

**PUBLIC UTILITIES COMMISSION**

505 VAN NESS AVENUE  
SAN FRANCISCO, CA 94102-3298



March 14, 2017

**Advice Letter 4997-G-A**

Ray Ortiz  
Tariff Manager  
Southern California Gas Company  
555 West 5<sup>th</sup> Street, GT14D6  
Los Angeles, CA 90013-1011

**SUBJECT: Triennial Cost Allocation Proceeding (TCAP) High Operational Flow Order (OFO) Implementation — Decision (D.) 16-06-039**

Dear Mr. Ortiz:

**Summary:**

This disposition letter approves Southern California Gas Company's (SoCalGas) Tier 2 Advice Letter (AL) 4997-G-A, which submits proposed tariff revisions to the utility's high Operational Flow Order procedures pursuant to D.16-06-039 and D.16-12-016.

**Background**

**D.16-06-039 adopted a Settlement Agreement that conditionally approved new high OFO procedures, which could only be implemented after the Aliso Canyon Turbine Replacement Project was placed into service, expanding injection capacity at Aliso Canyon by 145 million cubic feet per day.**

The Settlement Agreement made implementation of changes to the high OFO procedures contingent on several conditions, including the following from Ordering Paragraph 23:

23. Southern California Gas Company and San Diego Gas & Electric Company may not implement the new high Operational Flow Order Trigger mechanism until the Aliso Canyon 145 million cubic feet per day expansion of injection capacity is in operation.

**The Settlement Agreement was negotiated before the Aliso Canyon gas leak. The "145 million cubic feet per day expansion of injection capacity" referred to above was based on the anticipated increase to injection capacity generated by the Aliso Canyon Turbine Replacement Project (ACTR), which was scheduled to go into service on January 1, 2017.**

**Due to the legislation passed in response to the gas leak, it is unlikely that Aliso Canyon storage field's injection capacity can increase by 145 million cubic feet per day (MMcfd)**

**over the status quo at the time the Settlement Agreement was negotiated.** SB 380 has changed the operating parameters of the Aliso Canyon storage field because it states that Aliso Canyon storage wells returning to service “shall only inject or produce gas through the interior metal tubing and not through the annulus between the tubing and the well casing.”<sup>1</sup> This restriction will likely cause a significant, but still undetermined, reduction in the overall injection capacity of Aliso Canyon. Therefore, even if the ACTR goes into service, it likely will not increase injection capacity by 145 million MMcf/d over the status quo at the time the Settlement Agreement was negotiated.

**On July 25, 2016, SoCalGas filed Advice Letter 4997-G requesting approval of the tariff changes needed to implement the new high OFO procedures.** The proposed changes were made in “redline” form because the tariffs will not be effective until the Aliso Canyon Turbine Replacement Project is in operation. SoCalGas stated its intention to file a Tier 1 Advice Letter to implement the proposed changes on the later of: “(1) December 1, 2016, or (2) the first calendar day of the month that follows the month in which the Aliso Canyon Turbine Replacement Project is placed into service and used for injection purposes.”

Shell Energy North America (US), L.P. (Shell) and The Alliance for Retail Energy Markets (AREM) raised two questions in their joint protest filed on August 15, 2016. First, they asked whether the utility’s proposed timing for implementing the high OFO procedures was consistent with D.16-06-039. Second, they asked what amount of storage injection capacity will be allocated to the balancing function when the new high OFO procedures are implemented.

Shell Energy and AREM did not object to the proposed timing for the implementation of the new high OFO procedures. However, they noted that:

The unavailability of all or a portion of the 145 MMcf/day of incremental Aliso Canyon storage injection capacity means that the storage injection capacity available for balancing will not be the full amount (345 MMcf/day) that is to be allocated to the balancing function under the Settlement Agreement.

To address this change in conditions from what was anticipated in the Settlement Agreement, Shell and AREM asked that the following language be added to SoCalGas Rule 41, Paragraph 5:

The storage injection capacity allocated to the balancing function shall be the lesser of 345 MMcf/day or the full amount of available storage injection capacity on the SoCalGas/SDG&E system.

In its August 22, 2016, reply to Shell and AREM’s protest, SoCalGas did not oppose making this addition to SoCalGas Rule 41.

**Despite the fact that SoCalGas was willing to make the changes requested in the protest, Energy Division staff was unable to approve Advice Letter 4997-G because SoCalGas could**

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<sup>1</sup> SB 380: [http://leginfo.legislature.ca.gov/faces/billTextClient.xhtml?bill\\_id=201520160SB380](http://leginfo.legislature.ca.gov/faces/billTextClient.xhtml?bill_id=201520160SB380)

**not meet the terms of the Settlement Agreement, which required the addition of 145 MMcfd of injection capacity at Aliso Canyon.**

In response to Energy Division's concerns, the majority of the parties to the Settlement Agreement filed a Petition for Modification of D.16-06-039 on September 26, 2016, requesting that Ordering Paragraph 23 be changed as follows:

23. Southern California Gas Company and San Diego Gas & Electric Company may not implement the new high Operational Flow Order Trigger mechanism until the Aliso Canyon Turbine Replacement project ~~145 million cubic feet per day~~ expansion of injection capacity is in operation.

**The CPUC approved the Petition for Modification in D.16-12-016 on December 1, 2016.**

On December 15, 2016, SoCalGas filed supplemental Advice Letter 4997-G-A, which replaces AL 4997-G in its entirety. The supplemental advice letter incorporates the changes to D.16-06-039 approved in D.16-12-016 and adds the language recommended by Shell and AREM in their joint protest. The supplemental advice letter was not protested.

Advice Letter 4997-G-A is approved.

Sincerely,



Edward Randolph  
Director, Energy Division

CC: [ROrtiz@semprautilities.com](mailto:ROrtiz@semprautilities.com)  
[mcaulson@semprautilities.com](mailto:mcaulson@semprautilities.com)  
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Ronald van der Leeden  
Director  
Regulatory Affairs

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[RvanderLeeden@semprautilities.com](mailto:RvanderLeeden@semprautilities.com)

December 15, 2016

Advice No. 4997-A  
(U 904 G)

Public Utilities Commission of the State of California

**Subject: Supplement – Triennial Cost Allocation Proceeding (TCAP) High Operational Flow Order (OFO) Implementation – Decision (D.) 16-06-039**

Southern California Gas Company (SoCalGas) hereby submits with the California Public Utilities Commission (Commission) illustrative revisions to its tariffs, applicable throughout its service territory, as shown on Attachment A.

**Purpose**

The original filing complied with Ordering Paragraph (OP) 3 of Decision (D.) 16-06-039, *Decision Addressing the Phase 1 Issues and the Joint Motion to Adopt the Settlement Agreement*, which states:

Within 30 days of the effective date of this decision, Southern California Gas Company and San Diego Gas & Electric shall file the necessary Tier 2 advice letters with the Energy Division to carry out the terms of the Settlement Agreement and other uncontested issues adopted by this order.<sup>1</sup>

This supplemental filing replaces Advice No. (AL) 4997 in its entirety, incorporates modifications to D.16-06-039 that were approved by OP 3 of D.16-12-016, *Decision Granting the Joint Petition for Modification of Decision 16-06-039*, and is being made pursuant to OP 4 of D.16-12-016, which states:

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<sup>1</sup> D.16-06-039 at 63.

In order to implement the authority granted herein, Southern California Gas Company and San Diego Gas & Electric Company must file a Tier 1 Advice Letter within 30 days of the date of this decision.<sup>2</sup>

Additionally, this filing incorporates a recommendation from Shell Energy North America (US), L.P. (Shell) and the Alliance for Retail Energy Markets (AReM) in their Joint Protest to AL 4997 requesting an additional clarification regarding injection capacity be added to Rule No. 41. Rule No. 41 is also further modified to correct erroneous references to other section numbers within the Rule. Finally, an existing sentence limiting a de minimus exemption only to low OFO noncompliance charges is deleted in Rule No. 30 Section G.1.f, since the exemption is intended to also apply to high OFO noncompliance charges.

The revisions included in this filing present the illustrative high operational flow order (OFO) tariff changes necessary to carry out the terms of the Settlement Agreement, as modified by D.16-12-016. A separate AL, AL 4995-A, addressed the rate changes adopted by D.16-06-039. Due to differing effective dates, a third AL, AL 4996, addressed the non-rate, non-high OFO tariff changes approved by D.16-06-039. Both AL 4995-A and 4996 were approved effective September 1, 2016.

## **Background**

OP 1 of D.16-06-039 adopts the Settlement Agreement filed on August 31, 2015 by SoCalGas, San Diego Gas & Electric Company (SDG&E), and five other parties.<sup>3</sup> OP 3 also approves the uncontested issues in this proceeding. OPs 4 through 38 lay out the specific items adopted by D.16-06-039. The following ordering paragraphs provide guidance for the required high OFO tariff changes, and are discussed in more detail in the following section.

20. Southern California Gas Company is authorized to implement a new high Operational Flow Order mechanism as set forth in Table 4 in this decision.

21. Prior to implementing a new high Operational Flow Order (OFO), Southern California Gas Company shall demonstrate that it has developed a day-ahead forecasting methodology consistent with the standards approved through Advice Letter 4822, Modification of Tariffs Necessary to Implement Low Operational Flow (OFO) and Emergency Flow Order (EFO) Requirements and Description of Forecasting Model in Compliance with Decision 15-06-004.

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<sup>2</sup> D.16-12-016 at 9.

<sup>3</sup> A Joint Motion to adopt the Settlement Agreement was filed on August 31, 2015 by SoCalGas, SDG&E, Office of Ratepayer Advocates (ORA), The Utility Reform Network (TURN), Southwest Gas Corporation (SWG), City of Long Beach (Long Beach), and Indicated Shippers (IS).

22. Southern California Gas Company and San Diego Gas & Electric Company shall make the forecasting methodology associated with the high Operational Flow Order mechanism publically available by posting on Envoy and any changes to the methodology will be posted at least 15 days before becoming effective.

23. Southern California Gas Company and San Diego Gas & Electric Company may not implement the new high Operational Flow Order Trigger mechanism until the Aliso Canyon Turbine Replacement Project expansion of injection capacity is in operation.<sup>4</sup>

### **Tariff Revisions**

The following is a summary of the proposed revisions to the tariffs included in Attachment A in accordance with the ordering paragraphs of D.16-06-039 noted above. Attachment A includes the tariffs in redline form, because these tariffs will not be effective until a later date. Per OP 23, SoCalGas may not implement the new high OFO Trigger mechanism until the Aliso Canyon Turbine Replacement project expansion of injection capacity is in operation. As such, these tariff modifications cannot be made at this time. SoCalGas will file a Tier 1 AL to implement the proposed tariff modifications included in Attachment A on the first calendar day of the month that follows the month in which the Aliso Canyon Turbine Replacement Project is placed into service and used for injection purposes. SoCalGas will also make a posting on its Electronic Bulletin Board, Envoy.

- **Schedule No. G-IMB**

Schedule No. G-IMB addresses transportation imbalance service. Special Condition (SC) 11 on Sheet 6 is removed because high OFO's will be subject to daily imbalance penalties outlined in Rule No. 30 rather than buy-back service. Subsequent Special Conditions are renumbered.

- **Rule No. 30**

Rule No. 30 addresses Transportation of Customer-Owned Gas. The current high OFO structure outlined in Section F (Nominations in Excess of System Capacity – High Operational Flow Order) is largely removed. Section G is renamed “Operational Flow Orders and Emergency Flow Orders,” and will now encompass both the low and high OFO procedures. All references to “low” OFOs are removed so that the section refers more broadly to just “OFOs,” which will now mean either low or high. The table in Section G.1.a is updated so that the daily imbalance tolerances for the various stages are up to plus or

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<sup>4</sup> As modified by D.16-12-016 at 9 (OP 3).

minus (+/-) the noted percentage. Section G.1.f is modified to delete the following sentence: "This exemption applies only to Low OFO noncompliance charges."

- Rule No. 41

Rule No. 41 addresses Utility System Operation, and specifically SoCalGas' operational organization, procedures, and reporting requirements. Section 4 on Sheet 1 is removed, because the conditions for calling a high OFO are now addressed in what is currently Section 5, and is now Section 4. New Section 4 is modified to remove references to "low" OFOs in the first two paragraphs, so that those paragraphs simply refer to OFOs that could be high or low. References to storage injection are added where there are currently references to storage withdrawal. New Section 4 is also modified to clarify that the storage injection capacity allocated to the balancing function shall be the lesser of 345 MMcf/day or the full amount of available storage injection capacity of the Utilities system. For the same reasons as in new Section 4, references to "low" OFOs are removed in new Section 5, in favor of simply referencing "OFOs." References within Rule No. 41 to other Section numbers are modified due the removal of Section 4.

### **Description of Forecast Model**

Pursuant to OP 21 of D.16-06-039, which references AL 4822 filed pursuant to OP 1 of D.15-06-004, SoCalGas hereby provides a full description of the forecast model to be used to call a high OFO.

#### **a) Detailed narrative explanation of the model and its elements, assumptions incorporated into the model**

On cycles in which storage injections exceed withdrawal nominations, SoCalGas will use the following formula to calculate end of the day customer imbalances absent a high OFO call:

$0.97 \times \text{Latest Confirmed Net Receipts} - 0.98 \times \text{Forecasted Sendout} - 0.27 \times (\text{Storage injections minus storage withdrawals}).$

On cycles in which storage withdrawals exceed injection nominations, SoCalGas will use the following formula to calculate end of the day customer imbalances absent a high OFO call:

$0.97 \times \text{Latest Confirmed Net Receipts} - 0.98 \times \text{Forecasted Sendout} + (\text{Storage Withdrawals minus storage injections}).$

Both injection and withdrawals are treated as positive numbers in these calculations. If the calculated customer imbalance exceeds the lower of 345 MMcfd (355,350 Dth) or actual physical injection capacity, then a high OFO will be triggered.

**b) Formulas incorporated in the model accompanied by a description of each of the variables and elements of the model, and the sources of any input**

See (a). Envoy is the source of all inputs.

**c) Specific criteria to be used to evaluate the accuracy of the model and the frequency with which evaluations of the model will occur**

SoCalGas will consider an actual high OFO event captured by the model if the model forecasts a day that (1) actual customer imbalances exceeded the lower of 345 MMcfd or actual physical injection capacity or (2) a day corresponding to a high OFO under the older high OFO process. SoCalGas expects the model will capture 60% of the actual days that meet the above criteria. SoCalGas expects the ratio between the number of forecasted high OFOs and the number of actual high OFOs will not exceed 1.25 over a one year period. SoCalGas will be continuously evaluating the model using this metric.

**d) Conditions/circumstances under which a modification to the model will be made**

The model coefficients will be changed when SoCalGas determines that it can increase accuracy without significantly increasing the number of high OFO events.

**e) The manner in which modifications to the model will be communicated to parties**

If the model is changed, the new model will be posted in a non-critical Envoy notice 15 days before the use of the new model, pursuant with OP 22.

**f) Comparison of model results versus actual for the one-year period immediately preceding the date of this Decision**

The following table compares the model's results to the actual imbalances over the 12-month period of July 1, 2015 through June 30, 2016. Physical injection capacity was often less than 345 MMcfd over this period. As a result, there were 83 high OFOs over this period using the old high OFO procedures. There would have been at most 78 high OFOs over this same period using the new procedures. SoCalGas believes the 78 figure overstates frequency because customers are likely to adjust their behavior to reduce customer imbalances under the new procedures. If 345 MMcfd could have been made available to the balancing function over the period, the



number of high OFOs would have been cut in half to 39. We believe that over 345 MMcfd of injection will be available once the new Aliso Canyon turbines are operational. The backcast hit 61% of the days in which (1) customer imbalances exceeded the lower of 345 MMcfd or actual physical injection capacity or (2) a high OFO under the old procedures was triggered.

	Actual new criteria	Backcast new criteria	Actuals old criteria
Summer OFOs	49	44	49
Winter OFOs	40	34	34
Annual OFOs	89	78	83
% Backcasts on Actual Trigger Days			
	Exact Hits	Actuals per new criteria	Percentage
Summer OFOs	32	49	65%
Winter OFOs	22	40	55%
Annual OFOs	54	89	61%

- g) Three examples, using data within the 12 months immediately preceding the date of this decision, showing a case where the model if in effect at the time would have forecast an OFO that matched actual results, a case where the model failed to forecast an OFO when compared to actual, and when the model forecasted an OFO when actual results would not require one – all of the examples accompanied by a commentary describing the circumstances leading to the results in the examples**

Please see Attachment B for the OFO calculations using the proposed model for the prior 12-month period.

**Case 1:**

As shown in Attachment B, on July 18, 2015, the model forecasted a high OFO when the actual imbalance was 393,102 Dth and thus greater than the high OFO trigger of 355,350 Dth.

**Case 2:**

As shown in Attachment B, on July 25, 2015, the model failed to forecast a high OFO when the actual imbalance was 378,291 Dth and thus greater than the high OFO trigger. On this day, the sendout forecast was higher than the actual sendout by 105,000 Dth which resulted in underestimating the imbalance and thus missing the high OFO.

**Case 3:**

As shown in Attachment B, on September 6, 2015, the model forecasted a high OFO when the actual imbalance was 208,656 Dth and thus below the high OFO trigger. On this day, the sendout forecast was lower than the actual sendout by 124,000 Dth, which resulted in overestimating the imbalance and thus triggering the high OFO.

**Protest**

Anyone may protest this AL to the Commission. The protest must state the grounds upon which it is based, including such items as financial and service impact, and should be submitted expeditiously. The protest must be made in writing and must be received within 20 days of the date of this AL, which is January 4, 2017. There is no restriction on who may file a protest. The address for mailing or delivering a protest to the Commission is:

CPUC Energy Division  
Attention: Tariff Unit  
505 Van Ness Avenue  
San Francisco, CA 94102

A copy of the protest should also be sent via e-mail to the attention of the Energy Division Tariff Unit ([EDTariffUnit@cpuc.ca.gov](mailto:EDTariffUnit@cpuc.ca.gov)). A copy of the protest should also be sent via both e-mail and facsimile to the address shown below on the same date it is mailed or delivered to the Commission.

Attn: Ray B. Ortiz  
Tariff Manager - GT14D6  
555 West Fifth Street  
Los Angeles, CA 90013-1011  
Facsimile No. (213) 244-4957  
E-mail: [ROrtiz@SempraUtilities.com](mailto:ROrtiz@SempraUtilities.com)

**Effective Date**

SoCalGas believes that this filing is subject to Energy Division disposition and, per OP 4 of D.16-12-016, is classified as Tier 1. Therefore, SoCalGas respectfully requests that this filing become effective on December 15, 2016.

**Notice**

A copy of this AL is being sent to SoCalGas' General Order (GO) 96-B service list and the Commission's service list in A.14-12-017, SoCalGas/SDG&E 2016 Phase 1 TCAP and A.15-06-020. Address change requests to the GO 96-B should be directed by electronic mail to [tariffs@socalgas.com](mailto:tariffs@socalgas.com) or call 213-244-3387. For

changes to all other service lists, please contact the Commission's Process Office at 415-703-2021 or by electronic mail at [Process\\_Office@cpuc.ca.gov](mailto:Process_Office@cpuc.ca.gov).

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Ronald van der Leeden  
Director – Regulatory Affairs

Attachments

# CALIFORNIA PUBLIC UTILITIES COMMISSION

## ADVICE LETTER FILING SUMMARY ENERGY UTILITY

MUST BE COMPLETED BY UTILITY (Attach additional pages as needed)

Company name/CPUC Utility No. **SOUTHERN CALIFORNIA GAS COMPANY (U 904G)**

Utility type:

ELC     GAS  
 PLC     HEAT     WATER

Contact Person: Ray B. Ortiz

Phone #: (213) 244-3837

E-mail: [ROrtiz@semprautilities.com](mailto:ROrtiz@semprautilities.com)

### EXPLANATION OF UTILITY TYPE

ELC = Electric    GAS = Gas  
PLC = Pipeline    HEAT = Heat    WATER = Water

(Date Filed/ Received Stamp by CPUC)

Advice Letter (AL) #: 4997-A

Subject of AL: Supplement - Triennial Cost Allocation Proceeding (TCAP) High Operational Flow Order (OFO) Implementation - Decision (D.) 16-06-039

Keywords (choose from CPUC listing): Capacity; Imbalance

AL filing type:  Monthly  Quarterly  Annual  One-Time  Other

If AL filed in compliance with a Commission order, indicate relevant Decision/Resolution #:

D.16-06-039

Does AL replace a withdrawn or rejected AL? If so, identify the prior AL No

Summarize differences between the AL and the prior withdrawn or rejected AL<sup>1</sup>: N/A

Does AL request confidential treatment? If so, provide explanation: No

Resolution Required?  Yes  No

Tier Designation:  1  2  3

Requested effective date: 12/15/16

No. of tariff sheets: 0

Estimated system annual revenue effect (%): N/A

Estimated system average rate effect (%): N/A

When rates are affected by AL, include attachment in AL showing average rate effects on customer classes (residential, small commercial, large C/I, agricultural, lighting).

Tariff schedules affected: N/A

Service affected and changes proposed<sup>1</sup>: N/A

Pending advice letters that revise the same tariff sheets: N/A

**Protests and all other correspondence regarding this AL are due no later than 20 days after the date of this filing, unless otherwise authorized by the Commission, and shall be sent to:**

CPUC, Energy Division  
Attention: Tariff Unit  
505 Van Ness Ave.,  
San Francisco, CA 94102  
[EDTariffUnit@cpuc.ca.gov](mailto:EDTariffUnit@cpuc.ca.gov)

Southern California Gas Company  
Attention: Ray B. Ortiz  
555 West 5<sup>th</sup> Street, GT14D6  
Los Angeles, CA 90013-1011  
[ROrtiz@semprautilities.com](mailto:ROrtiz@semprautilities.com)  
[Tariffs@socalgas.com](mailto:Tariffs@socalgas.com)

<sup>1</sup> Discuss in AL if more space is needed.

**ATTACHMENT A**  
**Advice No. 4997-A**

**Illustrative Revisions to Tariffs**

Schedule No. G-IMB  
TRANSPORTATION IMBALANCE SERVICE

(Continued)

SPECIAL CONDITIONS (Continued)

10. After the imbalance trading period, the Standby Procurement Charge or Buy-Back Rate will be applied to all imbalance quantities in excess of the tolerance band.

~~11. When in the judgment of the Utility Gas Control Department the latest scheduled quantities are in excess of system capacity, Buy-Back service hereunder shall be applied to daily periods as designated by the Utility in accordance with the provisions of Rule No. 30, Section F. Customers shall not be allowed to trade positive imbalances incurred during such daily periods. The Buy-Back Rate shall apply to all positive imbalances in excess of the tolerance for each such period. The high OFO tolerance will be either 105% or 110%. The default will be 105%, but SoCalGas and SDG&E will have the ability to set the tolerance at 110% if, in SoCalGas' and SDG&E's sole discretion, operational circumstances allow. The high OFO tolerance is temporary and will return to 110% upon the expiration of the term in the settlement approved by a December 1, 2016 CPUC decision in Application (A).15-06-020. Specifically, that settlement term will conclude upon the earlier of: (1) any superseding decision or order by the Commission (including implementation of the revised high OFO procedures approved by D.16-06-021), (2) return of Aliso Canyon to at least 450MMcfd of injection capacity and 1,395 MMcfd of withdrawal capacity, or (3) March 31, 2017. Standby service shall be provided for the regular monthly balancing period and shall not be restricted to the excess nominations periods.~~

D,N  
N  
N  
D,N

112. Under this schedule, the responsible customer will reimburse the Utility for any penalties or charges incurred by the Utility under an interstate or intrastate supplier arrangement when such penalties or charges occur as a direct result of the Utility's providing this imbalance service to customer.

