

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

2020 Gas State Program Evaluation

for

ARIZONA CORPORATION COMMISSION, Office of Pipeline Safety

Document Legend PART:

- O -- Representative, Dates and Title Information
- A -- Progress Report and Program Documentation Review
- B -- Program Inspection Procedures
- C -- State Qualifications
- D -- Program Performance
- E -- Field Inspections
- F -- Damage prevention and Annual report analysis
- G -- Interstate Agent/Agreement States



2020 Gas State Program Evaluation -- CY 2020

Gas

State Agency: Arizona Agency Status:		Rating: 60105(a): Yes	60106(a): No	Interstate Agent: Yes
Date of Visit: 04/13/2021	- 05/31/2021			
Agency Representative:	Eric Villa			
	Program Manager Pipeline Safety	Section Arizor	na Corporation C	Commission
PHMSA Representative:	David Appelbaum PHMSA State	Evaluator		
Commission Chairman t	o whom follow up letter is to be so	ent:		
Name/Title:	Lea Marquez Peterson, Chairwon	nan		
Agency:	Arizona Corporation Commission	1		
Address:	1200 West Washington Street - Se	econd Floor		
City/State/Zip:	Phoenix, Arizona 85007			

INSTRUCTIONS:

Complete this evaluation in accordance with the Evaluator Guidance for conducting state pipeline safety program evaluations. The evaluation should generally reflect state program performance during CY 2020 (not the status of performance at the time of the evaluation). 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 than the maximum points, include a brief explanation in the appropriate notes/comments section. If a question is not applicable to a state, select NA. Please ensure all responses are COMPLETE and ACCURATE, and they OBJECTIVELY reflect the state's program performance for the question being evaluated. Increasing emphasis is being placed on how the state pipeline safety programs conduct and execute their pipeline safety responsibilities (their 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.

Scoring Summary

PARTS	8	Possible Points	Points Scored
А	Progress Report and Program Documentation Review	0	0
В	Program Inspection Procedures	15	15
С	State Qualifications	10	10
D	Program Performance	50	50
Е	Field Inspections	15	15
F	Damage prevention and Annual report analysis	10	10
G	Interstate Agent/Agreement States	0	0
TOTA	LS	100	100
State Rating		100.0	

PART A - Progress Report and Program Documentation Review

1 Were the following Progress Report Items accurate? (*items not scored on progress Info Only Info Only report)

Info Only = No Points

- a. Stats On Operators Data Progress Report Attachment 1
- b. State Inspection Activity Data Progress Report Attachment 2
- c. List of Operators Data Progress Report Attachment 3*
- d. Incidents/Accidents Data Progress Report Attachment 4*
- e. Stats of Compliance Actions Data Progress Report Attachment 5*
- f. List of Records Kept Data Progress Report Attachment 6 *
- g. Staff and TQ Training Data Progress Report Attachment 7
- h. Compliance with Federal Regulations Data Progress Report Attachment 8
- i. Performance and Damage Prevention Question Data Progress Report
- Attachment 10*

Evaluator Notes:

Differences between the PR and PDM were sufficiently explained in the notes to Attachment 1. All other aspects of the PR appeared to be in order.

