



Title: Limitation on GMAW Welding of Gas Transmission Piping

Check all appropriate boxes

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| <input type="checkbox"/> SAFETY ALERT | <input checked="" type="checkbox"/> GAS | <input type="checkbox"/> DISTRIBUTION | <input type="checkbox"/> SUBSTATION ENGR. |
| <input checked="" type="checkbox"/> MANDATORY COMPLIANCE | <input type="checkbox"/> ELECTRIC | <input checked="" type="checkbox"/> TRANSMISSION | <input type="checkbox"/> TRANS./SUB. M&C |
| <input type="checkbox"/> RECOMMENDED ACTIONS | <input type="checkbox"/> ESTIMATING | <input checked="" type="checkbox"/> OPERATIONS | <input type="checkbox"/> APPLICANT DESIGNER / |
| <input type="checkbox"/> INFORMATIONAL/CLARIFICATION | <input type="checkbox"/> MAPPING | <input type="checkbox"/> SERVICE | <input type="checkbox"/> CONSTRUCTION |

Purpose:

Effective immediately, this bulletin prohibits the use of Gas Metal Arc Welding (GMAW) on certain gas transmission applications. GMAW is also referred to as wire welding.

GMAW shall not be used on transmission fillet welds, sleeves or pressure control fittings.

Ultrasonic and destructive testing have revealed low level, lack-of-fusion problems on fillet welds that demonstrate that the process is inappropriate for use, except as specified below.

GMAW is approved for the following applications:

- Butt-welding transmission pipe,
- Butt-welding Fittings (Gas numbered document B-20 entitled "Steel Butt-Welding Fittings)
- Distribution mains, services and metering (60 psig and less).

This bulletin affects Gas Numbered Documents D-22 entitled "ARC WELDING PROCEDURE REQUIREMENT ALL STRESS LEVELS" and D-23 entitled "IN-SERVICE WELDING". This information will be incorporated into the next revision of these documents.

There are some situations, such as In-Service Welding on thin wall piping, that GMAW is the best alternative for welding. To use GMAW, a weld engineer will determine the suitable weld procedure and testing procedures. Additionally, a Manager in Gas Design & Planning must authorize a variance to this bulletin for the specific application.

PG&E has experienced no field failures to date. If failures on previously welded pipes are found, please report them to [REDACTED] and submit a Material Problem Report (MPR) in accordance with UO Standard S2333 entitled "Material Problem Reporting".

Communication Plan:

An Email will be sent to GT&D Engineering and Project Management employees, GC Area Superintendents, Division Gas Distribution Supervisors, and Gas Transmission Maintenance Supervisors.

Approved by: [REDACTED]

Date: 11/04/09

Author: [REDACTED]

If you have any questions about this bulletin, please call the employee(s) listed below:

- | | | | |
|-------------|------------|------------|------------|
| Contact(s): | [REDACTED] | [REDACTED] | [REDACTED] |
| LAN ID(s): | [REDACTED] | [REDACTED] | [REDACTED] |
| Phone(s): | [REDACTED] | [REDACTED] | [REDACTED] |

