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:	
Op ID:	

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
	3A	Preventive & Mitigative – additional measures evaluated for HCAs
	3B	Preventive & Mitigative – automatic shut-off valves
	4A	Field Inspection for Verification of HCA Locations
	4B	Field Inspection for Verification of Anomaly Digs
	4C	Field Inspection to Verify adequacy of the Cathodic Protection
		System
	4D	Field inspection for general system characteristics
	attachment	Anomaly Evaluation Report
	attachment	Anomaly Repair Report

Gas IMP Field Verification Inspection Form

Name of Operator:			
Headquarters Address:			
Company Official:			
Phone Number:			
Fax Number:			
Operator ID:			
Persons Interviewed	Title	Phone No.	E-Mail
	Primary Contact		
ODS/State Demographetics(a)	Do	to(a) of Ingression.	
OPS/State Representative(s):	Dat	te(s) of Inspection:	
T	ъ.		
Inspector Signature:	Date:		
Pipeline Segment Descriptions: [note: Descriptions is available, include the pipe size, MAOP, %SMYS, HCA locations, class locations.]	wall thickness, grade, seam type, coat	ing type, length, normal	
Site Location of field activities: [note: Descri			
milepost/stations/valves/pipe-to-soil readings/ritems in any PHMSA compliance action or con appropriate.]			

Findings:			
Key Documents Reviewed:			
Document Title	Document No.	Rev No	Date

Document Title	Document No.	Rev. No	Date
		·	

Part 1 - Performance of Integrity Assessments

1A. In-Line Inspection	Satisfactory	Unsatisfactory	N/C	Notes:
Verify that Operator's O&M and IMP procedural				
requirements (e.g. launching/receiving tools) for				
performance of ILI were followed.				
Verify Operator's ILI procedural requirements were fol	lowed (e.g.	operation of t	rap	
for launching and receiving of pig, operational control of	of flow), as	appropriate.		
Verify ILI tool systems and calibration checks before ru	ın were perf	formed to ensi	are	
tool was operating correctly prior to assessment being p	erformed, a	s appropriate.		
Verify ILI complied with Operator's procedural require	ments for p	erformance of	î a	
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). Document		
other pertinent information about Vendor and Tool, as a				
Verify that Operator's personnel have access to applical				
running and monitoring the pipeline for ILI tools include			nts	
(e.g.: tool speeds, pipe cleanliness, operation of tool se	nsors, and I	LI field		[Note: Add location specific
calibration requirements), as appropriate.				information, as appropriate.]
Other:				information, as appropriate.]
1B. Hydrostatic Pressure Testing	Satisfactory	Unsatisfactory	N/C	Notes:
Verify that hydrostatic pressure tests complied with	Butisfactory	Chaustactory	100	riotes.
Part 192 Subpart J requirements.				
Review documentation of Hydrostatic Pressure Test par	rameters and	d results. Ver	ifv	
test was performed without leakage and in compliance			,	
requirements.		1		
Review test procedures and records and verify test acce	ptability and	d validity.		
Review determination of the cause of hydrostatic test fa	ilures, as ar	propriate.		
Document Hydrostatic Pressure Test Vendor and equipment used, as appropriate.				
Verify that the baseline assessment is conducted in a manner that minimizes				
environmental and safety risks (reference §192.919(e) and ADB-04-01)				
Other:		,		
1C. Direct Assessment Technologies	Satisfactory	Unsatisfactory	N/C	Notes:
Verify that application of "Direct Assessment				
Technology" complied with Part 192.923				
	Review documentation of Operator's application of "Direct Assessment			
Technology", if available. Verify compliance with Part	: 192.923 an	d Operator's		
procedural requirements, as applicable.				
Verify that appropriate tests and/or inspections are being	g performed	l and appropri	iate	
data is being collected, as appropriate.				
Other.				
1D OIL A 4TE L L	Ig et c	TT C .	NIG	N.
1D. Other Assessment Technologies	Satisfactory	Unsatisfactory	N/C	Notes:
Verify that application of "Other Assessment				
Technology" complied with Operator's requirements,				
that appropriate notifications had been submitted to				
PHMSA, and that appropriate data was collected.		lisation of "C)+la a#	
Review documentation of notification to PHMSA of Op				
Assessment Technology", if available. Verify compliance with Operator's procedural requirements. If documentation of notification to PHMSA of Operator's application				
of "Other Assessment Technology" is available, verify performance of assessment				
within parameters originally submitted to PHMSA.	Portormano	or assessine.	.11	
Verify that appropriate tests are being performed and ap	propriate d	ata is heing		
collected, as appropriate.	Propriete de	and is oding		
Other.				

