

BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

Order Instituting Rulemaking to Establish Policies,
Processes, and Rules to Ensure Safe and Reliable
Gas Systems in California and Perform Long-Term
Gas System Planning.

Rulemaking 24-09-012
(Filed September 26, 2024)

**COMPLIANCE SUBMISSION OF SOUTHWEST GAS CORPORATION (U 905 G)
ON ASSIGNED COMMISSIONER'S RULING ISSUING SENATE BILL 1221
MAPPING DIRECTIONS TO UTILITIES**

Vincent J. Vitatoe, Esq.
Associate General Counsel
8360 South Durango Drive
P.O. Box 98510
Las Vegas, Nevada 89113
Telephone No. 702.364.3287
Facsimile No. 702.252.7283
vincent.vitatoe@swgas.com

Attorney for Southwest Gas Corporation

Dated: July 1, 2025

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Order Instituting Rulemaking to Establish Policies, Processes, and Rules to Ensure Safe and Reliable Gas Systems in California and Perform Long-Term Gas System Planning.

Rulemaking 24-09-012
(Filed January 16, 2020)

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ON ASSIGNED COMMISSIONER’S RULING ISSUING SENATE BILL 1221
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Pursuant to Assigned Commissioner Karen Douglas’ April 18, 2025, Ruling revising the requirements gas utilities must follow when submitting their maps to the Commission by July 1, 2025, pursuant to Public Utilities (Pub. Util.) Code Section 661(a), Southwest Gas Corporation (Southwest Gas) hereby submits its maps in compliance with the Ruling.

SB 1221 MAPPING REQUIREMENTS

- **SB 1221 initial public SB 1221 map dedicated webpage URL:**

<https://sb1221-swgas.hub.arcgis.com/>

- **User Guide:**

The SB 1221 Web Application User Guide for Southwest Gas is attached as Attachment A hereto.

- **Data Facilitator (Southwest Gas)**

Phone: +1 702-364-3082

Email: GISadmin@swgas.com

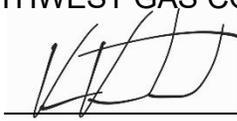
- **Directions to receive a copy of the complete data sets (Southwest Gas):**

Click on the data icon with the stack of disks to expand it. In the expanded window click on the stacked disk icon, you will be redirected to a URL where the Public 1221 FGDB is housed. On the right-hand side, under the overview tab, a download option is available. Once the download option is clicked, the browser will download the data into a .zip file. When the download is complete the contents of the data may be accessed by unzipping the .gdb folder. GIS software that supports Esri’s FGDB format is required to consume the data.

DATED this 1st day of July, 2025.

Respectfully submitted,
SOUTHWEST GAS CORPORATION

By: _____



Vincent J. Vitatoe, Esq.
Associate General Counsel
8360 South Durango Drive
P.O. Box 98510
Las Vegas, Nevada 89113
Telephone No. 702.364.3287
Facsimile No. 702.252.7283
vincent.vitatoe@swgas.com
Attorney for Southwest Gas Corporation

ATTACHMENT A



SOUTHWEST GAS CORPORATION



**Senate Bill 1221 Web Application
User Guide**

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Description and Purpose of Application

Pursuant to California Senate Bill (SB) 1221, the California Public Utilities Commission (CPUC) requires each gas corporation, on or before July 1, 2025, and annually thereafter to provide ten years of proposed replacement activity overlaid in a web mapping application. The information provided includes the location of all potential and foreseeable gas distribution replacement projects for the next ten years; jurisdictional boundaries, including tribal, and census tracts; and disadvantaged community information. The CPUC intends for this application to provide an avenue for public utilities, regulators, and community stakeholders to:

1. View planned natural gas pipeline replacement projects
2. Recognize how these replacement projects influence disadvantaged communities. The web mapping application is an interactive GIS- based tool that allows users to do the following:
 - Search in the State of California for natural gas infrastructure and potential and foreseeable gas distribution replacement projects for the next ten years.
 - Highlight disadvantaged communities as defined by the CalEnviroScreen and other state tools.
 - Overlay census boundaries, environmental data, and infrastructure data to understand how these infrastructures impact certain communities.