123. If as the result of billing error, metering error, or transportation adjustments, customer trades an incorrect amount of imbalance quantities based on notification by the Utility, the Utility will not be liable for any financial losses or damages incurred by customer nor will the Utility be financially liable to any of the customer's imbalance trading partners. If as a result of such error, the Utility overbills customer, the Utility shall refund the difference. If the Utility underbills customer, the customer shall be liable for the undercharge including any associated penalty. The customer shall not be relieved of imbalance penalties when a subsequent billing adjustment is made by the Utility. For the purpose of determining imbalances and any applicable charges hereunder, the Utility will include subsequent billing adjustments for prior periods as part of the usage deemed to occur during the subsequent period unless the customer reimburses the Utility for the actual cost of gas incurred. Trades occurring in prior periods will not be affected by such billing adjustments. The Utility may issue a bill for Daily Balancing Standby Rate charges on a weekly or fortnightly basis upon customer or marketer request or if a customer or marketer delivers into the system less than 50 percent of its usage. Otherwise, Daily Balancing Standby Rate charges shall be included in the regular monthly bill.

(Continued)

(TO BE INSERTED BY UTILITY)  
ADVICE LETTER NO. 5064  
DECISION NO.

ISSUED BY  
**Dan Skopec**  
Vice President  
Regulatory Affairs

(TO BE INSERTED BY CAL. PUC)  
DATE FILED Dec 1, 2016  
EFFECTIVE Dec 1, 2016  
RESOLUTION NO. \_\_\_\_\_

Schedule No. G-IMB  
TRANSPORTATION IMBALANCE SERVICE

Sheet 7

(Continued)

SPECIAL CONDITIONS (Continued)

134. The Utility Gas Procurement Department will be not be assessed any charges under this schedule that are a result of its obligation to maintain system reliability when called upon by the Utility System Operator to increase flowing supply when supply is insufficient to meet expected end-use demand or decrease scheduled deliveries when deliveries are expected to exceed end-use demand plus storage injection capacity.

D

(TO BE INSERTED BY UTILITY)  
ADVICE LETTER NO. 4996  
DECISION NO. 16-06-039

ISSUED BY  
**Dan Skopec**  
Vice President  
Regulatory Affairs

(TO BE INSERTED BY CAL. PUC)  
DATE FILED Jul 25, 2016  
EFFECTIVE Sep 1, 2016  
RESOLUTION NO. \_\_\_\_\_

Rule No. 30

TRANSPORTATION OF CUSTOMER-OWNED GAS

(Continued)

E. Interruption of Service

1. The customer's transportation service priority shall be established in accordance with the definitions of Core and Noncore service, as set forth in Rule No. 1, and the provisions of Rule No. 23, Continuity of Service and Interruption of Delivery. If the customer's gas use is classified in more than one service priority, it is the customer's responsibility to inform the Utility of such priorities applicable to the customer's service. Once established, such priorities cannot be changed during a curtailment period.
2. The Utility shall have the right, without liability, to interrupt the acceptance or redelivery of gas whenever it becomes necessary to test, alter, modify, enlarge or repair any facility or property comprising the Utility's system or otherwise related to its operation. When doing so, the Utility will try to cause a minimum of inconvenience to the customer. Except in cases of unforeseen emergency, the Utility shall give a minimum of ten (10) days advance written notice of such activity.

D

F. Nominations in Excess of System Capacity ~~High Operational Flow Order~~

- ~~1. The Utility System Operator's protocol for declaring a High Operational Flow Order (High OFO) is described in Rule No. 41. Any High OFO shall apply to all customers, including wholesale customers and the Utility Gas Procurement Department.~~
- ~~2. The High OFO period shall begin on the flow date(s) indicated by the Utility Gas Control Department. Customers shall be allowed to reduce their nominations or adjust their supply ranking in response to the High OFO.~~
13. In the event customers fail to adequately reduce their transportation nominations, the Utility shall reduce the confirmed receipt point access nominations as defined in Section D.
- ~~4. In accordance with the provisions of Schedule No. G-IMB, Buy Back service shall be applied separately to each High OFO day. Customer meters subject to maximum daily quantity limitations will use the maximum daily quantity as a proxy for daily usage. For the Utility Gas Procurement Department, the Daily Forecast Quantity will be used as a proxy for daily usage. For core aggregators, their Daily Contract Quantity will be used as a proxy for daily usage.~~
- ~~5. A California Producer, with an effective California Producer Operational Balancing Agreement, Form 6452, will be subject to Schedule No. G-IMB Buy Back service during excess nominations days (i.e., High OFO days). For each OFO day, the Utility shall cash out, at the Retail Buy Back Rate as described in Schedule No. G-IMB, all of an individual California Producer's actual deliveries that are in excess of 110% of that particular California Producer's scheduled quantities for that High OFO day. The High OFO day imbalance of a California Producer with an existing access agreement will be treated consistent with the terms of that access agreement.~~

(Continued)

(TO BE INSERTED BY UTILITY)  
ADVICE LETTER NO. 5050  
DECISION NO. 16-07-008

ISSUED BY  
**Dan Skopec**  
Vice President  
Regulatory Affairs

(TO BE INSERTED BY CAL. PUC)  
DATE FILED Oct 25, 2016  
EFFECTIVE Nov 1, 2016  
RESOLUTION NO. \_\_\_\_\_



TRANSPORTATION OF CUSTOMER-OWNED GAS

(Continued)

F. Nominations in Excess of System Capacity ~~High Operational Flow Order~~ (Continued)

~~6. If a Balancing Agent's High-OFO daily gas imbalance exceeds the applicable daily imbalance tolerance by 10,000 therms or less, Buy-Back service will not be applied. If the High-OFO daily gas imbalance exceeds the applicable daily imbalance tolerance by more than 10,000 therms, Buy-Back service will apply to the entire daily imbalance amount that exceeds the Balancing Agent's High-OFO daily imbalance tolerance.\*~~

~~7. SoCalGas will have the discretion to waive High-OFO Buy-Back Service for an electric generation customer under the terms specified in Section G.1.j.\*~~

G. Low-Operational Flow Orders and Emergency Flow Orders

1. Low-Operational Flow Order (~~Low~~-OFO)

- a. The Utility System Operator's protocol for declaring an Low-Operational Flow Order (~~Low~~-OFO) is described in Rule No. 41. All ~~Low~~-OFO declarations will be identified by stage that will specify a Daily Imbalance Tolerance and Noncompliance Charge per the table below.

Stage	Daily Imbalance Tolerance	Noncompliance Charge (\$/therm)
1	Up to +/-25%	0.025
2	Up to +/-20%	0.10
3	Up to +/-15%	0.50
4	Up to +/-5%	2.50
5	Up to +/-5%	2.50 plus Rate Schedule G-IMB daily balancing standby rate
EFO	Zero	5.00 plus Rate Schedule G-IMB daily balancing standby rate

- b. The ~~Low~~-OFO shall apply to all customers financially responsible for managing and clearing transportation imbalances (Balancing Agents), including wholesale customers, Contracted Marketers, core aggregators, California Gas Producers and the Utility Gas Procurement Department.
- c. The ~~Low~~-OFO period shall begin on the flow date(s) indicated by the Utility Gas Control Department. Generally an initial ~~Low~~-OFO event will start at Stage 1; however an Low-OFO event may begin at any stage as deemed appropriate by the Utility Gas Control Department with the corresponding noncompliance charge.

(Continued)

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Regulatory Affairs

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Rule No. 30

Sheet 13

TRANSPORTATION OF CUSTOMER-OWNED GAS

(Continued)

G. ~~Low~~ Operational Flow Orders and Emergency Flow Orders (Continued)

1. ~~Low~~ Operational Flow Order (~~Low~~-OFO) (Continued)

- d. An ~~Low~~-OFO will normally be ordered with at least twelve (12) hours notice prior to the beginning of the gas day, or as necessary as dictated by operating conditions. Charges for the first day of the ~~Low~~-OFO event will not be imposed if notice is given after 8:00 p.m.\* Pacific Time the day prior to the start of the ~~Low~~-OFO event.
- e. ~~Low~~-OFO and EFO compliance and charges will be based on the following for determination of daily usage quantities:
  - i. For a Noncore End-Use Customer equipped with automated meter reading device (AMR) and SDG&E's Electric & Gas Fuel Procurement Department, compliance during an ~~Low~~-OFO will be based on actual daily metered usage, and the calculation after the OFO event of any applicable noncompliance charge will be based on actual daily metered usage.
  - ii. For a Noncore End-Use Customer with non-functioning AMR meters, compliance during an ~~Low~~-OFO or EFO will be based on the Customer's actual daily metered usage; or the estimated daily usage in accordance with Section C of SoCalGas Rule 14 will be substituted for the actual daily metered usage when actual metered usage is not available.
  - iii. For a Noncore End-Use Customer without AMR capability compliance during a Low OFO or EFO will be based on the Customer's MinDQ.
  - iv. For the Utility Gas Procurement Department, the Daily Forecast Quantity will be used as a proxy for daily usage.
  - v. For core aggregators, their Daily Contract Quantity will be used as a proxy for daily usage.
  - vi. For a California Producer with an effective California Producer Operational Balancing Agreement, Form 6452, compliance with an ~~Low~~-OFO and EFO and calculation of any noncompliance charges will be based on the difference between scheduled receipts and measured receipts for each day of an event. ~~Low~~-OFO and EFO compliance for a California Producer with an existing access agreement will be treated consistent with the terms of that access agreement.

(Continued)

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Rule No. 30

Sheet 14

TRANSPORTATION OF CUSTOMER-OWNED GAS

(Continued)

G. ~~Low~~ Operational Flow Orders and Emergency Flow Orders (Continued)

1. ~~Low~~ Operational Flow Order (~~Low~~-OFO) (Continued)

- f. If a Balancing Agent's ~~Low~~-OFO daily gas imbalance exceeds the applicable daily imbalance tolerance by 10,000 therms or less, the ~~Low~~-OFO, noncompliance charge will be zero. If the daily gas imbalance amount exceeds the daily imbalance tolerance by more than 10,000 therms, the Balancing Agent will be responsible for the full noncompliance charge; i.e. 10,000 therms will not be deducted from the daily gas imbalance that exceeds the daily imbalance tolerance. ~~This exemption applies only to Low-OFO noncompliance charges.~~
- g. The daily measurement quantity used to calculate the Noncompliance Charge for each ~~Low~~-OFO event will be the daily quantity recorded as of the month-end close of the applicable month.
- h. *Low OFO noncompliance charges for the gas flow day will be waived when the confirmation process limiting nominations to system capacity cuts previously scheduled BTS nominations during any of the Intraday 1-3 Cycles.\**
- i. *SoCalGas will have the discretion to waive OFO noncompliance charges for an electric generation customer who was dispatched after the Intraday 1 (Cycle 3) nomination deadline in response to (1) a SoCalGas System Operator request to an Electric Grid Operator to reallocate dispatched electric generation load to help maintain gas system reliability and integrity, or (2) an Electric Grid Operator request to the SoCalGas System Operator to help maintain electric system reliability and integrity that can be accommodated by the SoCalGas System Operator at its sole discretion. For electric generators served by a contracted marketer, OFO noncompliance charges can be waived under this section only to the extent the contracted marketer nominates their electric generation customer's gas to the electric generation customer's Order Control Code.\**

2. Emergency Flow Order (EFO)

- a. The Utility System Operator's protocol for declaring an Emergency Flow Order (EFO) is described in Rule No. 41.
- b. During an EFO Customer usage must be less than or equal to scheduled supply for a gas day. EFOs will have a zero percent tolerance and a noncompliance charge of \$5.00 plus the Schedule G-IMB Daily Balancing Standby Rate for each therm of usage in excess of scheduled supply.
- c. The EFO shall apply to all customers financially responsible for managing and clearing transportation imbalances (Balancing Agents), including wholesale customers, Contracted Marketers, core aggregators, California Gas Producers and the Utility Gas Procurement Department.

(Continued)

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TRANSPORTATION OF CUSTOMER-OWNED GAS

(Continued)

G. Low Operational Flow Orders and Emergency Flow Orders (Continued)

2. Emergency Flow Order (EFO)

- d. When an EFO is in effect interruptible storage withdrawals are limited to one half of the capacity normally available for interruptible withdrawals. Interruptible storage withdrawal capacity is equal to Withdrawal Capacity minus confirmed firm storage withdrawal nominations minus withdrawal allocated to the balancing function.
  - e. Daily measurement quantities used to determine EFO compliance and charges are the same as those used to determine ~~Low~~-OFO compliance and charges.
  - f. The daily measurement quantity used to calculate the noncompliance charges for each EFO event will be the daily quantity recorded as of the month-end close of the applicable month.
3. Information regarding the System Sendout, Withdrawal Capacity and Net Withdrawals will be made available to customers on a daily basis via the EBB.
4. If a wholesale customer so requests, the Utility will nominate firm storage withdrawal volumes on behalf of the customer to match 100% of actual usage assuming the customer has sufficient firm storage withdrawal and inventory rights to match the customer's supply and demand.
5. The Utility will accept intra-day nominations to increase deliveries.
6. In all cases, current rules for monthly balancing and monthly imbalance trading continue to apply. Quantities not in compliance with the Daily Imbalance Tolerance that are purchased at the daily balancing standby rate are credited toward the monthly 92% delivery requirements. Daily balancing charges remain independent of monthly balancing charges. Noncore daily balancing and monthly balancing charges go to the Purchased Gas Account (PGA). Net revenues from core daily balancing and monthly balancing charges go to the Noncore Fixed Cost Account (NFCA). Schedule No. G-IMB provides details on monthly and daily balancing charges.

H. Accounting and Billing

- 1. The customer and the Utility acknowledge that on any operating day during the customer's applicable term of transportation service, the Utility may be redelivering quantities of gas to the customer pursuant to other present or future service arrangements. In such an event, the Utility and customer agree that the total quantities of gas shall be accounted for in accordance with the provisions of Rule No. 23. If there is no conflict with Rule No. 23, the quantities of gas shall be accounted for in the following order:
  - a. First, to satisfy any minimum quantities under existing agreements.

(Continued)

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Rule No. 41

Sheet 1

UTILITY SYSTEM OPERATION

The Utility’s operational organization, procedures, and reporting requirements are described herein.

STRUCTURE, PROCEDURES, AND PROTOCOLS

1. The mission of the Utility System Operator is to maintain system reliability and integrity while minimizing costs at all times.
2. The term “Utility System Operator” as defined in Rule No.1 denotes all of the applicable departments within Southern California Gas Company and San Diego Gas & Electric Company responsible for the physical and commercial operation of the pipeline and storage systems specifically excluding the Utility Gas Procurement Department.

The activities involved in meeting any physical flowing gas supply requirements as determined by the Gas Control Department are conducted by the Operational Hub.

3. The Gas Control Department is the sole authority for: operating the pipeline and storage system, developing the system sendout (i.e., demand) forecasts to be used for purposes of determining on a daily basis Southern System minimum flow requirements, and for issuing Operational Flow Orders (“OFOs”).

~~4. The Gas Control Department will fully utilize storage injection capacity prior to issuing a High OFO. The Gas Control Department is responsible for calculating forecasted sendout and physical storage injection capacity. For every nomination cycle, the Gas Scheduling Department shall calculate the system capacity as the sum of forecasted sendout, physical storage injection capacity, and off system scheduled quantities. The forecasted system capacity shall then be compared to the latest on system scheduled quantities. The following table summarizes which scheduled quantities are used in each cycle for the High OFO calculation for both on system and off system volumes:~~

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Rule No. 41  
UTILITY SYSTEM OPERATION

Sheet 2

(Continued)

STRUCTURE, PROCEDURES, AND PROTOCOLS (Continued)

~~4. (Continued)~~

<u>Cycle</u>	<u>Quantity Used for OFO Calculation</u>
1) Timely	<del>Prior Flow Day Evening Cycle Scheduled Quantity</del>
2) Evening*	<del>Current Flow Day Timely Cycle Scheduled Quantity</del>
3) Intraday 1	<del>Current Flow Day Evening Cycle Scheduled Quantity</del>
4) Intraday 2	<del>Current Flow Day Intraday 1 Cycle Scheduled Quantity</del>

~~A High OFO may be issued only if the level of quantities, from the table above, exceeds the forecasted system capacity. System linepack will not be part of the formula used to determine when a High OFO shall be issued. The conditions for issuing a High OFO are summarized below.~~

~~A High OFO is issued if Forecasted System Capacity < On system Scheduled Quantities.~~

~~Where,~~

$$\begin{aligned}
\text{Forecasted System Capacity} = & \text{Forecasted Sendout} \\
& + \text{Physical Storage Injection Capacity} \\
& + \text{Off System Scheduled Quantities}
\end{aligned}$$

~~\* The Utility will provide a minimum one hour notice prior to the Evening Cycle nomination deadline when calling an Evening Cycle High OFO.~~

(Continued)

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Rule No. 41

UTILITY SYSTEM OPERATION

(Continued)

STRUCTURE, PROCEDURES, AND PROTOCOLS (Continued)

45. SoCalGas will issue an ~~an Low~~-OFO if, on a day prior to this Gas Day, in the sole judgment of Gas Control, the system forecast of storage withdrawal or injection used for balancing exceeds the withdrawal or injection capacity allocated to the balancing function. When an ~~an Low~~-OFO is issued customers financially responsible for managing and clearing transportation imbalances (Balancing Agent) will be required to balance supply and demand on a daily basis within a specified tolerance band or be subject to charges for noncompliance. SoCalGas may elect not to issue an ~~an Low~~-OFO for a Gas Day if the system forecast for the following gas day indicates the use of storage withdrawal or injection used for system balancing will return to reasonable levels without the assistance of an ~~an Low~~-OFO.

System linepack will not be part of the formula used by Gas Control to determine when an ~~an Low~~-OFO should be issued.

The storage injection capacity allocated to the balancing function shall be the lesser of 345 MMcf/day or the full amount of available storage injection capacity of the Utility's system.

The criteria for determining ~~Low~~-OFOs may be revised as needed by SoCalGas to maintain the safety and reliability of the pipeline system. These changes, along with a supporting explanation, will be posted as a regular notice on the SoCalGas Envoy EBB.

*Utility will provide a cycle-by-cycle low OFO calculation on the SoCalGas Envoy EBB.\**

56. Should SoCalGas' implementation of an ~~an Low~~-OFO prove to be inadequate to ensure system integrity, SoCalGas may implement other measures including, but not limited to, implementing an Emergency Flow Order (EFO).

SoCalGas may invoke EFOs when a forecast or an actual supply and/or capacity shortage threatens deliveries to End-Use Customers. An EFO will normally be invoked following an ~~an Low~~-OFO but SoCalGas may invoke an EFO without previously invoking an ~~an Low~~-OFO if, in SoCalGas' judgment, emergency operating conditions exist. There shall be no minimum notice period for EFOs: however SoCalGas will attempt to provide as much notification to Customers as practicable under the circumstances.

(Continued)

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Rule No. 41

UTILITY SYSTEM OPERATION

(Continued)

STRUCTURE, PROCEDURES, AND PROTOCOLS (Continued)

67. The minimum flowing supply for the Southern System is a function of the forecasted gas demand for the Southern System, including SDG&E demand, less the capability to provide additional supplies to the Southern System from the Northern System or storage, and other factors, such as but not limited to: the state of the Southern System, demand and supply available on the remainder of the Utility system, and expectations of changing demand patterns. The Gas Control Department estimates the level of demand and the capability to transport supply from the Northern System or storage each day. The Utility System Operator will use all of its available transmission facilities to move gas from the Northern System to the Southern System.

78. The Operational Hub will use the tools authorized by the Commission to support the Southern System minimum flow requirement, including the purchase/sale of spot gas supplies, and the issuance of "Requests For Offers" (RFOs) for proposals to enable the Utility to manage its minimum flow requirements to the Southern System delivery points (in accordance with Sections 910 and 1011 below), and the movement of supplies between the Blythe and Otay Mesa Southern System delivery points. All purchases and sales of spot gas to support the minimum flow requirement will be made subject to Sections 1114 and 1215 below, and the movement of supplies between the Blythe and Otay Mesa Southern System delivery points will be made subject to Section 1516 below. The initial daily quantity of needed supplies will be determined by the Gas Control Department based on the following formula:

Minimum Flowing Supply Requirement minus

Best Available Scheduled Quantities Reflecting Customer Flows into the Southern System =

Additional Supplies Needed by the Gas Control Department

"Best Available Scheduled Quantities" are the last available scheduled quantities. The last available scheduled quantities will be adjusted by the Gas Control Department to account for revised customer nominations for a particular day if the last available scheduled quantities cannot be achieved on the day in question. On those days a lower number would be utilized to reflect expected deliveries. The same would apply if the Gas Control Department becomes aware of pipeline issues such as approaching maintenance or lack of upstream pipeline/supplier performance, in which case the last available scheduled quantities would be reduced to reflect the expected deliveries.

89. Whenever the Gas Control Department determines that additional supplies are needed for the Southern System, the Gas Control Department will promptly contact the Operational Hub for assistance. The Operational Hub will attempt to acquire needed supplies in accordance with Sections 910 through 1920 below.

(Continued)

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Rule No. 41

Sheet 5

UTILITY SYSTEM OPERATION

(Continued)

STRUCTURE, PROCEDURES, AND PROTOCOLS (Continued)

~~10.~~ 9. The Gas Control Department shall be physically separated from those departments engaging in marketing/sales activities, shall have no knowledge of or involvement in any marketing/sales activities, and shall be strictly concerned with the operation, safety, and integrity of the pipeline and storage system. The Operational Hub shall have no access to non-public customer-specific information other than the information it obtains through its own contracts, negotiations, and discussions with customers. The Gas Control Department may communicate with the Operational Hub to discuss changes to the Southern System minimum flow requirements, circumstances that might require the Operational Hub to obtain supplies, and options to ensure minimum flowing supplies requirements are met. Discussions may also take place with regard to short-term operational needs for flowing supplies to support system reliability elsewhere on the system that may arise to support operations and maintenance (O&M) activities, related pipeline integrity work, or to address a force majeure event such as a line breakage or failure.

PURCHASES AND SALES TO MANAGE MINIMUM FLOW SUPPLIES

~~11.~~10. The Utility shall issue an RFO at least annually for proposals enabling the Utility to manage its minimum flow requirements to the Southern System delivery points for system reliability. The Utility, at its sole discretion, may enter into transactions with one or more RFO respondents to provide the best value to the Utility's customers based upon the Utility's evaluation criteria. The RFO shall not be a binding offer by the Utility to enter into a contract for any product(s) or service(s). The Utility shall reserve the right to reject any or all offers submitted in response to the RFO.

~~11.~~12. Any contract with an RFO respondent will be conditioned on the Utility obtaining the prior approval of the California Public Utilities Commission (CPUC) acceptable to the Utility. Respondent offers will be considered non-binding until a definitive agreement is reached between the respondent and the Utility, and the CPUC issues an order approving the definitive agreement memorializing the terms and conditions of the transaction between the respondent and the Utility.

