

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

2015 Gas State Program Evaluation

for

COLORADO PUBLIC UTILITIES 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
- F -- Damage Prevention
- G -- Field Inspections
- H -- Interstate Agent State (If Applicable)
- I -- 60106 Agreement State (If Applicable)



2015 Gas State Program Evaluation -- CY 2015 Gas

State Agency: Colorado Rating:

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

Date of Visit: 06/20/2016 - 07/01/2016 **Agency Representative:** Joe Molloy **PHMSA Representative:** Leonard Steiner

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

Name/Title: Joshua Epel, Chairman

Agency: Colorado Public Utilities Commisison

Address: 1560 Broadway, Suite 250 City/State/Zip: Denver, Colorado 80202

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 2015 (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

B I	Progress Report and Program Documentation Review		Points Scored
B I	rogress report and rogram Documentation review	10	9
	Program Inspection Procedures	13	13
C I	Program Performance	48	47.5
D (Compliance Activities	15	15
E I	ncident Investigations	11	11
F I	Damage Prevention	8	8
G I	Field Inspections	12	12
H I	nterstate Agent State (If Applicable)	0	0
Ι 6	60106 Agreement State (If Applicable)	0	0
TOTALS	;	117	115.5
State Ra	ting		98.7

	Review	Points(MAX)	Score	
1	Accuracy of Jurisdictional Authority and Operator/Inspection Units Data - Progress Report Attachment 1 Yes = 1 No = 0 Needs Improvement = .5	s 1	1	
Evaluato	or Notes:			
Acc	eurate on Progress Report			
2	Review of Inspection Days for accuracy - Progress Report Attachment 2 Yes = 1 No = 0 Needs Improvement = .5	1	1	
	or Notes:			
Acc	eurate on Progress Report			
3	Accuracy verification of Operators and Operators Inspection Units in State - Progre Report Attachment 3 Yes = 1 No = 0 Needs Improvement = .5	ess 1	1	
	or Notes:			
List	all operators in the jurisdiction of the State of Colorado.			
4	Were all federally reportable incident reports listed and information correct? - Progr Report Attachment 4 Yes = 1 No = 0 Needs Improvement = .5	ress 1	1	
Evaluato	or Notes:			
Yes	Three incidents in Colorado in CY 2015.			
5	Accuracy verification of Compliance Activities - Progress Report Attachment 5 Yes = 1 No = 0 Needs Improvement = .5	1	1	
Evaluate	or Notes:			
Acc	eurate on Progress Report			
6	Were pipeline program files well-organized and accessible? - Progress Report Attachment 6 $Yes = 2 No = 0 Needs Improvement = 1$	2	1	
Col kep veri acci	or Notes: orado uses electronic filing of files. Inspections are recorded in the IA inspection system to in a separate database. There is no connectivity between these systems. A frequent refy the accuracy and consistency of the information in each database. Pipeline safety regarate and relevant data. This function should be done by an employee who maintains a uracy and accessible.	eview should be egulations are de	conducted t veloped bas	o ed on
7	Was employee listing and completed training accurate and complete? - Progress ReAttachment 7 Yes = 1 No = 0 Needs Improvement = .5	port 1	1	
Evaluato	or Notes:			
Acc	eurate on Progress Report, except Steve Potts needs to deleted from list of courses atter	nded by each insp	ector.	
8	Verification of Part 192,193,198,199 Rules and Amendments - Progress Report Attachment 8 Yes = 1 No = 0 Needs Improvement = .5	1	1	
	or Notes: curate on Progress Report.			

PART A - Progress Report and Program Documentation

9	List of Planned Performance - Did state describe accomplishments on Progress Report in	1
	detail - Progress Report Attachment 10	
	Yes = $1 \text{ No} = 0 \text{ Needs Improvement} = .5$	

Evaluator Notes:

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

Evaluator Notes:

Total points scored for this section: 9 Total possible points for this section: 10



5	Any operator training conducted should be outlined and appropriately documented as	1	1
	needed.		
	Yes = $1 \text{ No} = 0 \text{ Needs Improvement} = .5$		
Evaluator	Notes:		

6 Construction Inspection procedures should give guidance to state inspectors that insure consistency in all inspections conducted by the state? The following elements should be addressed at a minimum - pre-inspection activities, inspection activities, post-inspection activities

Yes = 1 No = 0 Needs Improvement = .5

Evaluator Notes:

7 Does inspection plan address inspection priorities of each operator, and if necessary each 6 6 unit, based on the following elements?

