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

Hazardous Liquid IMP Field Verification Inspection 49 CFR Parts 195.450 and 195.452

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:	Chevron Pipe Line Company
Op ID:	5145

Perform Activity (denoted by mark)	Activity Number	Activity Description
X	1A	In-Line Inspection
	1B	Hydrostatic Pressure Testing
	1C	Other Assessment Technologies
X	2A	Remedial Actions
X	2B	Remediation – Implementation
	3A	Installed Leak Detection System Information
	3B	Installed Emergency Flow Restrictive Device
	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

Hazardous Liquid IMP Field Verification Inspection Form

Name of Operator:	Chevron Pipeline Comp	pany		
Headquarters Address:	Chevron Pipe Line C 4800 Fournace Place Bellaire, TX 77401-2			
Company Official:	M.G. Bowin, VP Ope	rations		
Phone Number:	(281) 596-3509			
Fax Number:	(281) 596-3626			
Operator ID:	5145			
Persons In	terviewed	Title	Phone No.	E-Mail
Gary Saenz		Health, Environment & Safety	713-432-3332	garysaenz@chevro n.com
OPS/State Representativ	ve(s):Joe Subsits, V	VA	_ Dates of Inspec	tion:
Inspector Signature:				
		on of the Pipeline Segment Inspected commodities, HCA locations, and Pi		
res tool. The pipe is X-42	2, X-46 8-inch .219, .250	r, The segment above Tri-Cities was w.t seamless American Steel pipe. omalies were detected in Spokane.	The coating is Asbe	stos tar wrap. No
•				•

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.]

Pine to sail readings collected throughout right of way, valve stations and the numb station in Washington State

ndings:			
	,		
Documents Reviewed:			
Documents Reviewed: Document Title	Document No.	Rev. No	Date
Document Title CA maps on-line	Document No.	Rev. No	Date
Documents Reviewed: Document Title CA maps on-line eld Maintenance data reports (3)	Document No.	Rev. No	Date (2)7/12/09, 7/10/09
Document Title CA maps on-line Id Maintenance data reports (3)	Document No.	Rev. No	(2)7/12/09,
Document Title CA maps on-line	Document No.	Rev. No	(2)7/12/09, 7/10/09

Summary:

Part 1 - Performance of Integrity Assessments

1A. In-Line Inspection (Protocol 3.04 & 3.05)	Satisfactory	Unsatisfactory	N/C	Notes:
Verify that Operator's O&M and IMP procedural				
requirements (e.g. launching/receiving tools) for	X			South line run last year, North line (above
performance of ILI were followed.				pump station) was done this year, Hi res
Verify Operator's ILI procedural requirements were follows:			rap	and geometry tools were run, vendor was
for launching and receiving of pig, operational control of	of flow), as	appropriate.		rosen.
Verify ILI tool systems and calibration checks before ru tool was operating correctly prior to assessment being p				Reviewed QA/QC report
Verify ILI complied with Operator's procedural require successful assessment (e.g. speed of travel within limits coverage), as appropriate.			a	
Document ILI Tool Vendor and Tool type (e.g. MFL, D other pertinent information about Vendor and Tool, as a). Document		
Verify that Operator's personnel have access to applical		res		
that operator a personner have decess to approach	ore brocoda			
Other:				
				[Note: Add location specific information, as appropriate.]
1B. Hydrostatic Pressure Testing (Protocol 3.06)	Satisfactory	Unsatisfactory	N/C	Notes:
	1			
Verify that hydrostatic pressure tests complied with			x	
Part 195 Subpart E requirements. Review documentation of Hydrostatic Pressure Test par				
Part 195 Subpart E requirements. Review documentation of Hydrostatic Pressure Test partest was performed without leakage and in compliance virequirements.	with Part 19	5 Subpart E		
Part 195 Subpart E requirements. Review documentation of Hydrostatic Pressure Test partest was performed without leakage and in compliance virequirements. Review test procedures and records and verify test acceptable.	with Part 19	d validity.		
Part 195 Subpart E requirements. Review documentation of Hydrostatic Pressure Test partest was performed without leakage and in compliance virequirements.	with Part 19	d validity.		
Part 195 Subpart E requirements. Review documentation of Hydrostatic Pressure Test partest was performed without leakage and in compliance virequirements. Review test procedures and records and verify test acceptions. Review determination of the cause of hydrostatic test faces	with Part 19 ptability an	d validity.	ify	
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Part 2 - Remediation of Anomalies

