

Inspection Results (IRR)

Unit Targa CRM (128)

Row	Assets	Result	Sub-Group	Qst #	Question ID	References	Question Text
1.	Unit Targa CRM	Sat	CR.CRMGEN	1.	CR.CRMGEN.CRMCRITERIA.P	195.446(a)	Does the process adequately address criteria by which the operator determines which of its facilities are control rooms?
2.	Unit Targa CRM	Sat	CR.CRMGEN	2.	CR.CRMGEN.CRMMGMT.P	195.446(a)	Are CRM procedures formalized and controlled?
3.	Unit Targa CRM	Sat	CR.CRMGEN	3.	CR.CRMGEN.CRMIMPLEMENT.R	195.446(a)	Were procedures approved, in place, and implemented on or before the regulatory deadline?
4.	Unit Targa CRM	Sat	CR.CRMGEN	4.	CR.CRMGEN.CRMPROCLOCATION.O	195.446(a)	Are procedures readily available to controllers in the control room?
5.	Unit Targa CRM	Sat	CR.CRMRR	1.	CR.CRMRR.RESPONSIBLE.P	195.446(b)(1)	Are there clear processes to describe each controller's physical domain of responsibility for pipelines and other facility assets?
6.	Unit Targa CRM	Sat	CR.CRMRR	2.	CR.CRMRR.QUALCONTROL.P	195.446(b)(1)	Are there provisions in place to assure that only qualified individuals may assume control at any

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7.	Unit Targa CRM	NA	CR.CRMRR	3.	CR.CRMRR.DOMAINCHANGE.P	195.446(b)(1)	console/desk? If the physical domain of responsibility periodically changes, has a clear process been established to describe the conditions for when such a change occurs?
8.	Unit Targa CRM	NA	CR.CRMRR	4.	CR.CRMRR.RESPCHANGE.P	195.446(b)(1)	Do processes address a controller's role during temporary impromptu (unplanned) changes in controller responsibilities?
9.	Unit Targa CRM	Sat	CR.CRMRR	5.	CR.CRMRR.COMMANDVERIFY.P	195.446(b)(1)	Do the defined roles and responsibilities require controllers to stay at the console to verify all SCADA commands that have been initiated are fulfilled, and that commands given via verbal communications are acknowledged before leaving the console for any reason?
10.	Unit Targa CRM	Sat	CR.CRMRR	6.	CR.CRMRR.AUTHORITYABNORMAL.P	195.446(b)(2)	Have processes been established to define the controllers' authority and responsibilities when an abnormal operating condition is detected?

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11.	Unit Targa CRM	Sat	CR.CRMRR	7.	CR.CRMRR.PRESSLIMITS.O	195.446(b)(2)	Are controllers aware of the current MOPs of all pipeline segments for which they are responsible, and have they been assigned the responsibility to maintain those pipelines at or below the MOP?
12.	Unit Targa CRM	Sat	CR.CRMRR	8.	CR.CRMRR.AUTHORITYEMERGENCY.P	195.446(b)(3)	Do processes define the controllers' authority and responsibility to make decisions, take actions, and communicate with others upon being notified of, or upon detection of, and during, an emergency or if a leak or rupture is suspected?
13.	Unit Targa CRM	Sat	CR.CRMRR	9.	CR.CRMRR.EVACUATION.P	195.446(b)(3)	Do processes specifically address the controller's responsibilities in the event the control room must be evacuated?
14.	Unit Targa CRM	Sat	CR.CRMRR	10.	CR.CRMRR.COMMSYSFAIL.P	195.446(b)(3)	Do processes specifically address the controller's responsibilities in the event of a SCADA system or data communications system failure impacting large sections of the controller's domain of

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15.	Unit Targa CRM	Sat	CR.CRMRR	11.	CR.CRMRR.HANDOVER.P	195.446(b)(4) (195.446(c)(5))	responsibility? Have processes been established for the hand-over of responsibility that specify the type of information to be communicated to the oncoming shift?
16.	Unit Targa CRM	Sat	CR.CRMRR	12.	CR.CRMRR.HANDOVERDOC.P	195.446(b)(4) (195.446(c)(5))	Do processes require that records document the hand-over of responsibility, document the time the actual hand-over of responsibility occurs, and the key information and topics that were communicated during the hand-over?
17.	Unit Targa CRM	Sat	CR.CRMRR	13.	CR.CRMRR.HANDOVERDOC.R	195.446(b)(4) (195.446(c)(5))	Are there records that document the hand-over of responsibility, document the time the actual hand-over of responsibility occurs, and the key information and topics that were communicated during the hand-over?
18.	Unit Targa CRM	Sat	CR.CRMRR	14.	CR.CRMRR.HANDOVEROVERLAP.P	195.446(b)(4)	Do processes require the controllers to discuss recent and impending important activities

