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: <u>TransCanada Gas Transmission Northwest Corporation</u> Op ID: <u>15014</u>

Perform Activity	Activity	Activity Description
(denoted by mark)	Number	
	1A	In-Line Inspection
	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
X	4A	Field Inspection for Verification of HCA Locations
	4B	Field Inspection for Verification of Anomaly Digs
X	4C	Field Inspection to Verify adequacy of the Cathodic Protection
		System
X	4D	Field inspection for general system characteristics
	attachment	Anomaly Evaluation Report
	attachment	Anomaly Repair Report

Gas IMP Field Verification Inspection Form

Name of Operator: TransCanada Gas Transmission Northwest Corporation

Headquarters Address:	1400 SW 5 TH Ave Suite 900 Portland, OR. 97201			
Company Official:	Jeff Rush			
Phone Number:	503-833-4100			
Fax Number:	503-833-4927			
Operator ID:	15014			
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Persons Interviewed	Title	Phone No.	E-Mail
Kurt Smith	Pipe Regulatory Specialist (Primary Contact)	509-546-8865	kurt_smith@transcan ada.com
			·

OPS/State Representative(s): <u>Al Jones / UTC Washington</u> Date(s)	of Inspection: <u>Aug. 24-27, Sep. 8-11, 2009</u>
Inspector Signature:	Date:
Pipeline Segment Descriptions: [note: Description of the Pipeline Seginformation is available, include the pipe size, wall thickness, grade, se MAOP, %SMYS, HCA locations, class locations, and Pipeline Segment	eam type, coating type, length, normal operating pressure,

The sections of pipeline inspected include a 36-inch and two 42-inch diameter pipelines from the Washington/Idaho border (MP 106.8) to the Spokane Gate Station (MP 108.2) and two south bound pipelines including 36-inch and 42-inch from the Spokane Gate Station to the Snake River crossing (MP 206.7). The Rosalia District is approximately 100 miles in length with a total of approximately 201 miles of piping.

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.]

The sites inspected include the compressor station located at Rosalia, including a Mars Solar (14K Hp), Titan Solar (19.5K Hp), and a LM-1500, GE (12.5K Hp) turbines, meter station located at Spokane, Mica, Spangle, Rosalia, St. John, and LaCrosse were inspected for regulator lockup, set point, overpressure protection, and the facilities in general. During the right-of-way inspection the line markers were inspected for emergency information, at C/P test sites include: casings, rectifier units and numerous pipe-to-soil readings (See Field Data Report for details). There are no direct sales customers.

S	ummary:	•

Findings:

Key Documents Reviewed:

Document Title	Document No.	Rev. No	Date
Compressor Stations - Emergency Shutdown (1x per yr, 192.736(c))	·	-	Nov 07 - Aug 09
Compressor Stations - Relief Devices (1x per yr, 192.731(a))			Nov 07 - Aug 09
Examination of Buried Pipe when Exposed (192.459)			Nov 07 - Aug 09
Rectifier Monitoring (6x per yr, 192.465 (b))		· · · · ·	Nov 07 - Aug 09
Pipe-to-Soil Monitoring (1x per yr, 192.465(a))	· · · ·		Nov 07 - Aug 09
Pressure Limiting & Regulating Stations (1x per yr, 192.739)			Nov 07 - Aug 09
Valve Maintenance (1x per yr, 192.745)	·		Nov 07 - Aug 09