~~13.~~ 12. Except for transactions related to the Utility Gas Procurement Department's role as "provider of last resort" (addressed below in Section ~~12~~13), any gas commodity purchases and sales between the Operational Hub and the Utility Gas Procurement Department or an affiliate of Sempra Energy will occur through an Independent Party, where the counterparties are not known until after the transaction is completed. "Independent Party" refers to gas trading exchanges such as the Intercontinental Exchange (ICE), gas brokers who have been instructed to provide no preference to Sempra affiliates or to the Utility Gas Procurement Department, or open auctions available to all qualified parties conducted by the Operational Hub, in which gas purchases or sales are made with counter-parties that are not known until after the transaction is completed.

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Rule No. 41  
UTILITY SYSTEM OPERATION

Sheet 6

(Continued)

PURCHASES AND SALES TO MANAGE MINIMUM FLOW SUPPLIES (Continued)

1314. The Utility Gas Procurement Department will act on a best-efforts basis to provide gas supplies based on the Operational Hub's request if called upon as a provider of last resort. "Provider of last resort" relates to the circumstance in which the Operational Hub has attempted to use all other available tools, has entered the open market for gas commodity purchases, has been unsuccessful in meeting its need to receive a required volume of flowing supplies at a specific location, and system reliability is therefore jeopardized. If the Operational Hub has exhausted its other options available to acquire the required flowing supplies, it will contact the Utility Gas Procurement Department and request that it provide gas to meet the remaining minimum flow requirement. Such requests will occur as soon as possible during the actual flow day. The Utility Gas Procurement Department will charge the Operational Hub the actual incremental costs incurred to provide the specific supplies. Verification that the Utility has followed this procedure will be included in the annual compliance report provided to the CPUC in conjunction with the Advice Letter addressed in Section 2526 below.

1415. Standards and criteria for spot purchases or sales of gas commodity for which standards and criteria are not specified in CPUC-approved contracts shall be as follows:

- a. Should it be necessary for the Operational Hub to purchase or sell spot supplies of gas in the day-ahead market, the Operational Hub shall be deemed to have made reasonable (1) spot purchases if the purchase price is less than or equal to 110% of the ICE Wtd Avg Index for the flow date for the relevant trading point and (2) spot sales if the sale price is greater than or equal to 90% of the ICE Wtd Avg Index for the flow date for the relevant trading point.
- b. Should it be necessary for the Operational Hub to purchase or sell spot supplies of gas in the intraday market, the Operational Hub shall be deemed to have made reasonable (1) spot purchases if the purchase price is less than or equal to 110% of the ICE High for the current flow date for the relevant trading point and (2) spot sales if the sale price is greater than or equal to 90% of the ICE Low for the current flow date for the relevant trading point.

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Rule No. 41

UTILITY SYSTEM OPERATION

(Continued)

PURCHASES AND SALES TO MANAGE MINIMUM FLOW SUPPLIES (Continued)

1546. Purchases or sales at prices that are outside the ranges specified in Section ~~1314~~ (a) and (b) above shall nevertheless be deemed reasonable if the Operational Hub abides by the following procedure: When the Gas Control Department determines that spot purchases are necessary to meet minimum flow requirements, the Operational Hub shall monitor ICE and record the relevant price information, if available, for deliveries of gas at all relevant trading points. If volumes available on ICE meet or exceed the minimum flow requirements, transactions for the volumes offered through ICE shall be deemed reasonable. The Operational Hub may also post an offer/bid on ICE for volumes. When less than the required volumes are available on ICE, the Operational Hub shall contact gas suppliers (other than the Utility Gas Procurement Department or affiliates), request offers for the necessary supplies, and record their offers for gas delivered to the relevant trading points to ensure at least three offers from three different suppliers are available for comparison. The Operational Hub shall compare prices posted on ICE and, if applicable, prices quoted by its supplier contacts, and select the best prices available to meet the quantities required to meet minimum flow requirements. Verification that the Operational Hub has followed this procedure shall be provided to the CPUC in the Annual Compliance Report described in Section ~~2526~~ below.

1647. When the Gas Control Department determines that deliveries at Otay Mesa are necessary to meet minimum flow requirements, such requirements may be satisfied either through spot purchases at Otay Mesa or through the movement of supplies from Blythe to Otay Mesa. Standards and criteria for spot purchases are set forth above. Should it be necessary for the Operational Hub to move supplies from Blythe to Otay Mesa, the movement shall be deemed to be reasonable if (1) the cost of moving the supplies is less than or equal to the difference between the ICE Wtd Avg Index for the Blythe and the cost of spot gas available for purchase at Otay Mesa for the relevant flow date, or (2) if sufficient spot supplies are not available for purchase at Otay Mesa for the relevant flow date, and the movement fills some or all of the shortfall between supplies needed at Otay Mesa and supplies available for purchase at Otay Mesa.

1748. Purchases and sales other than those described in Sections ~~1415~~ and ~~1516~~ above will not be deemed unreasonable but shall be subject to review and any requests for explanation by the CPUC Energy Division in conjunction with the Annual Compliance Report described in Section ~~2526~~ below.

1849. Standards, criteria and procedures set forth in Sections ~~13, 14, 15 and 16~~ 14, 15, 16, and 17 apply to Operational Hub's purchases and sales as of April 1, 2009.

1920. Should the Operational Hub deem it necessary or advisable to enter into baseload contracts for Southern System support at one or more of the Southern System receipt points, the Operational Hub shall be deemed to have made reasonable baseload purchases if: (1) the total cumulative baseload volumes at any time are less than or equal to 255,000 Dth/day; (2) the price is less than or equal to

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UTILITY SYSTEM OPERATION

(Continued)

PURCHASES AND SALES TO MANAGE MINIMUM FLOW SUPPLIES (Continued)

1920. (Continued)

NGI's Bidweek average for "Southern Cal. Bdr. Avg." plus 8.2 cents/Dth for the relevant baseload month(s); (3) the term is for the December - March period, or any subset of that period; and (4) the baseload contracts can only be made for one season at a time and only within the nine month period directly preceding that season. The Operational Hub shall be deemed to have made reasonable sales of such baseload gas if: (1) for baseload sales, the sale price is greater than or equal to 90% of NGI's Bidweek average for "SoCal Citygate" for the relevant baseload month(s); and (2) for spot sales, the sale price is greater than or equal to 90% of the ICE Wtd Avg Index for the relevant trading point and trading period. This provision shall expire on March 31, 2019, unless extended by the Commission. SoCalGas may seek extension or modification of this provision by standard advice filing or application.

2024. The Utility shall seek CPUC authority for any additional tools (other than system modifications that can be completed without an application under current rules) necessary to meet the Southern System minimum flow requirement through an application. Any contracts that are not obtained through an RFO process relating to already-approved tools (i.e., gas purchases, gas exchanges) will be submitted to the CPUC for approval by Advice Letter. Advice Letters seeking approval of the Operational Hub contractual arrangements shall identify the order in which contracts will be implemented to ensure system reliability and integrity at least cost.

ACCOUNTING TREATMENT

2122. The cost and revenues of Operational Hub transactions (e.g., natural gas purchases, sales, or exchanges resulting from approved contracts) that are necessary to meet minimum flow requirements shall be recorded in the System Reliability Memorandum Account (SRMA). Prospective changes to the types of the Operational Hub natural gas transactions ("tools") to meet minimum flow requirements shall be considered in conjunction with the annual Utility Customer Forum described below.

UTILITY CUSTOMER FORUM

2223. The Utility shall hold an annual Utility Customer Forum (the "Forum"), which shall be held around April - May. The Forum will provide an opportunity for the Utility to provide information on, and to address, the following matters with interested parties:

- i. Review of the timing, method, formulas, and all inputs to formulas by which OFO events are triggered;
- ii. Review of requests for the Operational Hub to acquire additional supplies to meet minimum flow requirements;

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Rule No. 41  
UTILITY SYSTEM OPERATION

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UTILITY CUSTOMER FORUM (Continued)

- iii. Review of Operational Hub purchases/actions to meet minimum flow requirements and plans for the coming year by providing information regarding the individual transactions, including transactions executed pursuant to the Operational Hub contractual arrangements. Transaction-specific information shall identify price, volume, date, delivery/receipt points, and any special terms;
- iv. Review the need for any additional minimum flow requirements on the Utility system beyond then-current defined requirements;
- v. Review potential additional tools to support system operations and potential system improvements to reduce or eliminate the need for any minimum flowing supply requirements.
- vi. Review of the priority rules set forth in Rule No. 30, Section D.3. in the 2012 Forum only.

2324. To facilitate an informed discussion of the issues identified in Section 2422 above, the Utility shall prepare an annual report (Report) of system reliability issues. The Report shall: (a) identify the need for new minimum flow requirements, (b) identify potential tools and/or infrastructure improvements that can be used to mitigate new or existing reliability problems (e.g. minimum flow requirements and OFOs), and (c) provide information on the matters identified in Section 2422 (i) through (v) above.

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2425. The Utility and participants in each Forum shall collaborate in good faith to develop a post-Forum report. Each post-Forum report shall summarize the matters discussed at the relevant Forum and shall identify any action items, tariff changes and/or procedural modifications that were found to be necessary by parties participating in the Forum. The post-Forum report shall include descriptions of the proposals presented by parties. If a party's proposal is rejected by the Utility, the post-Forum report shall provide the basis for the rejection of the proposal. If any party is dissatisfied with the description of its proposal set forth in the post-Forum report or with the Utility's basis for the rejection of the proposal, the Utility shall include that party's own description of its proposal and comments on the rejection of the proposal in an appendix to the post-Forum Report.

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CPUC REPORTING REQUIREMENTS

2526. The Utility shall file each post-Forum report resulting from the Forum with the CPUC by Advice Letter no later than 60 days after conclusion of the relevant Forum. The Utility shall also submit any tariff changes proposed in the Forum and agreed-to by the Utility for the CPUC approval by Advice Letter no later than 60 days after conclusion of each Forum.

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(Continued)

(TO BE INSERTED BY UTILITY)  
ADVICE LETTER NO. 4822  
DECISION NO. 15-06-004

ISSUED BY  
**Dan Skopec**  
Vice President  
Regulatory Affairs

(TO BE INSERTED BY CAL. PUC)  
DATE FILED Jun 29, 2015  
EFFECTIVE Dec 3, 2015  
RESOLUTION NO. \_\_\_\_\_

UTILITY SYSTEM OPERATION

(Continued)

CPUC REPORTING REQUIREMENTS (Continued)

~~26~~<sup>27</sup>. On October 1 of each year, the Utility shall provide a report (“Annual Compliance Report”) demonstrating that the Operational Hub’s procurement activities during the preceding twelve months ending August 31 were in compliance with the standards, criteria and procedures described in Sections ~~9~~<sup>10</sup> through ~~19~~<sup>20</sup> above. The Annual Compliance Report shall be submitted to the Energy Division by Advice Letter and shall be subject to comment or protest. Upon Energy Division review and verification of the Annual Compliance Report and the CPUC Resolution approving the Annual Compliance Report, all the transactions entered into the SRMA balance for the year in question that are found reasonable by the Energy Division shall be amortized in customer transportation rates over the following year.

TEMPORARY SETTLEMENT TERM

~~28~~<sup>27</sup>. The Sections of this Rule italicized and followed by an asterisk (\*) are temporary and will end upon the expiration of the term in the settlement approved by a December 1, 2016 CPUC decision in Application (A).15-06-020. Specifically, that settlement term will conclude upon the earlier of: (1) any superseding decision or order by the Commission, (2) return of Aliso Canyon to at least 450 MMcfd of injection capacity and 1,395 MMcfd of withdrawal capacity, or (3) March 31, 2017.

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SUMMER BASELOAD PROVISION

~~29~~<sup>28</sup>. Should the Operational Hub deem it necessary or advisable to enter into baseload contracts for Southern System support at one or more of the Southern System receipt points, the Operational Hub shall be deemed to have made reasonable baseload purchases if: (1) the total cumulative baseload volumes at any time are less than or equal to 200,000 Dth/day; (2) the price is less than or equal to NGI’s Bidweek average for “Southern Cal. Bdr. Avg.” plus 8.2 cents/Dth for the relevant baseload month(s); and (3) the term is for the August - September period, or any subset of that period. The Operational Hub shall be deemed to have made reasonable sales of such baseload gas if: (1) for baseload sales, the sale price is greater than or equal to 90% of NGI’s Bidweek average for “SoCal Citygate” for the relevant baseload month(s); and (2) for spot sales, the sale price is greater than or equal to 90% of the ICE Wtd Avg Index for the relevant trading point and trading period. This provision shall expire on September 30, 2016, unless extended by the Commission.

(Continued)

(TO BE INSERTED BY UTILITY)  
ADVICE LETTER NO. 5064  
DECISION NO.

ISSUED BY  
**Dan Skopec**  
Vice President  
Regulatory Affairs

(TO BE INSERTED BY CAL. PUC)  
DATE FILED Dec 1, 2016  
EFFECTIVE Dec 1, 2016  
RESOLUTION NO. \_\_\_\_\_

Rule No. 41

Sheet 11

UTILITY SYSTEM OPERATION

(Continued)

SPECIAL CONDITION

~~30-29.~~        The Utility System Operator shall communicate with the California Independent System Operator (CAISO) and other Electric Grid Operators on an as-needed basis to help maintain the reliability of the Utility's natural gas system and the electric grid. Such communications may result in operational changes by the Utility System Operator and changes in electric grid operations and electric generation dispatch order by CAISO and other grid operators. Such operational communications shall not be considered curtailments of natural gas service unless Utility expressly curtails service pursuant to Rule No. 23. SoCalGas and the Utility System Operator are not responsible for electric grid operations or reliability, but will take electric grid reliability into consideration, to the extent feasible, when making operational decisions.

(TO BE INSERTED BY UTILITY)

ADVICE LETTER NO. 5050  
DECISION NO. 16-07-008

11C0

ISSUED BY

**Dan Skopec**  
Vice President  
Regulatory Affairs

(TO BE INSERTED BY CAL. PUC)

DATE FILED Oct 25, 2016  
EFFECTIVE Nov 1, 2016  
RESOLUTION NO. \_\_\_\_\_

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**ATTACHMENT B**

**Advice No. 4997-A**

**Operational Flow Order (OFO) Calculations**



Cycle 1 Confirmed Imbalance						0.97	0.98	Cycle 2 Adjusted					Injection		
Date	Conf Net Receipts C1	Expected Sendout	Conf Withdrawal C1	Conf Injection C1	Cycle 1 Confirmed Imbalance	Adjusted Receipt	Adjusted Sendout	Adjusted Withdrawal	Adjusted Injection	Cycle 2 Adjusted Imbalance	Injection Capacity C2	Trigger C2	57		
2015-07-01	2617150	3735454	800390	60107	-378021	2538636	3660745	800390	60107	-381826	714000	355350	0		
2015-07-02	2590135	3329862	367571	88151	-460307	2512431	3263264	367571	88151	-471413	716000	355350	0		
2015-07-03	2838878	2593787	121228	721449	-355130	2753712	2541911	32732	194791	49741	734000	355350	0		
2015-07-04	2877894	2334408	114894	1158237	-499857	2791557	2287720	31021	312724	222134	735000	355350	0		
2015-07-05	2888880	2375468	114694	1158408	-530302	2802214	2327959	30967	312770	192452	736000	355350	0		
2015-07-06	2850879	2704949	134894	141132	139692	2765353	2650850	36421	38106	112818	737000	355350	0		
2015-07-07	2919811	2730987	59818	708413	-459771	2832217	2676367	16151	191272	-19271	737000	355350	0		
2015-07-08	2941721	2616821	69660	935976	-541416	2853469	2564484	18808	252714	55080	737000	355350	0		
2015-07-09	3004440	2517676	59473	1063223	-516986	2914307	2467322	16058	287070	175972	425000	355350	0		
2015-07-10	2638690	2341418	17600	225000	89872	2559529	2294590	4752	60750	208941	425000	355350	0		
2015-07-11	2562109	1985899	7158	226000	357368	2485246	1946181	1933	61020	479977	426000	355350	1		
2015-07-12	2598405	2057003	59510	928584	-327672	2520453	2015863	16068	250718	269940	364000	355350	0		
2015-07-13	2454668	2535702	59510	778156	-799680	2381028	2484988	16068	210102	-297995	365000	355350	0		
2015-07-14	2800155	2516674	93145	704542	-327916	2716150	2466341	25149	190226	84732	366000	355350	0		
2015-07-15	2706951	2397500	119156	684107	-255500	2625742	2349550	32172	184709	123655	312000	312000	0		
2015-07-16	2915801	2398502	95172	666844	-54373	2828327	2350532	25696	180048	323444	623000	355350	0		
2015-07-17	2851210	2345424	63559	701576	-132231	2765674	2298516	17161	189426	294893	676000	355350	0		
2015-07-18	2882934	2241272	61141	773230	-70427	2796446	2196447	16508	208772	407735	676000	355350	1		
2015-07-19	2846061	2486630	61141	775934	-355362	2760679	2436898	16508	209502	130787	676000	355350	0		
2015-07-20	2863721	2715965	61141	733019	-524122	2777809	2661646	16508	197915	-65244	739000	355350	0		
2015-07-21	2799288	2652873	242627	145986	243056	2715309	2599816	242627	145986	212135	739000	355350	0		
2015-07-22	2867600	2678911	132436	203088	118037	2781572	2625333	35758	54834	137163	737000	355350	0		
2015-07-23	2856047	2585775	59894	105527	224639	2770366	2534060	16171	28492	223985	737000	355350	0		
2015-07-24	2866940	2603802	60001	136778	186361	2780932	2551726	16200	36930	208476	738000	355350	0		
2015-07-25	2868612	2364452	58711	910262	-347391	2782554	2317163	15852	245771	235472	686000	355350	0		
2015-07-26	2917618	2291345	58811	925025	-239941	2830089	2245518	15879	249757	350693	686000	355350	0		
2015-07-27	2910926	2673904	58811	880132	-584299	2823598	2620426	15879	237636	-18584	622000	355350	0		
2015-07-28	2813344	2752018	267679	679717	-350712	2728944	2696978	72273	183524	-79284	674000	355350	0		
2015-07-29	2768829	3231718	357884	144337	-249342	2685764	3167084	357884	144337	-267773	702000	355350	0		
2015-07-30	2713538	3271777	353633	80272	-284878	2632132	3206341	353633	80272	-300848	699000	355350	0		
2015-07-31	2779172	3057464	241593	193658	-230357	2695797	2996315	241593	193658	-252583	698000	355350	0		
2015-08-01	2912815	2668897	109144	797810	-444748	2825431	2615519	29469	215409	23972	760000	355350	0		
2015-08-02	2948744	2591784	129144	1138539	-652435	2860282	2539948	34869	307406	47797	760000	355350	0		
2015-08-03	2940943	2964328	109949	207600	-121036	2852715	2905041	29686	56052	-78692	760000	355350	0		
2015-08-04	2857046	2668897	275942	82497	381594	2771335	2615519	275942	82497	349261	760000	355350	0		
2015-08-05	2780742	2773049	232537	75083	165147	2697320	2717588	232537	75083	137186	734000	355350	0		
2015-08-06	2859470	2668897	143563	71438	262698	2773686	2615519	143563	71438	230292	657000	355350	0		
2015-08-07	2921385	2616821	214205	671048	-152279	2833743	2564484	57835	181183	145912	631000	355350	0		
2015-08-08	2767860	2280329	26757	484051	30237	2684824	2234723	7224	130694	326632	622000	355350	0		
2015-08-09	2774690	2131111	26390	472053	197916	2691449	2088489	7125	127454	482631	674000	355350	1		
2015-08-10	2857773	2546718	96707	849785	-442023	2772040	2495784	26111	229442	72925	674000	355350	0		
2015-08-11	2959045	2624832	95131	89273	340071	2870274	2572336	95131	89273	303796	674000	355350	0		
2015-08-12	2855116	2902237	164626	73534	43971	2769463	2844193	164626	73534	16362	674000	355350	0		
2015-08-13	2632937	3021411	161298	74968	-302144	2553949	2960983	161298	74968	-320704	672000	355350	0		
2015-08-14	2724231	3155607	218155	140638	-353859	2642504	3092495	218155	140638	-372474	723000	355350	0		
2015-08-15	2814904	3109540	350218	803121	-747539	2730457	3047349	94559	216843	-439176	724000	355350	0		
2015-08-16	2803950	2850161	350718	210859	93648	2719832	2793158	350718	210859	66532	724000	355350	0		

Cycle 1 Confirmed Imbalance						0.97	0.98	0.27	Cycle 2 Adjusted					Injection		57
Date	Conf Net Receipts C1	Expected Sendout	Conf Withdrawal C1	Conf Injection C1	Cycle 1 Confirmed Imbalance	Adjusted Receipt	Adjusted Sendout	Adjusted Withdrawal	Adjusted Injection	Cycle 2 Adjusted Imbalance	Injection Capacity C2	Injection Trigger C2				
2015-08-17	2806749	3206682	350718	210859	-260074	2722547	3142548	350718	210859	-280143	723000	355350	0			
2015-08-18	2684258	2922267	302104	620409	-556314	2603730	2863821	81568	167510	-346033	723000	355350	0			
2015-08-19	2927631	2855169	203452	690160	-414246	2839802	2798065	54932	186343	-89674	785000	355350	0			
2015-08-20	2997851	2788071	147656	137010	220426	2907915	2732309	147656	137010	186252	785000	355350	0			
2015-08-21	3037021	2549723	79200	821525	-255027	2945910	2498728	21384	221812	246754	786000	355350	0			
2015-08-22	3003553	2243275	76015	1029063	-192770	2913446	2198410	20524	277847	457714	788000	355350	1			
2015-08-23	2992790	2222244	76015	1064671	-218110	2903006	2177800	20524	287461	458270	788000	355350	1			
2015-08-24	2976049	2822120	76015	928476	-698532	2886768	2765678	20524	250689	-109075	788000	355350	0			
2015-08-25	2773453	2879204	237179	668024	-536596	2690249	2821620	64038	180366	-247698	787000	355350	0			
2015-08-26	2701988	3080498	229576	87462	-236396	2620928	3018888	229576	87462	-255845	759000	355350	0			
2015-08-27	2560880	3083502	214108	77002	-385516	2484054	3021832	214108	77002	-400672	786000	355350	0			
2015-08-28	2743766	3080498	265822	669018	-739928	2661453	3018888	71772	180635	-466297	754000	355350	0			
2015-08-29	2988629	2689927	78476	760301	-383123	2898970	2636129	21189	205281	78749	754000	355350	0			
2015-08-30	2986435	2673904	78476	821738	-430731	2896842	2620426	21189	221869	75735	752000	355350	0			
2015-08-31	2959680	2744006	64884	921262	-640704	2870890	2689126	17519	248741	-49459	703000	355350	0			
2015-09-01	2733265	2697939	78379	651084	-537379	2651267	2643980	21162	175793	-147344	683000	355350	0			
2015-09-02	2892383	2528692	71663	39983	395371	2805612	2478118	71663	39983	359173	684000	355350	1			
2015-09-03	2997226	2482625	47023	889853	-328229	2907309	2432972	12696	240260	246773	681000	355350	0			
2015-09-04	3025158	2375468	41317	999840	-308833	2934403	2327959	11156	269957	347643	735000	355350	0			
2015-09-05	2728702	2075030	7684	535000	126356	2646841	2033529	2075	144450	470937	735000	355350	1			
2015-09-06	2812386	2065015	37796	988210	-203043	2728014	2023715	10205	266817	447688	683000	355350	1			
2015-09-07	2823986	2282332	37796	897006	-317556	2739266	2236686	10205	242192	270594	683000	355350	0			
2015-09-08	2818669	2957318	37796	790266	-891119	2734109	2898171	10205	213372	-367229	683000	355350	0			
2015-09-09	2789628	3368919	639669	88349	-27971	2705939	3301540	639669	88349	-44281	651950	355350	0			
2015-09-10	2607851	3508122	767690	71755	-204336	2529615	3437959	767690	71755	-212409	652000	355350	0			
2015-09-11	2961936	3469065	450703	41849	-98275	2873078	3399684	450703	41849	-117752	651000	355350	0			
2015-09-12	3014436	2822120	45204	774820	-537300	2924003	2765678	12205	209201	-38671	703000	355350	0			
2015-09-13	3086025	2487632	45204	800207	-156610	2993444	2437879	12205	216056	351714	703000	355350	0			
2015-09-14	3078078	2668897	45204	752851	-298466	2985736	2615519	12205	203270	179152	703000	355350	0			
2015-09-15	3076158	2637851	62743	1146114	-645064	2983873	2585094	16941	309451	106269	702000	355350	0			
2015-09-16	3143440	2524686	42796	1072003	-410453	3049137	2474192	11555	289441	297059	702000	355350	0			
2015-09-17	3157502	2583772	46231	1185641	-565680	3062777	2532097	12482	320123	223039	704000	355350	0			
2015-09-18	3288220	2432552	43231	1032143	-133244	3189573	2383900	11672	278679	538667	705000	355350	1			
2015-09-19	3039300	2464598	43230	1014408	-396476	2948121	2415306	11672	273890	270597	704000	355350	0			
2015-09-20	3039198	2645863	38677	981109	-549097	2948022	2592946	10443	264899	100620	704000	355350	0			
2015-09-21	3048160	3158612	42795	894375	-962032	2956715	3095439	11555	241481	-368651	754000	355350	0			
2015-09-22	3227478	3251748	191921	109164	58487	3130654	3186713	191921	109164	26698	754000	355350	0			
2015-09-23	3176407	2848158	103627	159959	271917	3081115	2791195	27979	43189	274710	444000	355350	0			
2015-09-24	3011853	3028421	54682	713655	-675541	2921497	2967853	14764	192687	-224278	444000	355350	0			
2015-09-25	3139132	2951309	169866	64904	292785	3044958	2892283	169866	64904	257637	682000	355350	0			
2015-09-26	3324180	2593787	43444	1059887	-286050	3224455	2541911	11730	286169	408104	683000	355350	1			
2015-09-27	3332240	2596791	51544	1257244	-470251	3232273	2544855	13917	339456	361878	373000	355350	1			
2015-09-28	3252963	2817113	51544	1090972	-603578	3155374	2760771	13917	294562	113958	372000	355350	0			
2015-09-29	3081139	2876199	45444	941587	-691203	2988705	2818675	12270	254228	-71929	372000	355350	0			
2015-09-30	3088926	2747011	43254	946592	-561423	2996258	2692070	11679	255580	60287	372000	355350	0			
2015-10-01	2810889	2435556	11065	172000	214398	2726562	2386845	2988	46440	296265	372000	355350	0			
2015-10-02	3049550	2384481	11421	921452	-244962	2958064	2336792	3084	248792	375563	372000	355350	1			