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19.	Unit Targa CRM	Sat	CR.CRMRR	15.	CR.CRMRR.HANDOVERALTERNATIVE.P	195.446(b)(4)	ensuring adequate overlap? When a controller is unable to continue or assume responsibility for any reason, do the shift hand-over processes include alternative shift hand-over actions that specifically address this situation?
20.	Unit Targa CRM	Sat	CR.CRMRR	16.	CR.CRMRR.UNATTENDCONSOLE.P	195.446(b)(4)	Has the operator established an adequate process for occasions when the console is left temporarily unattended for any reason?
21.	Unit Targa CRM	Sat	CR.CRMRR	17.	CR.CRMRR.CONSOLECOVERAGE.P	195.446(b)(4)	Do processes maintain adequate console coverage during shift hand-over?
22.	Unit Targa CRM	Sat	CR.SCADA	1.	CR.SCADA.SYSTEMMOC.P	195.446(c)(1)	Do processes clearly define the types of changes to the SCADA system(s) that constitute additions, expansions, or replacements under the meaning of the CRM rule?
23.	Unit Targa CRM	Sat	CR.SCADA	2.	CR.SCADA.DISPLAYCONFIG.P	195.446(c)(1)	Are there written processes to implement the API RP 1165 display

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							standards to the SCADA systems that have been added, expanded, or replaced since August 1, 2012?
24.	Unit Targa CRM	Sat	CR.SCADA	3.	CR.SCADA.1165HUMANFACTORS.R	195.446(c)(1)	Has section 4 of API RP 1165 regarding human factors engineering been implemented?
25.	Unit Targa CRM	Sat	CR.SCADA	4.	CR.SCADA.DISPLAYHARDWARE.R	195.446(c)(1)	Has section 5 of API RP 1165 regarding display hardware been implemented?
26.	Unit Targa CRM	Sat	CR.SCADA	5.	CR.SCADA.DISPLAYLAYOUT.R	195.446(c)(1)	Has section 6 of API RP 1165 regarding display layout and organization been implemented?
27.	Unit Targa CRM	Sat	CR.SCADA	6.	CR.SCADA.DISPLAYNAVIGATION.R	195.446(c)(1)	Has section 7 of API RP 1165 regarding display navigation been implemented?
28.	Unit Targa CRM	Sat	CR.SCADA	7.	CR.SCADA.DISPLAYOBJECTS.O	195.446(c)(1)	Has section 8 of API RP 1165 regarding display object characteristics been implemented?
29.	Unit Targa CRM	Sat	CR.SCADA	8.	CR.SCADA.DISPLAYDYNAMICS.R	195.446(c)(1)	Has section 9 of API RP 1165 regarding display object dynamics been implemented?
30.	Unit Targa CRM	Sat	CR.SCADA	9.	CR.SCADA.CONTROLSELECTION.R	195.446(c)(1)	Has section 10 of API RP 1165 control selection and techniques been

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31.	Unit Targa CRM	Sat	CR.SCADA	10.	CR.SCADA.ADMINISTRATION.R	195.446(c)(1)	implemented? Has section 11 of API RP 1165 administration been implemented?
32.	Unit Targa CRM	NA	CR.SCADA	11.	CR.SCADA.1165IMPRACTICAL.R	195.446(c)(1)	If any/all applicable paragraph(s) of API RP 1165 have not been implemented, has it been demonstrated and documented that the unimplemented provisions are impractical for the SCADA system used?
33.	Unit Targa CRM	Sat	CR.SCADA	12.	CR.SCADA.SETPOINT.P	195.446(c)(2) (195.406(b))	Does the process adequately define safety-related points?
34.	Unit Targa CRM	Sat	CR.SCADA	13.	CR.SCADA.SETPOINT.R	195.446(c)(2)	Do records indicate safety-related points have been adequately implemented?
35.	Unit Targa CRM	Sat	CR.SCADA	14.	CR.SCADA.POINTVERIFY.P	195.446(c)(2)	Are there adequate processes to define and identify the circumstances which require a point-to-point verification?
36.	Unit Targa CRM	NA	CR.SCADA	15.	CR.SCADA.POINTVERIFY.R	195.446(c)(2)	Have required point-to-point verifications been performed?
37.	Unit Targa CRM	Sat	CR.SCADA	16.	CR.SCADA.POINTVERIFYEXTENT.P	195.446(c)(2)	Are there adequate processes for the

