

U.S. Department of Transportation **Pipeline and Hazardous Materials Safety Administration** 

# 2012 Natural Gas State Program Evaluation

for

## NORTH DAKOTA PUBLIC SERVICE COMMISSION

### Document Legend PART:

- O -- Representative Date and Title Information
- A -- Progress Report and Program Documentation Review
- B -- Program Inspection Procedures
- C -- Program Performance
- D -- Compliance Activities
- E -- Incident Investigations
- -- Damage Prevention
- G -- Field Inspections
- H -- Interstate Agent State (If Applicable)
- I -- 60106 Agreement State (If Applicable)



## 2012 Natural Gas State Program Evaluation -- CY 2012 Natural Gas

State Agency: North Dakota Rating:

Agency Status: 60105(a): Yes 60106(a): No Interstate Agent: No

**Date of Visit:** 04/15/2013 - 04/19/2013 **Agency Representative:** Aaron Morman **PHMSA Representative:** Leonard Steiner

Commission Chairman to whom follow up letter is to be sent:

Name/Title: Brian Kalk, Chairman

Agency: North Dakjota Public Service Commission
Address: 600 East Boulvard, Department 408
City/State/Zip: Bismarck, North Dakota 58505-0408

#### **INSTRUCTIONS:**

Complete this evaluation in accordance with the Procedures for Evaluating State Pipeline Safety Program. The evaluation should generally reflect state program performance during CY 2012 (not the status of performance at the time of the evaluation). All items for which criteria have not been established should be answered based on the PHMSA representative's judgment. A deficiency in any one part of a multiple part question should be scored as needs improvement. Determine the answer to the question then select the appropriate point value. If a state receives less then the maximum points, include a brief explanation in the space provided for general comments/regional observations. If a question is not applicable to a state, select NA. Please ensure all responses are COMPLETE and ACCURATE, and OBJECTIVELY reflect state program performance. Increasing emphasis is being placed on performance. This evaluation together with selected factors reported in the state's annual progress report attachments provide the basis for determining the state's pipeline safety grant allocation.

### Field Inspection (PART G):

The field inspection form used will allow different areas of emphasis to be considered for each question. Question 13 is provided for scoring field observation areas. In completing PART G, the PHMSA representative should include a written summary which thoroughly documents the inspection.

#### **Scoring Summary**

, PARTS		Possible Points	<b>Points Scored</b>
A	Progress Report and Program Documentation Review	10	10
В	Program Inspection Procedures	15	15
C	Program Performance	43	39
D	Compliance Activities	15	14
Е	Incident Investigations	8	8
F	Damage Prevention	8	8
G	Field Inspections	12	12
Н	Interstate Agent State (If Applicable)	0	0
I	60106 Agreement State (If Applicable)	0	0
TOTAL	LS	111	106
State R	ating		95.5



rak I	A - Progress Report and Program Documentation Review	Points(MAX)	Score
1	Accuracy of Jurisdictional Authority and Operator/Inspection Units Data - Progress Report Attachment 1 (A1a) Yes = 1 No = 0 Needs Improvement = .5	1	1
Evaluato	•		
<b>2</b> Evaluato	Review of Inspection Days for accuracy - Progress Report Attachment 2 (A1b)  Yes = 1 No = 0 Needs Improvement = .5  Notes:	1	1
3 Evaluato	Accuracy verification of Operators and Operators Inspection Units in State - Progres Report Attachment 3 (A1c) Yes = 1 No = 0 Needs Improvement = .5 Notes:	ss 1	1
4 Evaluato	Were all federally reportable incident reports listed and information correct? - Progre Report Attachment 4 (A1d)  Yes = 1 No = 0 Needs Improvement = .5  Notes:	ess 1	1
5 Evaluator	Accuracy verification of Compliance Activities - Progress Report Attachment 5 (A1e Yes = 1 No = 0 Needs Improvement = .5 Notes:	e) 1	1
6 Evaluator Sma	Were pipeline program files well-organized and accessible? - Progress Report Attachment 6 (A1f, A4) Yes = 2 No = 0 Needs Improvement = 1 Notes: Il number of operators	2	2
7 Evaluato	Was employee listing and completed training accurate and complete? - Progress Report Attachment 7 (A1g)  Yes = 1 No = 0 Needs Improvement = .5  Notes:	ort 1	1
8 Evaluato	Verification of Part 192,193,198,199 Rules and Amendments - Progress Report Attachment 8 (A1h) Yes = 1 No = 0 Needs Improvement = .5 Notes:	1	1

