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 (denoted by mark)	Activity Number	Activity Description
	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

TT2			<u> </u>	
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			
Persons I	nterviewed	Title	Phone No.	E-Mail
Kurt Smith		Pipe Regulatory Specialist (Primary Contact)	509-546-8865	kurt_smith@transcan ada.com
			7.77-2 **	
OPS/State Representat	tive(s): Al lones / LITC W	ashington Date(s) of Inspection:	. Aug 24 27 San S	
Or State Representa-	ave(s). At somes / OTE W	bate(s) of inspection.	Aug. 24-27, Sep. 6	<u>5-11, 2009</u>
Inspector Signature:		Date:		·
information is available	, include the pipe size, wall	n of the Pipeline Segment Inspecte thickness, grade, seam type, coati nd Pipeline Segment boundaries.)]	ng type, length, nor	d verification. (If mal operating pressure,
(MP 106.8) to the Spol Spokane Gate Station	kane Gate Station (MP 10	nch and two 42-inch diameter p 8.2) and two south bound pipel ing (MP 206.7). The Rosalia D	ines including 36-i	nch and 42-inch from the
milepost/stations/valves/	/pipe-to-soil readings/river	ne portion of the pipeline segment crossings/etc. In addition, a brief agreement that required field veri	description and cas	e number of the follow up

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.

Su	m	m	a	rv	:

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.		·		
Verify Operator's ILI procedural requirements were fol	lowed (e.g.	operation of t	rap	
for launching and receiving of pig, operational control of			- -	
Verify ILI tool systems and calibration checks before ru			ıre	
tool was operating correctly prior to assessment being p				
Verify ILI complied with Operator's procedural require			a	
successful assessment (e.g. speed of travel within limits				
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 applical	ole procedu	res for prepari	ng.	
running and monitoring the pipeline for ILI tools includ				
(e.g.: tool speeds, pipe cleanliness, operation of tool ser	nsors, and I	LI field		,
calibration requirements), as appropriate.	· · · · · · · · · · · · · · · · · · ·			[Note: Add location specific
Other:				information, as appropriate.]
1B. Hydrostatic Pressure Testing	Satisfactory	Unsatisfactory	N/C	Notes:
Verify that hydrostatic pressure tests complied with			X	
Part 192 Subpart J requirements.	<u></u>			
Review documentation of Hydrostatic Pressure Test par	ameters and	l results. Ver	ify	
test was performed without leakage and in compliance v	vith Part 19	2 Subpart J		
requirements.				
Review test procedures and records and verify test accep	ptability and	d validity.		
Review determination of the cause of hydrostatic test fa	ilures, as ap	propriate.		
Document Hydrostatic Pressure Test Vendor and equipr	<u> </u>			
Verify that the baseline assessment is conducted in a ma	ınner that m	inimizes		
Verify that the baseline assessment is conducted in a ma environmental and safety risks (reference §192.919(e) a				
Verify that the baseline assessment is conducted in a ma environmental and safety risks (reference §192.919(e) a Other:				
environmental and safety risks (reference §192.919(e) a				
environmental and safety risks (reference §192.919(e) a Other:	nd ADB-04	-01)	N/C	Notes:
environmental and safety risks (reference §192.919(e) a Other: 1C. Direct Assessment Technologies				Notes:
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environmental and safety risks (reference §192.919(e) a Other: 1C. Direct Assessment Technologies Verify that application of "Direct Assessment Technology" complied with Part 192.923	nd ADB-04	Unsatisfactory		Notes:
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Part 2 - Remediation of Anomalies

