

Topical Content (OQ, PA, CRM) - Control Room Management

CRM, SCADA, and Leak Detection - General

1. Control Room Management Criteria (detail) <i>Does the process adequately address criteria by which the operator determines which of its facilities are control rooms?</i> (CR.CRMGEN.CRMCRITERIA.P) (detail)						
192.631(a)(2)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

2. Control Room Management (detail) <i>Are CRM procedures formalized and controlled?</i> (CR.CRMGEN.CRMMGMT.P) (detail)						
192.631(a)(2)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

3. Control Room Management (detail) <i>Were procedures approved, in place, and implemented on or before the regulatory deadline?</i> (CR.CRMGEN.CRMIMPLEMENT.R) (detail)						
192.631(a)(2)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

4. Control Room Management (detail) <i>Are procedures readily available to controllers in the control room?</i> (CR.CRMGEN.CRMPROCLOCATION.O) (detail)						
192.631(a)(2)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

CRM, SCADA, and Leak Detection - Roles and Responsibilities

5. Roles and Responsibilities (detail) <i>Are there clear processes to describe each controller's physical domain of responsibility for pipelines and other facility assets? (CR.CRMRR.RESPONSIBLE.P) (detail)</i>						
192.631(b)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

6. Roles and Responsibilities (detail) <i>Are there provisions in place to assure that only qualified individuals may assume control at any console/desk? (CR.CRMRR.QUALCONTROL.P) (detail)</i>						
192.631(b)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

7. Roles and Responsibilities (detail) <i>If the physical domain of responsibility periodically changes, has a clear process been established to describe the conditions for when such a change occurs? (CR.CRMRR.DOMAINCHANGE.P) (detail)</i>						
192.631(b)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

8. Roles and Responsibilities (detail) <i>Do processes address a controller's role during temporary impromptu (unplanned) changes in controller responsibilities? (CR.CRMRR.RESPCHANGE.P) (detail)</i>						
192.631(b)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

9. Roles and Responsibilities (detail) <i>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? (CR.CRMRR.COMMANDVERIFY.P) (detail)</i>						
192.631(b)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

10. Controller Authority (Abnormal Operations) (detail) *Have processes been established to define the controllers' authority and responsibilities when an abnormal operating condition is detected?*
(CR.CRMRR.AUTHORITYABNORMAL.P) (detail)

	Sat+	Sat	Concern	Unsat	NA	NC
192.631(b)(2)						
Notes						

11. Overpressure Limits (detail) *Are controllers aware of the current MAOPs of all pipeline segments for which they are responsible, and have they been assigned the responsibility to maintain those pipelines at or below the MAOP?*
(CR.CRMRR.PRESSLIMITS.O) (detail)

	Sat+	Sat	Concern	Unsat	NA	NC
192.631(b)(2) (192.619(a); 192.631(e)(1))						
Notes						

12. Controller Authority (Emergency Operations) (detail) *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?* (CR.CRMRR.AUTHORITYEMERGENCY.P) (detail)

	Sat+	Sat	Concern	Unsat	NA	NC
192.631(b)(3)						
Notes						

13. Control Center Evacuation (detail) *Do processes specifically address the controller's responsibilities in the event the control room must be evacuated?* (CR.CRMRR.EVACUATION.P) (detail)

	Sat+	Sat	Concern	Unsat	NA	NC
192.631(b)(3)						
Notes						

14. Communication Failure (detail) *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 responsibility?* (CR.CRMRR.COMMSYSFAIL.P) (detail)

	Sat+	Sat	Concern	Unsat	NA	NC
192.631(b)(3)						
Notes						

15. Shift Change Process (detail) <i>Have processes been established for the hand-over of responsibility that specify the type of information to be communicated to the oncoming shift? (CR.CRMRR.HANDOVER.P) (detail)</i>						
192.631(b)(4) (192.631(c)(5))	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

CRM, SCADA, and Leak Detection - Supervisory Control and Data Acquisition

16. Shift Change Process - Documentation (detail) <i>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? (CR.CRMRR.HANDOVERDOC.P) (detail)</i>						
192.631(b)(4) (192.631(c)(5))	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

17. Shift Change Process - Documentation (detail) <i>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? (CR.CRMRR.HANDOVERDOC.R) (detail)</i>						
192.631(b)(4) (192.631(c)(5))	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

18. Shift Change Process - Overlap (detail) <i>Do processes require the controllers to discuss recent and impending important activities ensuring adequate overlap? (CR.CRMRR.HANDOVEROVERLAP.P) (detail)</i>						
192.631(b)(4)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

19. Shift Change Process - Handover Alternative (detail) *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? (CR.CRMRR.HANDOVERALTERNATIVE.P) (detail)*

192.631(b)(4)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

20. Shift Change Process - Unattended Consoles (detail) *Has the operator established an adequate process for occasions when the console is left temporarily unattended for any reason? (CR.CRMRR.UNATTENDCONSOLE.P) (detail)*

192.631(b)(4)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

21. Shift Change Process - Console Coverage (detail) *Do processes maintain adequate console coverage during shift hand-over? (CR.CRMRR.CONSOLECOVERAGE.P) (detail)*

192.631(b)(4)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

22. Change Management (detail) *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? (CR.SCADA.SYSTEMMOC.P) (detail)*

192.631(c)(1)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

23. SCADA Displays (detail) *Are there written processes to implement the API RP 1165 display standards to the SCADA systems that have been added, expanded, or replaced since August 1, 2012? (CR.SCADA.DISPLAYCONFIG.P) (detail)*

