

**Pacific Gas and Electric Company**



**California Gas Transmission**

**OFO Report**

**Second Quarter 2014**

(April -- June, 2014)

# OFO Report: Second Quarter 2014

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**I. BACKGROUND**

PG&E is providing this Operational Flow Order (OFO) Report as specified in its OFO Settlement Agreement<sup>1</sup> and as part of its continued commitment to keep the California natural gas market participants informed. This Report covers April 1 through June 30, 2014. The OFO Report documents “the number and causes of each customer-specific and system-wide OFO, EFO and ‘trimming’ occasion (‘Event’) within the prior three months.”<sup>2</sup>

The OFO Settlement has been in effect since April 1, 2000. As demonstrated in the previous quarterly reports, this Settlement has generally been successful in reducing the market impacts of OFOs. This, and future, quarterly reports will focus on providing the data specified in the Settlement. Background information and discussion on the OFO process is available from the Pipe Ranger web site, located on the Internet at <http://pge.com/pipeline/library/>.

**II. OFO EVENTS DURING THE QUARTER**

**A. OFO Event Summary**

During the quarter ending June 30, 2014, PG&E called a total of nine OFO events. All of the events were system-wide OFOs. Eight OFO events were a result of high pipeline inventory and one was a result of low pipeline inventory. There were no EFO events during this quarter. Table 1 provides a summary of each OFO event.

**Table 1: OFO Event Summary**

No.	Date	Type	Cause / Comments
1	Wednesday, April 2, 2014	<ul style="list-style-type: none"><li>• <b>System-Wide</b></li><li>• <b><u>Low Inventory</u></b></li><li>• Stage 1 at \$0.25/Dth</li><li>• Tolerance Band: 5%</li></ul>	<ul style="list-style-type: none"><li>• Projected ending inventory of 3,865 MMcf was below the pipeline operating limit of 4,000 MMcf</li><li>• Customer-Specific OFO not called because of PG&amp;E gas pipeline operations’ concern that a Customer-Specific OFO would not alleviate the low inventory pipeline condition.</li></ul>

<sup>1</sup> PG&E’s OFO Settlement was approved by the CPUC in Decision 00-02-050 on February 17, 2000. The Settlement tariffs were effective April 1, 2000.

<sup>2</sup> See Section C.1.f, page 5 of the OFO Settlement.

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### Appendix B – Detailed Pipeline Operating Data