			Yanii in	
2A. Remedial Actions – Process	Satisfactory	Unsatisfactory	N/C	Notes:
Verify that remedial actions complied with the				
Operator's procedural requirements.			X	
Witness anomaly remediation and verify documentation	of remedia	tion (e.g.		
Exposed Pipe Reports, Maintenance Report, any Data A			īv	
compliance with Operator's O&M Manual and Part 192			. 9	
compliance with Operator's Octivi Manual and Fare 192	requiremen	113.		
Vanification On anatom's managed unas visus fallowed in loss	ting and ar	maaina tha		
Verify that Operator's procedures were followed in loca				
anomaly (e.g. any required pressure reductions, line loca				
approximate location of anomaly for excavation, excava	mon, coatin	ig removai).		
** 10				
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 O	perator in d	letermining 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 a	applicable		Off Potential:mV
procedures.	<u> </u>	• •		
•				[Note: Add location specific information
Other:				and note whether CP readings were from
· · · · · · · · · · · · · · · · · · ·				the surface or from the pipe following
				exposure, as appropriate.]
2B. Remediation - Implementation	Satisfactory	Unsatisfactory	N/C	Notes:
	Satisfactory .	Olisalistaciory	14/0	Notes.
Verify that the operator has adequately implemented			,	
its remediation process and procedures to effectively			X	
remediate conditions identified through integrity				
assessments or information analysis.	1 1 1 1	<u> </u>	<u> </u>	
If documentation is available, verify that repairs were co			/ith	
the operator's prioritized schedule and within the time fi	rames allow	ed in		
§192.933(d).				
	· · · · · · · · · · · · · · · · · · ·			÷
Review any documentation for this inspection site for an			ion	
(§192.933(d)(1)) where operating pressure was reduced	or the pipel	line was		•
shutdown. Verify for an immediate repair condition tha	t temporary	operating		
pressure was determined in accordance with the require	ments in §1	92.933(a) or,	if	
not applicable, the operator should provide an engineeri	ng basis jus	tifying the		
amount of pressure reduction.		-		
•				
Verify that repairs were performed in accordance with §	192.103, §	192.111.		
§192.713, §192.717, §192.719, §192.933 and the Opera				·
appropriate. If welding is performed, verify a qualified				•
qualified welders are used to perform repairs. If compo			sed	
verify that a method approved by the Operator is used, p				Cathodic Protection readings of pipe to
qualified personnel perform the repair.	noccaares t	iro rono wou, c	4114	soil at dig site (if available):
quantica personner perform the repair.				On Potential: mV
Review CP readings at anomaly dig site, if possible. (Se	ee Part 1 of	this form		Off Potential: mV
"Field Inspection to Verify adequacy of the Cathodic Pr				
	otection sy	owiii , 48		[Note: Add location specific information
appropriate.				and note whether CP readings were from
Othor				the surface or from the pipe following
Other:				exposure, as appropriate.
				appoint, as appropriately
		ar zalecenyma aruni est	Dijalatika dari	
		ne neger a filosofici, iligio	9 N. 19 YEAR	jat mengeger socialen til befordsredskride heller i helg beskride blader. Det men forsk fill former fra i socia

Part 3 - Preventive and Mitigative Actions

24 DOM Marries Court ID 4 D	To	1		
3A. P&M Measures for Third Party Damage	Satisfactory	Unsatisfactory	N/C	Notes:
Identify additional measures evaluated for the HCA section of the pipeline and facilities.	X			,
Verify that P & M measures regarding threats due to thi	ird party day	maga ara bain	<u> </u>	
implemented: [§192.915(c), §192.935(b)(1)(iv)]:	uu party uai	mage are bem	g	
[31521510(0), 31521555(0)(1)(14)].				
Confirm the use of qualified personnel for marking, local	ating and d	irect supervis	ion	
of known excavation work, as appropriate.	anne, and a	ar cot super vis	1011	
, 11 1				,
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.]
	Pages and and a		i i i i i i i i i i i i i i i i i i i	as appropriate.
3B. Installed Automatic Shut-off Valves (Protocol	G-4:-C-4-		,,,,	Notes:
H.07)	Satisfactory	Unsatisfactory	N/C	
Verify additional preventive and mitigative actions	X			
implemented by Operator.				
Document that additional measures evaluated by the ope			İ	
such as, installing Automatic Shut-off Valves or Remot				
computerized monitoring and leak detection systems, re			th	
pipe of heavier wall thickness, providing additional train				·
response procedures, conducting drills with local emerg				,
implementing additional inspection and maintenance pro				
Verify that the operator has a process to decide if autom				
remote control valves represent an efficient means of ad potentially affected high consequence areas. [§192.935(anig protec	tion to		
potentially affected high consequence areas. [§192.933(c)]			
	•			
Verify operation of installed remote control valve by rev	viewing one	rator		•
inspection/remote control records for partially opening a				
appropriate.				
Other:				·
			ŀ	
				[Note: Add location specific information,
				as appropriate.]
			942.E	
	7.X.Y.			