Cycle 1 Confirmed Imbalance						0.97	0.98	Cycle 2 Adjusted				Injection		57
Date	Conf Net Receipts C1	Expected Sendout	Conf Withdrawal C1	Conf Injection C1	Cycle 1 Confirmed Imbalance	Adjusted Receipt	Adjusted Sendout	Adjusted Withdrawal	Adjusted Injection	Cycle 2 Adjusted Imbalance	Injection Capacity C2	Injection Trigger C2		
2015-10-03	2492101	2104072	11321	172000	227350	2417338	2061991	3057	46440	311964	678300	355350	0	
2015-10-04	2664281	2194204	11455	839809	-358277	2584353	2150319	3093	226748	210378	683000	355350	0	
2015-10-05	2801874	2484628	11455	747292	-418591	2717818	2434935	3093	201769	84207	683000	355350	0	
2015-10-06	3330653	2464598	11421	879305	-1829	3230733	2415306	3084	237412	581098	683000	355350	1	
2015-10-07	3099958	2593787	11421	896700	-379108	3006959	2541911	3084	242109	226023	709000	355350	0	
2015-10-08	3142857	2552727	14421	861716	-257165	3048571	2501672	3894	232663	318129	708000	355350	0	
2015-10-09	3120012	2840147	47921	719727	-391941	3026412	2783344	12939	194326	61680	708000	355350	0	
2015-10-10	3151496	2788071	120088	871887	-388374	3056951	2732309	32424	235409	121656	708000	355350	0	
2015-10-11	3161676	2725980	117883	879053	-325474	3066826	2671460	31828	237344	189849	708000	355350	0	
2015-10-12	3161564	2799087	120088	738410	-255845	3066717	2743105	32424	199371	156665	667000	355350	0	
2015-10-13	3242963	2912252	110368	70505	370574	3145674	2854007	110368	70505	331530	615950	355350	0	
2015-10-14	3237065	2928275	150267	161602	297455	3139953	2869710	40572	43633	267183	657000	355350	0	
2015-10-15	3032370	2905242	147925	78164	196889	2941399	2847137	147925	78164	164023	657475	355350	0	
2015-10-16	3081273	2697939	79700	211526	251508	2988835	2643980	21519	57112	309262	683000	355350	0	
2015-10-17	2858355	2332405	11491	481999	55442	2772604	2285757	3103	130140	359810	683000	355350	1	
2015-10-18	2946428	2339416	11591	1205240	-586637	2858035	2292627	3130	325415	243123	685000	355350	0	
2015-10-19	2874579	2541711	11591	177141	167318	2788342	2490877	3130	47828	252766	683000	355350	0	
2015-10-20	3152762	2492639	15821	936385	-260441	3058179	2442786	4272	252824	366840	632950	355350	1	
2015-10-21	2897785	2410519	17371	908686	-404049	2810851	2362309	4690	245345	207887	431750	355350	0	
2015-10-22	2612453	2358443	17271	123950	147331	2534079	2311274	4663	33467	194002	323000	323000	0	
2015-10-23	2786649	2400505	17441	954376	-550791	2703050	2352495	4709	257682	97582	270000	270000	0	
2015-10-24	2474060	2173173	16871	121000	196758	2399838	2129709	4555	32670	242014	321000	321000	0	
2015-10-25	2576583	2125103	21967	773397	-299950	2499286	2082601	5931	208817	213799	320000	320000	0	
2015-10-26	2594242	2503655	22041	757705	-645077	2516415	2453582	5951	204580	-135797	217000	217000	0	
2015-10-27	2855702	2430549	16200	852034	-410681	2770031	2381938	4374	230049	162418	217000	217000	0	
2015-10-28	2658096	2400505	17566	16000	259157	2578353	2352495	17566	16000	227424	267050	267050	0	
2015-10-29	2858103	2414525	16445	1047488	-587465	2772360	2366235	4440	282822	127744	269000	269000	0	
2015-10-30	2450841	2381477	14756	6000	78120	2377316	2333847	14756	6000	52224	206000	206000	0	
2015-10-31	2486837	2180183	14800	6000	315454	2412232	2136579	14800	6000	284452	206000	206000	1	
2015-11-01	2384961	2116089	5553	7000	267425	2313412	2073768	1499	1890	239254	207000	207000	1	
2015-11-02	2556236	2393495	5570	868175	-699864	2479549	2345625	1504	234407	-98979	83000	83000	0	
2015-11-03	3006914	2559737	5553	959321	-506591	2916707	2508542	1499	259017	150647	135475	135475	1	
2015-11-04	2497450	2393495	5553	0	109508	2422527	2345625	5553	0	82455	135000	135000	0	
2015-11-05	2818235	2585775	5561	894647	-656626	2733688	2534060	1501	241555	-40425	161000	161000	0	
2015-11-06	3041200	2602815	5553	1103117	-659179	2949964	2550759	1499	297842	102863	161000	161000	0	
2015-11-07	2289779	2290237	5570	0	5112	2221086	2244432	5570	0	-17777	161000	161000	0	
2015-11-08	2409670	2210089	5570	870997	-665846	2337380	2165887	1504	235169	-62172	83000	83000	0	
2015-11-09	2534951	2751090	5570	649829	-860398	2458902	2696068	1504	175454	-411115	41000	41000	0	
2015-11-10	3019983	2704002	5553	484535	-163001	2929384	2649922	1499	130824	150136	41000	41000	1	
2015-11-11	2675650	2602815	7553	0	80388	2595381	2550759	7553	0	52175	83000	83000	0	
2015-11-12	2923405	2805190	8111	868885	-742559	2835703	2749086	2190	234599	-145792	41160	41160	0	
2015-11-13	2769217	2578771	8065	0	198511	2686140	2527195	8065	0	167010	93000	93000	1	
2015-11-14	2495767	2448530	6040	0	53277	2420894	2399559	6040	0	27375	124000	124000	0	
2015-11-15	2578039	2542704	6040	726067	-684692	2500698	2491850	1631	196038	-185559	124000	124000	0	
2015-11-16	2616387	3016581	18060	68175	-450309	2537895	2956249	4876	18407	-431885	124000	124000	0	
2015-11-17	3196186	2891349	20611	758940	-433492	3100300	2833522	5565	204914	67430	124000	124000	0	
2015-11-18	2655106	2839253	11567	0	-172580	2575453	2782468	11567	0	-195448	175050	175050	0	

Cycle 1 Confirmed Imbalance						0.97	0.98	0.27	Cycle 2 Adjusted				
Date	Conf Net Receipts C1	Expected Sendout	Conf Withdrawal C1	Conf Injection C1	Cycle 1 Confirmed Imbalance	Adjusted Receipt	Adjusted Sendout	Adjusted Withdrawal	Adjusted Injection	Cycle 2 Adjusted Imbalance	Injection Capacity C2	Trigger C2	57
2015-11-19	2699521	2661925	8611	783252	-737045	2618535	2608686	2325	211478	-199304	177000	177000	0
2015-11-20	2706435	2557732	9129	719402	-561570	2625242	2506577	2465	194239	-73109	125000	125000	0
2015-11-21	2223982	2105896	9466	0	127552	2157263	2063778	9466	0	102951	124000	124000	0
2015-11-22	2267927	2131944	9546	831112	-685583	2199889	2089305	2577	224400	-111239	124000	124000	0
2015-11-23	2395655	2586786	9546	650855	-832440	2323785	2535050	2577	175731	-384418	124000	124000	0
2015-11-24	2732619	2643891	9746	721587	-623113	2650640	2591013	2631	194828	-132570	124000	124000	0
2015-11-25	2826620	2472574	43046	197343	199749	2741821	2423123	11622	53283	277038	124000	124000	1
2015-11-26	2315580	2384411	30176	0	-38655	2246113	2336723	30176	0	-60434	124000	124000	0
2015-11-27	2341274	2436508	32656	420057	-482635	2271036	2387777	8817	113415	-221340	124000	124000	0
2015-11-28	2350575	2363372	32965	426927	-406759	2280058	2316105	8901	115270	-142417	124000	124000	0
2015-11-29	2332656	2857286	29965	431538	-926203	2262676	2800140	8091	116515	-645889	124000	124000	0
2015-11-30	2411121	3428342	29803	413572	-1400990	2338787	3359776	8047	111664	-1124606	124000	124000	0
2015-12-01	2694934	3360216	655516	677307	-687073	2614086	3293012	176989	182873	-684810	202000	202000	0
2015-12-02	2853177	3140810	171660	413418	-529391	2767582	3077994	46348	111623	-375687	202000	202000	0
2015-12-03	2932135	3119772	440302	760438	-507773	2844171	3057376	118882	205318	-299642	202000	202000	0
2015-12-04	3258927	2995542	372862	710829	-74582	3161159	2935631	100673	191924	134277	202000	202000	0
2015-12-05	2536530	2607824	24820	2001	-48475	2460434	2555668	24820	2001	-72415	202000	202000	0
2015-12-06	2560900	2712017	313951	821912	-659078	2484073	2657777	84767	221916	-310853	234000	234000	0
2015-12-07	2594253	3030607	414251	368108	-390211	2516425	2969994	414251	368108	-407426	213000	213000	0
2015-12-08	3113116	2735060	349762	519232	208586	3019723	2680359	94436	140193	293607	135000	135000	1
2015-12-09	2248373	2709012	550471	0	89832	2180922	2654831	550471	0	76561	135000	135000	0
2015-12-10	2697908	2813204	820045	531501	173248	2616971	2756940	820045	531501	148574	135000	135000	1
2015-12-11	2808989	2943445	1084968	459036	491476	2724719	2884576	1084968	459036	466075	135000	135000	1
2015-12-12	2356079	2792166	814388	107420	270881	2285397	2736322	814388	107420	256042	134000	134000	1
2015-12-13	2419228	2932425	812269	114151	184921	2346651	2873776	812269	114151	170993	134000	134000	1
2015-12-14	2412217	3169864	972568	90942	123979	2339850	3106467	972568	90942	115010	135000	135000	0
2015-12-15	2432828	3344187	1227938	16468	300111	2359843	3277303	1227938	16468	294010	135000	135000	1
2015-12-16	2424583	4059510	1403593	28496	-259830	2351846	3978320	1403593	28496	-251377	135000	135000	0
2015-12-17	2367007	4003406	1283582	16071	-368888	2295997	3923338	1283582	16071	-359830	134000	134000	0
2015-12-18	2416956	3799028	966584	59393	-474881	2344447	3723048	966584	59393	-471409	135000	135000	0
2015-12-19	2243909	3226970	1114211	15250	115900	2176592	3162430	1114211	15250	113122	187000	187000	0
2015-12-20	2218123	3352202	1001861	13882	-146100	2151579	3285158	1001861	13882	-145599	187000	187000	0
2015-12-21	2266520	3746932	1139391	16059	-357080	2198524	3671993	1139391	16059	-350137	187000	187000	0
2015-12-22	2285469	3587637	933628	183802	-552342	2216905	3515884	933628	183802	-549153	186000	186000	0
2015-12-23	2283938	3041627	1220087	6846	455552	2215420	2980794	1220087	6846	447866	134000	134000	1
2015-12-24	2179467	2948455	1244484	6010	469486	2114083	2889486	1244484	6010	463071	134000	134000	1
2015-12-25	2169566	3067675	1093560	3616	191835	2104479	3006322	1093560	3616	188101	134000	134000	1
2015-12-26	2172575	3509493	1113380	3612	-227150	2107398	3439303	1113380	3612	-222137	114000	114000	0
2015-12-27	2172535	3438361	1113380	3610	-156056	2107359	3369594	1113380	3610	-152465	114000	114000	0
2015-12-28	2317706	4245855	1108445	28713	-848417	2248175	4160938	1108445	28713	-833031	114000	114000	0
2015-12-29	2267759	4093573	1895834	27157	42863	2199726	4011702	1895834	27157	56702	114000	114000	0
2015-12-30	2359114	3900215	2168076	6623	620352	2288341	3822211	2168076	6623	627582	190575	190575	1
2015-12-31	2198281	3859139	1547253	46922	-160527	2132333	3781957	1547253	46922	-149293	171000	171000	0
2016-01-01	2501397	3542513	1020965	0	-20151	2426355	3471663	1020965	0	-24343	191000	191000	0
2016-01-02	2492736	3328819	927275	0	91192	2417954	3262242	927275	0	82987	165000	165000	0
2016-01-03	2533406	3328819	931491	0	136078	2457404	3262242	931491	0	126653	165000	165000	0
2016-01-04	2523498	3786305	932291	0	-330516	2447793	3710579	932291	0	-330495	140000	140000	0

Cycle 1 Confirmed Imbalance						0.97	0.98	0.27	Cycle 2 Adjusted			Injection		57
Date	Conf Net Receipts C1	Expected Sendout	Conf Withdrawal C1	Conf Injection C1	Cycle 1 Confirmed Imbalance	Adjusted Receipt	Adjusted Sendout	Adjusted Withdrawal	Adjusted Injection	Cycle 2 Adjusted Imbalance	Injection Capacity C2	Injection Trigger C2	57	
2016-01-05	2516879	3344871	1309881	12586	469303	2441373	3277973	1309881	12586	460694	192000	192000	1	
2016-01-06	2865846	3760221	920065	92	25598	2779871	3685016	920065	92	14827	140000	140000	0	
2016-01-07	2720525	3812390	975659	0	-116206	2638909	3736142	975659	0	-121574	192000	192000	0	
2016-01-08	2522789	3812390	1466938	47293	130044	2447105	3736142	1466938	47293	130608	114000	114000	1	
2016-01-09	2501414	3415099	1353023	2822	436516	2426372	3346797	1353023	2822	429775	114000	114000	1	
2016-01-10	2521952	3324806	1053736	2822	248060	2446293	3258310	1053736	2822	238898	114000	114000	1	
2016-01-11	2524561	3708051	1147076	2822	-39236	2448824	3633890	1147076	2822	-40812	114000	114000	0	
2016-01-12	2516164	3606722	1101383	3210	7615	2440679	3534587	1101383	3210	4265	114000	114000	0	
2016-01-13	2535961	3763230	1037959	12910	-202220	2459882	3687966	1037959	12910	-203035	114000	114000	0	
2016-01-14	2522010	3744169	989004	2910	-236065	2446350	3669285	989004	2910	-236841	114000	114000	0	
2016-01-15	2419678	3289691	902121	0	32108	2347088	3223898	902121	0	25311	114000	114000	0	
2016-01-16	2319006	3087033	969217	18976	182214	2249436	3025292	969217	18976	174385	114000	114000	1	
2016-01-17	2236560	3002759	831647	12750	52698	2169463	2942704	831647	12750	45656	20000	20000	1	
2016-01-18	2259461	2991723	862912	18249	112401	2191677	2931889	862912	18249	104452	20000	20000	1	
2016-01-19	2245884	3333835	904912	18233	-201272	2178507	3267158	904912	18233	-201972	20000	20000	0	
2016-01-20	2289354	3289691	842755	0	-157582	2220673	3223898	842755	0	-160469	83000	83000	0	
2016-01-21	2379823	2898420	832055	0	313458	2308428	2840451	832055	0	300032	83000	83000	1	
2016-01-22	1921836	2898420	832268	0	-144316	1864181	2840451	832268	0	-144003	52000	52000	0	
2016-01-23	2445710	2846250	596290	10285	185465	2372339	2789325	596290	10285	169018	52000	52000	1	
2016-01-24	2441579	2898420	735191	22857	255493	2368332	2840451	735191	22857	240214	52000	52000	1	
2016-01-25	2453041	3289691	666101	10285	-180834	2379450	3223898	666101	10285	-188632	83000	83000	0	
2016-01-26	2997893	3159268	228433	0	67058	2907956	3096082	228433	0	40307	83000	83000	0	
2016-01-27	2942045	2898420	224595	179980	88240	2853784	2840451	224595	179980	57947	114000	114000	0	
2016-01-28	2857374	3057938	112477	508822	-596909	2771653	2996780	30369	137382	-332140	229000	229000	0	
2016-01-29	2700138	2929521	93330	503896	-639949	2619134	2870931	25199	136052	-362649	255000	255000	0	
2016-01-30	2721911	2577376	92840	455993	-218618	2640254	2525829	25067	123118	16373	307000	307000	0	
2016-01-31	2801205	3037873	91072	403896	-549492	2717169	2977116	24589	109052	-344409	307000	307000	0	
2016-02-01	2675420	3557562	1411568	10266	519160	2595157	3486411	1411568	10266	510049	307000	307000	1	
2016-02-02	2754845	4025082	1053797	3	-216443	2672200	3944580	1053797	3	-218586	307000	307000	0	
2016-02-03	2626865	3801354	884325	10003	-300167	2548059	3725327	884325	10003	-302946	306000	306000	0	
2016-02-04	2604753	3440181	926682	0	91254	2526610	3371377	926682	0	81915	306000	306000	0	
2016-02-05	2726778	3260597	323415	89	-210493	2644975	3195385	323415	89	-227084	306000	306000	0	
2016-02-06	2437748	2603461	128928	50089	-86874	2364616	2551392	128928	50089	-107937	306000	306000	0	
2016-02-07	2296807	2399799	94888	89	-8193	2227903	2351803	94888	89	-29102	306000	306000	0	
2016-02-08	2451214	2864309	96612	89	-316572	2377678	2807023	96612	89	-332822	306000	306000	0	
2016-02-09	2506250	2660647	110926	289	-43760	2431063	2607434	110926	289	-65735	228000	228000	0	
2016-02-10	2557858	2543266	119788	54157	80223	2481122	2492400	119788	54157	54353	176950	176950	0	
2016-02-11	2501838	2439930	124734	20089	166553	2426783	2391131	124734	20089	140297	20000	20000	1	
2016-02-12	2422695	2390770	126641	0	158566	2350014	2342955	126641	0	133701	20000	20000	1	
2016-02-13	2337461	2137948	75277	0	274790	2267337	2095189	75277	0	247425	145000	145000	1	
2016-02-14	2334526	2291447	55629	442898	-344190	2264490	2245618	15020	119582	-85691	186420	186420	0	
2016-02-15	2290414	2345623	61361	22	6130	2221702	2298711	61361	22	-15670	187000	187000	0	
2016-02-16	2322630	2554301	55981	12	-175702	2252951	2503215	55981	12	-194295	187000	187000	0	
2016-02-17	2738884	2554301	66043	452094	-201468	2656717	2503215	17832	122065	49268	187000	187000	0	
2016-02-18	2827348	2709807	57626	10158	165009	2742528	2655611	57626	10158	134385	187000	187000	0	
2016-02-19	2645376	2657637	78738	0	66477	2566015	2604485	78738	0	40268	187000	187000	0	
2016-02-20	2434700	2293454	47622	38000	150868	2361659	2247585	47622	38000	123696	197000	197000	0	