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38.	Unit Targa CRM	NA	CR.SCADA	17.	CR.SCADA.POINTVERIFYEXTENT.R	195.446(c)(2)	thoroughness of the point-to-point verification? Do records demonstrate adequate thoroughness of the point-to-point verification?
39.	Unit Targa CRM	Sat	CR.SCADA	18.	CR.SCADA.POINTVERFIYINTVL.P	195.446(c)(2)	Is there an adequate process for defining when the point-to-point verification must be completed?
40.	Unit Targa CRM	NA	CR.SCADA	19.	CR.SCADA.POINTVERFIYINTVL.R	195.446(c)(2)	Do records indicate the point-to-point verification has been completed at the required intervals?
41.	Unit Targa CRM	Sat	CR.SCADA	20.	CR.SCADA.COMMPLAN.P	195.446(c)(3)	Has an internal communication plan been established and implemented that is adequate to manually operate the pipeline during a SCADA failure/outage?
42.	Unit Targa CRM	Sat	CR.SCADA	21.	CR.SCADA.COMMPLAN.R	195.446(c)(3)	Has the internal communication plan been tested and verified for manual operation of the pipeline safely at least once each calendar year but at intervals not exceeding 15 months?

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43.	Unit Targa CRM	NA	CR.SCADA	22.	CR.SCADA.BACKUPSCADA.O	195.446(c)(4)	Is there a backup SCADA system?
44.	Unit Targa CRM	NA	CR.SCADA	23.	CR.SCADA.BACKUPSCADADEV.P	195.446(c)(4)	Has the use of the backup SCADA system for development work been defined?
45.	Unit Targa CRM	NA	CR.SCADA	24.	CR.SCADA.BACKUPSCADATEST.R	195.446(c)(4)	Is the backup SCADA system tested at least once each calendar year at intervals not to exceed 15 months?
46.	Unit Targa CRM	NA	CR.SCADA	25.	CR.SCADA.BACKUPSCADAVERIFY.R	195.446(c)(4)	Does the testing verify that there are adequate processes in place for decision-making and internal communications to successfully implement a transition from primary SCADA to backup SCADA, and back to primary SCADA?
47.	Unit Targa CRM	NA	CR.SCADA	26.	CR.SCADA.BACKUPSCADAADQUACY.R	195.446(c)(4)	If the back-up SCADA system is not designed to handle all the functionality of the main SCADA system, does the testing determine whether there are adequate procedures in place to account for displaced and/or different available functions during back-up operations?

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48.	Unit Targa CRM	NA	CR.SCADA	27.	CR.SCADA.BACKUPSCADATRANSFER.P	195.446(c)(4)	Do processes adequately address and test the logistics of transferring control to a backup control room?
49.	Unit Targa CRM	NA	CR.SCADA	28.	CR.SCADA.BACKUPSCADARETURN.P	195.446(c)(4)	Do procedures adequately address and test the logistics of returning operations back to the primary control room?
50.	Unit Targa CRM	NA	CR.SCADA	29.	CR.SCADA.BACKUPSCADAFUNCTIONS.R	195.446(c)(4)	Is a representative sampling of critical functions in the back-up SCADA system being tested to ensure proper operation in the event the backup system is needed?
51.	Unit Targa CRM	Sat	CR.CRMFM	1.	CR.CRMFM.FATIGUEMITIGATION.P	195.446(d)	Does the fatigue mitigation process or procedures (plan) identify operator-specific fatigue risks?
52.	Unit Targa CRM	Sat	CR.CRMFM	2.	CR.CRMFM.FATIGUERISKS.P	195.446(d)	Does the fatigue mitigation plan adequately address how the program reduces the risk associated with controller fatigue?
53.	Unit Targa CRM	Sat	CR.CRMFM	3.	CR.CRMFM.FATIGUEQUANTIFY.P	195.446(d)	Do processes require that the potential