To view the web application, visit the [SB 1221 ArcGIS hub](#). This document provides guidance on how to interact with the web application.

Using the Application

When you first open the application, you will see:

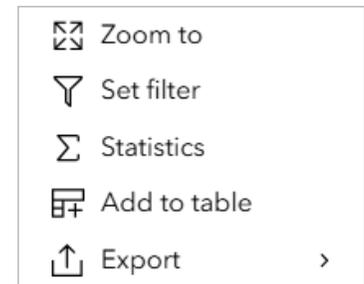
Top Bar (Header)

- **Search bar:** In the top center, there is a search box labeled “**Find address or place.**” You can use this functionality to search for a specific location using a street address.



- **Toolbar:** On the left-hand side of your screen, you will see a list of all the available layers. Next to these layers, is a group of icons for tools and views. The check box next to each layer is used to toggle the visibility of the layer off and on. The three dots icon (. . .) is used to show more tools and functionalities. The following tools are available:

- Zoom to:** Zooms the map view to the geographical extent of the layer.
- Set Filter:** Allows the user to limit data that is displayed based on certain attributes.
- Statistics:** Used to generate summary statistics, e.g., counts and averages.
- Add to table:** Adds the layer’s attribute information to the attribute table viewer located at the bottom of the web app.
- Export:** Allows the user to export the data in CSV format.



Map View (Main Canvas)

The central part of the screen shows an interactive map with a view of California and other surrounding states. The Gas Service Area polygons show service areas of gas utilities in California. Major terrain features, cities, and highways are also visible and available to the user.

Layer Panel (Left Sidebar)

On the left-hand side is the Layer list where the user can toggle different datasets on or off. This controls what you may view on the map at any given time. The visible layers on the map include:

- **Jurisdictional Boundaries and Census Tracts**
 - **Gas Service Areas:** Boundaries defining the service areas of the gas utilities serving California. Southwest Gas' service area is defined in its currently effective tariff approved by the CPUC. Southwest Gas' tariff maps may be found here: <https://www.swgas.com/en/california-rates-and-regulation>
 - **Census Tract ID # (2010):** Boundaries defining census tracts in California. DAC boundaries have been intersected with these features to show which 2010 census tracts contain DACs.
 - **Census Tract ID # (2020):** Boundaries defining census tract in California.
 - **Federally Recognized Tribal Land:** Boundaries defining tribal lands in California [OEHHA](#).
 - **County:** Boundaries defining counties in California. For additional details, refer to the [ESRI Living Atlas](#).
 - **City:** Boundaries defining cities in California. For additional details, refer to the [ESRI Living Atlas](#).
- **Foreseeable and Potential Gas Distribution Pipeline Replacement Project:** Displays where Southwest Gas infrastructure is expected to be replaced over the next 10 years.
- **Disadvantaged Communities:** Identified by the California Environmental Protection Agency (CalEPA) based on scores from CalEnviroScreen, a statewide environmental health screening tool. For additional details, refer to the Office of Environmental Health Hazard Assessment ([OEHHA](#)).
- **SCE ICA Layers**
 - **ICA_Layer – SCE Service Territory:** Southern California Edison's generation and service territory area information.
 - **ICA_Layer - Transmission Circuits:** Southern California Edison's overall information and location of all Transmission circuits.
 - **ICA_Layer - RAM Circuits:** Southern California Edison's detailed generation, projected load, and location of all distribution circuits.
 - **ICA_Layer – ICA - Circuit Segments Non-3 Phase:** Southern California Edison's overall information and location for all non-3 phase distribution circuits.
 - **ICA_Layer - ICA - Circuit Segments:** Southern California Edison's detailed information and location to show how much Distributed Energy resources and load capacity can be connected at each 3- phase segment of a circuit.

