE ALCOHOL RELATED !

22 **Effects of Alcohol**

- 0.02-0.03-slight euphoria, loss of shyness
- 0.04-0.06-relaxed, lowered inhibitions, minor impairment in judgement or reasoning
- 0.07-0.09-affected balance, speech, hearing and reaction time
- 0.10-.125-significant impairment
- 0.13-0.20-gross impairment, lack of control
- >0.30-loss of consciousness, alcohol poisoning, coma, death

23 **Myths about"sobering up"**

-
- Caffeine
-
- Take a cold shower
-
- Get up get some Physical activity
-
-

24 **Health Effects**

1 Chronic consumption of alcohol may result in the following health hazards

2
- Dependency
- Liver disease
- Increased cancer risk
- Kidney disease
- Pancreatitis
- Fetal demise
- Ulcers
- Birth defects
- < immune system
-

25 **Signs of alcohol use**

1 • Inappropriate behavior.
• Dulled mental process.
• Lack of coordination.
• Odor of alcohol.
• Sleepiness or stuporous condition.
• Slower reaction rate, slurred speech.

2 • Odor of alcohol
• Flushed skin
• Eyes glazed or bloodshot
• Impaired motor skills
• Moody
• Irritated

26 **Social Issues**

• 2/3 of all homicides are committed by people who drink prior to the crime
• 2-3 % of the population are legally drunk at any one time; this rate doubles on weekends and at night; this rate is 10 times greater on holiday weekends and big events (i.e. Super Bowl Sunday, New Years Eve.....)
• The rate of separation and divorce in families with alcohol dependency problems is 7 times the average
• 40% of all family court cases are alcohol related.
• Alcoholics are 15 times more likely to commit suicide then the general public.

27 **Marijuana**

• Distinct aroma
• Comes in plastic bags
• Green/brown; resembles dried parsley
• Rolled like an unfiltered cigarette
• Can be smoked through a joint, pipe or bong
• May be used for Medicinal purposes (with RX)
• Cost is 100 to 300 dollars per ounce

28 **Health Effects**

• Irritating to the lungs, chronic smoking causes emphysema-like conditions.
• One joint equals 1 ½ packs of cigarettes in cancer causing substances.
• Can be contaminated with fungus Aspergillis which can cause respiratory infections and lung disease.
• Lowers body's immune system.
• Chronic smoking causes changes in brain cells and brain waves.
• Birth defects.

29 **Signs and symptoms of MJ**

• Red Eyes
• Slowed speech
• Distinct odor on cloths
• Lackadaisical, "I don't care" attitude
• Chronic fatigue
• Lack of motivation

- Irritating cough
- Chronic sore throat
- The "Munchies"

30 **Cocaine Description**

- Comes from a coca bush
- Cocaine Hydrochloride- "snorting coke"
- Effect is felt within minutes and lasts for 40-50 minutes per "Line"
- Cocaine base- "Rock crack or free base" is a small crystalline rock about the size of a small pebble.
- Common paraphernalia includes: Crack pipe and a lighter, alcohol lamp or a small butane torch for heating.

31 **Signs and Symptoms of Cocaine**

- Financial problems
- Frequent extended absences from work.
- Increased activity and fatigue
- Isolation and withdrawal from other
- Anxiety, defensiveness, agitation, wide mood swings.
- Lapses in attention
- Paranoia/hallucinations
- Unpredictable behavior
- Forgetfulness
- Runny nose
- Difficulty concentrating
- Feeling of bugs crawling on the skin (Formication)
- Hyper excitability/talkative

32 **Opiates**

- Natural and unnatural derivatives: Opium, Morphine, Codeine and Heroin
- Synthetic: Demerol, Oxymorphone, Oxycodone, Hydrocodone
- May be taken in pill form, Smoked, Injected, depending upon the type used.