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54.	Unit Targa CRM	Sat	CR.CRMFM	4.	CR.CRMFM.FATIGUEMANAGER.P	195.446(d)	<p>contribution of controller fatigue to incidents and accidents be quantified during investigations?</p> <p>Is there a designated fatigue risk manager who is responsible and accountable for managing fatigue risk and fatigue countermeasures, and someone (perhaps the same person) that is authorized to review and approve HOS emergency deviations?</p>
55.	Unit Targa CRM	Sat	CR.CRMFM	5.	CR.CRMFM.SHIFTLENGTH.R	195.446(d)(1)	<p>Is the scheduled shift length less than or equal to 12 hours (not including shift hand-over) or is there a documented technical basis to show that shift lengths and schedule rotations are adequate to provide controllers off-duty time sufficient to achieve 8 hours of continuous sleep?</p>
56.	Unit Targa CRM	Sat	CR.CRMFM	6.	CR.CRMFM.SHIFTLENGTHTIME.R	195.446(d)(1)	<p>Does the operator factor in all time the individual is working for the company when establishing shift</p>

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57.	Unit Targa CRM	Sat	CR.CRMFM	7.	CR.CRMFM.SCHEDULEDTIMEOFF.R	195.446(d)(1)	lengths and schedule rotations or is there a documented technical basis to show that shift lengths and schedule rotations are adequate to provide controllers off-duty time sufficient to achieve 8 hours of continuous sleep? Are all scheduled periods of time off at least one hour longer than 8 hours plus commute time or is there a documented technical basis to show that shift lengths and schedule rotations are adequate to provide controllers off-duty time sufficient to achieve 8 hours of continuous sleep?
58.	Unit Targa CRM	NA	CR.CRMFM	8.	CR.CRMFM.ONCALLCONTROLLER.R	195.446(d)(1)	For controllers who are on call, does the operator minimize interrupting the required 8 hours of continuous sleep or is there a documented technical basis to show that shift lengths and schedule rotations are adequate to

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59.	Unit Targa CRM	Sat	CR.CRMFM	9.	CR.CRMFM.MAXHOS.P	195.446(d)(4)	provide controllers off-duty time sufficient to achieve 8 hours of continuous sleep? Do processes limit the maximum HOS limit in any sliding 7 day period to no more than 65 hours or is there a documented technical basis to show reduction of the risk associated with controller fatigue?
60.	Unit Targa CRM	Sat	CR.CRMFM	10.	CR.CRMFM.MINTIMEOFF.P	195.446(d)(4)	After reaching the HOS limit in any sliding 7 day period, is the minimum time off at least 35 hours or is there a documented technical basis to show a reduction of the risk associated with controller fatigue?
61.	Unit Targa CRM	Sat	CR.CRMFM	11.	CR.CRMFM.DOCSCHEDULE.P	195.446(d)(4)	Is there a formal system to document all scheduled and unscheduled HOS worked, including overtime and time spent performing duties other than control room duties?
62.	Unit Targa CRM	NA	CR.CRMFM	12.	CR.CRMFM.DAYSOFF.P	195.446(d)(4)	For normal business hour type operations (i.e., five days per week), are no

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63.	Unit Targa CRM	NA	CR.CRMFM	13.	CR.CRMFM.WORKHOURS.R	195.446(d)(4)	more than five days worked in succession before at least two days off? For normal business hour type operations (i.e., five days per week), do records indicate shift start times no earlier than 6:00 a.m. and shift end times no later than 7:00 p.m.?
64.	Unit Targa CRM	Sat	CR.CRMFM	14.	CR.CRMFM.FATIGUECOUNTERMEASURES.P	195.446(d)(4)	For shifts longer than 8 hours, have specific fatigue countermeasures been implemented for the ninth and beyond hours?
65.	Unit Targa CRM	Sat	CR.CRMFM	15.	CR.CRMFM.DAILYHOSLIMIT.P	195.446(d)(4)	Do processes limit the daily maximum HOS limit to no more than 14 hours in any sliding 24-hour period?
66.	Unit Targa CRM	Sat	CR.CRMFM	16.	CR.CRMFM.CONTROLLERNUMBERS.O	195.446(d)(4)	Do operations include a sufficient number of qualified controllers?
67.	Unit Targa CRM	Sat	CR.CRMFM	17.	CR.CRMFM.OFFDUTYHOURS.P	195.446(d)(4)	Do processes ensure that controllers are provided with at least thirty-five (35) continuous off-duty hours when limits are reached following the most recent 35-hour