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

Resp	 Do written procedures address pre-inspection, inspection and post inspection activities for each of the following inspection types: Chapter 5.1 Yes = 5 No = 0 Needs Improvement = 1-4 a. Standard Inspections, which include Drug/Alcohol, CRM and Public Awareness Effectiveness Inspections b. TIMP and DIMP Inspections (reviewing largest operator(s) plans annually) c. OQ Inspections d. Damage Prevention Inspections e. On-Site Operator Training f. Construction Inspections (annual efforts) g. LNG Inspections r Notes: written inspection procedures are in the AZOPS Policy and Procedures Manual dated January ponsibilities and Planning Requirements; Annual Inspection Work plans; Pipeline Inspections 		
2 Evaluator Yes.	 Do written procedures address inspection priorities of each operator, and if necessary each unit, based on the following elements and time frames established in its procedures? Chapter 5.1 Yes = 4 No = 0 Needs Improvement = 1-3 a. Length of time since last inspection b. Operating history of operator/unit and/or location (includes leakage, incident and compliance activities) c. Type of activity being undertaken by operators (i.e. construction) d. Locations of operator's inspection units being inspected - (HCA's, Geographic area, Population Centers, etc.) e. Process to identify high-risk inspection units that includes all threats - (Excavation Damage, Corrosion, Natural Forces, Outside Forces, Material and Welds, Equipment, Operators and any Other Factors) f. Are inspection units broken down appropriately? r Notes: Updated procedures (January 2021) contain all the requisite elements to satisfy this question. 	4	4
3 Evaluator Yes.	 (Compliance Procedures) Does the state have written procedures to identify steps to be taken from the discovery to resolution of a probable violation? Chapter 5.1 Yes = 3 No = 0 Needs Improvement = 1-2 a. Procedures to notify an operator (company officer) when a noncompliance is identified b. Procedures to routinely review progress of compliance actions to prevent delays or breakdowns c. Procedures regarding closing outstanding probable violations r Notes: Updated procedures (January 2021) contain all the requisite elements to satisfy this question. 	3	3
4	 (Incident/Accident Investigations) Does the state have written procedures to address state actions in the event of an incident/accident? Yes = 3 No = 0 Needs Improvement = 1-2 a. Mechanism to receive, record, and respond to operator reports of incidents, including after-hours reports b. If onsite investigation was not made, do procedures require on-call staff to obtain sufficient information to determine the facts to support the decision not to go on-site. 	3	3

Evaluator Notes:

Yes. Updated procedures (January 2021) contain all the requisite elements to satisfy this question.

5 General Comments:

Info Only = No Points

Info Only Info Only

Evaluator Notes:

Program made significant improvements with their procedures manual since last year.

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

1	Appendi	n inspector and program manager fulfilled training requirements? (See Guidelines ix C for requirements) Chapter 4.4 No = 0 Needs Improvement = $1-4$	5	5
	a. b.	Completion of Required OQ Training before conducting inspection as lead Completion of Required DIMP/IMP Training before conducting inspection as		
	lead c.	Completion of Required LNG Training before conducting inspection as lead		
	с. d.	Root Cause Training by at least one inspector/program manager		
		Note any outside training completed		
	e. f.	Verify inspector has obtained minimum qualifications to lead any applicable		
		lard inspection as the lead inspector (Reference State Guidelines Section 4.3.1)		
Evaluato		and inspection as the read inspector (Reference State Studenines Section 4.5.1)		
A11 1	lead inspect	tors in 2020 have met the TQ requirements.		
2	adequate Yes = 5 N	e records and discussions with state pipeline safety program manager indicate e knowledge of PHMSA program and regulations? Chapter 4.1,8.1 to = 0 Needs Improvement = $1-4$	5	5
clear	Program N	Ianager, Eric Villa, has been with the ACC for 21 years, but only in the PM role sint with the Pipeline Safety regulations, and has a general understanding how to experime Program.		
3		Comments:] = No Points	nfo Only	Info Only
Evaluato	-			
No l	oss of poin	ts on Section C		