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			X		
performance of ILI were followed.		l	<u></u>		
Verify Operator's ILI procedural requirements were foll	owed (e.g.	operation of	trap		
for launching and receiving of pig, operational control of	f flow), as	appropriate.			
Verify ILI tool systems and calibration checks before ru	n were per	formed to ens	ure	·	
tool was operating correctly prior to assessment being p	erformed, a	s appropriate	•		
Verify ILI complied with Operator's procedural requires	nents for p	erformance o	fa		
successful assessment (e.g. speed of travel within limits,	adequate t	ransducer			
coverage), as appropriate.					
Document ILI Tool Vendor and Tool type (e.g. MFL, D	eformation). Document			
other pertinent information about Vendor and Tool, as a	ppropriate				
Verify that Operator's personnel have access to applicat	le procedu	res for prepar	ing,		
running and monitoring the pipeline for ILI tools include	e performai	ice requireme	nts		
(e.g.: tool speeds, pipe cleanliness, operation of tool ser	sors, and I	LI field			
calibration requirements), as appropriate.				[Note: Add location specific	
Other:				information, as appropriate.]	
Control of the Contro	Ci . m	1	الإند مستثنات	I > •	
1B. Hydrostatic Pressure Testing	Satisfactory	Unsatisfactory	N/C	Notes:	
Verify that hydrostatic pressure tests complied with			X	•	
Part 192 Subpart J requirements.					
Review documentation of Hydrostatic Pressure Test par			ity		
test was performed without leakage and in compliance w	1th Part 19	2 Subpart J			
requirements.	. 1 1114	1 1:1:			
Review test procedures and records and verify test accep					
Review determination of the cause of hydrostatic test fai	lures, as ap	propriate.			
Document Hydrostatic Pressure Test Vendor and equipm					
Verify that the baseline assessment is conducted in a ma-					
environmental and safety risks (reference §192.919(e) ar					
Other:					
	A Section 1	State		The second secon	
	Satisfactory	Unsatisfactory	N/C	Notes:	
Verify that application of "Direct Assessment			X		
			Λ		
Technology" complied with Part 192.923	Review documentation of Operator's application of "Direct Assessment				
Review documentation of Operator's application of "Dir					
Review documentation of Operator's application of "Dir Technology", if available. Verify compliance with Part					
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Part 2 - Remediation of Anomalies

			1, 272	Constitution of the Consti
2A. Remedial Actions – Process	Satisfactory	Unsatisfactory	N/C	Notes:
Verify that remedial actions complied with the			v	
Operator's procedural requirements.	1		X	
Witness anomaly remediation and verify documentation	n of remedia	ation (e.g.		
Exposed Pipe Reports, Maintenance Report, any Data A				
compliance with Operator's O&M Manual and Part 192	2 requireme	nts.		
Verify that Operator's procedures were followed in loca	ating and ex	posing the		
anomaly (e.g. any required pressure reductions, line loc				
approximate location of anomaly for excavation, excava	ation, coatir	ng removal).		
Verify that procedures were followed in measuring the				
severity of the anomaly, and determining remaining stre				
class location factor and failure pressure ratio used by C	Operator in	determining re	pair	Cathodic Protection readings of pipe to
of anomaly.				soil at dig site (if available):
				On Potential:mV
Verify that Operator's personnel have access to and kno	wledge of	applicable		Off Potential:mV
procedures.	J	••		
				[Note: Add location specific information
Other:				and note whether CP readings were from
·				the surface or from the pipe following
				exposure, as appropriate.]
		- 23	0°7	
2B. Remediation - Implementation	Satisfactory	Unsatisfactory	N/C	Notes:
Verify that the operator has adequately implemented				
its remediation process and procedures to effectively			T 7	
remediate conditions identified through integrity	ļ i		X	
assessments or information analysis.	ļ :			
If documentation is available, verify that repairs were co	ompleted in	accordance w	ith	
the operator's prioritized schedule and within the time fi				
§192.933(d).				
Review any documentation for this inspection site for ar	ı immediate	repair conditi	ion	
(§192.933(d)(1)) where operating pressure was reduced				
shutdown. Verify for an immediate repair condition that				
pressure was determined in accordance with the requirer			f	
not applicable, the operator should provide an engineering				
amount of pressure reduction.		, ,		
<u> </u>				
Verify that repairs were performed in accordance with §	192.103, §1	92.111,		
§192.713, §192.717, §192.719, §192.933 and the Operat	tor's O&M	Manual, as		
appropriate. If welding is performed, verify a qualified				
qualified welders are used to perform repairs. If compos	ed.			
verify that a method approved by the Operator is used, p		Cathodic Protection readings of pipe to		
qualified personnel perform the repair.				soil at dig site (if available):
	On Potential: mV			
Review CP readings at anomaly dig site, if possible. (Se	e Part 4 of	this form -		Off Potential: mV
"Field Inspection to Verify adequacy of the Cathodic Pro				
appropriate.	· J	,		[Note: Add location specific information
				and note whether CP readings were from
Other:				the surface or from the pipe following
•			1	exposure, as appropriate.]
The state of the s		8 V/S 12		