List of Planned Performance - Did state describe accomplishments on Progress Report in

detail - Progress Report Attachment 10 (H1-3)

Yes = 1 No = 0 Needs Improvement = .5



1

**Evaluator Notes:** 

10 General Comments: Info Only = No Points Info OnlyInfo Only

**Evaluator Notes:** 

Total points scored for this section: 10 Total possible points for this section: 10



PAR	Γ B - Program Inspection Procedures	Points(MAX)	Sco	re 
<b>1</b> Evaluato	Standard Inspections (B1a) Yes = 2 No = 0 Needs Improvement = 1 or Notes:	2		2
<b>2</b> Evaluato	IMP Inspections (including DIMP) (B1b)  Yes = 1 No = 0 Needs Improvement = .5  or Notes:	1		1
<b>3</b> Evaluato	OQ Inspections (B1c) Yes = 1 No = 0 Needs Improvement = .5 or Notes:	1		1
<b>4</b> Evaluato	Damage Prevention Inspections (B1d) Yes = 1 No = 0 Needs Improvement = .5 or Notes:	1		1
<b>5</b> Evaluato	On-Site Operator Training (B1e) Yes = 1 No = 0 Needs Improvement = .5 or Notes:	1		1
<b>6</b> Evaluato	Construction Inspections (B1f) Yes = 1 No = 0 Needs Improvement = .5 or Notes:	1		1
<b>7</b> Evaluato	Incident/Accident Investigations (B1g) Yes = 2 No = 0 Needs Improvement = 1 or Notes:	2		2
8	Does inspection plan address inspection priorities of each operator, and if necessary e unit, based on the following elements? (B2a-d, G1,2,4) Yes = 6 No = 0 Needs Improvement = 1-5	each 6		6
	a. Length of time since last inspection	Yes	No 🔘	Needs Improvement
	b. Operating history of operator/unit and/or location (includes leakage, incident ar	nd Yes • 1	No 🔘	Needs Improvement
	compliance activities) c. Type of activity being undertaken by operators (i.e. construction)	Yes	No ()	Needs -
	d. Locations of operators inspection units being inspected - (HCA's, Geographic		No ()	Improvement Needs
	areas, Population Density, etc) e. Process to identify high-risk inspection units that includes all threats - (Excavat	Ŭ		Improvement
	Damage, Corrosion, Natural Forces, Outside Forces, Material and Welds, Equipment, Operators and any Other Factors)	_	No 🔘	Needs Improvement
	f. Are inspection units broken down appropriately?	Yes	No O	Needs Improvement

#### **Evaluator Notes:**

North Dakota need to analyze the list of factors for prioritization and assign a relative and computative evaluation.

9 General Comments: Info Only = No Points Info OnlyInfo Only

**Evaluator Notes:** 

Total points scored for this section: 15 Total possible points for this section: 15