Yes = 6 No = 0 Needs Improvement = 1-5

- Length of time since last inspection (Within five year interval) a.
- Operating history of operator/unit and/or location (includes leakage, incident and compliance activities)

Needs Improvement Needs

1

Improvement

	c.	Type of activity being undertaken by operators (i.e. construction)	Yes 💿	No 🔾	Improvement
	d. areas	Locations of operators inspection units being inspected - (HCA's, Geographic Population Density, etc)	Yes •	No 🔾	Needs Improvement
	e. Dama	Process to identify high-risk inspection units that includes all threats - (Excavation age, Corrosion, Natural Forces, Outside Forces, Material and Welds, Equipment, ators and any Other Factors)	Yes •	No 🔾	Needs Improvement
	f.	Are inspection units broken down appropriately?	Yes •	No 🔾	Needs Improvement
Evaluato	r Note	S:			1
8		eral Comments: Only = No Points	Info Onl	yInfo Or	nly
Evaluato	r Note	S:			



Total points scored for this section: 13 Total possible points for this section: 13

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 $Yes = 5 No = 0$	5		5
	A. Total Inspection Person Days (Attachment 2): 519.00			
	B. Total Inspection Person Days Charged to the Program (220 X Inspection Person Years) (Attachment 7): 220 X 3.67 = 806.67			
	Ratio: A / B 519.00 / 806.67 = 0.64			
	If Ratio >= 0.38 Then Points = 5, If Ratio < 0.38 Then Points = 0 Points = 5			
Evaluator Ratio	r Notes: o is .64			
2	Has each inspector and program manager fulfilled the T Q Training Requirements? (See Guidelines Appendix C for requirements) Chapter 4.4 $Yes = 5 No = 0 Needs Improvement = 1-4$	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
Evaluatoı	e. Verify inspector has obtained minimum qualifications to lead any applicable standard inspection as the lead inspector. r Notes:	Yes •	No 🔾	Needs Improvement
Outs	ide training received includes 2 at fusion course, 2 at welding inspection course, and 2 atter	nded a N	ACE con	nference.
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 Yes = 2 No = 0 Needs Improvement = 1	2		2
Evaluator Yes,				
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 Yes = 2 No = 0 Needs Improvement = 1	2		2
Evaluator				
Yes,	The Commission has addressed all concerns from the letter.			
5	Did State hold PHMSA TQ Seminar in Past 3 Years? Chapter 8.5 Yes = 2 No = 0	2		2
Evaluator				
Yes,	last seminar in CY2014			
6	Did state inspect all types of operators and inspection units in accordance with time intervals established in written procedures? Chapter 5.1 Yes = 5 No = 0 Needs Improvement = 1-4	5		5

Yes, Colorado has developed a schedule and have adhered to the requirement of time intervals for inspections.

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Evaluator 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?	2	2
	Chapter 5.1 Yes = 2 No = 0 Needs Improvement = 1		
Evaluato			
Con	verting to use the IA system to record the results of inspections.		
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 $Yes = 1 No = 0$	1	NA
Evaluato	or Notes:		
No l	know cast iron in Colorado.		
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 $Yes = 1 No = 0$	1	NA
Evaluato			
No l	known cast iron in Colorado.		
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	1	1
	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 Yes = 1 No = 0		
Evaluato			
The	y have a question of the inspection checklist.		
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 $Yes = 1 No = 0$	1	1
Evaluato			
The	y have a question of the inspection checklist.		
12	Has the state reviewed Operator Annual reports, along with Incident/Accident reports, for accuracy and analyzed data for trends and operator issues? Yes = 2 No = 0 Needs Improvement = 1	2	2
Evaluato			
	, Colorado reviews Annual Reports and Incident Reports. They need to expand the document sprehensive checklist.	ation to	document a more
13	Did state input all applicable OQ, DIMP/IMP inspection results into federal database in a timely manner? This includes replies to Operator notifications into IMDB database. Chapter 5.1 Yes = 2 No = 0 Needs Improvement = 1	2	2
Evaluato			
Yes	,		

stakeholders to access information about the performance of the pipeline safety division. No information is provided for the

number of inspections, the number of compliance actions, or who operates jurisdictional pipelines in Colorado.

Has state confirmed intrastate transmission operators have submitted information into

yes, They also compare the list of PDM comparing the Annual Report miles to the miles in the National Pipeline Mapping

NPMS database along with changes made after original submission?