Part 3 - Preventive and Mitigative Actions

24	DOM Manager for Third Dorty Domogo	Satisfactory	Unsatisfactory	N/C	Notes:
	P&M Measures for Third Party Damage	Saustaciory	Olisausiaciory	14/0	ivotes.
	ntify additional measures evaluated for the HCA	X			-
seci	ion of the pipeline and facilities.	1	<u> </u>	l	-
	Verify that P & M measures regarding threats due to thi	ird party dai	nage are bein	g	
	implemented: [§192.915(c), §192.935(b)(1)(iv)]:				
L					
	Confirm the use of qualified personnel for marking, local	ating, and d	irect supervis	ion	
	of known excavation work, as appropriate.				
					<u></u>
	Confirm the use of qualified personnel for monitoring o	f excavation	ns conducted	on	
	covered pipeline segments by pipeline personnel, as app	propriate.			
	Other:	-]
					· ·
	•				
					[Note: Add location specific information,
					as appropriate.]
روي دراي . «معرف»	And the second s		errans of the Authority	N	Contract State Contract Contra
	Installed Automatic Shut-off Valves (Protocol				Notes:
	H.07)	Satisfactory	Unsatisfactory	N/C	
Ver	ify additional preventive and mitigative actions			一	
	lemented by Operator.	X			
	Document that additional measures evaluated by the ope	rator cover	alternatives	\dashv	
	such as, installing Automatic Shut-off Valves or Remot			na l	
	computerized monitoring and leak detection systems, rej				
	pipe of heavier wall thickness, providing additional train			·	,
	response procedures, conducting drills with local emerge				
	implementing additional inspection and maintenance pro			i	
	Verify that the operator has a process to decide if autom				
	remote control valves represent an efficient means of ad		ion to		
	potentially affected high consequence areas. [§192.935(c)]		- 1	
	Verify operation of installed remote control valve by rev			1	ļ
	inspection/remote control records for partially opening a	nd closing t	he valve, as		•
	appropriate.				
Othe	r:				
	•				
				l	
					[Note: Add location specific information,
					as appropriate.]
				1	
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Part 4 - Field Investigations (Additional Activities as appropriate)

The state of the s		i de la companya de l		
4A. Field Inspection for Verification of HCA Locations	Satisfactory	Unsatisfactory	N/C	Notes:
Review HCAs locations as identified by the Operator.	X			
Utilize NPMS and Operator maps, as appropriate.			l	
Verify that the operator's integrity management program				
updated system maps or other suitably detailed means d				·
segment locations that are located in high consequence	areas, as ap	propriate.		
[§192.905(a)]				·
Review the operator's applicable procedures and forms			1 1	
information from one-calls, surveys, aerial & ground pa			ıby	
field personnel to communicate new developments that consequence areas or that may create new high consequ			ام	.
as appropriate. [§192.905(c)]	CHCC ateas i	o na bersonn	····,	·
D 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	, ~	4 4 770		
Review the operator's applicable procedures and forms				
and class location changes are being identified through i	it s continui	ing surveilland	ce	[Note: Add location specific information,
program as required by §192.613 and §192.905.				as appropriate.]
4B. Field Inspection for Verification of Anomaly Digs	Satisfactory	Unsatisfactory	N/C	Notes:
Verify repair areas, ILI verification sites, etc.	X	Onounoiación y	14/0	110003.
Document the anomaly dig sites observed and reviewed		his field activi	itv	[Note: Add location specific information,
and the actions taken by the operator.	m bure or r	IIVIG BOUY		as appropriate.]
· · · · · · · · · · · · · · · · · · ·				
The state of the s	3882 <u>.</u>	<u>ia-a-a-a-a-a-a-a-a-a-a-a-a-a-a-a-a-a</u>	ary ,	A STATE OF THE STA
4C. Field Inspection to Verify adequacy of the	Satisfactory	Unsatisfactory	N/C	Notes:
Cathodic Protection System		,		CP system was off and native
In case of hydrostatic pressure testing, Cathodic		. .		potentials were being measured,
Protection (CP) systems must be evaluated for general		X		except for the last day, Low CP
The operator should review the CP system performance	in conjunct	ion with a	L	values had not been mitigated since
hydrostatic pressure test to ensure the integrity assessme				last inspection in 2007, and fuel line
threats to the integrity of the pipeline. Has the operator				to Control Room at Compressor
performance in conjunction with the hydrostatic pressure		or oyumi		station had excessive impressed
Review records of CP readings from CIS and/or annual		ısure minimu	m	current.
code requirements are being met, if available.	•			
				·
				·
·		•	. [
Review results of random field CP readings performed of	luring this a	ctivity to ensi	ure	Cathodic Protection readings of pipe to
minimum code requirements are being met, if possible.				soil at dig site (if available):
checks during this activity and ensure rectifiers are opera-	ating correc	tly, if possible	e.	On Potential:mV
•	J	. I		Off Potential:mV
				[Note: Add location specific information
				and note whether CP readings were from
			}	the surface or from the pipe following
	185 - 1	1.2***	naga 183	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	x		- 1	İ
estimation of the effectiveness of the operator's IMP		ŀ	- [
implementation.				