1	Was ratio of Total Inspection person-days to total person days acceptable? (Director of State Programs may modify with just cause) Chapter 4.3 (A12) $Yes = 5 No = 0$	5		5
	A. Total Inspection Person Days (Attachment 2): 92.00			
	B. Total Inspection Person Days Charged to the Program (220 X Inspection Person Years) (Attachment 7): 220 X 0.59 = 129.62			
	Ratio: A / B 92.00 / 129.62 = 0.71			
	If Ratio >= 0.38 Then Points = 5, If Ratio < 0.38 Then Points = 0 Points = 5			
Evaluato	r Notes:			
2	Has each inspector and program manager fulfilled the T Q Training Requirements? (See Guidelines for requirements) Chapter 4.4 (A8-A11, G19) Yes = 5 No = 0 Needs Improvement = 1-4	5		5
	a. Completion of Required OQ Training before conducting inspection as lead?	Yes •	No 🔘	Needs Improvement
	b. Completion of Required DIMP*/IMP Training before conducting inspection as lead? *Effective Evaluation CY2013	Yes •	No 🔘	Needs Improvement
	c. Root Cause Training by at least one inspector/program manager	Yes •	No 🔾	Needs Improvement
	d. Note any outside training completed	Yes •	No 🔾	Needs Improvement
Evaluator Train	r Notes: ning for Root Cause is on waitlist. Not qualified to conduct Tranmission IM inspections an	d none w	ere cond	-
3	Did state records and discussions with state pipeline safety program manager indicate adequate knowledge of PHMSA program and regulations? Chapter 4.1,8.1 (A5) Yes = 2 No = 0 Needs Improvement = 1	2		2
Evaluato				
4	Did state respond to Chairman's letter on previous evaluation within 60 days and correct or address any noted deficiencies? (If necessary) Chapter 8.1 (A6-7) Yes = 2 No = 0 Needs Improvement = 1	2		2
Evaluato				
They	have addressed the issues, even though some will need legislative approval.			
5	Did State hold PHMSA TQ Seminar in Past 3 Years? Chapter 8.5 (A3) Yes = 2 No = 0	2		2
Evaluator Sout	r Notes: h Dakota and North Dakota conduct safety seminars together. The last TQ seminar was in	CY 2012	2.	
6	Did state inspect all types of operators and inspection units in accordance with time intervals established in written procedures? Chapter 5.1 (B3)  Yes = 5 No = 0 Needs Improvement = 1-4	5		5
Evaluato	r Notes:			



7	Did inspection form(s) cover all applicable code requirements addressed on Federal Inspection form(s)? Did State complete all applicable portions of inspection forms? Chapter 5.1 (B4-5)	2	1
Evaluato	Yes = 2 No = 0 Needs Improvement = 1		
	forms need to be reviewed to ensure all regulations are on the form.		
8	Did the state review operator procedures for determining if exposed cast iron pipe was examined for evidence of graphitization and if necessary remedial action was taken? (NTSB) Chapter 5.1 (B7) $Y_{es} = 1 N_0 = 0$	1	NA
Evaluato			
No o	east iron in North Dakota		
9	Did the state review operator procedures for surveillance of cast iron pipelines, including appropriate action resulting from tracking circumferential cracking failures, study of leakage history, or other unusual operating maintenance condition? (Note: See GPTC Appendix G-18 for guidance) (NTSB) Chapter 5.1 (B8) $Y_{es} = 1 N_0 = 0$	1	NA
Evaluato			
No o	east iron in North Dakota.		
10	Did the state review operator emergency response procedures for leaks caused by excavation damage near buildings and determine whether the procedures adequately address the possibility of multiple leaks and underground migration of gas into nearby buildings Refer to 4/12/01 letter from PHMSA in response to NTSB recommendation P-00-20 and P-00-21? (NTSB) Chapter 5.1 (B9)	1	1
Evaluato	Yes = $1 \text{ No} = 0$ or Notes:		
11	Did the state review operator records of previous accidents and failures including reported third party damage and leak response to ensure appropriate operator response as required by 192.617? Chapter 5.1 (B10,E5) $Yes = 1 No = 0$	1	1
Evaluato			
12	Has the state reviewed Operator Annual reports, along with Incident/Accident reports, for accuracy and analyzed data for trends and operator issues? Data Initiative (G6-9,G16)  Yes = 2 No = 0 Needs Improvement = 1	2	2
Evaluato	•		
13	Did state input all applicable OQ, IMP inspection results into federal database in a timely manner? This includes replies to Operator notifications into IMDB database. Chapter 5.1 (G10-12) Yes = 2 No = 0 Needs Improvement = 1	2	1
Evaluato			
	th Dakota need to upload the completed OQ inspections into the PHMSA OQDB.		
14	Has state confirmed intrastate transmission operators have submitted information into NPMS database along with changes made after original submission? (G14)  Yes = 1 No = 0 Needs Improvement = .5	1	1



**Evaluator Notes:** 

with program. 49 CFR 199 (I1-3) Yes = 2 No = 0 Needs Improvement = 1

15

16

The commission has a web site for good information.