No.	Date	Type	Cause / Comments
2	Saturday, May 3, 2014	<ul style="list-style-type: none"> <li>● <b>System-Wide</b></li> <li>● <b><u>High Inventory</u></b></li> <li>● Stage 1 at \$0.25/Dth</li> <li>● Tolerance Band: 5%</li> </ul>	<ul style="list-style-type: none"> <li>● Projected ending inventory of 4,379 MMcf was above the pipeline operating limit of 4,350 MMcf</li> <li>● Customer-Specific OFO not called because of PG&amp;E gas pipeline operations' concern that a Customer-Specific OFO would not alleviate the high inventory pipeline condition.</li> </ul>
3	Wednesday, May 7, 2014	<ul style="list-style-type: none"> <li>● <b>System-Wide</b></li> <li>● <b><u>High Inventory</u></b></li> <li>● Stage 1 at \$0.25/Dth</li> <li>● Tolerance Band: 5%</li> </ul>	<ul style="list-style-type: none"> <li>● Projected ending inventory of 4,375 MMcf was above the pipeline operating limit of 4,350 MMcf</li> <li>● Customer-Specific OFO not called because of PG&amp;E gas pipeline operations' concern that a Customer-Specific OFO would not alleviate the high inventory pipeline condition.</li> </ul>
4	Friday, May 9, 2014	<ul style="list-style-type: none"> <li>● <b>System-Wide</b></li> <li>● <b><u>High Inventory</u></b></li> <li>● Stage 1 at \$0.25/Dth</li> <li>● Tolerance Band: 5%</li> </ul>	<ul style="list-style-type: none"> <li>● Projected ending inventory of 4,385 MMcf was above the pipeline operating limit of 4,350 MMcf</li> <li>● Customer-Specific OFO not called because of PG&amp;E gas pipeline operations' concern that a Customer-Specific OFO would not alleviate the high inventory pipeline condition.</li> </ul>
5	Wednesday, May 21, 2014	<ul style="list-style-type: none"> <li>● <b>System-Wide</b></li> <li>● <b><u>High Inventory</u></b></li> <li>● Stage 1 at \$0.25/Dth</li> <li>● Tolerance Band: 5%</li> </ul>	<ul style="list-style-type: none"> <li>● Projected ending inventory of 4,409 MMcf was above the pipeline operating limit of 4,350 MMcf</li> <li>● Customer-Specific OFO not called because of PG&amp;E gas pipeline operations' concern that a Customer-Specific OFO would not alleviate the high inventory pipeline condition.</li> </ul>
6	Saturday, May 24, 2014	<ul style="list-style-type: none"> <li>● <b>System-Wide</b></li> <li>● <b><u>High Inventory</u></b></li> <li>● Stage 1 at \$0.25/Dth</li> <li>● Tolerance Band: 5%</li> </ul>	<ul style="list-style-type: none"> <li>● Projected ending inventory of 4,498 MMcf was above the pipeline operating limit of 4,350 MMcf</li> <li>● Customer-Specific OFO not called because of PG&amp;E gas pipeline operations' concern that a Customer-Specific OFO would not alleviate the high inventory pipeline condition.</li> </ul>
7	Thursday, May 29, 2014	<ul style="list-style-type: none"> <li>● <b>System-Wide</b></li> <li>● <b><u>High Inventory</u></b></li> <li>● Stage 1 at \$0.25/Dth</li> <li>● Tolerance Band: 5%</li> </ul>	<ul style="list-style-type: none"> <li>● Projected ending inventory of 4,439 MMcf was above the pipeline operating limit of 4,350 MMcf</li> <li>● Customer-Specific OFO not called because of PG&amp;E gas pipeline operations' concern that a Customer-Specific OFO would not alleviate the high inventory pipeline condition.</li> </ul>
8	Friday, June 27, 2014	<ul style="list-style-type: none"> <li>● <b>System-Wide</b></li> <li>● <b><u>High Inventory</u></b></li> <li>● Stage 2 at \$1.00/Dth</li> <li>● Tolerance Band: 5%</li> </ul>	<ul style="list-style-type: none"> <li>● Projected ending inventory of 4,488 MMcf was above the pipeline operating limit of 4,350 MMcf</li> <li>● Customer-Specific OFO not called because of PG&amp;E gas pipeline operations' concern that a Customer-Specific OFO would not alleviate the high inventory pipeline condition.</li> </ul>

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### Appendix B – Detailed Pipeline Operating Data

No.	Date	Type	Cause / Comments
9	Saturday, <b>June 28, 2014</b>	<ul style="list-style-type: none"><li>• <b>System-Wide</b></li><li>• <b><u>High Inventory</u></b></li><li>• Stage 2 at \$1.00/Dth</li><li>• Tolerance Band: 5%</li></ul>	<ul style="list-style-type: none"><li>• Projected ending inventory of 4,378 MMcf was above the pipeline operating limit of 4,350 MMcf</li><li>• Customer-Specific OFO not called because of PG&amp;E gas pipeline operations' concern that a Customer-Specific OFO would not alleviate the high inventory pipeline condition.</li></ul>

#### B. Receipt Point Capacity Allocation Events

There were no receipt point capacity allocation events during the quarter.

### III. DETAILED IMBALANCE DATA

Appendix A shows the imbalance detail for each end-use balancing entity for each OFO day and the three days prior to the OFO.<sup>3</sup> This includes the daily supply, usage and imbalance quantities based on billing data.<sup>4</sup>

Appendix A also indicates which entities were targeted during a customer-specific OFO event and which entities met the following criteria for “significant contributors” to each OFO event:

- Total imbalance on 3-prior days exceeded 10 percent, 5,000 Dth, or both. (This definition of “significant contributor” is specified in Section B.3.b of the OFO Settlement.)
- During a Customer-Specific OFO, both the imbalance and the supply increased during a high inventory OFO (or decreased during a low inventory OFO) by over 5,000 Dth on the OFO day.

Appendix B contains detailed data for each OFO event for pipeline imbalances, net market center imbalances, pipeline balancing provided by allocated “balancing” storage, and pipeline inventory levels based on operating data.<sup>5</sup> Also included is a description of each data element shown in the tables.

### IV. DISCUSSION

This section of the OFO Report provides PG&E’s comments and observations of the data presented, and also offer PG&E’s recommendations for possible change.<sup>6</sup>

<sup>3</sup> See Section C.1.f.(1), page 5, of the OFO Settlement.