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)

Pineline 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:
1 of 1921 Washington 1921 1922 1922 1922 1922 1922 1922 192	
	ported Information
ILI Technology (e.g., Vendor, Tools): Anomaly Type (e.g., Mechanical, Metal Loss):	
Is anomaly in a segment that can affect an HCA	2 (Vec / 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;	
Anomaly Feature (Int/Ext):	Orientation (O'clock position):
	Width (in): Depth (in):
	Distance from Upstream weld (ft):
Length of joint(s) of pipe in which anomaly is i	
	Site Information Summary
Date of Anomaly Dig (MM/DD/YY):	
Location Information (describe or attach map):	Di
	Distance from A/G Reference (ft):
Distance from Upstream weld (ft):	
GPS Readings (if available) Longitude:	Latitude:
	Orientation:
Length of joint of pipe in which anomaly is four	
	nical Damage Anomály
Damage Type (e.g., original construction, plain	
	dth (in): Depth (in):
Near a weld? (Yes / No):	
Gouge or metal loss associated with dent? (Yes	
Did operator perform additional NDE to evaluate	te presence of cracks in dent? (Yes / No):
Cracks associated with dent? (Yes / No):	NO. LONG TOXAGON.
For Corrosi	on Metal Loss Anomaly
Anomaly Type (e.g., pitting, general):	
	dth (in): Max. Depth (in):
Remaining minimum wall thickness (in):	Maximum % Wall Loss measurement(%):
Safe pressure calculation (psi), as appropriate:	
For "Othe	r Types" of Anomalies
Describe anomaly (e.g., dent with metal loss, cra	ack, seam defect, SCC):
Length (in): Wid	dth (in): Max. Depth (in):
Other Information, as appropriate:	
Did operator perform additional NDE to evaluat	e 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): Depth (in):	
If NO repair of an anomaly for which RSTRENG/B31.G is applicable, were the Operator's RSTRENG/B31	ı.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	true S
Was a diagram (e.g., corrosion map) of the anomaly made? (Yes / No): (Include in report if available	اما اها
Were pipe-to-soil cathodic protection readings taken? (Yes / No):	10)
If CP readings taken, Record: On Potential: mV; Off Potential: mV	7
[Note: Note whether CP readings were from the surface or from the pipe following exposure, as appropriate.]	,
Describe method used by Operator to locate anomaly (as appropriate):	
	<u> </u>
Comments regarding procedures followed during excavation, repair of anomaly, and backfill (as appropriate	<u>-)·</u>
to same regarding procedures followed during excavation, repair of anomary, and backing (as appropriate	<u>/)·</u>
General Observations and Comments (Note: attach photographs, sketches, etc., as appropriate):	
Conordi Cossivations and Comments (Note: attach photographs, sketches, etc., as appropriate).	