Yes = 1 No = 0 Needs Improvement = .5

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2015 Gas State Program Evaluation

14

System.

Did state execute appropriate follow-up actions to Safety Related Condition (SRC)

There are no open Safety Related Condition Reports for intrastate pipelines in Colorado.



21

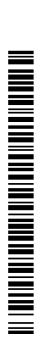
Evaluator Notes:

Reports? Chapter 6.3

Yes = 1 No = 0 Needs Improvement = .5

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 Yes = 4 No = 0 Needs Improvement = 1-3	4		4
	a. Procedures to notify an operator (company officer) when a noncompliance is identified	Yes •	No 🔾	Needs Improvement
	b. Procedures to routinely review progress of compliance actions to prevent delays or breakdowns	Yes •	No 🔾	Needs Improvement
	or Notes: pipeline safety has procedures to notify operators of probable violations. Violations requirions, the procedures of the commission are used.	ng penal	ties and	other
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 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. Document probable violations	Yes 💿	No 🔾	Needs Improvement
	c. Resolve probable violations	Yes •	No 🔾	Needs Improvement
	d. Routinely review progress of probable violations	Yes •	No 🔾	Needs Improvement
	e. Were applicable civil penalties outlined in correspondence with operator(s)	Yes •	No 🔾	Needs Improvement
Evaluato Yes	or Notes: , Colorado documents the resolution of probable violations until closure.			Improvement
3 Evaluato Yes	Did the state issue compliance actions for all probable violations discovered? Yes = 2 No = 0 Needs Improvement = 1 or Notes:	2		2
4	Did compliance actions give reasonable due process to all parties? Including "show cause" hearing if necessary. Yes = 2 No = 0	2		2
Evaluato				
Yes	, no "show cause" hearings were required.			
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) Yes = 2 No = 0 Needs Improvement = 1	2		2
Evaluato	•			
Yes	, Colorado has issued civil penalties in most years.			
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				
Yes	, civil penalties are used as an compliance enforcement tool.			

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



Yes = 2 No = 0 Needs Improvement = 1

If possible, all incidents will have an on-site investigation.

1

Evaluator Notes:

accident?

2

2	Does state have adequate mechanism to receive and respond to operator reports of incidents, including after-hours reports? And did state keep adequate records of Incident/Accident notifications received? Chapter 6	2		2
	Yes = 2 No = 0 Needs Improvement = 1 a. Acknowledgement of MOU between NTSB and PHMSA (Appendix D)	Yes •	No ()	Needs
	b. Acknowledgement of Federal/State Cooperation in case of incident/accident	_	Ü	Improvement Needs
F 1 4	(Appendix E)	Yes •	No 🔾	Improvement
Evaluato Colo	rado has one inspector assigned to receive all calls of incidents.			
3	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 Yes = 1 No = 0 Needs Improvement = .5	1		1
Evaluato yes,	r Notes: Usually uses other reports such as fire and police and the operators submission to PHMSA.			
4	Were all incidents investigated, thoroughly documented, and with conclusions and recommendations? 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	Yes •	No 🔾	Needs _
Evaluato	• • • • • • • • • • • • • • • • • • • •	O		Improvement
	all incidents are thoroughly investigated.			
5	Did the state initiate compliance action for violations found during any incident/accident investigation? Yes = $1 \text{ No} = 0$	1		1
Evaluato Yes,	r Notes: Colorado has a good communication relationship with the Western Region.			
6	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 Yes = 1 No = 0 Needs Improvement = .5	1		1
Evaluato	*			
7	Does state share lessons learned from incidents/accidents? (sharing information, such as: at NAPSR Region meetings, state seminars, etc)	1		1

Does the state have written procedures to address state actions in the event of an incident/

Evaluator Notes:

Yes = 1 No = 0



8 General Comments: Info Only = No Points Evaluator Notes: Info OnlyInfo Only

Total points scored for this section: 11 Total possible points for this section: 11

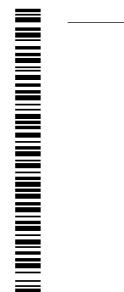
1 Evaluato	Has the state reviewed directional drilling/boring procedures of each pipeline operator or its contractor to determine if they include actions to protect their facilities from the dangers posed by drilling and other trench less technologies? NTSB Yes = 2 No = 0 Needs Improvement = 1 or Notes: orado uses the IA program to document the results of inspections.	2	2
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? Yes = 2 No = 0 Needs Improvement = 1	2	2
	or Notes: or Not	ocate req	uest for
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.) $Yes = 2 No = 0 Needs Improvement = 1$	2	2
Evaluato Yes	or Notes: , Colorado encourages all operators to pattern their procedure after CGA recommended prac	tices.	
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) $Yes = 2 No = 0 Needs Improvement = 1$	2	2
	or Notes: orado collects the data from annual reports and analyzes it for trends. Usually the three large trend for improvement.	st operato	ors in Colorado set