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

1	intervals	e inspect all types of operators and inspection units in accordance with time s established in written procedures? Chapter 5.1	5	5
		$N_0 = 0 \text{ Needs Improvement} = 1-4$		
	a.	Standard (General Code Compliance)		
	b.	Public Awareness Effectiveness Reviews		
	c.	Drug and Alcohol		
	d.	Control Room Management		
	e.	Part 193 LNG Inspections		
	f.	Construction (did state achieve 20% of total inspection person-days?)		
	g.	OQ (see Question 3 for additional requirements)		
	h.	IMP/DIMP (see Question 4 for additional requirements)		
Evaluato				
		ovided by program manager and a review of information confirmed all inspection ty vritten procedures.	pes were per	formed in
2	Did insr	pection form(s) cover all applicable code requirements addressed on Federal	10	10
-	1	on form(s)? Did State complete all applicable portions of inspection forms?	10	10
		5.1. Do inspection records indicate that adequate reviews of procedures, records		
		activities, including notes and the appropriate level of inspection person-days		
	for each	inspection, were performed?		
	Yes = 10	No = 0 Needs Improvement = $1-9$		
	a.	Standard (General Code Compliance)		
	b.	Public Awareness Effectiveness Reviews		
	c.	Drug and Alcohol		
	d.	Control Room Management		
	e.	Part 193 LNG Inspections		
	f.	Construction		
	g.	OQ (see Question 3 for additional requirements)		
	h.	IMP/DIMP (see Question 4 for additional requirements)		
Evaluato				
		the federal inspection forms for its inspections. Upon a review of randomly selected	1 2020 inspec	tion files all
appl	icable port	ions of the forms were completed appropriately.		
3		verifying monitoring (Protocol 9/Form15) of operators OQ programs? This	2	2
		nclude verification of any plan updates and that persons performing covered tasks		
	· ·	ng contractors) are properly qualified and requalified at intervals established in ator's plan. 49 CFR 192 Part N		
		$I_0 = 0$ Needs Improvement = 1		
Evaluato		I THE I		
Yes,	, this is veri	ified during all annual inspections, incident/accident inspection and verified while in	n the field.	
4	Is state v	verifying operator's integrity management Programs (IMP and DIMP)? This	2	2
		nclude a review of plans, along with monitoring progress. In addition, the review		
	should ta Subpart	ake in to account program review and updates of operator's plan(s). 49 CFR 192		
		$H_0 = 0$ Needs Improvement = 1		
	a.	Are the state's largest operator(s) plans being reviewed annually to ensure they		
		ompleting the full cycle of the DIMP/IMP process?		
	b.	Are states verifying with operators any plastic pipe and components that have vn a record of defects/leaks and mitigating those through DIMP plan?		
	c.	Are the states verifying operators are including low pressure distribution		
		ems in their threat analysis?		
- •	5,500			

Evaluator Notes:

5	Did the state review the following (these items are NTSB recommendations to PHMSA that have been deemed acceptable response based on PHMSA reviewing these items during the evaluation process): Chapter 5.1 Yes = $2 \text{ No} = 0 \text{ Needs Improvement} = 1$ a. Operator procedures for determining if exposed cast iron pipe was examined	2	2
	 for evidence of graphitization and if necessary remedial action was taken; b. 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); c. 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; 		
	 d. 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; e. 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;f. Operator procedures for considering low pressure distribution systems in threat analysis?g. Operator compliance with state and federal regulations for regulators located		
Evoluator	inside buildings?		
Evaluator Vec	this is verified during all annual inspections.		
105,	uns is vermed during an annual inspections.		
6	Did the State verify Operators took appropriate action regarding advisory bulletins issued since the last evaluation? (Advisory Bulletins Current Year) Yes = $1 \text{ No} = 0 \text{ Needs Improvement} = .5$	1	1
Evaluato			
Yes,	this is verified during all annual inspections.		
7	(Compliance Activities) 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 Yes = $10 \text{ No} = 0 \text{ Needs Improvement} = 1-9$	10	10
	a. Were compliance actions sent to company officer or manager/board member if municipal/government system?		
	b. Were probable violations documented properly?		
	c. Resolve probable violations		
	d. Routinely review progress of probable violations		
	e. Did state issue compliance actions for all probable violations discovered?		
	f. Can state demonstrate fining authority for pipeline safety violations?		
	g. Does Program Manager review, approve and monitor all compliance actions? (note: Program Manager or Senior Official should sign any NOPV or related		
	enforcement action) h. Did state compliance actions give reasonable due process to all parties?		
	Including "show cause" hearing, if necessary.		
	i. Within 30 days, conduct a post-inspection briefing with the owner or operator		
	outlining any concerns j. Within 90 days, to the extent practicable, provide the owner or operator with		
	written preliminary findings of the inspection. (Incident investigations do not need to meet 30/90-day requirement)		

Evaluator Notes:

All requisite elements of this question appear to have been satisfied. PHMSA again recommends the ACC assess the deployment of its fining authority to enhance pipeline safety.