	1778010100000	Section And Control	ks/WY	
2A. Remedial Actions – Process (Protocol 4.1)	Satisfactory	Unsatisfactory	N/C	Notes:
Verify that remedial actions complied with the	X			
Operator's procedural requirements.	^			3-60 day anomalies found in North
Witness anomaly remediation and verify documentation of remediation (e.g.				section. 0 found in south section. 3 dents
Exposed Pipe Reports, Maintenance Report, any Data A			y	repaired with full encirclement sleeve
compliance with Operator's O&M Manual and Part 195			•	
	•			
Verify that Operator's procedures were followed in loca	ting and ex	posing the		
anomaly (e.g. any required pressure reductions, line loca				
approximate location of anomaly for excavation, excava				
<i>upp.o</i>	,	8		
Verify that procedures were followed in measuring the a	nomaly, de	termining the		
severity of the anomaly, and determining remaining stre				
severity of the anomaly, and determining femaning sav	ingui or uno	p.pc.		
Verify that Operator's personnel have access to applicat	ole procedu	rec		
verify that Operator's personner have access to applicat	ne procedu	103.		
Other:		···		
Other:				
	. Z stanialiana 48		zvana 1889	
	l c - 4: - c 4	Unsatisfactory	NIC	Natar
2B. Remediation - Implementation (Protocol 4.02)	Satisfactory	Unsatisfactory	N/C	Notes:
Verify that the operator has adequately implemented				
its remediation process and procedures to effectively	x			2 CO day an amalian formed in North
remediate conditions identified through integrity				3-60 day anomalies found in North
assessments or information analysis.	<u> </u>			section. 0 found in south section. 3 dents
If documentation is available, verify that repairs were co			/ith	repaired with full encirclement sleeve
the operator's prioritized schedule and within the time fi	rames allov	ved in		
§195.452(h).				
Review any documentation for this inspection site for an			ion	
(§195.452(h)(4)(i) where operating pressure was reduce				
shutdown. Verify for an immediate repair condition tha				
pressure was determined in accordance with the formula				
ASME/ANSI B31.4 or, if not applicable, the operator sh	ould provi	de an enginee	ring	
basis justifying the amount of pressure reduction.				
				·
Verify that repairs were performed in accordance with §	195.422 an	d the Operato	r's	
O&M Manual, as appropriate.				
	14			·
Review CP readings at anomaly dig site, if possible. (S				
"Field Inspection to Verify adequacy of the Cathodic Pr	otection Sy	stem", as		
appropriate.				
· · ·				
				Cathodic Protection readings of pipe to
				soil at dig site (if available):
Other:				On Potential:mV
				Off Potential:mV
				[Note: Add location specific information,
				as appropriate.]
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Part 3 - Preventive and Mitigative Actions

3A. Installed Leak Detection System Information	Satisfactory	Unsatisfactory	N/C	Notes:
(Protocol 6.05)	Satisfactory	Chadistaciony	1,,,,	
Identify installed leak detection systems on pipelines and facilities that can affect an HCA.			х	Leak detection system functional prior to IMP rule
Document leak detection system components installed o capabilities, as appropriate.	on system to	enhance		
Document the frequency of monitoring of installed leak connection of installed components to leak detection monappropriate,			erify	
Other:	21 3 4 - 221			[Note: Add location specific information, as appropriate.]
2D Installed Engagement Flow Destriction Design				
3B. Installed Emergency Flow Restrictive Device (Protocol 6.06)	Satisfactory	Unsatisfactory	N/C	Notes:
Verify additional preventive and mitigative actions implemented by Operator.			х	No modifications were done based on valve placement study that was done by
Document Emergency Flow Restrictive Device (EFRD) system.	component	t(s) installed o	n	Chevron.
Note that EFRD per §195.450 means a check valve or refollows: (1) Check valve means a valve that permits fluid to and contains a mechanism to automatically prevent flow (2) Remote control valve or RCV means any valve location remote from where the valve is installed. The R the supervisory control and data acquisition (SCADA) sthe pipeline control center and the RCV may be by fiber telephone lines, or satellite.	flow freely in the other that is opera. CV is usually ystem. The	in one direction direction a lly operated b linkage between	y	
Document the frequency of monitoring of installed EFR installed components to monitoring/operating system, as			of	
Verify operation of remote control valve by having oper to partially open or close the valve, as appropriate.	ator send re	emote comman	nd	
Comment on the perceived effectiveness of the EFRD in mitigating the consequences of a release on the HCA that it is designed to protect.				[Note: Add location specific information,
	Other:			