5 General Comments:

Info Only = No Points

Info OnlyInfo Only

Evaluator 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 O	nly
	Name of Operator Inspected: City of Trinidad, CO Colorado Natural Gas		
	Name of State Inspector(s) Observed: Bryan Fry, Kevin Stilson with Joe Molloy program manager observing		
	Location of Inspection: Trinidad, ColoradoDenver and Fairplay		
	Date of Inspection: June 26, 27June 28,29		
Evaluator	Name of PHMSA Representative: Leonard Steiner r Notes:		
2	Was the operator or operator's representative notified and/or given the opportunity to be present during inspection? $Yes = 1 No = 0$	1	1
Evaluator			
Yes,	Both operators were adequately notified.		
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) Yes = 2 No = 0 Needs Improvement = 1	2	2
Evaluator			
4	Did the inspector thoroughly document results of the inspection? Yes = 2 No = 0 Needs Improvement = 1	2	2
Evaluator Yes,			
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.) Yes = 1 No = 0	1	1
Evaluator			
yes,	technicians were available with equipment for any testing.		
6	Did the inspector adequately review the following during the field portion of the state evaluation? (check all that apply on list) Yes = 2 No = 0 Needs Improvement = 1	2	2
	a. Procedures	\boxtimes	
	b. Records	\boxtimes	
	c. Field Activities		
Evaluator	d. Other (please comment) r Notes:		



7 Did the inspector have adequate knowledge of the pipeline safety program and regulations? (Evaluator will document reasons if unacceptable)

2



 \boxtimes

D.

E.

Valve Maintenance

Vault Maintenance

F.	Welding	
G.	OQ - Operator Qualification	
H.	Compliance Follow-up	
I.	Atmospheric Corrosion	\boxtimes
J.	Other	

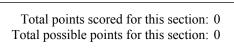
Evaluator Notes:

On June 26 and 27, I observed Bryan Fry and Kevin Stilson, Colorado Pipeline Safety inspectors, conducting 1 1/2 day standard inspection of the City of Trinidad gas system. Coordination was properly completed and the inspectors arrived at the scheduled time and place. The inspectors conducted inspections of their procedures and records. The inspectors were knowledgeable and competent, and had planned which records and procedures to be inspected. This inspection was conducted in a courteous and professional manner. On June 28 and 29, I observed Kevin Stilson conducting a standard inspection of the facilities of Colorado Natural Gas in the southwest Denver area. The inspection was well planned and conducted in a timely manner. This inspection was conducted in a courteous and professional manner. On June 29, I accompanied Joe Molloy to Fairplay to verify the Colorado Natural Gas (CNG) was inspecting joints of plastic pipe that was installed by a company contracted by CNG to install a gas distribution system. The operator had discovered many inadequate joints and was inspecting joints and replacing inadequate joints.

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



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



PAR	Γ I - 60106 Agreement State (If Applicable)	oints(MAX)	Score
1 Evaluato	Did the state use the current federal inspection form(s)? Yes = 1 No = 0 Needs Improvement = .5 or Notes:	1	NA
2 Evaluato	Are results documented demonstrating inspection units were reviewed in accordance state inspection plan? Yes = 1 No = 0 Needs Improvement = .5 or Notes:	with 1	NA
3 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.) Yes = 1 No = 0 Needs Improvement = .5 or Notes:	1	NA
4 Evaluato	Did the state immediately report to PHMSA conditions which may pose an imminent safety hazard to the public or to the environment? Yes = 1 No = 0 Needs Improvement = .5 or Notes:	1	NA
5 Evaluato	Did the state give written notice to PHMSA within 60 days of all probable violations found? Yes = 1 No = 0 Needs Improvement = .5 or Notes:	1	NA
6 Evaluato	Did the state initially submit adequate documentation to support compliance action by PHMSA on probable violations? Yes = 1 No = 0 Needs Improvement = .5 or Notes:	, 1	NA



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

Info OnlyInfo Only

7

Evaluator Notes:

General Comments: Info Only = No Points