



ISSUING DEPARTMENT: **GSM&TS**  
UO SPONSOR: **VP - CGT**

EFFECTIVE DATE: **04-04**  
REVIEW DATE: **04-09**  
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**TITLE: Gas Transmission Operating Maps and Operating Diagrams**

- Purpose** The purpose of this document is to provide a standard for maintaining accurate California Gas Transmission (CGT) operating maps and operating diagrams, which will ensure the safe and reliable operation of gas transmission facilities.
- This standard covers the requirements and responsibilities relating to preparing operating maps and diagrams. This standard does not cover plat sheets, wall maps, or construction drawings.
- Revision** This UO standard replaces and supersedes CGT Standard 4460, "Operating Maps and Operating Diagrams," effective January 1998.
- Safety** Inaccurate operating maps or operating diagrams can result in improper operation of CGT gas facilities, which may jeopardize employee and public safety, as well as gas transmission reliability.
- In addition, natural gas accidents could result from inaccurate map and diagram information, which would subject Pacific Gas and Electric Company (the Company) to regulatory violations and subsequent fines.
- Implementation Responsibilities** The vice president (VP) of CGT is responsible for approving, distributing, and revising this standard.
- The VP delegates authority to the director of Gas System Maintenance and Technical Support (GSM&TS) to revise and reissue attachments to this standard.
- The Mapping section of GSM&TS shall create, update, and maintain the electronic files of operating maps and operating diagrams, and issue same to persons on its distribution list.
- Compliance** Area and district superintendents and pipeline and facility engineers shall be responsible for ensuring that their assigned copies of the operating maps and operating diagrams are updated and accurate.
- Transmission operating maps and operating diagrams are classified as "PG&E Confidential Data" and must be encrypted when stored on a local hard drive and/or removable media (diskette, CD, etc.) per ISTS Utility Procedure 3, "Protecting Electronic Confidential Information." This is especially important when confidential Company documents are stored on laptops for use in the field, where the opportunity for theft or loss is greater.

- Definition of Terms**
- CGT-Owned Gas Facilities:** Have a maximum operating pressure greater than 60 psig, and include most facilities that supply other gas utilities, regardless of delivery pressure. All stations that regulate at 60 psig or less, and the regulation and metering facilities directly feeding distribution customers, regardless of delivery pressure, are owned by distribution. Based on the present Memorandum of Understanding (MOU) between distribution and CGT, there are certain facilities that supply other gas utilities owned by distribution.
- CGT-Owned Gas Pipelines:** All natural gas pipelines that operate over 60 psig. These pipelines include transmission lines, underground storage and gathering lines, distribution feeder mains (DFM), and other gas lines.
- Operating Diagrams:** Schematic drawings of CGT's facilities. They show all gas lines entering and leaving the facility. The schematic depicts, to the extent feasible, the actual physical layout of the piping, and includes valves, regulators, meters, compressors, filters, dehydrators, separators, and SCADA points.
- Operating Maps:** Schematic drawings showing the relative location and relationships between CGT's gas transmission lines and distribution feeder mains. In addition, the operating maps include mainline valves, taps, cross-ties, and references to operating diagrams that are in depicted CGT facilities.
- Project Manager:** Represents a function in this document, and could refer to an individual whose classification may actually be representative of Project Engineering, district or division employees, or GC employees.

**Contact for Further Information**

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**Date Issued/Updated**

*Effective:* April 2004

*Review Date:* April 2009

Signed,

Michael A. Katz  
Vice President  
California Gas Transmission

**Reference Documents** CGT Recommended Practice RP 4460.1, "Operating Maps and Operating Diagrams, Preparation of"

**Attachments** Attachment 1, "Requirements and Procedures"