- **ICA_Layer – ICA - Unavailable Circuit Segments:** Southern California Edison detailed information and current statuses of temporarily unavailable circuits on the ICA layer.
- **ICA_Layer – Substations:** Southern California Edison overall information for all distribution substations.

For more information about the ICA layers from Southern California Edison, refer to SCE’s [Story map](#).

Toolbar (top right sidebar)

On the top right corner of the application, there are four square icons, which include Select, Legend, Map layers and the Basemap Gallery:

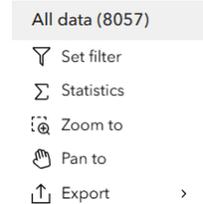
- **Select:** This tool allows users to choose and filter geographic features on the map based on specific layers and other criteria. This is useful for customizing data extractions. This how this tool is to be used:
 1. Click on the pointer icon.
 2. Use the checkboxes to select which layers you would want to extract data from.
 3. Apply the attributes using the dropdown to filter by fields. e.g., City, County.
 4. Use the actions next to the layer to either zoom, view, or export the data.
- **Legend:** Displays the map legend and gives more information about the symbology (colors, styles) used in the map layers. See the image attached below.
- **Map Layers:** In addition to having the Layer list on the left-hand side of the application, map layers are housed in this widget. Map layers operate in the same manner, allowing the user to toggle the different datasets on or off.
- **Basemap Gallery:** Gives the user the option to change the current underlying map style. e.g., satellite view, streets, or topographic.



Attribute Table (bottom of the screen)

At the bottom of the map, there is a small upward arrow. Clicking on this arrow expands the **Attribute Table**. The table allows you to visualize, sort, filter, and interact with the data in the map. Each row represents a geographic feature, and each column represents an attribute or piece of information about that feature. The attribute table also allows the user to select features by clicking on a row to highlight one or more features. The table may be collapsed by clicking on the downward arrow. The attribute table may be resized by clicking the horizontal line below the downward arrow then dragging the line up or down. At the top right corner of the attribute table are five functions, which include:

- **Show Section:** Displays on the records you have actively selected on the map or within the table.
- **Clear Selection:** Used to clear the records you currently have selected on the map or within the table.
- **Show and Hide Columns:** Opens a column visibility panel which allows you to show or hide attribute fields in the table.
- **Filter by Map Connected Extent:** Displays only the records that fall within the current visible area of the map.
- **Actions:** Located on the far right, opens a dropdown menu that will allow users to perform several options on the layer that is selected. They include Set Filter, Zoom to, Pan to, Statistics and Export.



Data Extraction

There are three ways of extracting data from the web application. Depending on your needs you may choose one of these methods:

Exporting via the Layer Options Menu

This is the most common method of data extraction. Follow these steps to download data from the map.

1. From the **Layer** List on the left panel, locate the data layer of interest.
2. Click the three dots (. . .) next to the layer name.
3. Select **“Export”** from the drop-down menu.
4. Choose the format you want the data to be in, e.g., CSV or JSON.

View and Export from Attribute Table

This method is used to preview the data before extraction. Follow these steps:

1. Click on the three dots next to a layer.
2. Click “Add to table.”
3. With the attribute table open at the bottom of the screen, use any filter or sorting.
4. Use the export icon within the table or layer menu to save the data.

File Geodatabase Extraction Tool



This method allows the entire dataset to be downloaded into a file geodatabase format. Click on the data icon with the stack of disks to expand it. In the expanded window click on the stacked disk icon, you will be redirected to a URL where the Public 1221 FGDB is housed. On the right-hand side, under the overview tab, a download option is available. Once the download option is clicked, the browser will download the data into a .zip file. When the download is complete the contents of the data may be accessed by unzipping the zipped file to expose the .gdb folder. GIS software that supports Esri’s FGDB format is required to consume the data.

Contact Information

For any questions or concerns regarding the use of the SB 1221 Web application contact us at GISAdmin@swgas.com.

Appendix A – Attribute Definitions

The attributes in the web application for the **Gas Service Areas** layer is:

1. **SQUARE MILES:** The total area of the Gas Utility Service Area.