	0.97					0.98					0.27				
	Cycle 1 Confirmed Imbalance					Cycle 2 Adjusted					Injection				
Date	Conf Net Receipts C1	Expected Sendout	Conf Withdrawal C1	Conf Injection C1	Cycle 1 Confirmed Imbalance	Adjusted Receipt	Adjusted Sendout	Adjusted Withdrawal	Adjusted Injection	Cycle 2 Adjusted Imbalance	Capacity C2	Trigger C2	57		
2016-02-21	2389691	2230248	37577	429807	-232787	2318000	2185643	10146	116048	26455	197000	197000	0		
2016-02-22	2448272	2595435	38436	3	-108730	2374824	2543526	38436	3	-130270	197000	197000	0		
2016-02-23	2573405	2533233	75050	9	115213	2496203	2482568	75050	9	88676	223000	223000	0		
2016-02-24	2525866	2595435	131240	3	61668	2450090	2543526	131240	3	37801	265000	265000	0		
2016-02-25	2576584	2517181	77349	3	136749	2499286	2466837	77349	3	109795	265000	265000	0		
2016-02-26	2602461	2449962	57995	4020	206474	2524387	2400963	57995	4020	177399	264000	264000	0		
2016-02-27	2325253	2267369	42983	64000	36867	2255495	2222022	11605	17280	27799	264000	264000	0		
2016-02-28	2335187	2295460	37707	410926	-333492	2265131	2249551	10181	110950	-85189	265000	265000	0		
2016-02-29	2378552	2478054	39089	6119	-66532	2307195	2428493	39089	6119	-88327	187000	187000	0		
2016-03-01	2582080	2530223	44215	33447	62625	2504618	2479619	44215	33447	35767	187000	187000	0		
2016-03-02	2642032	2430900	43307	485134	-230695	2562771	2382282	11693	130986	61195	145000	145000	0		
2016-03-03	2734575	2601455	57498	194790	-4172	2652538	2549426	15524	52593	66043	186000	186000	0		
2016-03-04	2731764	2442940	53776	600737	-258137	2649811	2394081	14520	162199	108051	186000	186000	0		
2016-03-05	2339897	2369702	43337	0	13532	2269700	2322307	43337	0	-9270	186000	186000	0		
2016-03-06	2399154	2814146	43453	445451	-816990	2327179	2757863	11732	120272	-539223	187000	187000	0		
2016-03-07	2391807	3225483	158438	10382	-685620	2320053	3160973	158438	10382	-692864	186000	186000	0		
2016-03-08	2934926	2996739	50816	101345	-112342	2846878	2936805	13720	27363	-103569	166000	166000	0		
2016-03-09	2775922	2918485	47182	150625	-246006	2692644	2860115	12739	40669	-195401	166000	166000	0		
2016-03-10	2612894	2657637	43330	121083	-122496	2534507	2604485	11699	32692	-90971	166000	166000	0		
2016-03-11	2715841	2689742	43136	169582	-100347	2634366	2635947	11647	45787	-35721	165000	165000	0		
2016-03-12	2307276	2401806	49259	0	-45271	2238058	2353770	49259	0	-66453	165000	165000	0		
2016-03-13	2389132	2460998	172794	10608	90320	2317458	2411778	172794	10608	67866	185000	185000	0		
2016-03-14	2393386	2694758	210121	12200	-103451	2321584	2640863	210121	12200	-121357	185000	185000	0		
2016-03-15	2412011	2668673	43622	375	-213415	2339651	2615300	43622	375	-232402	185000	185000	0		
2016-03-16	2848550	2536243	53622	301375	64554	2763094	2485518	14478	81371	210682	185000	185000	1		
2016-03-17	2328334	2383747	58854	0	3441	2258484	2336072	58854	0	-18734	185000	185000	0		
2016-03-18	2413278	2362679	49181	278852	-179072	2340880	2315425	13279	75290	-36557	186000	186000	0		
2016-03-19	2071046	2155004	43389	0	-40569	2008915	2111904	43389	0	-59600	186000	186000	0		
2016-03-20	2189593	2155004	40773	175154	-99792	2123905	2111904	11009	47292	-24281	186000	186000	0		
2016-03-21	2219006	2511161	58908	23454	-256701	2152436	2460938	58908	23454	-273048	185000	185000	0		
2016-03-22	2511127	2368698	54728	102045	95112	2435793	2321324	14777	27552	101693	185000	185000	0		
2016-03-23	2462419	2435917	74756	180375	-79117	2388546	2387198	20184	48701	-27169	165000	165000	0		
2016-03-24	2432717	2383747	45528	297352	-202854	2359735	2336072	12293	80285	-44329	165000	165000	0		
2016-03-25	2278754	2344620	61502	187392	-191756	2210391	2297728	16606	50596	-121327	185000	185000	0		
2016-03-26	2202333	2009531	44928	0	237730	2136263	1969340	44928	0	211851	186000	186000	1		
2016-03-27	2272672	1993479	44788	463077	-139096	2204492	1953609	12093	125031	137945	186000	186000	0		
2016-03-28	2268169	2544269	65185	185399	-396314	2200124	2493383	17600	50058	-325717	165000	165000	0		
2016-03-29	2422499	2466015	60867	71936	-54585	2349824	2416694	16434	19423	-69859	165000	165000	0		
2016-03-30	2674652	2534236	45619	170375	15660	2594412	2483552	12317	46001	77177	164000	164000	0		
2016-03-31	2516483	2511161	46902	110387	-58163	2440989	2460938	12664	29804	-37090	165000	165000	0		
2016-04-01	2100575	2419395	74398	5619	-250041	2037558	2371007	74398	5619	-264670	165000	165000	0		
2016-04-02	2090442	1970394	75783	210765	-14934	2027729	1930986	20461	56907	60297	186000	186000	0		
2016-04-03	2136935	1986430	78717	237026	-7804	2072827	1946701	21254	63997	83382	186000	186000	0		
2016-04-04	2168508	2365275	78557	212097	-330307	2103453	2317970	21210	57266	-250573	186000	186000	0		
2016-04-05	2292877	2489552	92670	43335	-147340	2224091	2439761	92670	43335	-166335	186000	186000	0		
2016-04-06	2478462	2410375	78879	14022	132944	2404108	2362168	78879	14022	106798	185000	185000	0		
2016-04-07	2535679	2428415	43965	31290	119939	2459609	2379847	43965	31290	92437	185000	185000	0		

Cycle 1 Confirmed Imbalance						0.97	0.98	Cycle 2 Adjusted					Injection		57
Date	Conf Net Receipts C1	Expected Sendout	Conf Withdrawal C1	Conf Injection C1	Cycle 1 Confirmed Imbalance	Adjusted Receipt	Adjusted Sendout	Adjusted Withdrawal	Adjusted Injection	Cycle 2 Adjusted Imbalance	Injection Capacity C2	Injection Trigger C2			
2016-04-08	2418971	2528639	46262	25574	-88980	2346402	2478066	46262	25574	-110976	186000	186000	0		
2016-04-09	2360690	2381310	50375	39096	-9341	2289869	2333684	50375	39096	-32536	185000	185000	0		
2016-04-10	2360632	2260040	50715	49096	102211	2289813	2214839	50715	49096	76593	186000	186000	0		
2016-04-11	2365000	2414384	51195	27767	-25956	2294050	2366096	51195	27767	-48618	20000	20000	0		
2016-04-12	2417639	2336210	49432	121878	8983	2345110	2289486	13347	32907	36064	20210	20210	1		
2016-04-13	2591431	2437435	45857	127827	72026	2513688	2388686	12381	34513	102870	164840	164840	0		
2016-04-14	2312977	2318170	64333	177827	-118687	2243588	2271807	17370	48013	-58862	165000	165000	0		
2016-04-15	2448636	2228971	43995	136486	127174	2375177	2184392	11879	36851	165813	165000	165000	1		
2016-04-16	2173605	2060595	44369	5000	152379	2108397	2019383	44369	5000	128383	205000	205000	0		
2016-04-17	2246850	2078635	44285	244054	-31554	2179445	2037062	11957	65895	88445	207000	207000	0		
2016-04-18	2247351	2463494	44436	218223	-389930	2179930	2414224	11998	58920	-281216	206000	206000	0		
2016-04-19	2539031	2332201	53762	49009	211583	2462860	2285557	53762	49009	182056	206000	206000	0		
2016-04-20	2320853	2319172	51726	64249	-10842	2251227	2272789	13966	17347	-24942	207000	207000	0		
2016-04-21	2415186	2258035	48462	64582	141031	2342730	2212874	13085	17437	125504	207000	207000	0		
2016-04-22	2250109	2100685	43895	7000	186319	2182606	2058671	43895	7000	160829	206000	206000	0		
2016-04-23	2106695	2026519	44160	218438	-94102	2043494	1985989	11923	58978	10450	248000	248000	0		
2016-04-24	2153748	1996452	43895	326944	-125753	2089136	1956523	11852	88275	56189	248000	248000	0		
2016-04-25	2153226	2329194	47513	254950	-383405	2088629	2282610	12829	68837	-249989	247000	247000	0		
2016-04-26	2561808	2153803	48933	302592	154346	2484954	2110727	13212	81700	305739	247000	247000	1		
2016-04-27	2427038	2209928	46395	260219	3286	2354227	2165729	12527	70259	130765	247000	247000	0		
2016-04-28	2344754	2178859	47508	203640	9763	2274411	2135282	12827	54983	96974	248000	248000	0		
2016-04-29	2224353	2072622	46668	273450	-75051	2157622	2031170	12600	73832	65222	227000	227000	0		
2016-04-30	2198819	1917276	46445	267754	60234	2132854	1878930	12540	72294	194171	248000	248000	0		
2016-05-01	1987249	1974403	77380	196690	-106464	1927632	1934915	20893	53106	-39497	248000	248000	0		
2016-05-02	2044128	2222957	82380	215340	-311789	1982804	2178498	22243	58142	-231593	248000	248000	0		
2016-05-03	2200706	2295118	79880	171248	-185780	2134685	2249216	21568	46237	-139200	248000	248000	0		
2016-05-04	2431219	2336210	79837	277107	-102261	2358282	2289486	21556	74819	15534	227000	227000	0		
2016-05-05	2383106	2411377	79880	261774	-210165	2311613	2363149	21568	70679	-100648	228000	228000	0		
2016-05-06	2453306	2250018	48766	222705	29349	2379707	2205018	13167	60130	127726	227000	227000	0		
2016-05-07	2151353	2090662	41766	27002	75455	2086812	2048849	41766	27002	52728	226000	226000	0		
2016-05-08	2192568	2100685	44766	254968	-118319	2126791	2058671	12087	68841	11365	226000	226000	0		
2016-05-09	2205713	2333203	44766	210623	-293347	2139542	2286539	12087	56868	-191779	226000	226000	0		
2016-05-10	2480656	2333203	41795	214675	-25427	2406236	2286539	11285	57962	73020	226000	226000	0		
2016-05-11	2445393	2430420	41766	201758	-145019	2372031	2381812	11277	54475	-52978	247420	247420	0		
2016-05-12	2378253	2245006	43256	251912	-75409	2306905	2200106	11679	68016	50462	226000	226000	0		
2016-05-13	2375118	2252022	40566	197720	-34058	2303864	2206982	10953	53384	54451	227000	227000	0		
2016-05-14	2013292	2066609	41723	27000	-38594	1952893	2025277	41723	27000	-57661	226000	226000	0		
2016-05-15	2045666	2014492	41766	215632	-142692	1984296	1974202	11277	58221	-36850	226000	226000	0		
2016-05-16	2104033	2273069	43266	185722	-311492	2040912	2227608	11682	50145	-225159	226000	226000	0		
2016-05-17	2525968	2297123	40266	210850	58261	2450189	2251181	10872	56930	152951	164000	164000	0		
2016-05-18	2288995	2318170	41766	174764	-162173	2220325	2271807	11277	47186	-87391	185000	185000	0		
2016-05-19	2343261	2284094	41879	195221	-94175	2272963	2238412	11307	52710	-6851	185000	185000	0		
2016-05-20	2443343	2198904	41766	223387	62818	2370043	2154926	11277	60314	166079	185000	185000	0		
2016-05-21	2152842	2016497	41866	27000	151211	2088257	1976167	41866	27000	126956	227000	227000	0		
2016-05-22	2121070	2072622	44466	188486	-95572	2057438	2031170	12006	50891	-12617	226000	226000	0		
2016-05-23	2187359	2278080	44266	174329	-220784	2121738	2232518	11952	47069	-145897	227000	227000	0		
2016-05-24	2520996	2329194	43266	250011	-14943	2445366	2282610	11682	67503	106935	227000	227000	0		

Cycle 1 Confirmed Imbalance						0.97	0.98	0.27	Cycle 2 Adjusted			Injection		57
Date	Conf Net Receipts C1	Expected Sendout	Conf Withdrawal C1	Conf Injection C1	Cycle 1 Confirmed Imbalance	Adjusted Receipt	Adjusted Sendout	Adjusted Withdrawal	Adjusted Injection	Cycle 2 Adjusted Imbalance	Capacity C2	Trigger C2		
2016-05-25	2466834	2381310	43766	175061	-45771	2392829	2333684	11817	47266	23696	247000	247000	0	
2016-05-26	2377225	2101687	41766	227547	89757	2305908	2059653	11277	61438	196094	247000	247000	0	
2016-05-27	2413980	2173848	41766	219650	62248	2341561	2130371	11277	59306	163161	289000	289000	0	
2016-05-28	2175374	1954358	55966	88000	188982	2110113	1915271	15111	23760	186193	288000	288000	0	
2016-05-29	2184392	1939325	41316	194745	91638	2118860	1900539	11155	52581	176896	288000	288000	0	
2016-05-30	2181888	2025517	41316	211404	-13717	2116431	1985007	11155	57079	85501	257000	257000	0	
2016-05-31	2236509	2269060	49126	172920	-156345	2169414	2223679	13264	46688	-87689	257000	257000	0	
2016-06-01	2583638	2320174	19851	468694	-185379	2506129	2273771	5360	126547	111171	205000	205000	0	
2016-06-02	2508896	2421400	19851	5000	102347	2433629	2372972	19851	5000	75508	205000	205000	0	
2016-06-03	2837836	2626858	19851	45999	184830	2752701	2574321	5360	12420	171320	246000	246000	0	
2016-06-04	2631033	2120729	21040	47002	484342	2552102	2078314	5681	12691	466778	247000	247000	1	
2016-06-05	2582603	2151799	19866	47001	403669	2505125	2108763	5364	12690	389035	247000	247000	1	
2016-06-06	2614770	2410375	19866	35937	188324	2536327	2362168	5364	9703	169820	247000	247000	0	
2016-06-07	2435109	2275073	19851	47000	132887	2362056	2229572	5360	12690	125154	206000	206000	0	
2016-06-08	2487788	2312156	19851	47000	148483	2413154	2265913	5360	12690	139911	247000	247000	0	
2016-06-09	2288313	2275073	19851	47000	-13909	2219664	2229572	5360	12690	-17238	247000	247000	0	
2016-06-10	2268127	2147790	19976	16837	123476	2200083	2104834	19976	16837	98388	247000	247000	0	
2016-06-11	2112399	2018501	19276	89000	24174	2049027	1978131	5205	24030	52071	289000	289000	0	
2016-06-12	2152281	2029526	19276	89002	53029	2087713	1988935	5205	24031	79951	289000	289000	0	
2016-06-13	2172449	2230975	21376	58906	-96056	2107276	2186356	5772	15905	-89213	289000	289000	0	
2016-06-14	2289765	2191888	19891	72234	45534	2221072	2148050	5371	19503	58889	289000	289000	0	
2016-06-15	2256495	2247011	20191	48807	-19132	2188800	2202071	5452	13178	-20997	247000	247000	0	
2016-06-16	2408837	2275073	19766	47000	106530	2336572	2229572	5337	12690	99647	247000	247000	0	
2016-06-17	2456758	2495565	19851	47191	-66147	2383055	2445654	5360	12742	-69980	247000	247000	0	
2016-06-18	2991611	2173848	19241	89000	748004	2901863	2130371	5195	24030	752657	289000	289000	1	
2016-06-19	3069906	2484541	32968	38490	579843	2977809	2434850	8901	10392	541468	289000	289000	1	
2016-06-20	3152131	3297353	639557	9629	484706	3057567	3231406	639557	9629	456089	287000	287000	1	
2016-06-21	3126190	3093899	369368	6488	395171	3032404	3032021	369368	6488	363263	246000	246000	1	
2016-06-22	2966262	2893452	19851	47000	45661	2877274	2835583	5360	12690	34361	206000	206000	0	
2016-06-23	2669085	2608818	27879	6001	82145	2589012	2556642	27879	6001	54249	206000	206000	0	
2016-06-24	2449384	2443449	19766	6001	19700	2375902	2394580	19766	6001	-4913	206000	206000	0	
2016-06-25	2681876	2268058	17766	88000	343584	2601420	2222697	4797	23760	359760	288000	288000	1	
2016-06-26	2674858	2582760	18766	88856	22008	2594612	2531105	5067	23991	44583	289000	289000	0	
2016-06-27	2769365	2847350	233175	11399	143791	2686284	2790403	233175	11399	117657	289000	289000	0	
2016-06-28	2956387	2963609	270801	10160	253419	2867695	2904337	270801	10160	224000	247000	247000	0	
2016-06-29	2519906	2937551	231102	11084	-197627	2444309	2878800	231102	11084	-214473	206000	206000	0	
2016-06-30	2673196	2761157	118357	0	30396	2593000	2705934	118357	0	5423	185000	185000	0	



Date	Cycle 2 Confirmed Imbalance					0.97	0.98	0.27			Cycle 3 Adjusted		Injection		73
	Conf Net Receipts C2	Expected Sendout	Conf Withdrawal C2	Conf Injection C2	Cycle 2 Confirmed Imbalance	Adjusted Receipt	Adjusted Sendout	Adjusted Withdrawal	Adjusted Injection	Cycle 3 Adjusted Imbalance	Injection Capacity C3	Trigger C3			
2015-07-01	2820307	3735454	804718	60090	-170519	2735698	3660745	804718	60090	-180419	714000	355350	0		
2015-07-02	2794142	3329862	367571	78566	-246715	2710318	3263264	367571	78566	-263942	714000	355350	0		
2015-07-03	2902894	2593787	121228	129018	301317	2815807	2541911	32732	34835	271793	735000	355350	0		
2015-07-04	2945701	2334408	114894	1158332	-432145	2857330	2287720	31021	312750	287882	736000	355350	0		
2015-07-05	2952310	2375468	114894	1158691	-466955	2863741	2327959	31021	312847	253957	736000	355350	0		
2015-07-06	2914082	2704949	134894	140818	203209	2826660	2650850	36421	38021	174210	737000	355350	0		
2015-07-07	3001258	2730987	59818	115330	214759	2911220	2676367	16151	31139	219865	425000	355350	0		
2015-07-08	3018344	2616821	69660	344097	127086	2927794	2564484	18808	92906	289212	425000	355350	0		
2015-07-09	3036382	2517676	59473	1089600	-511421	2945291	2467322	16058	294192	199834	425000	355350	0		
2015-07-10	2687256	2341418	13252	420399	-61309	2606638	2294590	3578	113508	202119	426000	355350	0		
2015-07-11	2592906	1985899	7158	355771	258394	2515119	1946181	1933	96058	474812	426000	355350	1		
2015-07-12	2588063	2057003	59510	868302	-277732	2510421	2015863	16068	234442	276184	365000	355350	0		
2015-07-13	2574664	2535702	59510	798111	-699639	2497424	2484988	16068	215490	-186986	365000	355350	0		
2015-07-14	2825190	2516674	96199	712904	-308189	2740434	2466341	25974	192484	107583	363000	355350	0		
2015-07-15	2709227	2397500	129113	683914	-243074	2627950	2349550	34861	184657	128604	311000	311000	0		
2015-07-16	2894197	2398502	95172	667224	-76357	2807371	2350532	25696	180150	302385	675050	355350	0		
2015-07-17	2828712	2345424	63559	109394	437453	2743851	2298516	17161	29536	432959	676000	355350	1		
2015-07-18	2865934	2241272	61141	757536	-71733	2779956	2196447	16508	204535	395483	676000	355350	1		
2015-07-19	2855926	2486630	61141	166722	263715	2770248	2436898	16508	45015	304843	676000	355350	0		
2015-07-20	2867727	2715965	61141	141322	71581	2781695	2661646	16508	38157	98400	739000	355350	0		
2015-07-21	2786583	2652873	252563	149287	236986	2702986	2599816	252563	149287	206446	737000	355350	0		
2015-07-22	2857605	2678911	132437	205253	105878	2771877	2625333	35758	55418	126884	737000	355350	0		
2015-07-23	2878886	2585775	59894	116959	236046	2792519	2534060	16171	31579	243052	686000	355350	0		
2015-07-24	2877428	2603802	60017	136862	196781	2791105	2551726	16205	36953	218631	686000	355350	0		
2015-07-25	2906985	2364452	58711	915139	-313895	2819775	2317163	15852	247088	271377	686000	355350	0		
2015-07-26	2914422	2291345	58811	909798	-227910	2826989	2245518	15879	245645	351704	686000	355350	0		
2015-07-27	2906733	2673904	58811	864774	-573134	2819531	2620426	15879	233489	-18505	622000	355350	0		
2015-07-28	2859829	2752018	267862	89236	286437	2774034	2696978	267862	89236	255683	624000	355350	0		
2015-07-29	2767635	3231718	362663	142813	-244233	2684606	3167084	362663	142813	-262628	699000	355350	0		
2015-07-30	2750051	3271777	385464	91361	-227623	2667549	3206341	385464	91361	-244689	697000	355350	0		
2015-07-31	2783724	3057464	241593	194374	-226521	2700212	2996315	241593	194374	-248883	698000	355350	0		
2015-08-01	2945771	2668897	109144	192857	193161	2857398	2615519	29469	52071	219277	760000	355350	0		
2015-08-02	2956746	2591784	129144	532284	-38178	2868044	2539948	34869	143717	219247	760000	355350	0		
2015-08-03	2943942	2964328	109949	192859	-103296	2855624	2905041	29686	52072	-71803	760000	355350	0		
2015-08-04	2876803	2668897	276231	78166	405971	2790499	2615519	276231	78166	373045	760000	355350	1		
2015-08-05	2772590	2773049	252474	73467	178548	2689412	2717588	252474	73467	150832	657000	355350	0		
2015-08-06	2957773	2668897	143563	73190	359249	2869040	2615519	143563	73190	323894	605000	355350	0		
2015-08-07	2974775	2616821	154205	671047	-158888	2885532	2564484	41635	181183	181500	684050	355350	0		
2015-08-08	2806857	2280329	51454	703149	-125167	2722651	2234723	13893	189850	311971	621000	355350	0		
2015-08-09	2757175	2131111	34572	583754	76882	2674460	2088489	9334	157614	437691	674000	355350	1		
2015-08-10	2896169	2546718	96707	869966	-423808	2809284	2495784	26111	234891	104720	674000	355350	0		
2015-08-11	2936322	2624832	95131	84166	322455	2848232	2572336	95131	84166	286862	674000	355350	0		
2015-08-12	2862654	2902237	164166	73534	51049	2776774	2844193	164166	73534	23214	672000	355350	0		
2015-08-13	2647005	3021411	111298	74968	-338076	2567595	2960983	111298	74968	-357058	671000	355350	0		
2015-08-14	2743626	3155607	215206	141480	-338255	2661317	3092495	215206	141480	-357452	723000	355350	0		
2015-08-15	2822071	3109540	350718	210896	-147647	2737409	3047349	350718	210896	-170118	724000	355350	0		
2015-08-16	2820705	2850161	355718	210859	115403	2736084	2793158	355718	210859	87785	724000	355350	0		