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							(minimum) off-duty rest period or is there a documented technical basis to show that the maximum limit on controller HOS is adequate to reduce the risk associated with controller fatigue?
68.	Unit Targa CRM	Sat	CR.CRMFM	18.	CR.CRMFM.SHIFTHOLDOVER.P	195.446(d)(4)	Does the shift holdover process conform to shift holdover guidelines or is there a documented technical basis to show that the maximum limit on controller HOS is adequate to reduce the risk associated with controller fatigue?
69.	Unit Targa CRM	Sat	CR.CRMFM	19.	CR.CRMFM.SPECIFICCOUNTERMEASURES.P	195.446(d)(4)	Do processes require specific fatigue countermeasures during applicable time periods, or is there a documented technical basis to show that the maximum limit on controller HOS is adequate to reduce the risk associated with controller fatigue?
70.	Unit Targa CRM	Sat	CR.CRMFM	20.	CR.CRMFM.HOSDEVIATIONS.P	195.446(d)(4)	Is there a formal process for approving deviations from the maximum HOS

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71.	Unit Targa CRM	Sat	CR.CRMFM	21.	CR.CRMFM.FATIGUEEDUCATE.P	195.446(d)(2) (195.446(d)(3))	limits? Does the program require that fatigue education/training is required for all controllers and control room supervisors?
72.	Unit Targa CRM	Sat	CR.CRMFM	22.	CR.CRMFM.FATIGUEEDUCATE.R	195.446(d)(2) (195.446(d)(3))	Is fatigue education/training documented for all controllers and control room supervisors?
73.	Unit Targa CRM	Sat	CR.CRMFM	23.	CR.CRMFM.FATIGUEREFRESHER.R	195.446(d)(2) (195.446(d)(3))	Is refresher fatigue education provided at regular intervals?
74.	Unit Targa CRM	NA	CR.CRMFM	24.	CR.CRMFM.FATIGUEREVIEW.P	195.446(d)(2) (195.446(d)(3))	Do processes require that the effectiveness of the fatigue education/training program be reviewed at least once each calendar year, not to exceed 15 months?
75.	Unit Targa CRM	Sat	CR.CRMFM	25.	CR.CRMFM.FATIGUESTRATEGY.P	195.446(d)(2)	Does fatigue education address fatigue mitigation strategies (countermeasures)?
76.	Unit Targa CRM	Sat	CR.CRMFM	26.	CR.CRMFM.OFFDUTY.P	195.446(d)(2)	Does fatigue education address how off-duty activities contribute to fatigue?

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77.	Unit Targa CRM	Sat	CR.CRMFM	27.	CR.CRMFM.FATIGUECONTENT.P	195.446(d)(3)	Is the content of fatigue training adequate for training controllers and supervisors to recognize the effects of fatigue?
78.	Unit Targa CRM	Sat	CR.CRMFM	28.	CR.CRMFM.FATIGUECONTENT.R	195.446(d)(3)	Has controller and supervisor training to recognize the effects of fatigue been documented?
79.	Unit Targa CRM	Sat	CR.CRMAM	1.	CR.CRMAM.ALARM.P	195.446(e)	Is the alarm management plan a formal process that specifically identifies critical topical areas included in the program?
80.	Unit Targa CRM	Sat	CR.CRMAM	2.	CR.CRMAM.ALARMMALFUNCTION.P	195.446(e)(1)	Is there a process to identify and correct inaccurate or malfunctioning alarms?
81.	Unit Targa CRM	Sat	CR.CRMAM	3.	CR.CRMAM.ALARMREVIEW.P	195.446(e)(1)	Does the review of safety-related alarms account for different alarm designs and all alarm types/priorities?
82.	Unit Targa CRM	Sat	CR.CRMAM	4.	CR.CRMAM.CONTROLLERPERFORMANCE.P	195.446(e)(1)	Does the review of safety-related alarms account for individual-specific controller qualification and performance?
83.	Unit Targa CRM	Sat	CR.CRMAM	5.	CR.CRMAM.STALEDATA.P	195.446(e)(1)	Does the review of safety-related alarms