192.631(c)(1)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

24. SCADA API RP 1165 Human Factors (detail) <i>Has section 4 of API RP 1165 regarding human factors engineering been implemented?</i> (CR.SCADA.1165HUMANFACTORS.R) (detail)						
192.631(c)(1)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

25. SCADA Display Objects (detail) <i>Has section 8 of API RP 1165 regarding display object characteristics been implemented?</i> (CR.SCADA.DISPLAYOBJECTS.O) (detail)						
192.631(c)(1)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

26. SCADA Display Dynamics (detail) <i>Has section 9 of API RP 1165 regarding display object dynamics been implemented?</i> (CR.SCADA.DISPLAYDYNAMICS.R) (detail)						
192.631(c)(1)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

27. SCADA Administration (detail) <i>Have applicable paragraphs of section 11 of API RP 1165 administration been implemented?</i> (CR.SCADA.ADMINISTRATION.R) (detail)						
192.631(c)(1)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

28. SCADA Impracticality (detail) <i>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?</i> (CR.SCADA.1165IMPRRACTICAL.R) (detail)						
192.631(c)(1)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

29. Set Points (detail) <i>Does the process adequately define safety-related points?</i> (CR.SCADA.SETPOINT.P) (detail)						
192.631(c)(2)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

30. Set Points (detail) <i>Do records indicate safety-related points have been adequately implemented?</i> (CR.SCADA.SETPOINT.R) (detail)						
192.631(c)(2)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

31. Point-to-Point Verification (detail) <i>Are there adequate processes to define and identify the circumstances which require a point-to-point verification?</i> (CR.SCADA.POINTVERIFY.P) (detail)						
192.631(c)(2)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

32. Point-to-Point Verification (detail) <i>Have required point-to-point verifications been performed?</i> (CR.SCADA.POINTVERIFY.R) (detail)						
192.631(c)(2)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

33. Point-to-Point Verification Extent (detail) <i>Are there adequate processes for the thoroughness of the point-to-point verification?</i> (CR.SCADA.POINTVERIFYEXTENT.P) (detail)						
192.631(c)(2)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

34. Point-to-Point Verification Extent (detail) <i>Do records demonstrate adequate thoroughness of the point-to-point verification?</i> (CR.SCADA.POINTVERIFYEXTENT.R) (detail)						
192.631(c)(2)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

35. Point-to-Point Verification Interval (detail) <i>Is there an adequate process for defining when the point-to-point verification must be completed?</i> (CR.SCADA.POINTVERFIYINTVL.P) (detail)						
192.631(c)(2)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

36. Point-to-Point Verification Interval (detail) <i>Do records indicate the point-to-point verification has been completed at the required intervals?</i> (CR.SCADA.POINTVERFIYINTVL.R) (detail)						
192.631(c)(2)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

37. Internal Communication Plan (detail) <i>Has an internal communication plan been established and implemented that is adequate to manually operate the pipeline during a SCADA failure/outage?</i> (CR.SCADA.COMMPLAN.P) (detail)						
192.631(c)(3)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

38. Internal Communication Plan (detail) <i>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?</i> (CR.SCADA.COMMPLAN.R) (detail)						
192.631(c)(3)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

39. Backup SCADA System (detail) <i>Is there a backup SCADA system?</i> (CR.SCADA.BACKUPSCADA.O) (detail)						
192.631(c)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

40. Backup SCADA Development (detail) <i>Has the use of the backup SCADA system for development work been defined?</i> (CR.SCADA.BACKUPSCADADEV.P) (detail)						
192.631(c)(4)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

41. Backup SCADA Testing (detail) <i>Is the backup SCADA system tested at least once each calendar year at intervals not to exceed 15 months?</i> (CR.SCADA.BACKUPSCADATEST.R) (detail)						
192.631(c)(4)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

42. Backup SCADA Verification (detail) <i>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?</i> (CR.SCADA.BACKUPSCADAVERIFY.R) (detail)						
192.631(c)(4)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

43. Backup SCADA Adequacy (detail) <i>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?</i> (CR.SCADA.BACKUPSCADA Adequacy.R) (detail)						
192.631(c)(4)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

44. Backup SCADA Transfer (detail) <i>Do processes adequately address and test the logistics of transferring control to a backup control room? (CR.SCADA.BACKUPSCADATRANSFER.P) (detail)</i>						
192.631(c)(4)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

45. Backup SCADA Return to Primary (detail) <i>Do procedures adequately address and test the logistics of returning operations back to the primary control room? (CR.SCADA.BACKUPSCADARETURN.P) (detail)</i>						
192.631(c)(4)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

46. Backup SCADA Testing (detail) <i>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? (CR.SCADA.BACKUPSCADAFUNCTIONS.R) (detail)</i>						
192.631(c)(4)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

CRM, SCADA, and Leak Detection - Fatigue Management

47. Fatigue Mitigation (detail) <i>Does the fatigue mitigation process or procedures (plan) identify operator-specific fatigue risks? (CR.CRMFM.FATIGUEMITIGATION.P) (detail)</i>						
192.631(d)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

48. Fatigue Risk Reduction (detail) <i>Does the fatigue mitigation plan adequately address how the program reduces the risk associated with controller fatigue? (CR.CRMFM.FATIGUERISKS.P) (detail)</i>						
192.631(d)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