8	 (Incident Investigations) Were all federally reportable incidents investigated, thoroughly documented, with conclusions and recommendations? Yes = 10 No = 0 Needs Improvement = 1-9 a. Does state have adequate mechanism to receive and respond to operator reports of incidents, including after-hours reports? b. Did state keep adequate records of Incident/Accident notifications received? c. If onsite investigation was not made, did the state obtain sufficient information from the operator and/or by means to determine the facts to support the decision not to go on site? d. Were onsite observations documented? e. Were contributing factors documented? f. Were recommendations to prevent recurrences, where appropriate, documented? g. Did state initiate compliance action for any violations found during any incident/accident investigation? h. Did state assist Region Office or Accident Investigation Division (AID) by taking appropriate follow-up actions related to the operator incident reports to ensure accuracy and final report has been received by PHMSA? 	10	10
	i. Does state share any lessons learned from incidents/accidents?		
Evaluator Ther	Notes: e were no Incidents reported in CY 2020.		
9	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 Yes = $1 \text{ No} = 0 \text{ Needs Improvement} = .5$	1	1
		uary 11, 2021,	within the
10	Did State conduct or participate in pipeline safety training session or seminar in Past 3 In Years? Chapter 8.5 Info Only = No Points	nfo Only Info C	Only
Evaluator			
Last	seminar was held in June 11 and 12, 2018		
11	Has state confirmed transmission operators have submitted information into NPMS Info Only = No Points	nfo Only Info (Only
Evaluator			
No a	pparent issues regarding this question. AR's and NPMS seem to align.		
12	Does the state have a mechanism for communicating with stakeholders - other than state pipeline safety seminar? (This should include making enforcement cases available to public). Yes = $1 \text{ No} = 0 \text{ Needs Improvement} = .5$	1	1
Arizo Emen DUN Arizo as a s to dis	*	on committee, A liance. Arizona Southwest Gas	rizona participates Corporation

13	Did state execute appropriate follow-up actions to Safety Related Condition (SRC) Reports? Chapter 6.3	1	1
Evaluato	Yes = 1 No = 0 Needs Improvement = .5		
	pparent deficiencies with this question.		
INO a	pparent dericiencies with this question.		
14	Was the State responsive to:	1	1
	Yes = $1 \text{ No} = 0 \text{ Needs Improvement} = .5$		
	a. Surveys or information requests from NAPSR or PHMSA; and		
	b. PHMSA Work Management system tasks?		
Evaluato			
No a	pparent deficiencies on these questions		
15	If the State has issued any waivers/special permits for any operator, has the state verified conditions of those waivers/special permits are being met? This should include having the		1
	operator amend procedures where appropriate. Yes = $1 \text{ No} = 0 \text{ Needs Improvement} = .5$		
Evaluator			
	ACC appears to be compliant with this question.	· ,	
	appears to have enhanced (at PHMSA's recommendation) written procedures to ensure an	appropriate	review of
walv	ers are conducted annually.		
16	Were pipeline program files well-organized and accessible?	Info Only	Info Only
	Info Only = No Points		
Evaluato			
Elect	ronic files appear to be sufficiently organized. Inspection was performed virtually.		
17	Discussion with State on accuracy of inspection day information submitted into State Inspection Day Calculation Tool (SICT). Has the state updated SICT data? Yes = $3 \text{ No} = 0$ Needs Improvement = $1-2$	3	3
Evaluator			
Торі	c was discussed with Program Manager and State appears to be providing appropriate input	and using	he Tool properly
18	Discussion on State Program Performance Metrics found on Stakeholder Communication site.\ http://primis.phmsa.dot.gov/comm/states.htm?nocache=4805 Info Only = No Points	n Info Only	Info Only
Evaluato		1.1.1 D	
	f the metrics are trending in the direction of improvement. It was clear from the discussion staff that the drivers of the trends are understood.	with the Pr	ogram Manager
19	Did the state encourage and promote operator implementation of Pipeline Safety Management Systems (PSMS), or API RP 1173? This holistic approach to improving pipeline safety includes the identification, prevention and remediation of safety hazards.	Info Only	Info Only
	Info Only = No Points a. https://pipelinesms.org/		
	b. Reference AGA recommendation to members May 20, 2019		
Evaluator	•		
	has added a question to their inspection forms that satisfy this question.		
•		ICO 1	
20	General Comments:	Info Only	into Only