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84.	Unit Targa CRM	Sat	CR.CRMAM	6.	CR.CRMAM.MONTHLYANALYSIS.P	195.446(e)(2)	include specific procedures and practices for managing stale or unreliable data? Do processes require the monthly identification, recording, review, and analysis of points that have been taken off scan, have had alarms inhibited, generated false alarms, or that have had forced or manual values for periods of time exceeding that required for associated maintenance or operating activities?
85.	Unit Targa CRM	Sat	CR.CRMAM	7.	CR.CRMAM.PROBLEMCORRECTION.P	195.446(e)(2)	Does the alarm management plan include a process for promptly correcting identified problems and for returning these points to service?
86.	Unit Targa CRM	Sat	CR.CRMAM	8.	CR.CRMAM.ALARMSETPOINTS.P	195.446(e)(3)	Is there a formal process to determine the correct alarm setpoint values and alarm descriptions?
87.	Unit Targa CRM	Sat	CR.CRMAM	9.	CR.CRMAM.SETTINGCONTROL.P	195.446(e)(3)	Have procedures been established to clearly address how and to what degree controllers can

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88.	Unit Targa CRM	Sat	CR.CRMAM	10.	CR.CRMAM.VERIFICATION.P	195.446(e)(3)	change alarm limits or setpoints, or inhibit alarms, or take points off-scan? Do processes require that any calibration or change to field instruments require verification of alarm setpoints and alarm descriptions?
89.	Unit Targa CRM	Sat	CR.CRMAM	11.	CR.CRMAM.PLANREVIEW.P	195.446(e)(4)	Are there processes to review the alarm management plan at least once each calendar year, but at intervals not exceeding 15 months, in order to determine the effectiveness of the plan?
90.	Unit Targa CRM	Sat	CR.CRMAM	12.	CR.CRMAM.PLANREVIEW.R	195.446(e)(4)	Do records indicate review of the alarm management plan at least once each calendar year, but at intervals not exceeding 15 months, in order to determine the effectiveness of the plan?
91.	Unit Targa CRM	Sat	CR.CRMAM	13.	CR.CRMAM.WORKLOAD.P	195.446(e)(5)	Does the CRM program have a means of identifying and measuring the work load (content

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92.	Unit Targa CRM	Sat	CR.CRMAM	14.	CR.CRMAM.WORKLOADMONITORING.P	195.446(e)(5)	and volume of general activity) being directed to an individual controller? Is the process of monitoring and analyzing general activity comprehensive?
93.	Unit Targa CRM	Sat	CR.CRMAM	15.	CR.CRMAM.CONTROLLERREACTION.P	195.446(e)(5)	Does the process have a means of determining that the controller has sufficient time to analyze and react to incoming alarms?
94.	Unit Targa CRM	Sat	CR.CRMAM	16.	CR.CRMAM.PERFORMANCEANALYSIS.R	195.446(e)(5)	Has an analysis been performed to determine if controller(s) performance is currently adequate?
95.	Unit Targa CRM	Sat	CR.CRMAM	17.	CR.CRMAM.DEFICIENCIES.P	195.446(e)(6)	Is there a process to address how deficiencies found in implementing 195.446(e)(1) through 195.446(e)(5) will be resolved?
96.	Unit Targa CRM	Sat	CR.CRMAM	18.	CR.CRMAM.DEFICIENCIES.R	195.446(e)(6)	Do records indicate deficiencies found in implementing 195.446(e)(1) through 195.446(e)(5) have been resolved?
97.	Unit Targa CRM	Sat	CR.CRMCMGT	1.	CR.CRMCMGT.CHANGEMEETINGS.P	195.446(f)(1)	Is there a process to mandate a control room representative will