49. Fatigue Quantification (detail) <i>Do processes require that the potential contribution of controller fatigue to incidents and accidents be quantified during investigations?</i> (CR.CRMFM.FATIGUEQUANTIFY.P) (detail)						
192.631(d)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

50. Fatigue Mitigation Manager (detail) <i>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?</i> (CR.CRMFM.FATIGUEMANAGER.P) (detail)						
192.631(d)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

51. Scheduled Shift Length (detail) <i>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?</i> (CR.CRMFM.SHIFTLENGTH.R) (detail)						
192.631(d)(1)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

52. Establishing Shift Length (detail) <i>Does the operator factor in all time the individual is working for the company when establishing shift 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?</i> (CR.CRMFM.SHIFTLENGTHTIME.R) (detail)						
192.631(d)(1)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

53. Scheduled Time Off Between Shifts (detail) *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?*
(CR.CRMFM.SCHEDULEDTIMEOFF.R) (detail)

	Sat+	Sat	Concern	Unsat	NA	NC
192.631(d)(1)						
Notes						

54. On Call Controllers (detail) *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 provide controllers off-duty time sufficient to achieve 8 hours of continuous sleep?*
(CR.CRMFM.ONCALLCONTROLLER.R) (detail)

	Sat+	Sat	Concern	Unsat	NA	NC
192.631(d)(1)						
Notes						

55. Maximum Hours of Service (detail) *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 a reduction of the risk associated with controller fatigue?* (CR.CRMFM.MAXHOS.P) (detail)

	Sat+	Sat	Concern	Unsat	NA	NC
192.631(d)(4)						
Notes						

56. Minimum Time Off After HOS Limit Reached (detail) *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?* (CR.CRMFM.MINTIMEOFF.P) (detail)

	Sat+	Sat	Concern	Unsat	NA	NC
192.631(d)(4)						
Notes						

57. Documented Time Schedule (detail) <i>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? (CR.CRMFM.DOCSCHEDULE.P) (detail)</i>						
192.631(d)(4)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

58. Time Off Following Successive Days Worked (detail) <i>For normal business hour type operations (i.e., five days per week), are no more than five days worked in succession before at least two days off? (CR.CRMFM.DAYSOFF.P) (detail)</i>						
192.631(d)(4)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

59. Day Only Work Hours (detail) <i>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.? (CR.CRMFM.WORKHOURS.R) (detail)</i>						
192.631(d)(4)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

60. Fatigue Countermeasures (detail) <i>For shifts longer than 8 hours, have specific fatigue countermeasures been implemented for the ninth and beyond hours? (CR.CRMFM.FATIGUECOUNTERMEASURES.P) (detail)</i>						
192.631(d)(4)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

61. Daily HOS Limit (detail) <i>Do processes limit the daily maximum HOS limit no more than 14 hours in any sliding 24-hour period? (CR.CRMFM.DAILYHOSLIMIT.P) (detail)</i>						
192.631(d)(4)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

62. Number of Qualified Controllers (detail) <i>Do operations include a sufficient number of qualified controllers? (CR.CRMFM.CONTROLLERNUMBERS.O) (detail)</i>						
192.631(d)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

63. Off Duty Hours When Limits Reached (detail) <i>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 (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? (CR.CRMFM.OFFDUTYHOURS.P) (detail)</i>						
192.631(d)(4)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

64. Shift Holdover (detail) <i>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? (CR.CRMFM.SHIFTHOLDOVER.P) (detail)</i>						
192.631(d)(4)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

65. Specific Fatigue Countermeasures During Times of Heightened Risk (detail) <i>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? (CR.CRMFM.SPECIFICCOUNTERMEASURES.P) (detail)</i>						
192.631(d)(4)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

66. Deviations from HOS Limits (detail) <i>Is there a formal process for approving deviations from the maximum HOS limits? (CR.CRMFM.HOSDEVIATIONS.P) (detail)</i>						
192.631(d)(4)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

67. Fatigue Education (detail) <i>Does the program require that fatigue education/training is required for all controllers and control room supervisors? (CR.CRMFM.FATIGUEEDUCATE.P) (detail)</i>						
192.631(d)(2) (192.631(d)(3))	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

68. Fatigue Education (detail) <i>Is fatigue education/training documented for all controllers and control room supervisors? (CR.CRMFM.FATIGUEEDUCATE.R) (detail)</i>						
192.631(d)(2) (192.631(d)(3))	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

69. Fatigue Education Refresher (detail) <i>Is refresher fatigue education provided at regular intervals? (CR.CRMFM.FATIGUEREFRESHER.R) (detail)</i>						
192.631(d)(2) (192.631(d)(3))	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

70. Review of Fatigue Education/Training Program Effectiveness (detail) <i>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? (CR.CRMFM.FATIGUEREVIEW.P) (detail)</i>						
192.631(d)(2) (192.631(d)(3))	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

71. Fatigue Mitigation Strategies (detail) <i>Does fatigue education address fatigue mitigation strategies (countermeasures)? (CR.CRMFM.FATIGUESTRATEGY.P) (detail)</i>						
192.631(d)(2)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

72. Off-Duty Activity Impact on Fatigue (detail) <i>Does fatigue education address how off-duty activities contribute to fatigue?</i> (CR.CRMFM.OFFDUTY.P) (detail)						
192.631(d)(2)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

