

Jerome T. Schmitz, P.E., Vice President, Engineering Staff

November 22, 2023

Via Email

Mr. Terence Eng, P.E.
Program Manager
State of California Public Utilities Commission
Gas Safety and Reliability Branch
Safety and Enforcement Division
505 Van Ness Avenue
San Francisco, CA 94102-3298

RE: GO 112-F Transmission Integrity Management Program – Procedures Updates (TIMP-PU) inspection of Southwest Gas Corporation's Needles Natural Gas Transmission District, September 6-8, 2023

Dear Mr. Eng,

Southwest Gas Corporation (Southwest Gas or Company) respectfully submits the enclosed response to the Summary of Inspection Findings of SED's inspection of the Transmission Integrity Management Program – Procedures Updates (TIMP-PU) on September 6-8, 2023, including field inspections of Southwest Gas's transmission facilities in its Southern California Division.

Southwest Gas appreciates Staff's consideration of this matter. Please do not hesitate to contact me if there are any questions or concerns.

Sincerely,

Jerome T. Schmitz, P.E.

Vice President, Engineering Staff

cc: Kevin Lang
Shane Thacker
Paul Gustilo
Valerie Ontiveroz

Mahmoud (Steve) Intably, CPUC Claudia Almengor, CPUC Randy Holter, CPUC Kan-Wai Tong, CPUC



# **Post-Inspection Written Preliminary Findings**

**Date of Transmittal:** 10/26/2023

**Dates of Inspection:** 9/06/23 - 9/08/23

**Operator:** SOUTHWEST GAS CORPORATION

**Operator ID:** 18536 (primary)

**Inspection Systems:** Needles Transmission District – Updated and Related Procedures

Assets (Unit IDs) with results in this report: Needles District (87484)

**System Type:** GT

**Inspection Name:** Southwest Gas - TIMP Updates 2023

Lead Inspector: Randy Holter

**Operator Representative:** Laurie Brown

### Concerns

**Design and Construction: Construction Welding Procedures (DC.WELDPROCEDURE)** 

1. Question Welding Procedures - Welder Qualification,

Title, ID DC.WELDPROCEDURE.WELDERQUAL.P

Question 4. Do the written specifications require welders to be qualified in

accordance with applicable sections of API Standard 1104 or ASME BPVC, Section IX and cover the limitations in §192.229?

References 192.227 (192.225, 192.229)

Assets Covered SWG - Transmission (88674 (98))

Issue Summary SED reviewed SWG Operations Manual, Steel Welding Procedure,

Part 1 General, Section 1.1 Welding Requirements - General, and

found that Section 1.1.3 states:



" Only qualified welders may do welding on carrier pipe and fittings",

Title 49 CFR, Title 49 CFR, Part 192, §192.225(a) states in part:

"Welding must be performed by a qualified welder or welding operator...",

Title 49 CFR, Title 49 CFR, Part 192, §192.227(a) states in part:

"...each welder or welding operator must be qualified in accordance with section 6, section 12, Appendix A or Appendix B of API [Standard] 1104..., or section IX of the ASME Boiler and Pressure Vessel Code (ASME BPVC)."

Title 49 CFR, Title 49 CFR, Part 192, §192.229 Limitations on welders and welding operators, states:

- (a) No welder or welding operator whose qualification is based on nondestructive testing may weld compressor station pipe and components.
- (b) A welder or welding operator may not weld with a particular welding process unless, within the preceding 6 calendar months, the welder or welding operator was engaged in welding with that process. Alternatively, welders or welding operators may demonstrate they have engaged in a specific welding process if they have performed a weld with that process that was tested and found acceptable under section 6, 9, 12, or Appendix A of API Std 1104 (incorporated by reference, see § 192.7) within the preceding 71/2 months.
- (c) A welder or welding operator qualified under § 192.227(a)
  - (1) May not weld on pipe to be operated at a pressure that produces a hoop stress of 20 percent or more of SMYS unless within the preceding 6 calendar months the welder or welding operator has had one weld tested and found acceptable under either section 6, section 9, section 12, or Appendix A of API Std 1104 (incorporated by reference, see § 192.7). Alternatively, welders or welding operators



- may maintain an ongoing qualification status by performing welds tested and found acceptable under the above acceptance criteria at least twice each calendar year, but at intervals not exceeding 71/2 months. A welder or welding operator qualified under an earlier edition of a standard listed in § 192.7 of this part may weld, but may not re-qualify under that earlier edition; and,
- (2) May not weld on pipe to be operated at a pressure that produces a hoop stress of less than 20 percent of SMYS unless the welder or welding operator is tested in accordance with paragraph (c)(1) of this section or re-qualifies under paragraph (d)(1) or (d)(2) of this section.
- (d) A welder or welding operator qualified under § 192.227(b) may not weld unless -
  - (1) Within the preceding 15 calendar months, but at least once each calendar year, the welder or welding operator has re-qualified under § 192.227(b); or
  - (2) Within the preceding 71/2 calendar months, but at least twice each calendar year, the welder or welding operator has had -
    - (i) A production weld cut out, tested, and found acceptable in accordance with the qualifying test; or
    - (ii) For a welder who works only on service lines 2 inches (51 millimeters) or smaller in diameter, the welder has had two sample welds tested and found acceptable in accordance with the test in section III of Appendix C of this part.

SED recommends that SWG revise its Operations Manual, Steel Welding Procedure, to address the requirements for:

- Welders to be qualified in accordance with applicable sections of API Standard 1104 or ASME BPVC, Section IX, per Title 49 CFR, Title 49 CFR, Part 192, §192.227.
- Limitations on welders and welding operators, per Title 49 CFR, Title 49 CFR, Part 192, §192.229.



#### Southwest Gas Response:

Southwest Gas acknowledges SED's recommendation and will revise its Operations Manual by end of second quarter 2024.

#### Assessment and Repair: Repair Methods and Practices (AR.RMP)

2. Question Transmission Lines Testing of Repairs,

Title, ID AR.RMP.WELDTEST.P

Question 23. Is the process adequate for the testing of replacement pipe and

repairs made by welding on transmission lines?

References 192.605(b) (192.719(a), 192.719(b))

Assets Covered SWG - Transmission (88674 (98))

Issue Summary SED reviewed SWG Operations Manual, Steel Welding

Procedure, Part 4 Repairs, Section 4.7.1 which states:

"Weld defects shall be remediated by one of the following methods:

- Cut out as a cylindrical section,
- Full encirclement canopy or rigid steel sleeve,
- Repair the weld defect per API 1104."

Title 49 CFR, Part 192, §192.719(a) states:

"Testing of replacement pipe. If a segment of transmission line is repaired by cutting out the damaged portion of the pipe as a cylinder, the replacement pipe must be tested to the pressure required for a new line installed in the same location. This test may be made on the pipe before it is installed."

SWG Operations Manual, Steel Welding Procedure, Part 4 Repairs, Section 4.7.1 failed to address that the newly installed cylindrical section must be tested to the pressure required for a new line installed in the same location. Therefore, SED recommends that SWG revise its Operations Manual, Steel Welding Procedure to ensure compliance with Title 49 CFR, Part 192, §192.719(a).



## Southwest Gas Response:

Southwest Gas acknowledges SED's recommendation; however, believes that its procedures already include the requirements of Title 49 CFR, Part 192, §192.719(a). Southwest Gas respectively directs SED to the Company's Operations Manual, Steel Welding Policy, Section 1.1.5, and Pipe and Component Testing Procedure, Sections 1.4 and 1.11, which are attached as reference.