Date	Cycle 2 Confirmed Imbalance					0.97	0.98	0.27	Cycle 3 Adjusted			Injection		73
	Conf Net Receipts C2	Expected Sendout	Conf Withdrawal C2	Conf Injection C2	Cycle 2 Confirmed Imbalance	Adjusted Receipt	Adjusted Sendout	Adjusted Withdrawal	Adjusted Injection	Cycle 3 Adjusted Imbalance	Injection Capacity C3	Trigger C3		
2015-08-17	2812397	3206682	355718	210859	-249426	2728025	3142548	355718	210859	-269664	723000	355350	0	
2015-08-18	2689097	2922267	302104	80797	-11863	2608424	2863821	302104	80797	-34090	784260	355350	0	
2015-08-19	2967974	2855169	198901	103159	208547	2878935	2798065	198901	103159	176612	785000	355350	0	
2015-08-20	3016304	2788071	147656	121733	254156	2925815	2732309	147656	121733	219429	786000	355350	0	
2015-08-21	3039887	2549723	79200	846394	-277030	2948690	2498728	21384	228526	242820	786000	355350	0	
2015-08-22	3005120	2243275	98982	1057585	-196758	2914966	2198410	26725	285548	457734	788000	355350	1	
2015-08-23	2971126	2222244	115957	1059045	-194206	2881992	2177800	31308	285942	449559	786000	355350	1	
2015-08-24	2945423	2822120	115957	286368	-47108	2857060	2765678	31308	77319	45371	787000	355350	0	
2015-08-25	2782417	2879204	237179	77286	63106	2698944	2821620	237179	77286	37218	785000	355350	0	
2015-08-26	2876484	3080498	229576	98205	-72643	2790189	3018888	229576	98205	-97327	785000	355350	0	
2015-08-27	2533969	3083502	214008	76708	-412233	2457950	3021832	214008	76708	-426582	785000	355350	0	
2015-08-28	2772783	3080498	265822	76659	-118552	2689600	3018888	265822	76659	-140125	754000	355350	0	
2015-08-29	2986890	2689927	78476	762021	-386582	2897283	2636129	21189	205746	76597	752000	355350	0	
2015-08-30	2987853	2673904	78476	906845	-514420	2898217	2620426	21189	244848	54132	703000	355350	0	
2015-08-31	2989136	2744006	78442	761958	-438386	2899462	2689126	21179	205729	25786	704000	355350	0	
2015-09-01	2787199	2697939	78381	59234	108407	2703583	2643980	78381	59234	78750	683000	355350	0	
2015-09-02	3006783	2528692	101349	40325	539115	2916580	2478118	101349	40325	499485	681000	355350	1	
2015-09-03	2995974	2482625	47023	349437	210935	2906095	2432972	12696	94348	391471	681000	355350	1	
2015-09-04	3026971	2375468	41317	1055623	-362803	2936162	2327959	11156	285018	334340	709000	355350	0	
2015-09-05	2721430	2075030	54082	744889	-44407	2639787	2033529	14602	201120	419740	735000	355350	1	
2015-09-06	2789362	2065015	37796	892410	-130267	2705681	2023715	10205	240951	451221	683000	355350	1	
2015-09-07	2774707	2282332	86966	881646	-302305	2691466	2236686	23481	238044	240217	683000	355350	0	
2015-09-08	2825645	2957318	37796	800166	-894043	2740876	2898171	10205	216045	-363136	683000	355350	0	
2015-09-09	2735634	3368919	728938	88349	7304	2653565	3301540	728938	88349	-7386	652000	355350	0	
2015-09-10	2632851	3508122	747726	71755	-199300	2553865	3437959	747726	71755	-208123	652000	355350	0	
2015-09-11	2984603	3469065	450703	41849	-75608	2895065	3399684	450703	41849	-95765	651000	355350	0	
2015-09-12	3011173	2822120	45204	182970	51287	2920838	2765678	12205	49402	117963	703000	355350	0	
2015-09-13	3076851	2487632	45204	784849	-150426	2984545	2437879	12205	211909	346962	703000	355350	0	
2015-09-14	3090551	2668897	45204	162283	304575	2997834	2615519	12205	43816	350704	650000	355350	0	
2015-09-15	3224887	2637851	110074	154426	542684	3128140	2585094	29720	41695	531071	681000	355350	1	
2015-09-16	3170781	2524686	42796	1062752	-373861	3075658	2474192	11555	286943	326077	702000	355350	0	
2015-09-17	3157501	2583772	46231	1170282	-550322	3062776	2532097	12482	315976	227185	705000	355350	0	
2015-09-18	3155466	2432552	37224	885474	-125336	3060802	2383900	10050	239078	447874	705000	355350	1	
2015-09-19	3039315	2464598	43230	962812	-344865	2948136	2415306	11672	259959	284542	704000	355350	0	
2015-09-20	3045575	2645863	38171	955869	-517986	2954208	2592946	10306	258085	113484	756000	355350	0	
2015-09-21	3038104	3158612	42795	884334	-962047	2946961	3095439	11555	238770	-375694	754000	355350	0	
2015-09-22	3237009	3251748	206921	109395	82787	3139899	3186713	206921	109395	50712	713000	355350	0	
2015-09-23	3190192	2848158	96127	800449	-362288	3094486	2791195	25954	216121	113124	423000	355350	0	
2015-09-24	3051882	3028421	54682	698297	-620154	2960326	2967853	14764	188540	-181304	372000	355350	0	
2015-09-25	3143100	2951309	169866	454697	-93040	3048807	2892283	45864	122768	79620	683000	355350	0	
2015-09-26	3303999	2593787	51544	871481	-109725	3204879	2541911	13917	235300	441585	683000	355350	1	
2015-09-27	3280837	2596791	27979	910988	-198963	3182412	2544855	7554	245967	399144	372000	355350	1	
2015-09-28	3267842	2817113	51544	1077453	-575180	3169807	2760771	13917	290912	132041	372000	355350	0	
2015-09-29	3095569	2876199	45444	926229	-661415	3002702	2818675	12270	250082	-53785	331000	331000	0	
2015-09-30	3059190	2747011	43254	922010	-566577	2967414	2692070	11679	248943	38080	372000	355350	0	
2015-10-01	2829317	2435556	11321	326683	78399	2744437	2386845	3057	88204	272445	372000	355350	0	
2015-10-02	3017044	2384481	11321	816603	-172719	2926533	2336792	3057	220483	372315	372000	355350	1	

Cycle 2 Confirmed Imbalance						0.97	0.98	0.27			Cycle 3 Adjusted			Injection		73
Date	Conf Net Receipts C2	Expected Sendout	Conf Withdrawal C2	Conf Injection C2	Cycle 2 Confirmed Imbalance	Adjusted Receipt	Adjusted Sendout	Adjusted Withdrawal	Adjusted Injection	Cycle 3 Adjusted Imbalance	Injection Capacity C3	Trigger C3				
2015-10-03	2698939	2104072	11355	576599	29623	2617971	2061991	3066	155682	403364	683000	355350	1			
2015-10-04	2852597	2194204	11455	902242	-232394	2767019	2150319	3093	243605	376187	683000	355350	1			
2015-10-05	2880308	2484628	11455	787154	-380019	2793899	2434935	3093	212532	149525	683000	355350	0			
2015-10-06	3292113	2464598	11421	741184	97752	3193350	2415306	3084	200120	581007	709000	355350	1			
2015-10-07	3054947	2593787	11421	849858	-377277	2963299	2541911	3084	229462	195009	708000	355350	0			
2015-10-08	3188689	2552727	14421	785341	-134958	3093028	2501672	3894	212042	383207	708000	355350	1			
2015-10-09	3220605	2840147	17921	663465	-265086	3123987	2783344	4839	179136	166346	708000	355350	0			
2015-10-10	3162468	2788071	120088	795522	-301037	3067594	2732309	32424	214791	152918	708000	355350	0			
2015-10-11	3159556	2725980	120088	873606	-319942	3064769	2671460	32424	235874	189859	667000	355350	0			
2015-10-12	3161563	2799087	120088	739517	-256953	3066716	2743105	32424	199670	156365	667000	355350	0			
2015-10-13	3279659	2912252	110369	75783	401993	3181269	2854007	110369	75783	361848	615000	355350	1			
2015-10-14	3234431	2928275	162767	157124	311799	3137398	2869710	162767	157124	273331	657000	355350	0			
2015-10-15	3078361	2905242	147925	140036	181008	2986010	2847137	147925	140036	146762	657000	355350	0			
2015-10-16	3141088	2697939	79700	211525	311324	3046855	2643980	21519	57112	367282	682000	355350	1			
2015-10-17	2934967	2332405	11491	765959	-151906	2846918	2285757	3103	206809	357454	685000	355350	1			
2015-10-18	2965141	2339416	11591	1009791	-372475	2876187	2292627	3130	272644	314046	683000	355350	0			
2015-10-19	2931578	2541711	11591	200404	201054	2843631	2490877	3130	54109	301774	683000	355350	0			
2015-10-20	3180421	2492639	15821	929092	-225489	3085008	2442786	4272	250855	395639	321000	321000	1			
2015-10-21	2949991	2410519	17371	1032849	-476006	2861491	2362309	4690	278869	225003	323000	323000	0			
2015-10-22	2671441	2358443	17271	273453	56816	2591298	2311274	4663	73832	210854	270000	270000	0			
2015-10-23	2776148	2400505	17441	884376	-491292	2692864	2352495	4709	238782	106296	269000	269000	0			
2015-10-24	2506527	2173173	16940	196225	154069	2431331	2129709	4574	52981	253215	321000	321000	0			
2015-10-25	2583199	2125103	21967	697240	-217177	2505703	2082601	5931	188255	240779	320000	320000	0			
2015-10-26	2594242	2503655	22041	757705	-645077	2516415	2453582	5951	204580	-135797	269000	269000	0			
2015-10-27	2876737	2430549	16200	680634	-218246	2790435	2381938	4374	183771	229100	216000	216000	1			
2015-10-28	2676295	2400505	17567	69219	224138	2596006	2352495	4743	18689	229565	217000	217000	1			
2015-10-29	2872432	2414525	16445	940532	-466180	2786259	2366235	4440	253944	170521	206000	206000	0			
2015-10-30	2502101	2381477	14870	189968	-54474	2427038	2333847	4015	51291	45914	206000	206000	0			
2015-10-31	2479048	2180183	14800	113256	200409	2404677	2136579	3996	30579	241514	207000	207000	1			
2015-11-01	2444081	2116089	4001	112480	219513	2370759	2073768	1080	30370	267702	207000	207000	1			
2015-11-02	2603210	2393495	12570	914225	-691940	2525114	2345625	3394	246841	-63958	83000	83000	0			
2015-11-03	2945879	2559737	5553	788555	-396860	2857503	2508542	1499	212910	137550	135000	135000	1			
2015-11-04	2492470	2393495	5553	114306	-9778	2417696	2345625	1499	30863	42708	135000	135000	0			
2015-11-05	2902334	2585775	5561	894558	-572438	2815264	2534060	1501	241531	41175	161000	161000	0			
2015-11-06	2984097	2602815	6097	946919	-559540	2894574	2550759	1646	255668	89793	161000	161000	0			
2015-11-07	2308846	2290237	5570	220404	-196225	2239581	2244432	1504	59509	-62857	83000	83000	0			
2015-11-08	2411175	2210089	5570	712902	-506246	2338840	2165887	1504	192484	-18027	83000	83000	0			
2015-11-09	2555268	2751090	5570	660856	-851108	2478610	2696068	1504	178431	-394385	41000	41000	0			
2015-11-10	3058214	2704002	5553	312459	47306	2966468	2649922	1499	84364	233681	41000	41000	1			
2015-11-11	2704471	2602815	7707	76547	32816	2623337	2550759	2081	20668	53991	82000	82000	0			
2015-11-12	2942756	2805190	11111	657968	-509291	2854473	2749086	3000	177651	-69264	41000	41000	0			
2015-11-13	2780003	2578771	8065	79021	130276	2696603	2527195	2178	21336	150249	124000	124000	1			
2015-11-14	2528579	2448530	6040	210696	-124607	2452722	2399559	1631	56888	-2095	124000	124000	0			
2015-11-15	2592613	2542704	6040	775828	-719879	2514835	2491850	1631	209474	-184858	124000	124000	0			
2015-11-16	2616567	3016581	18060	68175	-450129	2538070	2956249	4876	18407	-431710	124000	124000	0			
2015-11-17	3209172	2891349	20611	1165853	-827419	3112897	2833522	5565	314780	-29841	124000	124000	0			
2015-11-18	2760392	2839253	11611	436827	-504077	2677580	2782468	3135	117943	-219696	177000	177000	0			

Date	Cycle 2 Confirmed Imbalance					0.97	0.98	0.27	Cycle 3 Adjusted			Injection		73
	Conf Net Receipts C2	Expected Sendout	Conf Withdrawal C2	Conf Injection C2	Cycle 2 Confirmed Imbalance	Adjusted Receipt	Adjusted Sendout	Adjusted Withdrawal	Adjusted Injection	Cycle 3 Adjusted Imbalance	Injection Capacity C3	Trigger C3		
2015-11-19	2747869	2661925	8611	806931	-712376	2665433	2608686	2325	217871	-158800	177000	177000	0	
2015-11-20	2708924	2557732	9129	706604	-546283	2627656	2506577	2465	190783	-67239	124000	124000	0	
2015-11-21	2238693	2105896	9466	29597	112666	2171532	2063778	2556	7991	102319	124000	124000	0	
2015-11-22	2313590	2131944	9555	853719	-662518	2244182	2089305	2580	230504	-73047	124000	124000	0	
2015-11-23	2403318	2586786	9546	655772	-829694	2331218	2535050	2577	177058	-378312	124000	124000	0	
2015-11-24	2744682	2643891	9746	730425	-619888	2662342	2591013	2631	197215	-123255	124000	124000	0	
2015-11-25	2639204	2472574	33046	0	199676	2560028	2423123	33046	0	169951	124000	124000	1	
2015-11-26	2271883	2384411	30176	291859	-374211	2203727	2336723	8148	78802	-203651	124000	124000	0	
2015-11-27	2357765	2436508	32656	435178	-481265	2287032	2387777	8817	117498	-209426	124000	124000	0	
2015-11-28	2329965	2363372	32965	431927	-432369	2260066	2316105	8901	116620	-163758	124000	124000	0	
2015-11-29	2361819	2857286	29965	426927	-892429	2290964	2800140	8091	115270	-616356	124000	124000	0	
2015-11-30	2412579	3428342	29811	413823	-1399775	2340202	3359776	8049	111732	-1123257	202000	202000	0	
2015-12-01	2722771	3360216	676760	684452	-645137	2641088	3293012	182725	184802	-654001	202000	202000	0	
2015-12-02	2881481	3140810	471660	700620	-488289	2795037	3077994	127348	189167	-344777	202000	202000	0	
2015-12-03	2961114	3119772	440386	712055	-430327	2872281	3057376	118904	192255	-258446	202000	202000	0	
2015-12-04	3195242	2995542	369007	774746	-206039	3099385	2935631	99632	209181	54204	202000	202000	0	
2015-12-05	2528670	2607824	24676	288503	-342981	2452810	2555668	6663	77896	-174091	234000	234000	0	
2015-12-06	2666565	2712017	333189	315954	-28217	2586568	2657777	333189	315954	-53974	234000	234000	0	
2015-12-07	2579225	3030607	414251	293108	-330239	2501848	2969994	414251	293108	-347003	135000	135000	0	
2015-12-08	3118955	2735060	61022	0	444917	3025386	2680359	61022	0	406050	135000	135000	1	
2015-12-09	2352576	2709012	550471	119987	74048	2281999	2654831	550471	119987	57651	135000	135000	0	
2015-12-10	2759118	2813204	821621	578501	189034	2676344	2756940	821621	578501	162524	135000	135000	1	
2015-12-11	2809687	2943445	874818	323886	417174	2725396	2884576	874818	323886	391752	134000	134000	1	
2015-12-12	2385215	2792166	814388	139143	268294	2313659	2736322	814388	139143	252581	134000	134000	1	
2015-12-13	2421431	2932425	812269	99155	202120	2348788	2873776	812269	99155	188126	135000	135000	1	
2015-12-14	2414686	3169864	1122568	91024	276366	2342245	3106467	1122568	91024	267322	135000	135000	1	
2015-12-15	2436230	3344187	1232937	16096	308884	2363143	3277303	1232937	16096	302681	135000	135000	1	
2015-12-16	2422271	4059510	1403593	27461	-261107	2349603	3978320	1403593	27461	-252585	135000	135000	0	
2015-12-17	2376008	4003406	1287622	17397	-357173	2304728	3923338	1287622	17397	-348385	134000	134000	0	
2015-12-18	2425698	3799028	966584	52961	-459707	2352927	3723048	966584	52961	-456498	135000	135000	0	
2015-12-19	2264045	3226970	1119211	16001	140285	2196124	3162430	1119211	16001	136903	187000	187000	0	
2015-12-20	2278487	3352202	1124211	15477	35019	2210132	3285158	1124211	15477	33709	187000	187000	0	
2015-12-21	2267634	3746932	1139391	16059	-355966	2199605	3671993	1139391	16059	-349056	161000	161000	0	
2015-12-22	2290471	3587637	933628	183803	-547341	2221757	3515884	933628	183803	-544303	134000	134000	0	
2015-12-23	2147678	3041627	1220087	3620	322518	2083248	2980794	1220087	3620	318920	134000	134000	1	
2015-12-24	2183468	2948455	1251084	6730	479367	2117964	2889486	1251084	6730	472832	134000	134000	1	
2015-12-25	2142148	3067675	1093560	3775	164258	2077884	3006322	1093560	3775	161347	93000	93000	1	
2015-12-26	2170996	3509493	1113380	3617	-228734	2105866	3439303	1113380	3617	-223674	114000	114000	0	
2015-12-27	2176535	3438361	1109380	3614	-156060	2111239	3369594	1109380	3614	-152589	114000	114000	0	
2015-12-28	2088362	4245855	2014161	31311	-174643	2025711	4160938	2014161	31311	-152377	114000	114000	0	
2015-12-29	2299655	4093573	1849534	27157	28459	2230665	4011702	1849534	27157	41341	190575	190575	0	
2015-12-30	2343504	3900215	2015059	6636	451712	2273199	3822211	2015059	6636	459411	192000	192000	1	
2015-12-31	2209768	3859139	1547349	46922	-148944	2143475	3781957	1547349	46922	-138055	191000	191000	0	
2016-01-01	2528053	3542513	1020965	0	6505	2452211	3471663	1020965	0	1514	191000	191000	0	
2016-01-02	2528030	3328819	938570	0	137781	2452189	3262242	938570	0	128517	165000	165000	0	
2016-01-03	2534624	3328819	931591	0	137396	2458585	3262242	931591	0	127934	140000	140000	0	
2016-01-04	2523498	3786305	932391	0	-330416	2447793	3710579	932391	0	-330395	140000	140000	0	

Cycle 2 Confirmed Imbalance						0.97	0.98	0.27	Cycle 3 Adjusted					Injection		73
Date	Conf Net Receipts C2	Expected Sendout	Conf Withdrawal C2	Conf Injection C2	Cycle 2 Confirmed Imbalance	Adjusted Receipt	Adjusted Sendout	Adjusted Withdrawal	Adjusted Injection	Cycle 3 Adjusted Imbalance	Injection Capacity C3	Trigger C3				
2016-01-05	2538981	3344871	1475911	42488	627533	2462812	3277973	1475911	42488	618261	140000	140000	1			
2016-01-06	2853437	3760221	920065	92	13189	2767834	3685016	920065	92	2791	192000	192000	0			
2016-01-07	2715572	3812390	982650	0	-114168	2634105	3736142	982650	0	-119388	166000	166000	0			
2016-01-08	2522545	3812390	1471938	44185	137908	2446869	3736142	1471938	44185	138479	114000	114000	1			
2016-01-09	2504212	3415099	1355037	2822	441328	2429086	3346797	1355037	2822	434504	114000	114000	1			
2016-01-10	2531523	3324806	1053736	2822	257631	2455577	3258310	1053736	2822	248182	114000	114000	1			
2016-01-11	2528438	3708051	1148152	2822	-34283	2452585	3633890	1148152	2822	-35975	114000	114000	0			
2016-01-12	2521164	3606722	1124806	3210	36038	2445529	3534587	1124806	3210	32538	114000	114000	0			
2016-01-13	2545969	3763230	1081958	9761	-145064	2469590	3687966	1081958	9761	-146179	114000	114000	0			
2016-01-14	2522015	3744169	989004	2910	-236060	2446355	3669285	989004	2910	-236837	114000	114000	0			
2016-01-15	2437858	3289691	902121	0	50288	2364722	3223898	902121	0	42946	114000	114000	0			
2016-01-16	2256896	3087033	973238	18939	124162	2189189	3025292	973238	18939	118196	20000	20000	1			
2016-01-17	2239499	3002759	831647	22233	46154	2172314	2942704	831647	22233	39024	20000	20000	1			
2016-01-18	2244500	2991723	862912	18249	97440	2177165	2931889	862912	18249	89939	20000	20000	1			
2016-01-19	2247940	3333835	904912	18411	-199394	2180502	3267158	904912	18411	-200155	20000	20000	0			
2016-01-20	2288531	3289691	846752	2	-154410	2219875	3223898	846752	2	-157273	52000	52000	0			
2016-01-21	2386821	2898420	830104	0	318505	2315216	2840451	830104	0	304869	52000	52000	1			
2016-01-22	1960838	2898420	832226	0	-105356	1902013	2840451	832226	0	-106213	52000	52000	0			
2016-01-23	2439333	2846250	596290	10285	179088	2366153	2789325	596290	10285	162833	83000	83000	1			
2016-01-24	2473041	2898420	747331	10285	311667	2398850	2840451	747331	10285	295444	52000	52000	1			
2016-01-25	2453041	3289691	666101	10285	-180834	2379450	3223898	666101	10285	-188632	83000	83000	0			
2016-01-26	2988060	3159268	242636	0	71428	2898418	3096082	242636	0	44972	83000	83000	0			
2016-01-27	2947759	2898420	199595	154980	93954	2859326	2840451	199595	154980	63490	83000	83000	0			
2016-01-28	2895631	3057938	112477	117018	-166848	2808762	2996780	30369	31595	-189244	177000	177000	0			
2016-01-29	2700267	2929521	93330	112092	-248016	2619259	2870931	25199	30265	-256737	307000	307000	0			
2016-01-30	2721962	2577376	92840	84189	153237	2640303	2525829	92840	84189	123125	307000	307000	0			
2016-01-31	2812255	3037873	92424	12092	-145286	2727887	2977116	92424	12092	-168896	307000	307000	0			
2016-02-01	2680630	3557562	1421834	10266	534636	2600211	3486411	1421834	10266	525368	229000	229000	1			
2016-02-02	2792796	4025082	1065797	3	-166492	2709012	3944580	1065797	3	-169774	306000	306000	0			
2016-02-03	2490400	3801354	1030158	10003	-290799	2415688	3725327	1030158	10003	-289484	306000	306000	0			
2016-02-04	2624452	3440181	1046933	0	231204	2545718	3371377	1046933	0	221274	306000	306000	0			
2016-02-05	2727727	3260597	223415	89	-309544	2645895	3195385	223415	89	-326164	306000	306000	0			
2016-02-06	2508176	2603461	126428	89	31054	2432931	2551392	126428	89	7878	306000	306000	0			
2016-02-07	2505659	2399799	94887	89	200658	2430489	2351803	94887	89	173484	306000	306000	0			
2016-02-08	2413066	2864309	96612	89	-354720	2340674	2807023	96612	89	-369826	306000	306000	0			
2016-02-09	2521250	2660647	110926	289	-28760	2445613	2607434	110926	289	-51185	228000	228000	0			
2016-02-10	2605914	2543266	118382	54157	126873	2527737	2492400	118382	54157	99561	175000	175000	0			
2016-02-11	2513590	2439930	124734	495383	-296989	2438182	2391131	33678	133753	-53024	20000	20000	0			
2016-02-12	2424146	2390770	116641	0	150017	2351422	2342955	116641	0	125108	20000	20000	1			
2016-02-13	2329075	2137948	55244	0	246371	2259203	2095189	55244	0	219257	83000	83000	1			
2016-02-14	2356426	2291447	55629	442898	-322290	2285733	2245618	15020	119582	-64448	187000	187000	0			
2016-02-15	2323810	2345623	192261	42	170406	2254096	2298711	192261	42	147604	187000	187000	0			
2016-02-16	2332633	2554301	222139	12	459	2262654	2503215	222139	12	-18434	187000	187000	0			
2016-02-17	2762798	2554301	66143	519808	-245168	2679914	2503215	17859	140348	54209	187000	187000	0			
2016-02-18	2827348	2709807	57626	10158	165009	2742528	2655611	57626	10158	134385	187000	187000	0			
2016-02-19	2687168	2657637	70255	224303	-124517	2606553	2604485	18969	60562	-39525	187000	187000	0			
2016-02-20	2437151	2293454	37622	94742	86577	2364036	2247585	10158	25580	101029	197000	197000	0			