73. Fatigue Training Content (detail) <i>Is the content of fatigue training adequate for training controllers and supervisors to recognize the effects of fatigue?</i> (CR.CRMFM.FATIGUECONTENT.P) (detail)						
192.631(d)(3)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

74. Fatigue Training Content (detail) <i>Has controller and supervisor training to recognize the effects of fatigue been documented?</i> (CR.CRMFM.FATIGUECONTENT.R) (detail)						
192.631(d)(3)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

CRM, SCADA, and Leak Detection - Alarm Management

75. Alarm Procedures (detail) <i>Is the alarm management plan a formal process that specifically identifies critical topical areas included in the program?</i> (CR.CRMAM.ALARM.P) (detail)						
192.631(e)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

76. Alarm Malfunction (detail) <i>Is there a process to identify and correct inaccurate or malfunctioning alarms?</i> (CR.CRMAM.ALARMMALFUNCTION.P) (detail)						
192.631(e)(1)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

77. Alarm Review (detail) <i>Does the review of safety-related alarms account for different alarm designs and all alarm types/priorities? (CR.CRMAM.ALARMREVIEW.P) (detail)</i>						
192.631(e)(1)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

78. Controller SCADA Performance (detail) <i>Does the review of safety-related alarms account for individual-specific controller qualification and performance? (CR.CRMAM.CONTROLLERPERFORMANCE.P) (detail)</i>						
192.631(e)(1)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

79. Managing Stale or Unreliable Data (detail) <i>Does the review of safety-related alarms include specific procedures and practices for managing stale or unreliable data? (CR.CRMAM.STALEDATA.P) (detail)</i>						
192.631(e)(1)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

80. Monthly Analysis of SCADA Data (detail) <i>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? (CR.CRMAM.MONTHLYANALYSIS.P) (detail)</i>						
192.631(e)(2)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

81. Correction of SCADA Problems (detail) <i>Does the alarm management plan include a process for promptly correcting identified problems and for returning these points to service? (CR.CRMAM.PROBLEMCORRECTION.P) (detail)</i>						
192.631(e)(2)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

82. Alarm Setpoint Process (detail) <i>Is there a formal process to determine the correct alarm setpoint values and alarm descriptions? (CR.CRMAM.ALARMSETPOINTS.P) (detail)</i>						
192.631(e)(3)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

83. Controls on SCADA Settings (detail) <i>Have procedures been established to clearly address how and to what degree controllers can change alarm limits or setpoints, or inhibit alarms, or take points off-scan? (CR.CRMAM.SETTINGCONTROL.P) (detail)</i>						
192.631(e)(3)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

84. Alarm Management Plan Review (detail) <i>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? (CR.CRMAM.PLANREVIEW.P) (detail)</i>						
192.631(e)(4)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

85. Alarm Management Plan Review (detail) <i>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? (CR.CRMAM.PLANREVIEW.R) (detail)</i>						
192.631(e)(4)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

86. Measuring Work Load (detail) <i>Does the CRM program have a means of identifying and measuring the work load (content and volume of general activity) being directed to an individual controller? (CR.CRMAM.WORKLOAD.P) (detail)</i>						
192.631(e)(5)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

87. Monitoring Work Load (detail) <i>Is the process of monitoring and analyzing general activity comprehensive?</i> (CR.CRMAM.WORKLOADMONITORING.P) (detail)						
192.631(e)(5)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

88. Controller Reaction to Incoming Alarms (detail) <i>Does the process have a means of determining that the controller has sufficient time to analyze and react to incoming alarms?</i> (CR.CRMAM.CONTROLLERREACTION.P) (detail)						
192.631(e)(5)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

89. Analysis of Controller Performance (detail) <i>Has an analysis been performed to determine if controller(s) performance is currently adequate?</i> (CR.CRMAM.PERFORMANCEANALYSIS.R) (detail)						
192.631(e)(5)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

90. Alarm Deficiency Resolution (detail) <i>Is there a process to address how deficiencies found in implementing 192.631(e)(1) through 192.631(e)(5) will be resolved?</i> (CR.CRMAM.DEFICIENCIES.P) (detail)						
192.631(e)(6)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

91. Alarm Management Deficiencies (detail) <i>Do records indicate deficiencies found in implementing 192.631(e)(1) through 192.631(e)(5) have been resolved?</i> (CR.CRMAM.DEFICIENCIES.R) (detail)						
192.631(e)(6)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

CRM, SCADA, and Leak Detection - Change Management

92. Field Equipment Changes (detail) <i>Is there a process to assure changes in field equipment that could affect control room operations are coordinated with the control room personnel?</i> (CR.CRMCMGT.EQUIPMENTCHANGES.P) (detail)						
192.631(f)(1)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

93. Controller Participation in System Changes (detail) <i>Are control room representative(s) required to participate in meetings where changes that could directly or indirectly affect the hydraulic performance or configuration of the pipeline (including routine maintenance and repairs) are being considered, designed and implemented?</i> (CR.CRMCMGT.CONTROLLERPARTICIPATE.P) (detail)						
192.631(f)(1) (192.631(f)(3))	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

94. Controller Participation in System Changes (detail) <i>Do records indicate that control room representative(s) participate in meetings where changes that could directly or indirectly affect the hydraulic performance or configuration of the pipeline (including routine maintenance and repairs) are being considered, designed and implemented?</i> (CR.CRMCMGT.CONTROLLERPARTICIPATE.R) (detail)						
192.631(f)(1) (192.631(f)(3))	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