Part 4 - Field Investigations (Additional Activities as appropriate)

		ili. M. Geder			
4A. Field Inspection for Verification of HCA Locations	Satisfactory	Unsatisfactory	N/C	Notes:	
Review HCAs locations as identified by the Operator.					
Utilize NPMS, as appropriate.	х		,	HCA determination and modifications	
Verify population derived HCAs in the field are as they	appear on (Operator's ma	ps	managed in Houston with input from field	
and NPMS, as appropriate. Document newly constructed			•	personnel.	
	population and/or commercial areas that could be affected by a pipeline release, as				
appropriate.	• • •				
Note that population derived HCAs are defined in §195.	450				
Verify drinking water and ecological HCAs in the field		appear on			
Operator's maps and NPMS, as appropriate. Document	newly esta	blished drinki	ing		
water sources and/or ecological resources areas (within	last 2-3 yea	rs) that could	be		
affected by a pipeline release, as appropriate.					
Note that unusually sensitive areas (USAs) are defined i	n §195.6				
				•	
Verify commercially navigable waterway HCAs in the				•	
Operator's maps and NPMS, as appropriate. Document			l in		
nature) that could affect the waterways status as a comm	nercially na	vigable			
waterway, as appropriate.	, ~	105 450		Motor Addlogation manifes information	
Note that commercially navigable waterway HCAs are	defined in §	195.450		[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.	х				
Document the anomaly dig sites reviewed as part of this	field activ	ity and action	s	[Note: Add location specific information,	
taken by the operator.				as appropriate.]	
4C. Field Inspection to Verify adequacy of the	Satisfactory	Unsatisfactory	N/C	Notes:	
Cathodic Protection System	ļ			,	
In case of hydrostatic pressure testing, Cathodic				No hydrostatic testing done	
Protection (CP) systems must be evaluated for general			X	140 hydrostatic testing done	
The operator should review the CP system performance	in conjunct	tion with a	L		
hydrostatic pressure test to ensure the integrity assessment	ant addresse	ed annlicable			
threats to the integrity of the pipeline. Has the operator	reviewed th	ne CP system			
performance in conjunction with the hydrostatic pressur		io or system			
Review records of CP readings from CIS and/or annual		nsure minimu	ım	Cathodic Protection readings of pipe to	
code requirements are being met, if available.	221,07 10 0			soil at dig site (if available):	
Todo requiremente de come men il arandore.				On Potential:mV	
Review results of random field CP readings performed	during this	activity to ens	ure	Off Potential:mV	
minimum code requirements are being met, if possible.	Perform ra	ndom rectifie	r		
checks during this activity and ensure rectifiers are open				[Note: Add location specific information,	
				as appropriate.]	
	0-4:-6	Tractice :	1 21/2	Notes	
4D. Field inspection for general system characteristics	Satisfactory	Unsatisfactory	N/C	Notes:	
Through field inspection determine overall condition of			1		
pipeline and associated facilities for a general	X	,			
estimation of the effectiveness of the operator's IMP					
implementation. Evaluate condition of the ROW of inspection site to ens	ura minim	ım code	L		
requirements are being met, as appropriate.	ur¢ mmmt	iiii code			
Comment on Operator's apparent commitment to the in	teority and	safe operation	n of		
their system, as appropriate.	togrity and	sare operation	1 01		
Other					
- Ouivi					
			Toba dag		

Anomaly Evaluation Report (to be completed as appropriate)