Date	Cycle 2 Confirmed Imbalance					0.97	0.98	Cycle 3 Adjusted				Injection		73
	Conf Net Receipts C2	Expected Sendout	Conf Withdrawal C2	Conf Injection C2	Cycle 2 Confirmed Imbalance	Adjusted Receipt	Adjusted Sendout	Adjusted Withdrawal	Adjusted Injection	Cycle 3 Adjusted Imbalance	Injection Capacity C3	Trigger C3		
2016-02-21	2418003	2230248	187577	429807	-54475	2345463	2185643	50646	116048	94417	197000	197000	0	
2016-02-22	2414353	2595435	38436	3	-142649	2341922	2543526	38436	3	-163171	197000	197000	0	
2016-02-23	2586398	2533233	75050	9	128206	2508806	2482568	75050	9	101279	223000	223000	0	
2016-02-24	2611266	2595435	130685	3	146513	2532928	2543526	130685	3	120084	223000	223000	0	
2016-02-25	2577002	2517181	67350	3	127168	2499692	2466837	67350	3	100202	223000	223000	0	
2016-02-26	2632483	2449962	57994	4020	236495	2553509	2400963	57994	4020	206519	264000	264000	0	
2016-02-27	2315476	2267369	41511	277648	-188030	2246012	2222022	11208	74965	-39767	265000	265000	0	
2016-02-28	2330850	2295460	99260	410926	-276276	2260925	2249551	26800	110950	-72776	265000	265000	0	
2016-02-29	2395216	2478054	39797	10119	-53160	2323360	2428493	39797	10119	-75455	187000	187000	0	
2016-03-01	2587105	2530223	44215	33447	67650	2509492	2479619	44215	33447	40641	187000	187000	0	
2016-03-02	2694469	2430900	53307	485134	-168258	2613635	2382282	14393	130986	114759	145000	145000	0	
2016-03-03	2757120	2601455	122498	194853	83310	2674406	2549426	33074	52610	105445	186000	186000	0	
2016-03-04	2747259	2442940	118776	500099	-77004	2664841	2394081	32070	135027	167803	186000	186000	0	
2016-03-05	2346023	2369702	43346	253458	-233791	2275642	2322307	11703	68434	-103395	186000	186000	0	
2016-03-06	2386850	2814146	195152	13297	-245441	2315245	2757863	195152	13297	-260764	187000	187000	0	
2016-03-07	2503851	3225483	158122	14326	-577836	2428735	3160973	158122	14326	-588442	186000	186000	0	
2016-03-08	3163946	2996739	43489	255030	-44334	3069028	2936805	11742	68858	75107	166000	166000	0	
2016-03-09	2772925	2918485	43277	150625	-252908	2689737	2860115	11685	40669	-199362	166000	166000	0	
2016-03-10	2612895	2657637	43330	91083	-92495	2534508	2604485	11699	24592	-82870	165000	165000	0	
2016-03-11	2839755	2689742	176136	74517	251632	2754562	2635947	176136	74517	220235	165000	165000	1	
2016-03-12	2379228	2401806	54394	25118	6698	2307851	2353770	54394	25118	-16643	165000	165000	0	
2016-03-13	2389132	2460998	54494	608	-17980	2317458	2411778	54494	608	-40434	185000	185000	0	
2016-03-14	2393587	2694758	80121	408	-221458	2321779	2640863	80121	408	-239370	185000	185000	0	
2016-03-15	2412011	2668673	43622	375	-213415	2339651	2615300	43622	375	-232402	185000	185000	0	
2016-03-16	2663896	2536243	53622	101513	79762	2583979	2485518	14478	27409	85531	185000	185000	0	
2016-03-17	2330345	2383747	58855	222253	-216800	2260435	2336072	15891	60008	-119755	186000	186000	0	
2016-03-18	2386695	2362679	49181	278852	-205655	2315094	2315425	13279	75290	-62342	186000	186000	0	
2016-03-19	2145992	2155004	43391	160371	-125992	2081612	2111904	11716	43300	-61876	186000	186000	0	
2016-03-20	2194983	2155004	43284	175154	-91891	2129134	2111904	11687	47292	-18375	185000	185000	0	
2016-03-21	2218881	2511161	78908	23454	-236826	2152315	2460938	78908	23454	-253169	185000	185000	0	
2016-03-22	2516143	2368698	54676	106327	95794	2440659	2321324	14763	28708	105389	186000	186000	0	
2016-03-23	2473613	2435917	77256	375	114577	2399405	2387198	77256	375	89087	165000	165000	0	
2016-03-24	2432717	2383747	45528	107352	-12854	2359735	2336072	12293	28985	6971	185000	185000	0	
2016-03-25	2287228	2344620	62643	32392	-27141	2218611	2297728	62643	32392	-48865	185000	185000	0	
2016-03-26	2198741	2009531	44928	0	234138	2132779	1969340	44928	0	208366	186000	186000	1	
2016-03-27	2231187	1993479	43817	368911	-87386	2164251	1953609	11831	99606	122867	186000	186000	0	
2016-03-28	2268174	2544269	565185	30399	258691	2200129	2493383	565185	30399	241531	165000	165000	1	
2016-03-29	2428493	2466015	206867	2909	166436	2355638	2416694	206867	2909	142902	165000	165000	0	
2016-03-30	2674652	2534236	45619	170375	15660	2594412	2483552	12317	46001	77177	164000	164000	0	
2016-03-31	2552422	2511161	46910	35341	52830	2475849	2460938	46910	35341	26480	165000	165000	0	
2016-04-01	2104094	2419395	178546	5619	-142374	2040971	2371007	178546	5619	-157109	165000	165000	0	
2016-04-02	2133341	1970394	78933	215658	26222	2069341	1930986	21312	58228	101439	186000	186000	0	
2016-04-03	2141935	1986430	78717	234608	-386	2077677	1946701	21254	63344	88885	186000	186000	0	
2016-04-04	2173318	2365275	78557	216897	-330297	2108118	2317969	21210	58562	-247202	186000	186000	0	
2016-04-05	2324466	2489552	92670	43335	-115751	2254732	2439761	92670	43335	-135694	185000	185000	0	
2016-04-06	2550086	2296120	78879	18776	314069	2473583	2250198	78879	18776	283488	185000	185000	1	
2016-04-07	2542341	2325185	43965	31290	229831	2466071	2278681	43965	31290	200064	185000	185000	1	

Cycle 2 Confirmed Imbalance						0.97	0.98	0.27		Cycle 3 Adjusted				
Date	Conf Net Receipts C2	Expected Sendout	Conf Withdrawal C2	Conf Injection C2	Cycle 2 Confirmed Imbalance	Adjusted Receipt	Adjusted Sendout	Adjusted Withdrawal	Adjusted Injection	Cycle 3 Adjusted Imbalance	Injection Capacity C3	Trigger C3	73	
2016-04-08	2418971	2528639	46262	25574	-88980	2346402	2478066	46262	25574	-110976	185000	185000	0	
2016-04-09	2358914	2381310	50375	29096	-1117	2288147	2333684	50375	29096	-24259	185000	185000	0	
2016-04-10	2361875	2260040	50715	49096	103454	2291019	2214839	50715	49096	77799	145000	145000	0	
2016-04-11	2365000	2414384	51195	27767	-25956	2294050	2366096	51195	27767	-48618	20000	20000	0	
2016-04-12	2434483	2336210	49432	155069	-7364	2361449	2289486	13347	41869	43441	124000	124000	0	
2016-04-13	2601380	2437435	45857	137576	72226	2523339	2388687	12381	37146	109888	165000	165000	0	
2016-04-14	2312977	2239995	64333	177827	-40512	2243588	2195195	17370	48013	17749	165000	165000	0	
2016-04-15	2447021	2228971	43995	136460	125585	2373610	2184391	11879	36844	164254	165000	165000	0	
2016-04-16	2207049	2060595	44369	110526	80297	2140838	2019383	11980	29842	103592	205000	205000	0	
2016-04-17	2255273	2104693	44285	239314	-44449	2187615	2062600	11957	64615	72357	207000	207000	0	
2016-04-18	2247351	2411377	44436	213223	-332813	2179930	2363150	11998	57570	-228792	206000	206000	0	
2016-04-19	2610152	2332201	53762	59878	271835	2531847	2285557	14516	16167	244639	206000	206000	1	
2016-04-20	2321911	2319172	51726	64782	-10317	2252254	2272788	13966	17491	-24060	207000	207000	0	
2016-04-21	2431044	2258035	48462	165034	56437	2358113	2212875	13085	44559	113764	207000	207000	0	
2016-04-22	2274699	2100685	43895	110836	107073	2206458	2058671	11852	29926	129713	207000	207000	0	
2016-04-23	2138218	1974403	44160	218438	-10463	2074071	1934915	11923	58978	92102	248000	248000	0	
2016-04-24	2153748	1996452	43895	326944	-125753	2089136	1956523	11852	88275	56189	247000	247000	0	
2016-04-25	2170223	2329194	47513	254950	-366408	2105116	2282610	12829	68837	-233502	247000	247000	0	
2016-04-26	2521911	2153803	43933	136666	275375	2446254	2110727	11862	36900	310489	247000	247000	1	
2016-04-27	2279045	2209928	46395	268900	-153388	2210674	2165730	12527	72603	-15132	247000	247000	0	
2016-04-28	2384141	2178859	47508	220579	32211	2312617	2135282	12827	59556	130606	227000	227000	0	
2016-04-29	2228606	2072622	46668	301450	-98798	2161748	2031170	12600	81392	61787	227000	227000	0	
2016-04-30	2220755	1917276	46502	295110	54871	2154132	1878930	12556	79680	208078	248000	248000	0	
2016-05-01	2065099	1974403	77380	236601	-68525	2003146	1934915	20893	63882	25241	248000	248000	0	
2016-05-02	2062539	2321176	82380	228205	-404462	2000663	2274753	22243	61615	-313463	248000	248000	0	
2016-05-03	2256861	2295118	79880	211159	-169536	2189155	2249216	21568	57013	-95506	227000	227000	0	
2016-05-04	2453258	2310152	79880	277118	-54132	2379660	2263949	21568	74822	62457	227000	227000	0	
2016-05-05	2383106	2364272	80993	112887	-13060	2311613	2316987	21868	30479	-13985	226000	226000	0	
2016-05-06	2600745	2250018	48766	263333	136160	2522723	2205017	13167	71100	259772	227000	227000	1	
2016-05-07	2189400	2090662	41766	177620	-37116	2123718	2048849	11277	47957	38188	226000	226000	0	
2016-05-08	2261477	2146787	44766	256239	-96783	2193633	2103852	12087	69185	32683	226000	226000	0	
2016-05-09	2209341	2333203	44766	214243	-293339	2143061	2286539	12087	57846	-189237	226000	226000	0	
2016-05-10	2451107	2302134	41795	224764	-33996	2377574	2256091	11285	60686	72081	227000	227000	0	
2016-05-11	2445393	2275073	41766	201758	10328	2372031	2229572	11277	54475	99261	227000	227000	0	
2016-05-12	2427900	2271064	43266	251912	-51810	2355063	2225643	11682	68016	73085	227000	227000	0	
2016-05-13	2398722	2225964	40566	262637	-49313	2326760	2181445	10953	70912	85357	227000	227000	0	
2016-05-14	2036170	2128747	41766	186845	-237656	1975085	2086172	11277	50448	-150259	226000	226000	0	
2016-05-15	2075670	2013490	41766	208296	-104350	2013400	1973220	11277	56240	-4783	226000	226000	0	
2016-05-16	2104033	2271064	43266	175722	-299487	2040912	2225643	11682	47445	-220494	226000	226000	0	
2016-05-17	2506926	2297123	40266	210850	39219	2431718	2251180	10872	56930	134480	164000	164000	0	
2016-05-18	2286695	2318170	41766	174764	-164473	2218094	2271806	11277	47186	-89621	185000	185000	0	
2016-05-19	2352463	2284094	41879	225940	-115692	2281889	2238412	11307	61004	-6219	185000	185000	0	
2016-05-20	2456011	2198904	41766	223387	75486	2382331	2154925	11277	60314	178368	185000	185000	0	
2016-05-21	2162701	2016497	41866	180956	7114	2097820	1976167	11304	48858	84099	227000	227000	0	
2016-05-22	2159313	2072622	44466	188486	-57329	2094534	2031170	12006	50891	24479	226000	226000	0	
2016-05-23	2240983	2303136	44266	174329	-192216	2173754	2257073	11952	47069	-118437	227000	227000	0	
2016-05-24	2551005	2329194	43266	259928	5149	2474475	2282610	11682	70181	133366	227000	227000	0	

Date	Cycle 2 Confirmed Imbalance					0.97	0.98	0.27	Cycle 3 Adjusted			Injection		73
	Conf Net Receipts C2	Expected Sendout	Conf Withdrawal C2	Conf Injection C2	Cycle 2 Confirmed Imbalance	Adjusted Receipt	Adjusted Sendout	Adjusted Withdrawal	Adjusted Injection	Cycle 3 Adjusted Imbalance	Capacity C3	Trigger C3		
2016-05-25	2467060	2381310	43766	213930	-84414	2393048	2333684	11817	57761	13420	247000	247000	0	
2016-05-26	2380229	2101687	41766	252042	68266	2308822	2059653	11277	68051	192395	288000	288000	0	
2016-05-27	2432471	2173848	41766	219650	80739	2359497	2130371	11277	59306	181097	288000	288000	0	
2016-05-28	2178844	1954358	82903	205554	101835	2113479	1915271	22384	55500	165092	288000	288000	0	
2016-05-29	2189257	1990439	41316	220864	19270	2123579	1950630	11155	59633	124471	288000	288000	0	
2016-05-30	2182036	1973401	41316	211404	38547	2116575	1933933	11155	57079	136718	257000	257000	0	
2016-05-31	2246959	2269060	49126	173932	-146907	2179550	2223679	13264	46962	-77826	257000	257000	0	
2016-06-01	2571734	2320174	22051	56030	217581	2494582	2273771	5954	15128	211637	205000	205000	1	
2016-06-02	2581749	2421400	19851	65952	114248	2504297	2372972	5360	17807	118878	246000	246000	0	
2016-06-03	2839971	2626858	19851	19322	213642	2754772	2574321	19851	19322	180980	247000	247000	0	
2016-06-04	2620753	2120729	21066	47000	474090	2542130	2078315	5688	12690	456814	247000	247000	1	
2016-06-05	2619132	2151799	19866	47002	440197	2540558	2108763	5364	12691	424469	247000	247000	1	
2016-06-06	2630667	2410375	19866	90235	149923	2551747	2362168	5364	24363	170580	247000	247000	0	
2016-06-07	2453156	2275073	19851	104177	93757	2379561	2229572	5360	28128	127221	247000	247000	0	
2016-06-08	2517561	2250018	19951	86754	200740	2442034	2205017	5387	23424	218980	247000	247000	0	
2016-06-09	2259361	2275073	19976	58639	-54375	2191580	2229572	5394	15833	-48431	248000	248000	0	
2016-06-10	2280039	2147790	19976	21828	130397	2211638	2104834	5394	5894	106304	206000	206000	0	
2016-06-11	2139957	2018501	19276	133728	7004	2075758	1978131	5205	36107	66725	289000	289000	0	
2016-06-12	2155608	2003468	19276	118993	52423	2090940	1963398	5205	32128	100618	289000	289000	0	
2016-06-13	2199490	2230975	31365	58099	-58219	2133505	2186356	8469	15687	-60068	289000	289000	0	
2016-06-14	2332009	2191888	20291	72234	88178	2262049	2148050	5479	19503	99974	289000	289000	0	
2016-06-15	2270683	2195897	20391	70119	25058	2202563	2151979	5506	18932	37157	247000	247000	0	
2016-06-16	2409940	2275073	19766	87877	66756	2337642	2229572	5337	23727	89680	247000	247000	0	
2016-06-17	2583597	2329194	19851	165797	108457	2506089	2282610	5360	44765	184073	247000	247000	0	
2016-06-18	2829737	2173848	19391	89005	586275	2744845	2130371	5236	24031	595678	289000	289000	1	
2016-06-19	3037445	2782204	57935	40175	273001	2946322	2726560	57935	40175	237521	287000	287000	0	
2016-06-20	3254142	3297353	653057	27190	582656	3156518	3231406	653057	27190	550979	288000	288000	1	
2016-06-21	3121019	3093899	374768	6958	394930	3027388	3032021	374768	6958	363177	247000	247000	1	
2016-06-22	3013086	2738106	19851	113601	181230	2922693	2683344	5360	30672	214037	206000	206000	1	
2016-06-23	2733925	2531646	27879	191997	38161	2651907	2481013	7527	51839	126583	206000	206000	0	
2016-06-24	2510699	2340219	19766	206000	-15754	2435378	2293414	5337	55620	91681	206000	206000	0	
2016-06-25	2667646	2268058	17766	88000	329354	2587617	2222697	4797	23760	345957	289000	289000	1	
2016-06-26	2708359	2582760	18766	138227	6138	2627108	2531104	5067	37321	63749	289000	289000	0	
2016-06-27	2813320	2950580	303175	10787	155128	2728920	2891568	303175	10787	129740	206000	206000	0	
2016-06-28	2969287	2963609	303779	30453	279004	2880208	2904337	303779	30453	249198	206000	206000	1	
2016-06-29	2585780	2937551	306633	10724	-55862	2508207	2878800	306633	10724	-74684	206000	206000	0	
2016-06-30	2686970	2761157	135204	31883	29134	2606361	2705934	135204	31883	3748	185000	185000	0	



Actual Imbalance						Injection Capacity	Trigger	61
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2015-07-01	2620000	3429000	862779	103485	-149705	716000	355350	0
2015-07-02	2637000	3105000	385116	96894	-50626	735000	355350	0
2015-07-03	2824000	2619000	153201	158379	186822	735000	355350	0
2015-07-04	2870000	2300000	312323	470547	463776	736000	355350	1
2015-07-05	2854000	2387000	322323	477843	230480	737000	355350	0
2015-07-06	2842000	2664000	134894	137317	204577	737000	355350	0
2015-07-07	2938000	2595000	64818	111994	275824	731300	355350	0
2015-07-08	2850000	2440000	137160	274854	316306	425000	355350	0
2015-07-09	2713000	2340000	430855	945189	-179334	425000	355350	0
2015-07-10	2569000	2290000	182872	546800	-16928	426000	355350	0
2015-07-11	2293000	2264000	320614	582979	-191365	426000	355350	0
2015-07-12	2317000	2185000	270192	394989	2203	365000	355350	0
2015-07-13	2310000	2452000	276895	355990	-188095	366000	355350	0
2015-07-14	2501000	2322000	321778	296013	150765	312000	312000	0
2015-07-15	2492000	2431000	357442	301560	136882	617300	355350	0
2015-07-16	2756000	2391000	304366	285500	413866	676000	355350	1
2015-07-17	2694000	2606000	103559	102016	12543	676000	355350	0
2015-07-18	2768000	2234000	286642	356540	393102	676000	355350	1
2015-07-19	2730000	2444000	96213	157314	300899	676000	355350	0
2015-07-20	2733000	2903000	61141	131268	-263127	739000	355350	0
2015-07-21	2709000	2727000	265559	115552	178007	685000	355350	0
2015-07-22	2787000	2579000	132437	177678	155759	737000	355350	0
2015-07-23	2812000	2548000	59898	100959	195939	686000	355350	0
2015-07-24	2872000	2572000	120017	144366	202651	686000	355350	0
2015-07-25	2798000	2259000	274933	481642	378291	686000	355350	1
2015-07-26	2699000	2295000	278747	478170	224577	622000	355350	0
2015-07-27	2730000	2588000	273051	485754	-109703	622000	355350	0
2015-07-28	2760000	2993000	280183	86896	-38713	624000	355350	0
2015-07-29	2658000	3185000	363324	146170	-258846	699000	355350	0
2015-07-30	2610000	3305000	485964	167002	-407038	698000	355350	0
2015-07-31	2628000	3001000	244424	195815	-292391	760000	355350	0
2015-08-01	2844000	2414000	132594	215423	348171	760000	355350	0
2015-08-02	2859000	2333000	135494	315368	327126	760000	355350	0
2015-08-03	2831000	2692000	134705	213137	37568	760000	355350	0
2015-08-04	2812000	2662000	244931	78563	368368	760000	355350	1
2015-08-05	2901000	2990000	256802	73878	136924	605000	355350	0
2015-08-06	2847000	2861000	163511	74686	41825	605000	355350	0
2015-08-07	2889000	2435000	353570	276743	564827	683000	355350	1
2015-08-08	2663000	2208000	401352	840445	57907	674000	355350	0
2015-08-09	2635000	2223000	352745	765629	-39884	674000	355350	0
2015-08-10	2765000	2517000	325010	470048	57962	674000	355350	0
2015-08-11	2805000	2643000	101092	85622	129470	674000	355350	0
2015-08-12	2712000	2893000	167174	74259	-118085	672000	355350	0
2015-08-13	2581000	3230000	121648	75879	-589231	723000	355350	0
2015-08-14	2614000	3134000	153180	142132	-493952	724000	355350	0
2015-08-15	2750000	2973000	361763	212398	-55635	724000	355350	0
2015-08-16	2733000	2997000	380718	218618	-48900	723000	355350	0

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Date	Actual Receipts	Actual Sendout	Sched Withdrawal	Sched Injection	Actual Imbalance			
2015-08-17	2743000	3132000	378774	211674	-309900	723000	355350	0
2015-08-18	2613000	2882000	312889	83000	-13111	785000	355350	0
2015-08-19	2917000	2690000	206983	100249	349734	785000	355350	0
2015-08-20	2959000	2504000	140990	203491	415499	786000	355350	1
2015-08-21	2949000	2356000	339505	431285	493220	788000	355350	1
2015-08-22	2819000	2202000	359173	599758	429930	788000	355350	1
2015-08-23	2833000	2208000	366281	584149	400132	788000	355350	1
2015-08-24	2798000	2785000	133783	235578	-149795	787000	355350	0
2015-08-25	2670000	2966000	240641	86575	-145934	759000	355350	0
2015-08-26	2767000	3099000	245251	93692	-179441	786000	355350	0
2015-08-27	2585000	3286000	230080	78072	-698836	754000	355350	0
2015-08-28	2705000	3377000	265091	79704	-392723	754000	355350	0
2015-08-29	2879000	2661000	288400	372028	130372	752000	355350	0
2015-08-30	2841000	2390000	285899	427519	425380	703000	355350	1
2015-08-31	2882000	2732000	485098	376029	219069	704000	355350	0
2015-09-01	2755000	2591000	93544	62330	206214	684000	355350	0
2015-09-02	2925000	2525000	226314	75321	535993	681000	355350	1
2015-09-03	2907000	2379000	53044	211337	399707	683000	355350	1
2015-09-04	2918000	2247000	242369	527561	372808	734525	355350	1
2015-09-05	2527000	2139000	330784	865962	-32178	735000	355350	0
2015-09-06	2543000	2189000	303440	418784	208656	683000	355350	0
2015-09-07	2498000	2760000	327689	421768	-483079	683000	355350	0
2015-09-08	2472000	3442000	581235	370489	-815026	631950	355350	0
2015-09-09	2492000	3589000	862233	83286	-347053	652000	355350	0
2015-09-10	2550000	3503000	777726	71755	-121257	651000	355350	0
2015-09-11	2834000	3285000	454975	41849	-95874	703000	355350	0
2015-09-12	2892000	2633000	45204	140322	193882	703000	355350	0
2015-09-13	2973000	2635000	242488	354876	242612	703000	355350	0
2015-09-14	2940000	2661000	48204	139970	260234	702000	355350	0
2015-09-15	3176000	2624000	103074	110555	510519	701420	355350	1
2015-09-16	3075000	2450000	240080	470739	379341	704000	355350	1
2015-09-17	3071000	2458000	293515	617430	310085	705000	355350	0
2015-09-18	3006000	2459000	411331	889548	5783	704000	355350	0
2015-09-19	2994000	2443000	272327	486880	357447	704000	355350	1
2015-09-20	3028000	2826000	282513	529434	-84921	754000	355350	0
2015-09-21	2993000	2935000	264080	412973	-25893	754000	355350	0
2015-09-22	3133000	2658000	214909	109375	584534	754000	355350	1
2015-09-23	3062000	2826000	311534	381576	224958	423000	355350	0
2015-09-24	2958000	3065000	117158	636227	-669069	678300	355350	0
2015-09-25	3053000	2969000	545492	414122	126370	683000	355350	0
2015-09-26	2951000	2569000	222944	729696	-113752	373000	355350	0
2015-09-27	2787000	2574000	66700	546026	-140326	372000	355350	0
2015-09-28	3148000	2820000	620228	870260	-34032	372000	355350	0
2015-09-29	2951000	2573000	355268	412050	261218	331000	331000	0
2015-09-30	2856000	2635000	366641	718735	-28094	372000	355350	0
2015-10-01	2678000	2617000	367221	558610	-137389	372000	355350	0
2015-10-02	2712000	2348000	415631	795948	-30317	678300	355350	0