95. Emergency Contact with Control Room (detail) <i>Is there a process requiring field personnel and SCADA support personnel to contact the control room when emergency conditions exist?</i> (CR.CRMCMGT.EMERGENCYCONTACT.P) (detail)						
192.631(f)(2)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

96. Coordination of Field Changes (detail) <i>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? (CR.CRMCMGT.FIELDCONTACT.P) (detail)</i>						
192.631(f)(2)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

97. Coordination of Field Changes (detail) <i>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? (CR.CRMCMGT.FIELDCHANGES.R) (detail)</i>						
192.631(f)(2)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

CRM, SCADA, and Leak Detection - Operating Experience

98. Abnormal Operations (Review) (detail) <i>Is there a formal, structured approach for reviewing and critiquing reportable events to identify lessons learned? (CR.CRMEXP.ABNORMALREVIEW.P) (detail)</i>						
192.631(g)(1)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

99. Abnormal Operations (Review) (detail) <i>Do records indicate reviews of reportable events specifically analyzed all contributing factors to determine if control room actions contributed to the event, and corrected any deficiencies? (CR.CRMEXP.ABNORMALREVIEW.R) (detail)</i>						
192.631(g)(1)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

100. Lessons Learned (detail) <i>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? (CR.CRMEXP.LESSONSLEARNED.P) (detail)</i>						
192.631(g)(2)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

101. Lessons Learned (detail) <i>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.)? (CR.CRMEXP.LESSONSLEARNED.R) (detail)</i>						
192.631(g)(2)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

CRM, SCADA, and Leak Detection – Training

102. Controller Training Program (detail) <i>Has a controller training program been established to provide training for each controller to carry out their roles and responsibilities? (CR.CRMTRAIN.CONTROLLERTRAIN.P) (detail)</i>						
192.631(h)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

103. Controller Training Program (detail) <i>Has a controller training program been implemented to provide training for each controller to carry out their roles and responsibilities? (CR.CRMTRAIN.CONTROLLERTRAIN.R) (detail)</i>						
192.631(h)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

104. Training Program Review (detail) <i>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?</i> (CR.CRMTRAIN.TRAININGREVIEW.P) (detail)						
192.631(h)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

105. Training Program Review (detail) <i>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?</i> (CR.CRMTRAIN.TRAININGREVIEW.R) (detail)						
192.631(h)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

106. Content of Training Program (detail) <i>Does training content address all required material, including training each controller to carry out the roles and responsibilities that were defined by the operator?</i> (CR.CRMTRAIN.TRAININGCONTENT.R) (detail)						
192.631(h)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

107. List of AOCs for Training (detail) <i>Has a list of the abnormal operating conditions that are likely to occur simultaneously or in sequence been established?</i> (CR.CRMTRAIN.AOCLIST.R) (detail)						
192.631(h)(1)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

108. Controller Training and Qualification (detail) <i>Does the training program provide controller training on recognizing and responding to abnormal operating conditions that are likely to occur simultaneously or in sequence?</i> (CR.CRMTRAIN.TRAININGABNORMAL.P) (detail)						
192.631(h)(1)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

109. Controller Training and Qualification (detail) <i>Does the training program use a simulator or tabletop exercises to train controllers how to recognize and respond to abnormal operating conditions?</i> (CR.CRMTRAIN.TRAINING.O) (detail)						
192.631(h)(2)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

110. Controller Training and Qualification (detail) <i>Do records indicate the training program used a simulator or tabletop exercises to train controllers how to recognize and respond to abnormal operating conditions?</i> (CR.CRMTRAIN.TRAINING.R) (detail)						
192.631(h)(2)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

111. Communication Training (detail) <i>Does the CRM program train controllers on their responsibilities for communication under the operator's emergency response procedures?</i> (CR.CRMTRAIN.COMMUNICATIONTRAINING.P) (detail)						
192.631(h)(3)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

112. Working Knowledge of Pipeline System (detail) <i>Does the training program provide controllers a working knowledge of the pipeline system, especially during the development of abnormal operating conditions?</i> (CR.CRMTRAIN.SYSKNOWLEDGE.P) (detail)						
192.631(h)(4)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

113. List of Infrequently Used Pipeline Setups (detail) <i>Has a list of pipeline operating setups that are periodically (but infrequently) used been established?</i> (CR.CRMTRAIN.INFREQOPLIST.R) (detail)						
192.631(h)(5)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

114. Review of Procedures Prior to Use (detail) <i>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? (CR.CRMTRAIN.INFREQOPSREVIEW.P) (detail)</i>						
192.631(h)(5)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

CRM, SCADA, and Leak Detection - Compliance Validation and Deviations

115. Submittal of Procedures (detail) <i>Are there adequate processes to assure that the operator is responsive to requests from applicable agencies to submit their CRM procedures? (CR.CRMCOMP.SUBMITPROCEDURES.P) (detail)</i>						
192.631(i)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

116. Record of Procedure Submittals (detail) <i>Has the operator been responsive to requests from applicable agencies to submit their CRM procedures? (CR.CRMCOMP.SUBMITPROCEDURES.R) (detail)</i>						
192.631(i)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

117. CRM Coordinator (detail) <i>Is there an individual that is responsible and accountable for compliance with requests from PHMSA or other applicable agencies? (CR.CRMCOMP.CRMCOORDINATOR.R) (detail)</i>						
192.631(i)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