Pipeline System and L	ine Pine Information
Operator (OpID and System Name): Chevrontexacq Pipe	
Unit ID (Pipeline Name) Pasco system 5145	cime C0 02/31
Pipe Manufacturer and Year: American Steel	Seam Type and Orientation:seamless
Pipe Nominal OD (inch): 8-inch	Seam Orientation: NA
Pipe Nominal Wall thickness (inch):.219 in, .250 in	Coating Type:Somastic, Asbestos Tar wrap
Grade of Pipe:X-42, X-46	MOP: 1216 psig
ILI Reported	
ILI Technology (e.g., Vendor, Tools):Rosen, Hi res, geo	
Anomaly Type (e.g., Mechanical, Metal Loss):dents	
Is anomaly in a segment that can affect an HCA? yes	
	ection Report 4/29/09:
Date of "Discovery of Anomaly" 7/10/09, (2) 7/12/2009);
Type of "Condition" (e.g.; Immediate; 60-day; 180-day)	
	ntation: 11:09, 10:39, 11:15
Anomaly Details: Length (in): 5 in, 2.2 in, 2.6 in Widtin	
Anomaly Log Distance (ft): 273152.41 ft, 205949.35 ft ft, 17.49 ft, 31.18 ft	, 206355.08ft Distance from Upstream weld (ft): 6.4
• Length of joint of pipe in which anomaly is iden	tified (ft):48.43 ft, 49.31ft, 48.12 ft
	Information Summary
Date of Anomaly Dig (MM/DD/YY)	
Location Information: 8" Piz to Spokane	
Mile Post Number: 681.53, 668.81, 668.88 Distance fr ft11,809.22 ft	om A/G Reference (ft):2,409.64 ft,11,417.17
Distance from Upstream weld (ft):6.4 ft,17.49 ft, 31.18	ft
GPS Readings (if available) Longitude:	Latitude:
	ntation: 11:09, 10.39, 11:15
Length of joint of pipe in which anomaly is found (ft): 4	
For Mechanical D	
Damage Type (e.g., original construction, plain dent, go	
	3 in, 2.6 in, 3.11 in Depth (in): .08in, .04in, .04 in
Near a weld? (Yes / No):No	
Gouge or metal loss associated with dent? (Yes / No):	
Did operator perform additional NDE to evaluate presen	nce of cracks in dent? (Yes / No):
Cracks associated with dent? (Yes / No):	
For Corrosion Me	tal Loss Anomaly
Anomaly Type (e.g., pitting, general):NA	, , , , , , , , , , , , , , , , , , ,
Length (in): Width (in):	Max. Depth (in):
Remaining minimum wall thickness (in):	aximum % Wall Loss measurement(%):
Safe pressure calculation (psi), as appropriate:	
For "Other Type	
Describe anomaly (e.g., dent with metal loss, crack, sear	·
Length (in): Width (in):	Max. Depth (in):
Other Information, as appropriate:	

Did operator perform additional NDE to evaluate presence of cracks? (Yes / No):	
Cracks present? (Yes / No):	

Anomaly Repair Report (to be completed as appropriate)

Repai	r Information	
Was a repair of the anomaly made? (Yes / No):yes	3	
Was defect ground out to eliminate need for repair	r? (Yes / No):	
If grinding used, complete the following for affects	ed area:	
Length (in): Width	n (in):	Depth (in):
If NO repair of an anomaly for which RSTRENG i	is applicable, were th	ne Operator's RSTRENG calculations
reviewed? (Yes / No):NA		
If Repair made, complete the following:		
Repair Type (e.g., Type B-sleeve, composite wrap))full enciclement sle	eve
Length of Repair: NA		
Comments on Repair material, as appropriate (e.g.,		
Pipe re-coating material used following excavation	n: Tape Coat M50RC	,
General Obser	vations and Com	ments
Was a diagram (e.g., corrosion map) of the anomal	ly made? (Yes / No):	(Include in report if available)
Were pipe-to-soil cathodic protection readings take	en? (Yes/No):	
If readings taken, Record: On Potential:	mV; Of	f Potential: mV
Describe method used to Operator to locate anoma	aly (as appropriate):	
Comments regarding procedures followed during e	excavation, repair of	anomaly, and backfill (as appropriate):
General Observations and Comments (Note: attack	h photographs, sketc	hes, etc., as appropriate):
·		