Actual Imbalance						Injection Capacity	Trigger	61
Date	Actual Receipts	Actual Sendout	Sched Withdrawal	Sched Injection	Actual Imbalance			
2015-10-03	2634000	2145000	371405	825386	99019	683000	355350	0
2015-10-04	2722000	2144000	351089	444998	485091	683000	355350	1
2015-10-05	2895000	2491000	284726	365243	246483	683000	355350	0
2015-10-06	3095000	2403000	87436	816883	-71447	709000	355350	0
2015-10-07	2983000	2581000	82445	775178	-267733	708000	355350	0
2015-10-08	3080000	2900000	32112	387427	-209315	708000	355350	0
2015-10-09	3028000	3051000	241190	274923	-125733	708000	355350	0
2015-10-10	3099000	2612000	138279	369132	251147	708000	355350	0
2015-10-11	3066000	2661000	150929	424504	112425	667000	355350	0
2015-10-12	3078000	3131000	158725	344679	-145954	667000	355350	0
2015-10-13	3125000	3296000	155369	84556	-170187	657000	355350	0
2015-10-14	2927000	3148000	173717	111846	-65129	657000	355350	0
2015-10-15	2934000	2896000	165426	127283	138143	657000	355350	0
2015-10-16	3095000	2656000	328053	164094	527959	683000	355350	1
2015-10-17	2870000	2309000	262009	931221	-44212	685000	355350	0
2015-10-18	2911000	2119000	224994	450407	436587	683000	355350	1
2015-10-19	2886000	2364000	119091	190922	454169	684000	355350	1
2015-10-20	2725000	2383000	30721	646297	-258576	374050	355350	0
2015-10-21	2657000	2478000	18271	794553	-480282	323000	323000	0
2015-10-22	2532000	2454000	20836	374603	-305767	270000	270000	0
2015-10-23	2567000	2390000	17341	668666	-351325	269000	269000	0
2015-10-24	2370000	2235000	132645	276875	-74230	320000	320000	0
2015-10-25	2358000	2289000	487939	667228	-109289	320000	320000	0
2015-10-26	2543000	2588000	383613	390287	-63674	217000	217000	0
2015-10-27	2706000	2563000	16131	604780	-482649	267050	267050	0
2015-10-28	2609000	2477000	90340	171953	103387	217000	217000	0
2015-10-29	2601000	2481000	477460	732342	-74882	206000	206000	0
2015-10-30	2482000	2382000	261146	341011	-49865	206000	206000	0
2015-10-31	2383000	2186000	44580	107228	201352	207000	207000	0
2015-11-01	2360000	2225000	103720	192218	-25498	207000	207000	0
2015-11-02	2543000	2391000	2140788	339191	1903597	83000	83000	1
2015-11-03	2584000	2681000	455841	643750	-116909	135000	135000	0
2015-11-04	2416000	2803000	491818	569500	-527682	161000	161000	0
2015-11-05	2698000	2786000	462830	371026	25804	161000	161000	0
2015-11-06	2749000	2595000	589429	816661	-122232	161000	161000	0
2015-11-07	2263000	2457000	436096	492892	-106796	83000	83000	0
2015-11-08	2324000	2472000	584450	648573	-355123	83000	83000	0
2015-11-09	2640000	2778000	443189	273698	92491	41000	41000	1
2015-11-10	2762000	2880000	7671	218342	-276671	41000	41000	0
2015-11-11	2677000	2967000	11165	120118	-411953	41160	41160	0
2015-11-12	2760000	2916000	422284	604243	-349959	41000	41000	0
2015-11-13	2594000	2742000	113065	194058	-286993	124000	124000	0
2015-11-14	2431000	2414000	413269	501649	-137380	124000	124000	0
2015-11-15	2550000	2748000	363660	320667	-164007	124000	124000	0
2015-11-16	2713000	3352000	19945	152844	-670899	124000	124000	0
2015-11-17	2908000	2932000	251548	463494	-329946	175050	175050	0
2015-11-18	2716000	2737000	584500	777837	-211337	177000	177000	0

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Date	Actual Receipts	Actual Sendout	Sched Withdrawal	Sched Injection	Actual Imbalance			
2015-11-19	2654000	2605000	281280	375148	-95868	177000	177000	0
2015-11-20	2495000	2388000	471932	615638	-27706	124000	124000	0
2015-11-21	2217000	2153000	9475	68004	30471	124000	124000	0
2015-11-22	2244000	2294000	579736	705965	-110229	124000	124000	0
2015-11-23	2422000	2512000	301275	255122	-68847	124000	124000	0
2015-11-24	2503000	2528000	742470	288135	420335	124000	124000	1
2015-11-25	2397000	2895000	649722	226633	-3911	124000	124000	0
2015-11-26	2178000	2730000	1030485	123494	327991	124000	124000	1
2015-11-27	2297000	3007000	1498965	181036	678929	124000	124000	1
2015-11-28	2236000	3046000	1042811	153415	-4604	124000	124000	0
2015-11-29	2290000	3294000	1412656	174555	288101	124000	124000	1
2015-11-30	2257000	3680000	1381247	188881	-224634	202000	202000	0
2015-12-01	2588000	3539000	1052126	433924	-326798	202000	202000	0
2015-12-02	2787000	3266000	1067951	449416	6535	202000	202000	0
2015-12-03	2895000	3205000	693494	450859	-3365	202000	202000	0
2015-12-04	3100000	3249000	520134	476258	-19124	202000	202000	0
2015-12-05	2513000	2779000	708876	752801	-310925	234000	234000	0
2015-12-06	2679000	2766000	497601	337291	73310	213000	213000	0
2015-12-07	2684000	2914000	481586	300597	-49011	135000	135000	0
2015-12-08	2811000	2738000	44119	0	117119	135000	135000	0
2015-12-09	2265000	2735000	559849	139926	-50077	135000	135000	0
2015-12-10	2749000	2805000	885871	270435	559436	135000	135000	1
2015-12-11	2810000	3154000	996643	148332	504311	134000	134000	1
2015-12-12	2260000	3141000	844671	99055	-134384	134000	134000	0
2015-12-13	2286000	3069000	839245	80443	-24198	135000	135000	0
2015-12-14	2368000	3999000	1338571	87756	-380185	135000	135000	0
2015-12-15	2344000	4178000	1494895	57139	-397244	135000	135000	0
2015-12-16	2284000	4163000	1588368	7729	-297361	134000	134000	0
2015-12-17	2283000	3858000	1450166	35815	-159649	135000	135000	0
2015-12-18	2283000	3950000	1032778	35111	-668333	187000	187000	0
2015-12-19	2082000	3156000	1101440	14222	13218	187000	187000	0
2015-12-20	2384000	3306000	1111343	12878	176465	187000	187000	0
2015-12-21	2177000	3246000	1185030	72185	43845	160000	160000	0
2015-12-22	2212000	2992000	965236	181693	3543	134000	134000	0
2015-12-23	2131000	2943000	1258048	10262	435786	134000	134000	1
2015-12-24	2152000	3026000	1226444	7053	344391	134000	134000	1
2015-12-25	2115000	3178000	1237221	11765	161456	114000	114000	1
2015-12-26	2028000	3558000	1344921	38436	-224515	114000	114000	0
2015-12-27	1703000	3782000	1654705	10274	-434569	114000	114000	0
2015-12-28	1706000	4005000	2459448	6617	-8062	114000	114000	0
2015-12-29	2033000	3926000	2617820	75240	693682	190575	190575	1
2015-12-30	2165000	3843000	1932452	65874	243778	192000	192000	1
2015-12-31	2146000	3588000	1778370	127652	220418	191000	191000	1
2016-01-01	2374000	3326000	1022941	0	83641	165000	165000	0
2016-01-02	2340000	3367000	974591	0	-38709	165000	165000	0
2016-01-03	2317000	3236000	971591	0	64291	140000	140000	0
2016-01-04	2334000	3177000	931707	0	101407	140000	140000	0

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Date	Actual Receipts	Actual Sendout	Sched Withdrawal	Sched Injection	Actual Imbalance			
2016-01-05	2582000	3698000	1221427	11721	92706	140000	140000	0
2016-01-06	2880000	4045000	916704	74240	-322536	192000	192000	0
2016-01-07	2713000	3822000	1089841	0	-19159	166000	166000	0
2016-01-08	2376000	3774000	1432391	11438	22953	114000	114000	0
2016-01-09	2371000	3380000	1137372	2822	125550	114000	114000	1
2016-01-10	2368000	3285000	1033039	3384	112655	114000	114000	0
2016-01-11	2355000	3751000	1142105	3589	-257484	114000	114000	0
2016-01-12	2418000	3802000	1052159	5713	-337554	114000	114000	0
2016-01-13	2349000	3299000	1010661	6615	52046	114000	114000	0
2016-01-14	2515000	3378000	962036	3922	95114	114000	114000	0
2016-01-15	2325000	3240000	890267	786	-25519	114000	114000	0
2016-01-16	2096000	2923000	943196	25050	90146	20000	20000	1
2016-01-17	2108000	2777000	833441	25090	138351	20000	20000	1
2016-01-18	2028000	3186000	848856	21028	-329172	20000	20000	0
2016-01-19	2127000	3243000	834000	21094	-302094	20000	20000	0
2016-01-20	2253000	3062000	849922	132	40790	52000	52000	0
2016-01-21	2142000	3082000	856303	37	-83734	52000	52000	0
2016-01-22	1956000	2983000	1007372	398	-19026	52000	52000	0
2016-01-23	2342000	2933000	620299	306	27993	52000	52000	0
2016-01-24	2378000	2926000	733846	319	185527	83000	83000	1
2016-01-25	2313000	3046000	553765	317	-180552	83000	83000	0
2016-01-26	2881000	2984000	415138	29540	281598	83000	83000	1
2016-01-27	2807000	3145000	232008	51156	-157148	177000	177000	0
2016-01-28	2812000	2926000	199477	36460	50017	255000	255000	0
2016-01-29	2633000	2641000	112910	42150	62760	307000	307000	0
2016-01-30	2691000	2499000	106244	45496	253748	307000	307000	0
2016-01-31	2751000	3453000	462424	28435	-267011	307000	307000	0
2016-02-01	2692000	3989000	1184766	25266	-136500	307000	307000	0
2016-02-02	2674000	3976000	1026664	3	-274339	306000	306000	0
2016-02-03	2855000	3695000	994015	29922	119142	306000	306000	0
2016-02-04	2698000	3333000	778212	0	142212	306000	306000	0
2016-02-05	2804000	2898000	496963	5244	396719	306000	306000	1
2016-02-06	2469000	2542000	127928	23589	31339	306000	306000	0
2016-02-07	2357000	2393000	94887	89	58798	306000	306000	0
2016-02-08	2399000	2524000	96612	89	-27477	228000	228000	0
2016-02-09	2529000	2499000	128597	10244	148353	176950	176950	0
2016-02-10	2563000	2514000	130738	59041	125739	175000	175000	0
2016-02-11	2446000	2454000	261433	170183	82250	20000	20000	1
2016-02-12	2313000	2397000	137227	0	52227	20000	20000	1
2016-02-13	2181000	2322000	241660	187892	-87232	186420	186420	0
2016-02-14	2293000	2175000	296471	144740	269731	187000	187000	1
2016-02-15	2228000	2393000	202419	42	37377	187000	187000	0
2016-02-16	2234000	2508000	232369	4870	-46501	187000	187000	0
2016-02-17	2653000	2563000	206745	193472	104273	187000	187000	0
2016-02-18	2771000	2726000	72697	10158	107539	187000	187000	0
2016-02-19	2565000	2592000	453151	359156	67995	145000	145000	0
2016-02-20	2315000	2433000	376317	343211	-83894	197000	197000	0

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Date	Actual Receipts	Actual Sendout	Sched Withdrawal	Sched Injection	Actual Imbalance			
2016-02-21	2304000	2406000	226155	149605	-25450	197000	197000	0
2016-02-22	2341000	2557000	50936	3	-164067	197000	197000	0
2016-02-23	2500000	2545000	132550	9	87541	223000	223000	0
2016-02-24	2503000	2513000	163185	3	153182	223000	223000	0
2016-02-25	2531000	2515000	97078	1	113077	264000	264000	0
2016-02-26	2616000	2364000	121430	4023	368407	264000	264000	1
2016-02-27	2173000	2123000	381544	403060	27484	265000	265000	0
2016-02-28	2278000	2159000	298453	147058	270395	187000	187000	1
2016-02-29	2292000	2436000	159968	67881	-51913	187000	187000	0
2016-03-01	2570000	2393000	65239	31334	210905	187000	187000	1
2016-03-02	2547000	2413000	231600	188192	177408	186000	186000	0
2016-03-03	2600000	2479000	167742	67759	220983	186000	186000	1
2016-03-04	2571000	2380000	131146	304822	17324	186000	186000	0
2016-03-05	2248000	2292000	411353	420236	-52883	187000	187000	0
2016-03-06	2366000	2434000	196753	12581	116172	186000	186000	0
2016-03-07	2627000	3346000	811068	24931	66137	187000	187000	0
2016-03-08	3040000	2822000	95456	119340	195116	166000	166000	1
2016-03-09	2709000	2513000	53277	68944	180333	166000	166000	1
2016-03-10	2554000	2427000	48762	109316	66446	165000	165000	0
2016-03-11	2616000	2860000	176136	28163	-96027	165000	165000	0
2016-03-12	2325000	2524000	194394	20326	-24932	165000	165000	0
2016-03-13	2356000	2409000	54494	10608	-8114	185000	185000	0
2016-03-14	2299000	2488000	233855	28079	16776	185000	185000	0
2016-03-15	2398000	2449000	43622	20310	-27688	185000	185000	0
2016-03-16	2464000	2398000	68823	85163	50660	185000	185000	0
2016-03-17	2242000	2277000	439159	400503	3656	186000	186000	0
2016-03-18	2383000	2190000	118748	98853	212895	186000	186000	1
2016-03-19	2125000	2101000	193391	170371	46020	186000	186000	0
2016-03-20	2158000	2105000	93284	75154	72130	185000	185000	0
2016-03-21	2178000	2369000	79505	23454	-134949	185000	185000	0
2016-03-22	2488000	2449000	58647	38548	58099	185000	185000	0
2016-03-23	2440000	2464000	112256	10343	78913	165000	165000	0
2016-03-24	2386000	2340000	79862	40686	85176	185000	185000	0
2016-03-25	2233000	2175000	87643	32362	113281	186000	186000	0
2016-03-26	2028000	1974000	44982	42034	57948	186000	186000	0
2016-03-27	2142000	1927000	177140	318227	73913	186000	186000	0
2016-03-28	2179000	2481000	695658	27029	365629	165000	165000	1
2016-03-29	2407000	2664000	239009	5498	-24489	164000	164000	0
2016-03-30	2647000	2612000	135465	57043	112422	165000	165000	0
2016-03-31	2419000	2486000	162257	44556	50701	165000	165000	0
2016-04-01	2144000	2319000	178546	6290	-3744	186000	186000	0
2016-04-02	2027000	2093000	135183	88696	-20513	186000	186000	0
2016-04-03	2033000	2024000	134967	98266	45701	186000	186000	0
2016-04-04	2014000	2238000	171965	100367	-152402	186000	186000	0
2016-04-05	2251000	2311000	151842	13402	99440	185000	185000	0
2016-04-06	2410000	2310000	123019	13767	209252	185000	185000	1
2016-04-07	2403000	2376000	46205	13867	59338	186000	186000	0

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Date	Actual Receipts	Actual Sendout	Sched Withdrawal	Sched Injection	Actual Imbalance			
2016-04-08	2343000	2430000	51402	10689	-46287	185000	185000	0
2016-04-09	2291000	2177000	50515	29096	135419	186000	186000	0
2016-04-10	2259000	2075000	50715	37977	197738	145000	145000	1
2016-04-11	2310000	2437000	114975	27767	-38792	20000	20000	0
2016-04-12	2396000	2388000	110964	71037	46927	164840	164840	0
2016-04-13	2352000	2303000	119052	113943	54109	165000	165000	0
2016-04-14	2319000	2366000	229753	157872	24881	165000	165000	0
2016-04-15	2376000	2309000	86785	54005	99780	164000	164000	0
2016-04-16	2094000	2074000	178936	168781	30155	207000	207000	0
2016-04-17	2172000	2044000	125535	102964	151571	206000	206000	0
2016-04-18	2171000	2303000	109686	75360	-97674	206000	206000	0
2016-04-19	2435000	2329000	83762	41661	149101	206000	206000	0
2016-04-20	2235000	2228000	62161	20321	49840	207000	207000	0
2016-04-21	2319000	2211000	49819	33476	112343	206000	206000	0
2016-04-22	2164000	2027000	43963	179358	605	207000	207000	0
2016-04-23	2114000	1898000	44160	207210	52950	248000	248000	0
2016-04-24	2095000	1935000	43895	232902	-29007	247000	247000	0
2016-04-25	2240000	2186000	78263	170004	-43661	247000	247000	0
2016-04-26	2365000	2239000	43933	105287	65646	247000	247000	0
2016-04-27	2303000	2244000	58149	283809	-160740	248000	248000	0
2016-04-28	2381000	2258000	54508	270756	-93248	248000	248000	0
2016-04-29	2198000	2175000	69304	233638	-140334	248000	248000	0
2016-04-30	2154000	2163000	46457	143137	-104680	248000	248000	0
2016-05-01	2066000	2190000	77380	186575	-233195	248000	248000	0
2016-05-02	2103000	2317000	212130	82595	-83465	248000	248000	0
2016-05-03	2268000	2338000	146130	76142	-1012	227000	227000	0
2016-05-04	2348000	2310000	136130	95815	78315	228000	228000	0
2016-05-05	2367000	2314000	105993	24990	133003	227000	227000	0
2016-05-06	2443000	2324000	152567	192615	78952	226000	226000	0
2016-05-07	2126000	2145000	41766	164226	-142460	226000	226000	0
2016-05-08	2329000	2100000	44766	90824	182942	226000	226000	0
2016-05-09	2310000	2233000	60266	78302	58964	226000	226000	0
2016-05-10	2443000	2268000	41795	177772	40023	247420	247420	0
2016-05-11	2267000	2333000	46748	169895	-189147	226000	226000	0
2016-05-12	2387000	2322000	88766	192385	-38619	227000	227000	0
2016-05-13	2382000	2179000	60566	194109	69457	226000	226000	0
2016-05-14	1972000	1923000	41766	175814	-84048	226000	226000	0
2016-05-15	2098000	2082000	41766	170574	-187808	226000	226000	0
2016-05-16	2164000	2253000	43766	68000	-114234	226000	226000	0
2016-05-17	2181000	2263000	183266	179727	-78461	184000	184000	0
2016-05-18	2321000	2245000	71766	66987	80779	185000	185000	0
2016-05-19	2460000	2225000	46878	174781	107097	185000	185000	0
2016-05-20	2343000	2287000	41766	186749	-88983	225840	225840	0
2016-05-21	2179000	2187000	41866	179842	-144976	226000	226000	0
2016-05-22	2157000	2100000	100716	78089	79627	227000	227000	0
2016-05-23	2394000	2306000	155516	66492	177024	227000	227000	0
2016-05-24	2420000	2137000	100016	125757	256259	247000	247000	1

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2016-05-25	2286000	2199000	45062	135780	-2718	247000	247000	0
2016-05-26	2405000	2230000	71766	184499	62267	289000	289000	0
2016-05-27	2408000	2197000	41766	185094	67672	288000	288000	0
2016-05-28	2047000	2032000	83629	215565	-116936	288000	288000	0
2016-05-29	2055000	1879000	41316	147735	69581	257000	257000	0
2016-05-30	2015000	2009000	41316	184016	-135700	257000	257000	0
2016-05-31	2168000	2162000	147379	66555	86824	257000	257000	0
2016-06-01	2480000	2375000	46044	20932	130112	287000	287000	0
2016-06-02	2592000	2503000	26851	36190	97661	246000	246000	0
2016-06-03	2613000	2606000	43873	36902	22971	247000	247000	0
2016-06-04	2469000	2287000	21066	69788	132278	247000	247000	0
2016-06-05	2341000	2086000	19866	62954	211912	247000	247000	0
2016-06-06	2519000	2285000	19951	32068	221883	206000	206000	1
2016-06-07	2355000	2300000	19986	94092	-18106	247000	247000	0
2016-06-08	2432000	2241000	24190	46754	168436	247000	247000	0
2016-06-09	2285000	2177000	19976	47768	79208	206160	206160	0
2016-06-10	2269000	2203000	19976	20742	65234	247000	247000	0
2016-06-11	2092000	1910000	19276	133725	68551	289000	289000	0
2016-06-12	2125000	1879000	19276	118991	146285	289000	289000	0
2016-06-13	2187000	2166000	24062	19501	24561	289000	289000	0
2016-06-14	2365000	2190000	20599	63732	130867	247000	247000	0
2016-06-15	2223000	2162000	40391	74679	27712	247000	247000	0
2016-06-16	2422000	2234000	50361	71146	166215	247000	247000	0
2016-06-17	2300000	2158000	22836	149909	14927	247000	247000	0
2016-06-18	2436000	2195000	18228	131111	129117	289000	289000	0
2016-06-19	2795000	2572000	114209	11268	325941	289000	289000	1
2016-06-20	3210000	3306000	563758	7313	460445	288000	288000	1
2016-06-21	3063000	2963000	223022	6000	317022	206000	206000	1
2016-06-22	2814000	2725000	25883	49065	65818	206000	206000	0
2016-06-23	2662000	2453000	45192	155934	98258	206000	206000	0
2016-06-24	2392000	2343000	19766	134954	-66188	206000	206000	0
2016-06-25	2597000	2381000	41841	45391	212450	289000	289000	0
2016-06-26	2677000	2488000	42991	57523	174468	289000	289000	0
2016-06-27	2804000	2938000	267440	6919	126521	247000	247000	0
2016-06-28	2765000	2992000	253297	76017	-49720	206000	206000	0
2016-06-29	2641000	2666000	463155	6003	432152	206000	206000	1
2016-06-30	2612000	2660000	193767	11228	134539	185000	185000	0