| FOR IMMEDIATE RELEA | SE Bulletin Number: 328 Date; 5/6/10 |
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| Pacific Gas and Electric Company | Gas Transmission & Distribution Information Bulletin |
| Requireme Gas Pipelir | ered Document O-16, Clarification of nts for Overprotection of Cathodically Protected nes |
| Check all appropriate boxes SAFETY ALERT MANDATORY COMPLIANCE RECOMMENDED ACTIONS INFORMATIONAL/CLARIFICATION | ∑ GAS ∑ DISTRIBUTION ☐ SUBSTATION ENGR. ☐ ELECTRIC ∑ TRANSMISSION ☐ TRANS./SUB. M&C ☐ ESTIMATING ☐ OPERATIONS ☐ APPLICANT DESIGNER / CONSTRUCTION |
| Purpose | |
| This bulletin clarifies the required "Overprotection" of cathodical | irements of Gas Numbered Document O-16 regarding the Ily protected gas pipelines. |
| | nbered document O-16, General Information Note 3; Cathodic Operation, Subpart A; Cathodic Protection Criteria, Item (3); |
| Communication Plan | |
| The information contained in along with other revisions to l | this bulletin will be included in Gas Numbered Document O-16, be published in 2010. |
| regarding the contents of this | rs and District Gas Maintenance Supervisors will provide training bulletin to all employees who perform cathodic protection stribution and gas transmission pipelines. |
| Impacted classifications inclumechanics and operator med | de corrosion mechanics, gas control technicians, transmission hanics. |
| An e-mail will be sent to all D Supervisors to communicate | ivision Gas T&R Supervisors and District Gas Maintenance this bulletin. |
| Policy on Overprotection | of Cathodically Protected Gas Pipelines |
| of cathodic protection system pipelines must be controlled, the pipe-to-soil potential of ca | ibility that gas pipeline coatings will be damaged by the operation is, the pipe-to-soil potentials of gas distribution and transmission. Except for the situations described in the 2 paragraphs below, athodically protected pipelines with impressed cathodic protection should not be more electronegative than -1600 Mv. |
| | distribution piping protected by galvanic anodes, referred to as in Gas Numbered Document O-16, may be maintained at pipe-to-egative than -1600 Mv. |

Policy on Overprotection of Cathodically Protected Gas Pipelines (continued)

The pipe-to-soil potential of a gas pipeline may be maintained at a pipe-to-soil potential more negative than -1600 mV, with impressed cathodic protection current applied (rectifier on), if an instant-off test is performed and the test demonstrates that the IR drop free pipe-to-soil potential of the pipeline is equal to, or more electro-positive than, -1200 Mv. An example of where this may be applicable is at a pipe-to-soil monitoring point near a rectifier.

When impressed cathodic protection current applied (rectifier on), and pipe-to-soil potentials more electro-negative than -1600 mV are discovered, employees should take appropriate steps to correct the condition within a reasonable amount of time. Normally, this will mean adjusting nearby rectifiers to reduce the rectifier on pipe-to-soil potentials to be more electro-positive than -1600 Mv. If it is suspected that excessively negative pipe-to-soil potentials are the result of interference from foreign cathodic protection systems, the Corrosion Engineering group must be contacted.

| .Approved by: |
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| Date: 5/6/10 |
| Author: |
| If you have any questions about this bulletin, please call the employee(s) listed below: |
| Contact(s): LAN ID(s): Phone(s): |
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