Info Only = No Points Evaluator Notes:

Total points scored for this section: 50 Total possible points for this section: 50

DUNS: 141953807 2020 Gas State Program Evaluation

1	Operator, Inspector, Location, Date and PHMSA Representative (enter specifics into the comments box below)	Info Only I	nfo Only
	Info Only = No Points		
	a. What type of inspection(s) did the state inspector conduct during the field		
	portion of the state evaluation? (i.e. Standard, Construction, IMP, etc)		
	b. When was the unit inspected last?		
	c. Was pipeline operator or representative present during inspection?		
	d. Effort should be made to observe newest state inspector with least experience		
Evaluato		· (0.01	D 21040
	4/13/2021 Mike Bell conducted myriad construction inspections on the Unisource Energy Set 4/14/2021 John Caughlin conducted a master meter inspection of Embry Riddle University.	rvices (OPI	D 31840) system.
2	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) Yes = $2 \text{ No} = 0$ Needs Improvement = 1	2	2
Evaluato			
In b	oth cases appropriate forms were used		
3	Did the inspector adequately review the following during the inspection	10	10
	Yes = $10 \text{ No} = 0 \text{ Needs Improvement} = 1-9$		
	a. Procedures (were the inspector's questions of the operator adequate to		
	determine compliance?)		
	b. Records (did the inspector adequately review trends and ask in-depth questions?)		
	c. Field Activities/Facilities (did inspector ensure that procedures were being		
	followed, including ensuring that properly calibrated equipment was used and OQ's were acceptable?)		
	d. Other (please comment)		
	e. Was the inspection of adequate length to properly perform the inspection?		
Evaluato			
	bectors reviewed procedures and records for the pipeline system. They concluded with a field	inspection	of the facilities.
4	From your observation did the inspector have adequate knowledge of the pipeline safety program and regulations? (Evaluator will document reasons if unacceptable) Yes = $2 \text{ No} = 0$ Needs Improvement = 1	2	2
Evaluato	or Notes:		
	h inspectors demonstrated proficiency with their audits. they maintained good control and con rators being inspected.	nmand pres	sence with the
5	Did the inspector conduct an exit interview, including identifying probable violations? (If inspection is not totally completed the interview should be based on areas covered during time of field evaluation) Yes = $1 \text{ No} = 0 \text{ Needs Improvement} = .5$	1	1
Evaluato	*		
Obs	ervation (virtual) was limited, but from what could be seen, inspectors did a good job describ ommendations.	ing observa	ations and
6	Was inspection performed in a safe, positive, and constructive manner?	Info Only I	nfo Only
	Info Only = No Points		
	a. No unsafe acts should be performed during inspection by the state inspectorb. What did the inspector observe in the field? (Narrative description of field		
	observations and how inspector performed) c. Best Practices to Share with Other States - (Field - could be from operator		
	c. Best Practices to Share with Other States - (Field - could be from operator		

Other

Evaluator Notes: Inspections were done virtually, but appeared to be done safely.

7 General Comments: Info Only = No Points

d.