<sup>4</sup> The billing data for Core Procurement Groups (CPGs) is based on their “Determined Usage”, which is the forecast on the morning of flow day.

<sup>5</sup> This data is required by Sections C.1.f.(2), (3), (4), and (5) of the OFO Settlement.

<sup>6</sup> The OFO Settlement Agreement specified that the quarterly OFO report would contain “any proposed changes to any OFO and balancing procedures and/or methodology addressed in this Settlement.” See Section C.1.f.6, page 5.

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### **Appendix B – Detailed Pipeline Operating Data**

#### **A. Frequency of OFOs during Second Quarter of 2014**

The nine OFOs during the second quarter of 2014 were lower than 2Q 2013. In 2013, we experienced twenty OFO events during the second quarter.

#### **B. Recommendations Regarding OFOs**

PG&E is not recommending any further changes to the existing OFO or balancing service procedures and methodologies in this quarterly report.

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### **Appendix B – Detailed Pipeline Operating Data**

#### **Appendix A: Detailed OFO Imbalance Report by Balancing Entity**

##### **1. Definition of End-Use Balancing Entity Types**

There are three types of end-use customer Balancing Entities on the PG&E system. The first type is a Core Procurement Group (CPG), which includes PG&E's Core Procurement Department and all Core Transport Agents (CTAs) – also called Gas Energy Service Providers. These are indicated as 'CTARGAS' or "CTA Storage".

The second type is an agent or gas marketer managing a Noncore Balancing Aggregation Agreement (NBAA). These are indicated as "NBAA." An NBAA aggregates a group of noncore end-use customers into one entity for balancing purposes. An NBAA group can range from several customers up to over one hundred individual end-use customers. The NBAA agent is financially responsible for all imbalance charges, including OFO noncompliance charges.

The third type is an individual noncore end-use customer. These individual customers maintain an imbalance account under their Natural Gas Service Agreement, indicated as "NGSA." Sometimes the balancing for these NGSAs is managed by the end-use customer, and sometimes by an agent or marketer; however, each is required to balance individually during an OFO event.

##### **2. Imbalance Data Elements**

The data in this Appendix is organized by each of the OFO events during the quarter. This includes the daily supply, usage and imbalance quantities for the OFO Day and 3-days-prior for each balancing entity. Also, targeted entities during customer-specific OFOs and various calculations of significant contributor are included, along with a summary of these by balancing entity for all OFOs combined.

The following describes the data elements in the Appendix A tables:

Balancing Entity ID #: Each balancing entity is identified by a numerical identifier and the type of balancing entity, and not by name. If a customer operates two separate balancing entity accounts (e.g. an NBAA and a CPG (or CTARGAS)), the same numerical identifier is used for each entity.

Balancing Entity Type: (See discussion above.)

Supply Scheduled Volume: The quantity of gas supply, in decatherms (Dths), received into the PG&E system for delivery to the end-use customer(s) for that balancing entity. This quantity is the result of the gas supply nomination process. This process is the same for all types of balancing entities.

Usage: The quantity of gas, in decatherms (Dths), that is delivered off the PG&E system to the end-use customer(s) for that balancing entity. This is the demand deemed to be used, in order to determine the daily imbalance. For noncore customers (i.e., NBAA or NGSA), the usage is equal to the actual daily meter reading quantities. For core customers (i.e. CTA Storage) the usage is equal to the

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Determined Usage<sup>7</sup>. It is important to note that both the Determined Usage and the 24-Hour Forecast are forecasts that are made 24-hours and 48-hours prior to the end of the gas day, respectively.

Daily Imbalance: This is simply the *Supply Scheduled Volume* minus the *Usage*. A positive number indicates an over-delivery of supply (more supply than demand) and a negative number indicates an under-delivery of supply (less supply than demand).

3-Day Prior Net Imbalance: The sum of the *Daily Imbalances* for the three days prior to the OFO Day.

3-Day Prior Percentage Imbalance: The *3-Day Prior Net Imbalance* divided by the total *Usage* for the three days prior to the OFO Day. This represents the average percentage imbalance for these three days.

Targeted under Customer-Specific OFO: This column indicates those balancing entities that were targeted under each customer-specific OFO.