33 **Health Effects**

- High risk for hepatitis and HIV/AIDS
- Narcotics increase pain tolerance making a person susceptible to increased injury without knowing it.
- Double the effect when a depressant is used (i.e. alcohol)

34 **Signs and Symptoms of Opiates**

- Mood changes
- Impaired mental function
- Constricted pupils
- Depression
- Impaired coordination
- Physical fatigue and drowsiness
- Nausea, Vomiting

35 **Amphetamines**

- Stimulants; speeds up the mind and body
- Increased dose = increased reaction
- Used for weight reduction and mood elevation
- Most substances are made in other countries and imported illegally.
- Sold in capsules or white, flat, double-scored pills "mini bennies"; usually taken by mouth.

36 **Methamphetamines**
Meth, Crank, Crystal

- Effects are the same as amphetamines
- Comes in white power or lumps
- Supplied in tubes (Meth)
- Crank, Crystal, stored in foil packets; generally refrigerated.
- May be taken orally, injected or snorted.
-

37 **Health Effects**

- High doses may cause toxic psychosis and schizophrenia
- Toxic levels may cause heart attacks and strokes due to increased blood pressure and irregular heartbeats.
- Chronic use may cause heart and brain damage due to severe constriction of blood vessels.
- Can produce risk-taking behaviors.
- Withdrawals may result in severe depression.
- Strong physiologic dependency and increased tolerance.

38 **Signs and Symptoms of Amps/Meth**

- Hyper excitability, Restlessness
- Dilated pupils
- Increased heart rate and BP
- Heart palpitations, rapid respirations.
- Panic
- Inability to concentrate.
- Picking at skin, lots of Red infected wound.

39 **PCP**

- Was originally developed as a large animal tranquilizer
- Acts as a depressant, hallucinogen or stimulant
- Abused primarily for its variety in mood altering effects.

- Moods can change rapidly from sedation to excitation
- Large doses can produce coma like conditions.
- Sudden noises or physical contact may cause " Freak out" causing a person to exhibit abnormal strength, Violent behavior and inability to speak or comprehend ("Superman effect")

40 **Signs and Symptoms of PCP**

1
- Blank stare
- Freak outs
- Impaired coordination
- Severe confusion and agitation
- Extreme mood shifts
- Suicidal tendencies

2
- Muscle rigidity
- Nystagmus (jerking eye movements)
- Dilated pupils
- Profuse sweating
- Rapid heart rate
- Dizziness

41 **Health Effects of PCP**

- Potential for accidents and overdose emergencies
- Potentiated by depressants (i.e. Alcohol)
- Often misdiagnosed and mistreated with deadly results.
- Can cause irreversible memory loss, personality changes, Thought disorders.

42 **Documentation**

- Date & Time of incident's
- Observed behavior
- Complaints from co-workers or others
- Accident/Incident (Describe in detail)
- If reasonable cause exists: implement the process.

43 **The Process**

- Identification
- Confirmation (2nd person)
- Contact HR
- Documentation
- Confront the employee in a confidential way.
- Intervention
- Drug & Alcohol testing
- Have person taken home till results are back.
-

44 **Results of the Drug test**

1 *Negative Results:*

- Compensation

- Return to work
- Reassess (just because – doesn't mean they are not taking drugs.

2 *Positive Results:*

- Suspension
- SAP referral
- Discipline up to and including termination of employment.

45 **Things to do and not do**

1 *ALWAYS*

- Keep good documentation
- Know your employees and job performance
- Take action when appropriate
- Know you policy
- Know your resources
-

2 *NEVER*

- Diagnose
- Violate confidentiality
- Accuse or pressure for a confession
- Treat the individual differently
- Leave employee unsupervised
- Act alone
-

46 **Employee reactions**

- Defensive
- Belligerent
- Silent
- Cries
- Talks non-stop
- Uncooperative

47 **Your reaction**

- Stay Calm
- Don't yell back
- Listen
- Stick to the facts
- Document everything that happened.
- Test without delay.