PHMSA Gas Distribution Topical Content - CRM, OQ, OQ Field, Public Awareness (IA Equivalent)
Gas Distribution Inspection Form

118. CRM Records Management (detail) <i>Records management processes adequate to assure records are sufficient to demonstrate compliance with the CRM rule? (CR.CRMCOMP.RECORDS.P) (detail)</i>						
192.631(j)(1)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

119. CRM Records (detail) <i>Are records sufficient to demonstrate compliance with the CRM rule? (CR.CRMCOMP.RECORDS.R) (detail)</i>						
192.631(j)(1)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

120. Electronic Records (detail) <i>Are electronic records properly stored, safeguarded, and readily retrievable? (CR.CRMCOMP.ELECTRONICRECORDS.R) (detail)</i>						
192.631(j)(1)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

121. CRM Deviations (detail) <i>Are there processes to demonstrate and provide a documented record that every deviation from any CRM rule requirement was necessary for safe operation? (CR.CRMCOMP.DEVIATIONS.P) (detail)</i>						
192.631(j)(2)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

122. Deviation Records (detail) <i>Were all deviations documented in a way that demonstrates they were necessary for safe operation? (CR.CRMCOMP.DEVIATION.R) (detail)</i>						
192.631(j)(2)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

Topical Content (OQ, PA, CRM) - Operator Qualification

1. Operator Qualification Plan and Covered Tasks (detail) <i>Is there an OQ plan that includes covered tasks, and the basis used for identifying covered tasks? (TQ.OQ.OQPLAN.P) (detail)</i>						
192.805(a) (192.801(b))	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

2. Reevaluation Intervals for Covered Tasks (detail) <i>Does the process establish and justify requirements for reevaluation intervals for each covered task? (TQ.OQ.REEVALINTERVAL.P) (detail)</i>						
192.805(g)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

3. Contractors Adhering to OQ Plan (detail) <i>Does the process require the OQ plan to be communicated to contractors and ensure that contractors are following the plan? (TQ.OQ.OQPLANCONTRACTOR.P) (detail)</i>						
192.805(b) (192.805(f); 192.805(c))	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

4. Contractor and Other Entity Qualification (detail) <i>Does the process require contractor organizations or other entities that perform covered tasks on behalf of the operator to be qualified? (TQ.OQ.OQCONTRACTOR.P) (detail)</i>						
192.805(b) (192.805(c); 192.855(d); 192.805(e); 192.805(f))	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

5. Contractor and Other Entity Qualification (confirm) <i>Are adequate records maintained for contractor personnel qualifications that contain the required elements? (TQ.OQ.OQCONTRACTOR.R) (confirm)</i>						
192.807(a) (192.807(b))	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

6. Management of Other Entities Performing Covered Tasks (detail) <i>Do records document evaluation of the other entity (ies) performing covered task(s) on behalf of the operator (e.g., through mutual assistance agreements) prior to performing task? (TQ.OQ.OTHERENTITY.R) (detail)</i>						
192.805(b) (192.805(c); 192.803)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

7. Evaluation Methods (detail) <i>Are evaluation methods established and documented appropriate to each covered task? (TQ.OQ.EVALMETHOD.P) (detail)</i>						
192.805(b) (192.803; 192.809(d); 192.809(e))	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

8. Evaluation Methods (confirm) <i>Do records indicate evaluation methods are documented for covered tasks and consistent with personnel qualification records? (TQ.OQ.EVALMETHOD.R) (confirm)</i>						
192.805(b) (192.803; 192.809(d); 192.809(e))	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

9. Abnormal Operating Conditions (detail) <i>Does the process require: 1) individuals performing covered tasks be qualified to recognize and react to abnormal operating conditions (AOCs), 2) evaluation and qualification of individuals for their capability to recognize and react to AOCs, 3) AOCs identified as those that the individual may reasonably anticipate and appropriately react to during the performance of the covered task, and 4) established provisions for communicating AOCs for the purpose of qualifying individuals? (TQ.OQ.ABNORMAL.P) (detail)</i>						
192.803	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

10. Abnormal Operating Conditions (detail) <i>Do records document evaluation of qualified individuals for recognition and reaction to AOCs? (TQ.OQ.ABNORMAL.R) (detail)</i>						
192.807(a) (192.807(b); 192.803)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

11. Qualification Records for Personnel Performing Covered Tasks (confirm) <i>Do records document the evaluation and qualifications of individuals performing covered tasks, and can the qualification of individuals performing covered tasks be verified? (TQ.OQ.RECORDS.R) (confirm)</i>						
192.807	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

12. Planning for Mergers and Acquisitions (Due Diligence re: Acquiring Qualified Individuals) (confirm) <i>Does the process adequately manage qualifications of individuals performing covered tasks during program integration following a merger or acquisition? (TQ.OQ.MERGERACQ.P) (confirm)</i>						
192.805(b) (192.803)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

13. Training Requirements (Initial, Retraining, and Reevaluation) (detail) <i>Does the OQ program provide for initial qualification, retraining and reevaluation of individuals performing covered tasks? (TQ.OQ.TRAINING.P) (detail)</i>						
192.805(h)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

14. Covered Task Performed by Non-Qualified Individual (confirm) <i>Are there provisions for non-qualified individuals to perform covered tasks while being directed and observed by a qualified individual, and are there restrictions and limitations placed on such activities? (TQ.OQ.NONQUALIFIED.P) (confirm)</i>						
192.805(c)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