Significant Contributor: Two significant contributor columns are shown. The first indicates those balancing entities with total imbalances greater than 5,000 Dth and 10 percent of its usage in the three days leading up to each system-wide or customer-specific OFO, as defined in the OFO Settlement.<sup>8</sup> The second significant contributor column identifies those balancing entities which increased both their supply and imbalance by more than 5,000 Dth on the OFO day, during a customer-specific OFO.

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<sup>7</sup> Effective January 1, 2004, the Determined Usage is used on all days, including use to measure compliance with OFO orders. Prior to this date, the 24-Hour Forecast was used to determine core customer usage on OFO days and the Determined Usage was used on non-OFO days.

<sup>8</sup> OFO Settlement, Section B.3.b, page 3.



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### Appendix B – Detailed Pipeline Operating Data

#### Appendix B: Detailed Pipeline Operating Data

##### 1. Data Background:

All data in this Appendix related to gas volumes are expressed in thousands of decatherms (Mdth) and are for the gas day, which begins at 7:00 AM on the date and ends at 7:00 AM on the following day. This is operating data that is compiled approximately 4 hours after the end of the gas day and represents the best information about flows, volumes, and inventories available at that time.

The ending inventory on the OFO day will often not exceed the criteria for an OFO. OFOs are called using the forecast of the ending inventory on the OFO day, and for this reason, the actual ending inventory will likely be different than the forecast ending inventory if the OFO has been effective.

The following sign convention has been employed in the spreadsheet. Any activity that decreases the pipeline system inventory such as a negative customer imbalance or a storage injection is shown with a (-) sign. Activities that increase the pipeline system inventory are positive and are shown without a sign.

##### 2. Data Elements

Beginning Inventory: The calculated volume of gas in the PG&E pipeline system at the beginning of the gas day.

Ending Inventory: The calculated volume of gas in the PG&E pipeline system at the end of the gas day. This forecast of ending inventory is used to determine whether an OFO is called, and is forecast and reported on the Pipe Ranger 5 times each day.

Pipeline Storage Balancing: The PG&E storage that was used to reduce the effect of imbalances on changes in the pipeline system inventory. This value is calculated by subtracting the scheduled storage activity including core, noncore, and Golden Gate Market Center (GGMC) Park/Lend activity from the net PG&E storage activity. There is 75 MMcf of daily storage injection and 75 MMcf of daily storage withdrawal assigned to the pipeline storage balancing activity.

Total Customer Imbalance: The total customer imbalance is the total supply scheduled for on-system customers minus the total on-system customer usage. The usage for noncore customers is based on operational meters. The usage for core customers is based on the Determined Usage. The Core Determined Usage is derived from the core load forecast prepared at approximately 7:30 AM at the beginning of the gas day.

Pipeline Imbalance Detail: This calculation is provided to show the contribution of core load forecast error on the day of gas flow to the total pipeline imbalance.

Due to Core Forecast Differences: This is the difference between the Core Determined Usage which is forecast at the beginning of the gas day and the Core calculated usage. The Core usage is calculated approximately four hours after the

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end of the gas day using daily data on interconnect and storage volumes, noncore daily usage volumes from the Automatic Meter Reading (AMR) system, and the change in the pipeline system inventory.

*All Other Causes:* This represents the sum of all the other contributors to pipeline imbalances including imbalances with interconnecting pipelines and storage facilities (other than PG&E), imbalance in California Gas Well production, shrinkage over or under collection.

*GGMC Net Scheduled Pack Draft:* This value is the net sum of the scheduled nominations for PG&E storage activity for scheduled GGMC Parks, Repays, Lends, and Unparks for the gas day. When the value is a negative (-) it means that storage injection is required to offset a net Pack (Park or Repay) position.

*GGMC Net Pack Allocated:* This is the PG&E storage injection capacity available to GGMC to facilitate their daily parking (Parks and Repays) activity. The amount of daily parking is limited to this quantity so that this activity does not adversely increase the pipeline system inventory and represents one of the measures to determine whether there was an imbalance created by the GGMC on any given day.

*GGMC Net Draft Allocated:* This is the PG&E storage withdrawal capacity available to GGMC to facilitate their daily lending activity. The amount of daily lending is limited to this quantity so that this activity does not adversely decrease the pipeline system inventory and represents one of the measures to determine whether there was an imbalance created by the GGMC on any given day.

*GGMC Imbalance:* This is determined by calculating the amount the *GGMC Scheduled Pack Draft* is outside the *Allocated Pack-Draft* range. These values represent the impact of the GGMC on the pipeline system inventory on any given day.