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98.	Unit Targa CRM	Sat	CR.CRMCMGT	2.	CR.CRMCMGT.CHANGETRAINING.R	195.446(f)(1)	<p>participate in meetings where changes that could directly or indirectly affect control room operations (including routine maintenance and repairs) are being considered, designed and implemented?</p> <p>Before implementing changes, do records indicate controllers were provided with notification and training to assure their ability to safely incorporate the proposed change into operations?</p>
99.	Unit Targa CRM	Sat	CR.CRMCMGT	3.	CR.CRMCMGT.EMERGENCYCONTACT.P	195.446(f)(2)	<p>Is there a process requiring field personnel and SCADA support personnel to contact the control room when emergency conditions exist?</p>
100.	Unit Targa CRM	Sat	CR.CRMCMGT	4.	CR.CRMCMGT.CHANGECOORDINATION.P	195.446(f)(1)	<p>Does the process assure changes in field equipment (for example, moving a valve) that could affect control room operations are coordinated with control room personnel?</p>

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101.	Unit Targa CRM	Sat	CR.CRMCMGT	5.	CR.CRMCMGT.CHANGECOORDINATION.R	195.446(f)(1)	Do records indicate that changes in field equipment (for example, moving a valve) that could affect control room operations were coordinated with control room personnel?
102.	Unit Targa CRM	Sat	CR.CRMCMGT	6.	CR.CRMCMGT.FIELDCONTACT.P	195.446(f)(2)	Does the process require field personnel and SCADA support personnel to contact the control room when making field changes (for example, moving a valve) that affect control room operations?
103.	Unit Targa CRM	NA	CR.CRMCMGT	7.	CR.CRMCMGT.FIELDCHANGES.R	195.446(f)(2)	Do records indicate field personnel and SCADA support personnel contacted the control room when making field changes (for example, moving a valve) that affect control room operations?
104.	Unit Targa CRM	Sat	CR.CRMEXP	1.	CR.CRMEXP.ABNORMALREVIEW.P	195.446(g)(1)	Is there a formal, structured approach for reviewing and critiquing reportable events to identify lessons learned?
105.	Unit Targa CRM	NA	CR.CRMEXP	2.	CR.CRMEXP.ABNORMALREVIEW.R	195.446(g)(1)	Do records indicate reviews of reportable

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106.	Unit Targa CRM	Sat	CR.CRMEXP	3.	CR.CRMEXP.LESSONSLEARNED.P	195.446(g)(2)	<p>events specifically analyzed all contributing factors to determine if control room actions contributed to the event, and corrected any deficiencies?</p> <p>Does the program require training on lessons learned from a broad range of events (reportable incidents/accidents, near misses, leaks, operational and maintenance errors, etc.), even though the control room may not have been at fault?</p>
107.	Unit Targa CRM	Sat	CR.CRMEXP	4.	CR.CRMEXP.LESSONSLEARNED.R	195.446(g)(2)	<p>Has operating experience review training been conducted on lessons learned from a broad range of events (reportable incidents/accidents, near misses, leaks, operational and maintenance errors, etc.)?</p>
108.	Unit Targa CRM	Sat	CR.CRMTRAIN	1.	CR.CRMTRAIN.CONTROLLERTRAIN.P	195.446(h)	<p>Has a controller training program been established to provide</p>

Row	Assets	Result	Sub-Group	Qst #	Question ID	References	Question Text
109.	Unit Targa CRM	Sat	CR.CRMTRAIN	2.	CR.CRMTRAIN.CONTROLLERTRAIN.R	195.446(h)	training for each controller to carry out their roles and responsibilities? Has a controller training program been implemented to provide training for each controller to carry out their roles and responsibilities?
110.	Unit Targa CRM	Sat	CR.CRMTRAIN	3.	CR.CRMTRAIN.TRAININGREVIEW.P	195.446(h)	Have processes been established to review the controller training program content to identify potential improvements at least once each calendar year, but at intervals not to exceed 15 months?
111.	Unit Targa CRM	NA	CR.CRMTRAIN	4.	CR.CRMTRAIN.TRAININGREVIEW.R	195.446(h)	Have processes been implemented to review the controller training program content to identify potential improvements at least once each calendar year, but at intervals not to exceed 15 months?
112.	Unit Targa CRM	Sat	CR.CRMTRAIN	5.	CR.CRMTRAIN.TRAININGCONTENT.R	195.446(h)	Does training content address all required material, including training each controller to