15. Personnel Performance Monitoring (detail) *Does the program include provisions to evaluate an individual if there is reason to believe the individual is no longer qualified to perform a covered task based on: covered task performance by an individual contributed to an incident or accident; other factors affecting the performance of covered tasks?* (TQ.OQ.PERFMONITOR.P) (detail)

	Sat+	Sat	Concern	Unsat	NA	NC
192.805(d) (192.805(e))						
Notes						

16. Management of Changes (confirm) *Does the OQ program identify how changes to procedures, tools standards and other elements used by individuals in performing covered tasks are communicated to the individuals, including contractor individuals, and how these changes are implemented in the evaluation method(s)?* (TQ.OQ.MOC.P) (confirm)

	Sat+	Sat	Concern	Unsat	NA	NC
192.805(f)						
Notes						

17. Notification of Significant Plan Changes (confirm) *Does the process require significant OQ program changes to be identified and the Administrator or State agency notified?* (TQ.OQ.CHANGENOTIFY.P) (confirm)

	Sat+	Sat	Concern	Unsat	NA	NC
192.805(i)						
Notes						

Topical Content (OQ, PA, CRM) - OQ Field Inspection

1. Covered Task Performance (detail) <i>Verify the qualified individuals performed the observed covered tasks in accordance with the operator's procedures or operator approved contractor procedures. (TQ.PROT9.TASKPERFORMANCE.O) (detail)</i>						
192.801(a) (192.809(a))	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

2. Qualification Status (detail) <i>Verify the individuals performing the observed covered tasks are currently qualified to perform the covered tasks. (TQ.PROT9.QUALIFICATIONSTATUS.O) (detail)</i>						
192.801(a) (192.809(a))	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

3. Abnormal Operating Condition Recognition and Reaction (detail) <i>Verify the individuals performing covered tasks are cognizant of the AOCs that are applicable to the tasks observed. (TQ.PROT9.AOCRECOG.O) (detail)</i>						
192.801(a) (192.809(a))	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

4. Verification of Qualification (detail) <i>Verify the qualification records are current, and ensure the personal identification of all individuals performing covered tasks are checked, prior to task performance. (TQ.PROT9.VERIFYQUAL.O) (detail)</i>						
192.801(a) (192.809(a))	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

5. Program Inspection Deficiencies (detail) <i>Have potential issues identified by the headquarters inspection process been corrected at the operational level? (TQ.PROT9.CORRECTION.O) (detail)</i>						
192.801(a) (192.809(a))	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

Topical Content (OQ, PA, CRM) - Public Awareness Program Effectiveness

1. Public Education Program (detail) <i>Has the continuing public education (awareness) program been established as required? (PD.PA.PROGRAM.P) (detail)</i>						
192.616(a) (192.616(h))	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

2. Management Support of Public Awareness Program (detail) <i>Does the operator's program documentation demonstrate management support? (PD.PA.MGMTSUPPORT.P) (detail)</i>						
192.616(a) (API RP 1162 Section 2.5; API RP 1162 Section 7.1)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

3. Asset Identification (detail) <i>Does the program clearly identify the specific pipeline systems and facilities to be included in the program, along with the unique attributes and characteristics of each? (PD.PA.ASSETS.P) (detail)</i>						
192.616(b) (API RP 1162 Section 2.7 Step 4)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

4. Audience Identification (detail) <i>Does the program establish methods to identify the individual stakeholders in the four affected stakeholder audience groups: (1) affected public, (2) emergency officials, (3) local public officials, and (4) excavators, as well as affected municipalities, school districts, businesses, and residents? (PD.PA.AUDIENCEID.P) (detail)</i>						
192.616(d) (192.616(e); 192.616(f); API RP 1162 Section 2.2; API RP 1162 Section 3)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

5. Audience Identification Records (detail) <i>Do records identify the individual stakeholders in the four affected stakeholder audience groups: (1) affected public, (2) emergency officials, (3) local public officials, and (4) excavators, as well as affected municipalities, school districts, businesses, and residents to which it sends public awareness materials and messages? (PD.PA.AUDIENCEID.R) (detail)</i>						
192.616(d) (192.616(e); 192.616(f); API RP 1162 Section 2.2; API RP 1162 Section 3)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

6. Messages, Delivery Methods, and Frequencies (detail) <i>Does the program define the combination of messages, delivery methods, and delivery frequencies to comprehensively reach all affected stakeholder audiences in all areas where gas is transported? (PD.PA.MESSAGES.P) (detail)</i>						
192.616(c) (API RP 1162 Section 3; API RP 1162 Section 4; API RP 1162 Section 5)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

7. Consideration of Supplemental Enhancements (detail) <i>Were relevant factors considered to determine the need for supplemental public awareness program enhancements for each stakeholder audience, as described in API RP 1162? (PD.PA.SUPPLEMENTAL.P) (detail)</i>						
192.616(c) (API RP 1162 Section 6.2)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

8. Educational Provisions (detail) <i>Did delivered messages specifically include provisions to educate the public, emergency officials, local public officials, and excavators on: (1) Use of a one-call notification system prior to excavation and other damage prevention activities; (2) Possible hazards associated with unintended releases from a gas pipeline facility; (3) Physical indications of a possible release; (4) Steps to be taken for public safety in the event of a gas pipeline release; and (5) Procedures to report such an event? (PD.PA.EDUCATE.R) (detail)</i>						
192.616(d) (192.616(f))	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