Is the state verifying operators are conducting drug and alcohol tests as required by

regulations? This should include verifying positive tests are responded to in accordance

Is state verifying operators OQ programs are up to date? This should include verification



2

2

2

2

2

2

1

21	Did state execute appropriate follow-up actions to Safety Related Condition (SRC) Reports? Chapter 6.3 (B6) Yes = 1 No = 0 Needs Improvement = .5	1	NA	
Evaluato	or Notes:			
No	SRCR submitted in CY 2012.			
22	Did the State ask Operators to identify any plastic pipe and components that has shown a record of defects/leaks and what those operators are doing to mitigate the safety concerns? (G13)  Yes = 1 No = 0 Needs Improvement = .5	. 1	1	
Evaluato				
Que	estion on form.			
23	Did the state participate in/respond to surveys or information requests from NAPSR or PHMSA? (H4) Yes = 1 No = 0 Needs Improvement = .5	1	1	
Evaluato	or Notes:			
24	General Comments: Info Only = No Points	Info Only	Info Only	
Evaluato	or Notes:			
	m . t . t .	1.0	1: 20	



Total points scored for this section: 39 Total possible points for this section: 43

1	Does the state have written procedures to identify steps to be taken from the discovery to resolution of a probable violation? Chapter 5.1 (B12-14, B16, B1h)	4		3
	Yes = 4 No = 0 Needs Improvement = 1-3 a. Procedures to notify an operator (company officer) when a noncompliance is	Yes ()	No. O	Needs
	<ul><li>identified</li><li>b. Procedures to routinely review progress of compliance actions to prevent delays or</li></ul>		No 🔾	Improvement  Needs
Е 1 .	breakdowns	Yes •	No 🔾	Improvement
Evaluato Nee	r Notes:  ds to develop the list of the responsible official or company office.			
2	Did the state follow compliance procedures (from discovery to resolution) and adequately document all probable violations, including what resolution or further course of action is needed to gain compliance? Chapter 5.1 (B11,B18,B19)  Yes = 4 No = 0 Needs Improvement = 1-3	4		4
	a. Were compliance actions sent to company officer or manager/board member if municipal/government system?	Yes	No 🔾	Needs Improvement
	b. Were probable violations documented?	Yes (•)	No ()	Needs Improvement
	c. Were probable violations resolved?	Yes	No 🔾	Needs Improvement
F 1 4	d. Was the progress of probable violations routinely reviewed?	Yes •	No 🔾	Needs Improvement
Evaluato	r Notes:			
3 Evaluato		2		2
Non	e discovered in CY2012.			
4	Did compliance actions give reasonable due process to all parties? Including "show cause" hearing if necessary. (B17, B20) $Yes = 2 No = 0$	2		2
Evaluato	r Notes:			
5	Is the program manager familiar with state process for imposing civil penalties? Were civil penalties considered for repeat violations (with severity consideration) or violations resulting in incidents/accidents? (describe any actions taken) (B27)	2		2
Evaluato	Yes = 2 No = 0 Needs Improvement = 1 r Notes:			
6	Can the State demonstrate it is using their enforcement fining authority for pipeline safety violations?  Yes = 1 No = 0 Needs Improvement = .5	1		1
Evaluato	r Notes:			



Info OnlyInfo Only

General Comments:

Total points scored for this section: 14 Total possible points for this section: 15



Yes = 2 No = 0 Needs Improvement = 1  a. Acknowledgement of MOU between NTSB and PHMSA (Appendix D)	Yes •	No O Needs Improvement
b. Acknowledgement of Federal/State Cooperation in case of incident/accident (Appendix E)  Evaluator Notes:		No O Needs Improvement
2 If onsite investigation was not made, did state obtain sufficient information from the operator and/or by other means to determine the facts to support the decision to not go on-site? Chapter 6 (D4)  Yes = 1 No = 0 Needs Improvement = .5	1	1
Evaluator Notes:  One incident reported in CY 2012 with an on-site investigation.		
Were all incidents investigated, thoroughly documented, and with conclusions and recommendations? (D5)  Yes = 3 No = 0 Needs Improvement = 1-2	3	3
a. Observations and document review	Yes •	No Needs Improvement
b. Contributing Factors	Yes •	No Needs Improvement
c. Recommendations to prevent recurrences when appropriate Evaluator Notes:	Yes •	No Needs Improvement
4 Did the state initiate compliance action for violations found during any incident/accident investigation? (D6)  Yes = 1 No = 0	1	NA
Evaluator Notes: No probable violations were discovered.		
Did the state assist region office by taking appropriate follow-up actions related to the operator incident reports to ensure accuracy and final report has been received by PHMSA? (validate report data from operators concerning incidents/accidents and investigate discrepancies) Chapter 6 (D7)  Yes = 1 No = 0 Needs Improvement = .5	1	1
Evaluator Notes:		
6 Does state share lessons learned from incidents/accidents? (sharing information, such as at NAPSR Region meetings, state seminars, etc) (G15)  Yes = 1 No = 0	: 1	1
Evaluator Notes:  Participation at the NAPSP ragion meeting		
Participation at the NAPSR region meeting.		