Row	Assets	Result	Sub-Group	Qst #	Question ID	References	Question Text
113.	Unit Targa CRM	Sat	CR.CRMTRAIN	6.	CR.CRMTRAIN.AOCLIST.R	195.446(h)(1)	carry out the roles and responsibilities that were defined by the operator? Has a list of the abnormal operating conditions that are likely to occur simultaneously or in sequence been established?
114.	Unit Targa CRM	Sat	CR.CRMTRAIN	7.	CR.CRMTRAIN.TRAININGABNORMAL.P	195.446(h)(1)	Does the training program provide controller training on recognizing and responding to abnormal operating conditions that are likely to occur simultaneously or in sequence?
115.	Unit Targa CRM	Sat	CR.CRMTRAIN	8.	CR.CRMTRAIN.TRAINING.R	195.446(h)(2)	Does the training program use a simulator or tabletop exercises to train controllers how to recognize and respond to abnormal operating conditions?
116.	Unit Targa CRM	Sat	CR.CRMTRAIN	9.	CR.CRMTRAIN.TRAINING.O	195.446(h)(2)	Does the training program use a simulator or tabletop exercises to train controllers how to recognize and respond to abnormal operating conditions?

Row	Assets	Result	Sub-Group	Qst #	Question ID	References	Question Text
117.	Unit Targa CRM	Sat	CR.CRMTRAIN	10.	CR.CRMTRAIN.COMMUNICATIONTRAINING.P	195.446(h)(3)	Does the CRM program train controllers on their responsibilities for communication under the operator's emergency response procedures?
118.	Unit Targa CRM	Sat	CR.CRMTRAIN	11.	CR.CRMTRAIN.SYSKNOWLEDGE.P	195.446(h)(4)	Does the training program provide controllers a working knowledge of the pipeline system, especially during the development of abnormal operating conditions?
119.	Unit Targa CRM	Sat	CR.CRMTRAIN	12.	CR.CRMTRAIN.INFREQOPSLIST.R	195.446(h)(5)	Has a list of pipeline operating setups that are periodically (but infrequently) used been established?
120.	Unit Targa CRM	Sat	CR.CRMTRAIN	13.	CR.CRMTRAIN.INFREQOPSREVIEW.P	195.446(h)(5)	Do processes specify that, for pipeline operating set-ups that are periodically (but infrequently) used, the controllers must be provided an opportunity to review relevant procedures in advance of their use?
121.	Unit Targa CRM	Sat	CR.CRMCOMP	1.	CR.CRMCOMP.SUBMITPROCEDURES.P	195.446(i)	Are there adequate processes to assure that the operator is responsive to requests

Row	Assets	Result	Sub-Group	Qst #	Question ID	References	Question Text
122.	Unit Targa CRM	Sat	CR.CRMCOMP	2.	CR.CRMCOMP.SUBMITPROCEDURES.R	195.446(i)	from applicable agencies to submit their CRM procedures? Has the operator been responsive to requests from applicable agencies to submit their CRM procedures?
123.	Unit Targa CRM	Sat	CR.CRMCOMP	3.	CR.CRMCOMP.CRMCOORDINATOR.R	195.446(i)	Is there an individual that is responsible and accountable for compliance with requests from PHMSA or other applicable agencies?
124.	Unit Targa CRM	Sat	CR.CRMCOMP	4.	CR.CRMCOMP.RECORDS.P	195.446(j)(1)	Records management processes adequate to assure records are sufficient to demonstrate compliance with the CRM rule?
125.	Unit Targa CRM	Sat	CR.CRMCOMP	5.	CR.CRMCOMP.RECORDS.R	195.446(j)(1)	Are records sufficient to demonstrate compliance with the CRM rule?
126.	Unit Targa CRM	Sat	CR.CRMCOMP	6.	CR.CRMCOMP.ELECTRONICRECORDS.R	195.446(j)(1)	Are electronic records properly stored, safeguarded, and readily retrievable?
127.	Unit Targa CRM	Sat	CR.CRMCOMP	7.	CR.CRMCOMP.DEVIATIONS.P	195.446(j)(2)	Are there processes to demonstrate and provide a documented record that every deviation from any CRM rule

Row	Assets	Result	Sub-Group	Qst #	Question ID	References	Question Text
128.	Unit Targa CRM	NA	CR.CRMCOMP	8.	CR.CRMCOMP.DEVIATIONS.R	195.446(j)(2)	<p>requirement was necessary for safe operation?</p> <p>Were all deviations documented in a way that demonstrates they were necessary for safe operation?</p>

Report Parameters: All non-empty Results

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