

### Initial CPA Assessment Worksheet

**Objective:** Use this worksheet to determine if a cathodic protection area (CPA) is under adequate cathodic protection and has an adequate "record of each test, survey, or inspection required by this subpar, in sufficient detail to demonstrate the adequacy of corrosion control measures or that a corrosive condition does not exist."<sup>1</sup>

#	Source Document	Reference Paragraph	Steps	Observed or Documented Result	Source of Information	Conclusion	Initials	Date
<b>CPA PERFORMANCE ASSESSMENT</b>								
Review the following questions for the CPA. If the criteria cannot be met and cannot be explained to ensure that the CPA is providing adequate protection, a complete field resurvey may be required to ensure that adequate cathodic protection is being achieved in the CPA. All the below questions need to have a Yes answer or be explained to ensure that the CPA is performing adequately.								
			Does the CPA meet all of the following criteria?					
1	49 CFR 192	192.463 (a)	1. The lowest pipe-to-soil on-potential in the CPA is at least as negative as 850 millivolts with reference to a saturated copper-copper sulfate electrode.	O.K.	PLAT SHEETS	No O.K.	JH. JH.	8-23-10 9/28/10
2	O-16	2.1	2. The number of pipe-to-soil on-potential readings on the most recent saturated pipe-to-soil potential map are a minimum of one per block, or as deemed necessary by the Company corrosion supervisor. <i>Acceptable correction without a full resurvey: Take extra pipe-to-soil readings at the end of the system or as needed.</i>	O.K.	PLAT SHEETS	O.K.	JH.	9/28/10
3	Gas compliance review	4.5	3. All pipe-to-soil potentials of routine bimonthly monitoring points in the CPA are within +/- 200 millivolts of their readings of the last resurvey date as measured on a similar month-to-month basis (e.g., compare winter readings with winter readings, summer readings with summer readings).	REVIEWED P/S SHEET	FILE FOLDER	O.K.	JH.	9/28/10
4	Suggested Company Best Management Practice		4. External corrosion leakage (as measured by corrosion leak repairs per mile of protected main and services per year) has not exceeded one leak per mile per year. If the leakage rate has exceeded one leak per mile per year, this does not dictate that a long resurvey needs to be conducted, just that the Gas Operations engineer or a Gas Distribution engineer needs to critically review and evaluate this data. It may be determined that no additional field work is required. A pipe replacement project may be planned that will resolve the situation and make a long resurvey of little or no value.	0.2 LEAKS PER MILE	IG'S REPORT 8-1-04 TO 8-16-10	O.K.	JH.	9/28/10

<sup>1</sup> From US Federal Code, Section 49 CFR 192.491 (c)

### Initial CPA Assessment Worksheet, *Continued*

#	Source Document	Reference Paragraph	Steps	Observed or Documented Result	Source of Information	Conclusion	Initials	Date
<b>GAS FACILITIES DOCUMENT REVIEW</b>								
Review the following questions for the CPA. If the related gas facilities documents for the CPA indicate changes to the CPA that are likely to significantly affect the CPA since the last assessment/review which have not been addressed to ensure the CPA is protecting all pipe, then a complete or partial field resurvey may be required to ensure that adequate cathodic protection is being achieved in the CPA.								
			Does the CPA meet all of the following conditions?					
5	O-16	7	5. Does a review of the most recent plat sheets for the CPA indicate no jobs involving main installations, deactivations, or replacements occurring in the time period since the last CPA resurvey of the area that would likely affect the CP levels within the CPA? (Ensure all current requirement changes caused by plastic main installations are accounted for and take pipe-to-soil on-potential readings on potentially isolated sections of steel.)  A copy of a tangible property line (TPL) based report by year supplies a listing of steel installation and deactivation jobs by plat. Research the jobs to see if they were within the CPA.	O.K.	PLAT SHEETS	O.K.	JH.	9/28/10
6	O-16	7	6. Does a review of the external corrosion leak records in the CPA indicate that no significant external corrosion levels exist? (Retain a copy of the leak data report for the previous 6 years in the CPA file.)	O.K.	Leak REPORT.	O.K.	JH.	9/28/10
<b>COMPANY MANAGEMENT REVIEW AND APPROVAL</b>								
7	O-16		7. Does the Company corrosion supervisor or the Gas Distribution and Technical Services (GD&TS) construction specialist concur with this assessment? Indicate if the CPA needs to be field resurveyed. Use the "CPA Field Resurvey Checklist" (Attachment 2) to help conduct the field resurvey. If the "Initial CPA Assessment Worksheet" or subsequent CPA assessment indicates that the CPA is providing adequate levels of cathodic protection, conduct a CPA file review using Form F4133-02-3, "CPA Resurvey File Review Form" (Attachment 3).	Reviewed Permanent File	Permanent File	Yes	JH	9/15/12
Comments: (Include any comments about work performed, observations, and things to check in the next assessment/resurvey.)								