General Comments: Info Only = No Points Info OnlyInfo Only

Total points scored for this section: 8 Total possible points for this section: 8



# **PART F - Damage Prevention**

Points(MAX) Score

1	Has the state reviewed directional drilling/boring procedures of each pipeline operator or its contractor to determine if they include actions to protect their facilities from the dangers posed by drilling and other trench less technologies? NTSB (E1)  Yes = 2 No = 0 Needs Improvement = 1	2	2	
	or Notes:			
Que	estion on inspection form			
2	Did the state inspector check to assure the pipeline operator is following its written procedures pertaining to notification of excavation, marking, positive response and the availability and use of the one call system? (E2) $Yes = 2 \text{ No} = 0 \text{ Needs Improvement} = 1$	2	2	
Evaluate	or Notes:			
Que	estion on inspection form			
3	Did the state encourage and promote practices for reducing damages to all underground facilities to its regulated companies? (i.e. such as promoting/adopting the CGA Best Practices encouraging adoption of the 9 Elements, etc.) (E3)  Yes = 2 No = 0 Needs Improvement = 1	2	2	
Evaluate	or Notes:			
Act	ive One-Call system			
4	Has the agency or another organization within the state collected data and evaluated trends on the number of pipeline damages per 1,000 locate requests? (This can include DIRT and other data shared and reviewed by the pipeline safety program) (E4,G5)  Yes = 2 No = 0 Needs Improvement = 1	2	2	
Evaluate	or Notes:			
Col	lecting data from Annual Reports.			
5	General Comments: Info Only = No Points	Info OnlyIn	fo Only	
Evaluate	or Notes:			

Total points scored for this section: 8 Total possible points for this section: 8

1	Operator, Inspector, Location, Date and PHMSA Representative Info Only = No Points	Info OnlyInfo	Only
	Name of Operator Inspected: Dakota Gasification Company		
	Name of State Inspector(s) Observed: Aaron Morman		
	Location of Inspection: Burlah, ND area		
	Date of Inspection: August 27, 2013		
	Name of PHMSA Representative: Leonard Steiner		
Evaluator	Notes:		
2	Was the operator or operator's representative notified and/or given the opportunity to be present during inspection? (F2) $Yes = 1 No = 0$	1	1
Evaluator Adea	Notes: uate notification was provided.		
Aucq	uate nonneation was provided.		
3	Did the inspector use an appropriate inspection form/checklist and was the form/checklist used as a guide for the inspection? (New regulations shall be incorporated) (F3) Yes = 2 No = 0 Needs Improvement = 1	2	2
Evaluator			
4	Did the inspector thoroughly document results of the inspection? (F4) Yes = 2 No = 0 Needs Improvement = 1	2	2
Evaluator	Notes:		
5	Did the inspector check to see if the operator had necessary equipment during inspection to conduct tasks viewed? (Maps,pyrometer,soap spray,CGI,etc.) (F5) $Y_{es} = 1 N_0 = 0$	1	1
Evaluator			
Yes,	a technician accompanied the inspection and provided the needed access and equipment to	the facilities.	
6	Did the inspector adequately review the following during the field portion of the state evaluation? (check all that apply on list) (F7)  Yes = 2 No = 0 Needs Improvement = 1	2	2
	a. Procedures		
	b. Records		
	c. Field Activities	$\boxtimes$	
	d. Other (please comment)		
Evaluator	4		

Did the inspector have adequate knowledge of the pipeline safety program and

regulations? (Evaluator will document reasons if unacceptable) (F8)



2

2



C.

D.

E.

F.