Part 4 - Field Investigations (Additional Activities as appropriate)

			Y THE ST		
4A. Field Inspection for Verification of HCA Locations	Satisfactory	Unsatisfactory	N/C	Notes:	
Review HCAs locations as identified by the Operator. Utilize NPMS and Operator maps, as appropriate.	X				
Verify that the operator's integrity management program updated system maps or other suitably detailed means desegment locations that are located in high consequence a [§192.905(a)]					
Review the operator's applicable procedures and forms information from one-calls, surveys, aerial & ground pa field personnel to communicate new developments that consequence areas or that may create new high consequence appropriate. [§192.905(c)]					
Review the operator's applicable procedures and forms and class location changes are being identified through program as required by §192.613 and §192.905.				[Note: Add location specific information, as appropriate.]	
4B. Field Inspection for Verification of Anomaly Digs	Satisfactory	Unsatisfactory	N/C	Notes:	
Verify repair areas, ILI verification sites, etc.	Χ.				
Document the anomaly dig sites observed and reviewed and the actions taken by the operator.	as part of t	his field activ	ity	[Note: Add location specific information, as appropriate.]	
4C. Field Inspection to Verify adequacy of the		7.1. 1245 - 47 67 10 (1) 1252 1233 	iXi Magazi	Notes:	
Cathodic Protection System	Satisfactory	Unsatisfactory	N/C	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	
adequacy.	<u> </u>	 		values had not been mitigated since	
The operator should review the CP system performance hydrostatic pressure test to ensure the integrity assessment	ent addresse	ed applicable		last inspection in 2007, and fuel line to Control Room at Compressor	
threats to the integrity of the pipeline. Has the operator		ne CP system		station had excessive impressed	
performance in conjunction with the hydrostatic pressur Review records of CP readings from CIS and/or annual	re test?	ncura minimu	m	current.	
code requirements are being met, if available.	survey to e	nsare minima	111		
	:				
Review results of random field CP readings performed during this activity to ensure minimum code requirements are being met, if possible. Perform random rectifier checks during this activity and ensure rectifiers are operating correctly, if possible. Cathodic Protection readings of pipe to soil at dig site (if available): On Potential: mV					
, , ,		Off Potential:mV			
		[Note: Add location specific information and note whether CP readings were from the surface or from the pipe following			
				exposure, as appropriate.]	
			L 37/2		
4D. Field inspection for general system characteristics	Satisfactory	Unsatisfactory	N/C	Notes:	
Through field inspection determine overall condition of					
pipeline and associated facilities for a general estimation of the effectiveness of the operator's IMP	X		-		
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)

Pipeline Sy	stem and Lin	ie Pipe Information			
Operator (OpID and System Name):					
Unit ID (Pipeline Name)					
Pipe Manufacturer and Year:	nd 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:			
113	Reported I	nformation			
ILI Technology (e.g., Vendor, Tools):	an in the season of the season				
Anomaly Type (e.g., Mechanical, Metal Lo	oss):				
Is anomaly in a segment that can affect an		0)			
Date of Tool Run (MM/DD/YY):		Inspection Report (MM/DD/YY):			
Date of "Discovery of Anomaly" (MM/DI					
Type of "Condition" (e.g.; Immediate; 60-					
Anomaly Feature (Int/Ext):		n (O'clock position):			
Anomaly Details: Length (in):	Width (in)				
Anomaly Log Distance (ft):		rom Upstream weld (ft):			
Length of joint(s) of pipe in which anomal					
		rmation Summary			
Date of Anomaly Dig (MM/DD/YY):	8 2 1 2 2 2 2 2	J			
Location Information (describe or attach m	nan):				
Mile Post Number:	Distance from A/G Reference (ft):				
Distance from Upstream weld (ft):		2011 2 3 1010100 (20)1			
GPS Readings (if available) Longitude:		Latitude:			
Anomaly Feature (Int/Ext):	Orientatio	n:			
Length of joint of pipe in which anomaly is	s found (ft):				
		mage Anomaly			
Damage Type (e.g., original construction,					
Length (in):	Width (in):	Depth (in):			
Near a weld? (Yes / No):		2 op in (in).			
Gouge or metal loss associated with dent?	(Yes / No):	Are multiple dents present? (Yes / No):			
Did operator perform additional NDE to ev	```				
Cracks associated with dent? (Yes / No):	1.	(5-52, 5-55).			
	rosion Meta	l Loss Anomaly			
Anomaly Type (e.g., pitting, general):	rosion ivicta	1 Loss Anomary			
Length (in):	Width (in):	Max. Depth (in):			
Remaining minimum wall thickness (in):					
Safe pressure calculation (psi), as appropri					
	The state of the s	of Anomalies			
Describe anomaly (e.g., dent with metal lo	es crack seam	defect SCC).			
Length (in):	Width (in):	Max. Depth (in):			
Other Information, as appropriate:	· · · · · · · · · · · · · · · · · · ·	wax. Deput (III).			
Did operator perform additional NDE to ev	valuate presence	e of cracks? (Ves / No):			

Anomaly Repair Report (to be completed as appropriate)