9. Messages on Pipeline Facility Locations (detail) <i>Were messages developed and delivered to advise affected municipalities, school districts, businesses, and residents of pipeline facility locations? (PD.PA.LOCATIONMESSAGE.R) (detail)</i>						
192.616(e) (192.616(f))	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

10. Baseline Message Delivery Frequency (detail) <i>Did the delivery of materials and messages meet or exceed the baseline delivery frequencies specified in API RP 1162, Table 2-1 through Table 2.3? (PD.PA.MESSAGEFREQUENCY.R) (detail)</i>						
192.616(c) (API RP 1162 Table 2-1; API RP 1162 Table 2-2; API RP 1162 Table 2-3)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

11. Liaison with Public Officials (detail) <i>(presented above) Do records indicate liaisons established and maintained with appropriate fire, police and other public officials and utility owners in accordance with procedures? (EP.ERG.LIAISON.R) (detail)</i>						
192.605(a) (192.615(c)(1); 192.615(c)(2); 192.615(c)(3); 192.615(c)(4); 192.616(c); ADB-05-03)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

12. Other Languages (detail) <i>Does the program require that materials and messages be provided in other languages commonly understood by a significant number and concentration of non-English speaking populations in the operator's areas? (PD.PA.LANGUAGE.P) (detail)</i>						
192.616(g) (API RP 1162 Section 2.3.1)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

13. Other Languages (detail) (presented above) *Were materials and messages developed and delivered in other languages commonly understood by a significant number and concentration of non-English speaking populations in the operator's areas?* (PD.PA.LANGUAGE.R) (detail)

	Sat+	Sat	Concern	Unsat	NA	NC
192.616(g) (API RP 1162 Section 2.3.1)						
Notes						

14. Evaluation Plan (detail) *Does the program include a process that specifies how program implementation and effectiveness will be periodically evaluated?* (PD.PA.EVALPLAN.P) (detail)

	Sat+	Sat	Concern	Unsat	NA	NC
192.616(i) (192.616(c); API RP 1162 Section 8; API RP 1162 Appendix E)						
Notes						

15. Evaluate Program Implementation (detail) *Has an audit or review of the operator's program implementation been performed annually since the program was developed?* (PD.PA.EVALIMPL.R) (detail)

	Sat+	Sat	Concern	Unsat	NA	NC
192.616(c) (192.616(i); API RP 1162 Section 8.3)						
Notes						

16. Acceptable Methods for Program Implementation Audits (detail) *Was one or more of the three acceptable methods (i.e., internal assessment, 3rd-party contractor review, or regulatory inspections) used to complete the annual audit or review of program implementation?* (PD.PA.AUDITMETHODS.R) (detail)

	Sat+	Sat	Concern	Unsat	NA	NC
192.616(c) (192.616(i); API RP 1162 Section 8.3)						
Notes						

17. Program Changes and Improvements (detail) *Were changes made to improve the program and/or the implementation process based on the results and findings of the annual audit(s)?* (PD.PA.PROGRAMIMPROVE.R) (detail)

	Sat+	Sat	Concern	Unsat	NA	NC
192.616(c) (API RP 1162 Section 8.3)						
Notes						

18. Evaluating Program Effectiveness (detail) (presented above) <i>Have effectiveness evaluation(s) of the program been performed for all stakeholder groups in all notification areas along all systems covered by the program?</i> (PD.PA.EVALEFFECTIVENESS.R) (detail)						
192.616(c) (API RP 1162 Section 8.4)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

19. Measure Program Outreach (detail) <i>In evaluating effectiveness, was actual program outreach for each stakeholder audience tracked?</i> (PD.PA.MEASUREOUTREACH.R) (detail)						
192.616(c) (API RP 1162 Section 8.4.1)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

20. Measure Understandability of Message Content (detail) <i>In evaluating program effectiveness, was the percentage of each stakeholder audience that understood and retained the key information from the messages determined?</i> (PD.PA.MEASUREUNDERSTANDABILITY.R) (detail)						
192.616(c) (API RP 1162 Section 8.4.2)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

21. Measure Desired Stakeholder Behavior (detail) <i>In evaluating program effectiveness, was evaluation made of whether appropriate preventive, response, and mitigative behaviors were understood and likely to be exhibited?</i> (PD.PA.MEASUREBEHAVIOR.R) (detail)						
192.616(c) (API RP 1162 Section 8.4.3)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

22. Measure Bottom-Line Results (detail) <i>Were bottom-line results of the program measured by tracking third-party incidents and consequences including: (1) near misses, (2) excavation damages resulting in pipeline failures, (3) excavation damages that do not result in pipeline failures?</i> (PD.PA.MEASUREBOTTOM.R) (detail)						
192.616(c) (API RP 1162 Section 8.4.4)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

PHMSA Gas Distribution Topical Content - CRM, OQ, OQ Field, Public Awareness (IA Equivalent)
Gas Distribution Inspection Form

23. Program Changes (detail) <i>Were needed changes and/or modifications to the program identified and documented based on the results and findings of the program effectiveness evaluations? (PD.PA.CHANGES.R) (detail)</i>						
192.616(c) (API RP 1162 Section 2.7 (Step 12); API RP 1162 Section 8.5)	Sat+	Sat	Concern	Unsat	NA	NC
Notes						

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