The attributes in the web application for the **Census Tract ID # (2010)** layer are:

1. **COUNTY:** Geographic and administrative subdivision of a state functioning as a local government.
2. **COUNTY FIP:** 3-digit FIPS code for the County.
3. **DAC:** Disadvantaged Area Community
4. **DAC_CATEGORY:** Disadvantaged Area Category to denote classification level.
5. **NAME:** The tract name used in maps and tables.
6. **STATE FIP:** 2-digit FIPS code for the State.
7. **ZIP:** Zone of Improvement, postal code system used by the United States Postal Service (USPS) to identify geographic regions.

The attributes in the web application for the **Census Tract ID # (2020)** layer are:

1. **NAME:** Name Legal/Statistical Area Description. Combines the readable label and its official description.
2. **LAND AREA:** Land area in square meters.
3. **WATER AREA:** Water area in square meters.

The attribute in the web application for the **Federal Recognized Tribal Land** layer is:

1. **NAME:** Refers to the name of the Federal Recognized Tribal Land.

The attribute in the web map application for the **County** layer are:

1. **NAME:** Includes the name of the respective county.
2. **STATE FIP:** Federal Information Processing Standards unique numeric code used to identify states within the United States.
3. **FIPS:** Federal Information Processing Standards numeric unique code that is an aggregation of the State and County FIPS.
4. **SQUARE MILES:** An area of a square that is one mile long on each side of the pipeline.
5. **POPULATION:** The number of people living in an area.
6. **POPULATION SQUARE MILES:** It is the number of people living in a region divided by the area.
7. **COUNTY FIP:** Federal Information Processing Standards unique numeric code used to identify counties within the United States.

The attributes in the web application for the **Cities** layer are:

1. **NAME:** The name of the city.
2. **STATE:** The name of the respective State.
3. **LAND AREA:** The area of land within the city.
4. **WATER AREA:** The area of water within the city.
5. **FUNCTIONAL STATUS:** Functional Status defines the current functional status of a geographical entity.
6. **LSADC:** Legal Statistical Area Description Code

The attributes in the web application for the **Foreseeable and Potential Gas Distribution Pipeline Replacement Project** layer are:

1. **PROGRAM NAME:** The name of the specific Foreseeable Replacement Gas program.
2. **GRC BUDGET CODE:** General rate case budget code to be filed with the CPUC.
3. **TARGET MATERIALS:** Pipe material to be replaced.
4. **REPLACEMENT YEAR:** Year in which the gas infrastructure is being replaced.
5. **DIMP:** Distribution Integrity Management Program.
6. **LENGTH:** Measured length of pipeline to be replaced in feet.
7. **UTILITY:** The name of the Utility company.

The attributes in the web application for the **Disadvantaged Communities** layer are:

1. **Tribe Name:** The name of the Disadvantaged Community.
2. **COUNTY:** The name of the county in which the Disadvantaged Community is found in.
3. **DAC CATEGORY:** Disadvantaged Community Area Category to denote classification level.
4. **ZIP:** Zone of Improvement, postal code system used by the United States Postal Service (USPS) to identify geographic regions
5. **COUNTY FIP:** Federal Information Processing Standards unique numeric code used to identify counties within the United States
6. **NAME:** The name of the Disadvantaged Community.
7. **STATE FIP:** Federal Information Processing Standards unique numeric code used to identify states within the United States

Appendix B - Acronyms

1. **SCE:** Southern California Edison Company.
2. **SDG&E:** San Diego Gas & Electric Company.
3. **SoCalGas:** Southern California Gas Company.
4. **PG&E:** Pacific Gas and Electric Company.
5. **HPVSP:** High Pressure Vintage Steel Pipe installed before 1961.
6. **VSP:** Vintage Steel Pipe installed before 1961.
7. **ISSAP:** Inactive Service Stub Abandonment Project.
8. **M7000:** (PE 3406) pipe manufactured between 1974 and 1980.
9. **M8000:** (PE 3408) pipe manufactured between 1981 and 1999.