Part 2 - Remediation of Anomalies

2A. Remedial Actions – Process	Satisfactory	Unsatisfactory	N/C	Notes:
Verify that remedial actions complied with the	Satisfactory	Ulisatisfactory	N/C	Notes.
Operator's procedural requirements.				
Witness anomaly remediation and verify documentation	n of remedia	tion (e.g.	l .	
Exposed Pipe Reports, Maintenance Report, any Data			fy .	
compliance with Operator's O&M Manual and Part 19				
anomaly (e.g. any required pressure reductions, line loc	Verify that Operator's procedures were followed in locating and exposing the anomaly (e.g. any required pressure reductions, line location, identifying approximate location of anomaly for excavation, excavation, coating removal).			
Verify that procedures were followed in measuring the severity of the anomaly, and determining remaining str class location factor and failure pressure ratio used by of anomaly.	ength of the	pipe. Review	the	Cathodic Protection readings of pipe to soil at dig site (if available): On Potential:mV
Verify that Operator's personnel have access to and knoprocedures.	owledge of a	applicable		Off Potential:mV
procedures.				[Note: Add location specific information
Other:				and note whether CP readings were from
				the surface or from the pipe following exposure, as appropriate.]
				exposure, as appropriate.
2B. Remediation - Implementation	Satisfactory	Unsatisfactory	N/C	Notes:
Verify that the operator has adequately implemented its remediation process and procedures to effectively remediate conditions identified through integrity assessments or information analysis.				
If documentation is available, verify that repairs were c	ompleted in	accordance w	vith	
the operator's prioritized schedule and within the time \$192.933(d).				
Review any documentation for this inspection site for a (§192.933(d)(1)) where operating pressure was reduced shutdown. Verify for an immediate repair condition the pressure was determined in accordance with the require not applicable, the operator should provide an engineer amount of pressure reduction.	or the pipel at temporary ements in §1	line was operating 92.933(a) or,		
Verify that repairs were performed in accordance with \$192.713, \$192.717, \$192.719, \$192.933 and the Oper appropriate. If welding is performed, verify a qualified qualified welders are used to perform repairs. If compouring that a method approved by the Operator is used, qualified personnel perform the repair.	ator's O&M welding pro osite repair n procedures a	Manual, as ocedure and nethods are us are followed, a		Cathodic Protection readings of pipe to soil at dig site (if available): On Potential:mV
Review CP readings at anomaly dig site, if possible. (S "Field Inspection to Verify adequacy of the Cathodic P appropriate.				Off Potential:mV [Note: Add location specific information and note whether CP readings were from
Other:				the surface or from the pipe following exposure, as appropriate.]

Part 3 - Preventive and Mitigative Actions

3A. P&M Measures for Third Party Damage Identify additional measures evaluated for the HCA section of the pipeline and facilities. Verify that P & M measures regarding threats due to this implemented: [§192.915(c), §192.935(b)(1)(iv)]: Confirm the use of qualified personnel for marking, located of known excavation work, as appropriate. Confirm the use of qualified personnel for monitoring of the confirm the use of qualified personnel for monitoring of the confirm the use of qualified personnel for monitoring of the confirm the use of qualified personnel for monitoring of the confirm the use of qualified personnel for monitoring of the confirm the use of qualified personnel for monitoring of the confirmation of th	ating, and d	irect supervisi	ion	Notes:
Other:		is conducted (J11	[Note: Add location specific information, as appropriate.]
3B. Installed Automatic Shut-off Valves (Protocol H.07) Verify additional preventive and mitigative actions implemented by Operator. Document that additional measures evaluated by the ope such as, installing Automatic Shut-off Valves or Remot computerized monitoring and leak detection systems, repipe of heavier wall thickness, providing additional train response procedures, conducting drills with local emerge implementing additional inspection and maintenance proverify that the operator has a process to decide if automoremote control valves represent an efficient means of adpotentially affected high consequence areas. [§192.935]	e Control V placing pipe ning to perse ency respon ograms, as a atic shut-of ding protec c)]	Valves, installing segments with connel on an address and appropriate of valves or tion to		Notes:
Other:				[Note: Add location specific information, as appropriate.]