Tapping

Welding

Valve Maintenance

Vault Maintenance

G.	OQ - Operator Qualification	
H.	Compliance Follow-up	
I.	Atmospheric Corrosion	$\boxtimes$
J.	Other	
valuator Notes:		

E

On August 27, 2013, I observed Aaron Morman, program Manager, with assistance of Clint Thomas, pipeline safety inspector conduct a standard inspection of facilities. The operator was Dakota Gasification Company in Beulah, North Dakota. The inspection was of the operator's gas transmission pipeline. Mr. Morman made the adequate preparations for the schedule and equipment needed. Mr. Morman arrived at the scheduled time, identified the sites he specifically wanted to inspect. With approriate representatives of the operator, Mr. Morman traveled the length of the pipeline. No probable violations were discovered, however, one area of concern in regard to atmospheric corrosion was noted. Mr. Morman was knowledge and conducted the inspection in a professional and courteous manner.

> Total points scored for this section: 12 Total possible points for this section: 12



PART	H - Interstate Agent State (If Applicable)	oints(MAX)	Score
<b>1</b> Evaluator	Did the state use the current federal inspection form(s)? (C1)  Yes = 1 No = 0 Needs Improvement = .5  r Notes:	1	NA
2	Are results documented demonstrating inspection units were reviewed in accordance very "PHMSA directed inspection plan"? (C2)  Yes = 1 No = 0 Needs Improvement = .5	vith 1	NA
Evaluato	r Notes:		
3	Did the state submit documentation of the inspections within 60 days as stated in its la Interstate Agent Agreement form? (C3)  Yes = 1 No = 0 Needs Improvement = .5	test 1	NA
Evaluato	r Notes:		
4	Were probable violations identified by state referred to PHMSA for compliance? (NO PHMSA representative has discretion to delete question or adjust points, as appropriat based on number of probable violations; any change requires written explanation.) (C4 Yes = 1 No = 0 Needs Improvement = .5	e,	NA
Evaluato			
5	Did the state immediately report to PHMSA conditions which may pose an imminent safety hazard to the public or to the environment? (C5)  Yes = 1 No = 0 Needs Improvement = .5	1	NA
Evaluato			
6	Did the state give written notice to PHMSA within 60 days of all probable violations found? (C6)  Yes = 1 No = 0 Needs Improvement = .5	1	NA
Evaluato			
7	Did the state initially submit documentation to support compliance action by PHMSA probable violations? (C7)	on 1	NA
Evaluato	Yes = 1 No = 0 Needs Improvement = .5 r Notes:		
8	General Comments: Info Only = No Points	Info Onlyli	nfo Only



Total points scored for this section: 0 Total possible points for this section: 0

**Evaluator Notes:** 

PAR	ART I - 60106 Agreement State (If Applicable)  Point		Score
<b>1</b> Evaluato	Did the state use the current federal inspection form(s)? (B21)  Yes = 1 No = 0 Needs Improvement = .5  or Notes:	1	NA
<b>2</b> Evaluato	Are results documented demonstrating inspection units were reviewed in accordance v state inspection plan? (B22)  Yes = 1 No = 0 Needs Improvement = .5  or Notes:	with 1	NA
<b>3</b> Evaluato	Were any probable violations identified by state referred to PHMSA for compliance? (NOTE: PHMSA representative has discretion to delete question or adjust points, as appropriate, based on number of probable violations; any change requires written explanation.) (B23)  Yes = 1 No = 0 Needs Improvement = .5  or Notes:	1	NA
<b>4</b> Evaluato	Did the state immediately report to PHMSA conditions which may pose an imminent safety hazard to the public or to the environment? (B24)  Yes = 1 No = 0 Needs Improvement = .5  or Notes:	1	NA
<b>5</b> Evaluato	Did the state give written notice to PHMSA within 60 days of all probable violations found? (B25)  Yes = 1 No = 0 Needs Improvement = .5  or Notes:	1	NA
<b>6</b> Evaluato	Did the state initially submit adequate documentation to support compliance action by PHMSA on probable violations? (B26)  Yes = 1 No = 0 Needs Improvement = .5 or Notes:	1	NA
7	General Comments:	Info Onlyli	nfo Only



Total points scored for this section: 0 Total possible points for this section: 0

**Evaluator Notes:** 

Info Only = No Points