Evaluator Notes:

Info Only Info Only

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

1	Has the state reviewed Operator Annual reports, along with Incident/Accident reports, for accuracy and analyzed data for trends and operator issues. Yes = $2 \text{ No} = 0$ Needs Improvement = 1	2	2		
Evaluato					
	The ACC uses mandatory quarterly reports for leaks and accidents/damages from operators to track this information. It gives				
-	od real time account of the information. They also review the annual reports to track new insta- tices.	allation of	pipe and		
	1005.				
2	Has the state verified that the operators analyze excavation damages for the purpose of determining root causes and minimizing the possibility of a recurrence? (192.617) Has the state verified that the operators have appropriately identified excavators who have repeatedly violated one-call laws and damaged their facilities. Have the operators taken steps to mitigate that risks? (192.1007) $Yes = 2 No = 0$ Needs Improvement = 1	2	2		
Evaluato					
The	ACC has a robust DP program which meet the requisite elements of this question.				
3	Has the state reviewed the operator's annual report pertaining to Part D - Excavation Damage?	4	4		
Evaluato	 Yes = 4 No = 0 Needs Improvement = 1-3 a. Is the information complete and accurate with root cause numbers? b. Has the state evaluated the causes for the damages listed under "One-Call Notification Practices Not Sufficient" (Part D.1.a.)? c. Has the state evaluated the causes for the damages listed under "Locating Practices Not Sufficient" (Part D.1.b)? For each operator, does the state review the following? d. Is the operator or its locating contractor(s) qualified and following written procedures for locating and marking facilities? e. Is the operator appropriately requalifying locators to address performance deficiencies? f. What is the number of damages resulting from mismarks? g. What is the number of damages resulting from not locating within time requirements (no-shows)? h. Is the operator appropriately addressing discovered mapping errors resulting in excavation damages? i. Are mapping corrections timely and according to written procedures? j. Has the state evaluated the causes for the damages listed under "Excavation Practices Not Sufficient" (Part D.1.c.)? 				
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? Yes = 2 No = 0 Needs Improvement = 1 a. What stakeholder group is causing the highest number of damages to the pipelines? Operator, contractor, locating company or public. b. Has the state verified the operator is appropriately focusing damage prevention education and training to stakeholders causing the most damages? c. Has the state evaluated which of the following best describes the reason for the excavation damages; i.e., operator or contractor not following written procedures, failure to maintain marks, failure to support exposed facilities, failure to use hand tools were required, failure to test-hole (pot hole), improper backfilling practices, failure to maintain clearance or insufficient excavation practices. d. Has the state verified the operator is appropriately focusing damage prevention education and training to address the causes of excavation damages? 	2	2		

The ACC collects quarterly damage reports on damages from all operators (except master meters) and the information provided includes the number of tickets, number of damages and the cause of damages. This information is compiled by an assigned inspector and reviewed by the Program Manager.

5 General Comments: Info Only = No Points

Evaluator Notes:

Info Only Info Only

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

1 Were all inspections of interstate pipelines conducted using the Inspection Assistant Info Only Info Only program for documenting inspections? Info Only = No Points Evaluator Notes: Inspections are performed with in concert with PHMSA If inspections were conducted independent of a PHMSA team inspection was notice of allInfo Only Info Only 2 identified probable violations provided to PHMSA within 60 days? Info Only = No Points Evaluator Notes: No inspections were conducted independent of PHMSA. 3 If inspections were conducted independent of a PHMSA team inspection was PHMSA Info Only Info Only immediately notified of conditions which may pose an immediate safety hazard to the public or environment? Info Only = No Points Evaluator Notes: No inspections were conducted independent of PHMSA. 4 If inspections were conducted independent of a PHMSA team inspection did the state Info Only Info Only coordinate with PHMSA if inspections not were not included in the PHMSA Inspection Work Plan? Info Only = No Points **Evaluator Notes:** No inspections were conducted independent of PHMSA. 5 Did the state take direction from and cooperate with PHMSA for all incident Info Only Info Only investigations conducted on interstate pipelines? Info Only = No Points Evaluator Notes: There were no apparent deficiencies with this question. Info Only Info Only 6 General Comments: Info Only = No Points **Evaluator Notes:**

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