Part 4 - Field Investigations (Additional Activities as appropriate)

4A. Field Inspection for Verification of HCA Locations	Satisfactory	Unsatisfactory	N/C	Notes:
Review HCAs locations as identified by the Operator.				
Utilize NPMS and Operator maps, as appropriate.				
Verify that the operator's integrity management program				
updated system maps or other suitably detailed means de				
segment locations that are located in high consequence a [§192.905(a)]	ireas, as ap	propriate.		
Review the operator's applicable procedures and forms	used to doc	ument new		
information from one-calls, surveys, aerial & ground pa			l by	
field personnel to communicate new developments that			,	
consequence areas or that may create new high consequence	ence areas t	o IM personn	el,	
as appropriate. [§192.905(c)]				
Review the operator's applicable procedures and forms	to confirm	that new HCA	As	
and class location changes are being identified through i	t's continui	ng surveilland	ce	[Note: Add location specific information,
program as required by §192.613 and §192.905.				as appropriate.]
AD Field Inspection for Varification of Anomaly Digg	C-4:-f4	T.T4:C4	N/C	
4B. Field Inspection for Verification of Anomaly Digs Verify repair areas, ILI verification sites, etc.	Satisfactory	Unsatisfactory	N/C	Notes:
Document the anomaly dig sites observed and reviewed	as part of t	his field activi	itv	[Note: Add location specific information,
and the actions taken by the operator.	as part or t	ins neid activi	ity	as appropriate.]
and the terroris taken by the operation				11 1 3
AC Field Ingression to Venify adagness of the				Notas
4C. Field Inspection to Verify adequacy of the Cathodic Protection System	Satisfactory	Unsatisfactory	N/C	Notes:
In case of hydrostatic pressure testing, Cathodic				
Protection (CP) systems must be evaluated for general				
adequacy.				
The operator should review the CP system performance				
hydrostatic pressure test to ensure the integrity assessme				
threats to the integrity of the pipeline. Has the operator		ne CP system		
performance in conjunction with the hydrostatic pressur				Cathodic Protection readings of pipe to
Review records of CP readings from CIS and/or annual code requirements are being met, if available.	survey to el	isure illillillilli	111	soil at dig site (if available):
code requirements are being met, if available.				On Potential:mV
				Off Potential:mV
Review results of random field CP readings performed of				
minimum code requirements are being met, if possible.				[Note: Add location specific information
checks during this activity and ensure rectifiers are oper	ating correc	tly, if possible	e.	and note whether CP readings were from
				the surface or from the pipe following exposure, as appropriate.]
4D. Field inspection for general system characteristics	Satisfactory	Unsatisfactory	N/C	Notes:
Through field inspection determine overall condition of				
pipeline and associated facilities for a general estimation of the effectiveness of the operator's IMP				
implementation.				
Evaluate condition of the ROW of inspection site to ens	ure minimu	m code		
requirements are being met, as appropriate.		z z zeź		
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)

d Line Pipe Information
Seam Type and Orientation:
Depth of Cover:
Coating Type and Condition:
MAOP:
ed Information
es / No)
ate of Inspection Report (MM/DD/YY):
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lay):
ntation (O'clock position):
th (in): Depth (in):
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fied (ft):
Information Summary
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Latitude:
ntation:
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l Damage Anomaly
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in): Depth (in):
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): Are multiple dents present? (Yes / No):
esence of cracks in dent? (Yes / No):
· ,
Metal Loss Anomaly
N.
in): Max. Depth (in):
Maximum % Wall Loss measurement(%):
. ,
pes" of Anomalies
seam defect, SCC):
in): Max. Depth (in):
in): Max. Depth (in):
esence of cracks? (Yes / No):

Anomaly Repair Report (to be completed as appropriate)

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