

**Pacific Gas and Electric Company
Core Gas Supply
Cumulative Monthly CPIM Report (Year 20)
November 01, 2012 - January 31, 2013**

**Confidential Material
Submitted pursuant to
General Order 66-C and
P.U. Code Section 583**

Month/Year	INTERSTATE AND CALIFORNIA GAS PURCHASES (1)			RESERVATION CHARGES (2)		TOTAL CPIM PERFORMANCE		
	Commodity Actuals	Commodity Benchmark	Benchmark - Actuals	Pipeline Charges Actuals	Pipeline Charges Benchmark	Total Actuals	Total Benchmark	Benchmark - Actuals
Nov-2012	Redacted							
Dec-2012								
Jan-2013								
Total								

(1) Canadian and U.S. gas commodity costs, includes physical and financial transactions. Volumetric costs to PG&E's Citygate are included.

(2) Includes intrastate, applicable interstate and Canadian pipeline reservation charges net of capacity release revenue.

Pacific Gas and Electric Company
 Core Gas Supply CPIM Calculation
 Commodity Purchases and Sales
 November 2012

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Pipeline/Purchase Point	Purchases (MMBtu) (a)	Sales (MMBtu) (b)	Net Purchases and Sales (MMBtu) (a)+(b) (c)	Actual Commodity Costs (d)	Volumetric Transportation Costs (e)	Actual Commodity Sales (f)	Total Net Costs (d)+(e)+(f) (g)
CGT - Baja	Redacted						
CGT - Citygate							
CGT - Redwood							
EPNG - Basin							
EPNG - Topock							
Kern River - Daggett							
Kern River - Opal							
Kern River Station							
NGTL - AECO/NIT							
GTNC - All							
Ruby Pipeline							
TW - Basin							
TW - Topock							
Total Commodity Purchases and Sales							

Pacific Gas and Electric Company
Core Gas Supply CPIM Calculation
Reservation Charges & Other Costs/Revenues
November 2012

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Redacted

Pacific Gas and Electric Company
 Core Gas Supply CPIM Calculation
 CPIM Performance Summary
 November 2012

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	Actual Costs	Benchmark Costs	Benchmark - Actual Costs
<u>Commodity Costs and Revenues</u>	Redacted		
CGT - Baja			
CGT - Citygate			
CGT - Redwood			
Commodity Sales			
Subtotal Commodity			
Miscellaneous Costs and Revenues			
Total Net Commodity			
<u>Financial Transactions</u>			
Winter Hedge Program:			
Option Premiums			
Option and F/F Swap Settlements			
Commissions and Fees			
Other Financial Transactions			
Total Financial Costs and Revenues			
Total Commodity Costs			
<u>Demand Charges</u>			
Foothills Pipelines Ltd.			
California Gas Transmission			
El Paso Natural Gas Company			
Lodi Gas Storage, Inc.			
Nova Gas Transmission Ltd.			
Gas Transmission Northwest Corporation			
Ruby Pipeline			
Transwestern Pipeline Company			
Kern River Gas Transmission			
Total Demand Charges			
Total Costs			

Pacific Gas and Electric Company
Core Gas Supply CPIM Calculation
Modified Determined Usage
November 2012

Confidential Material
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Date	Burner Tip Modified Determined Usage (Therms) (a)	Modified Determined Use Grossed up to Citygate (Therms) (a)x(1+ Shrinkage Rate) (b)	Modified Determined Use Therms Converted to MMBtu (c)	Operating Imbalance Adjustment (MMBtu) (d)	Firm Storage CPIM Profile Injection/ (Withdrawal) (MMBtu) (e)	Incremental Storage Injection/ (Withdrawal) (MMBtu) (f)	Benchmark Load at Citygate (c)+(d)+(e)+(f) (MMBtu) (g)
Redacted							

**Pacific Gas and Electric Company
Core Gas Supply CPIM Calculation
Firm Storage Inventory
November 2012**

**Confidential Material
Submitted pursuant to
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Date	Nominations Injection/ (Withdrawal) (MMBtu) (a)	Imbalance Trading (MMBtu) (b)	Sales/ Transfers (MMBtu) (c)	Parking (MMBtu) (d)	Ending Inventory (a)+(b)+(c)+(d) (e)
Redacted					

**Pacific Gas and Electric Company
Core Gas Supply CPIM Calculation
Incremental Storage Inventory
November 2012**

**Confidential Material
Submitted pursuant to
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Lodi Gas Storages, Inc

Date	Nominations at Field (MMBtu) (a)	Equivalent at Citygate (MMBtu) (1) (b)	Ending Inventory Beg Bal + (a) (c)
Redacted			

(1) Includes 1.0% shrinkage for injection.

Pacific Gas and Electric Company
Core Gas Supply CPIM Benchmark Calculation
Daily Benchmark Sequence
November 2012

Confidential Material
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SEQUENCED VOLUMES AT CITYGATE

Date	Benchmark Load at Citygate	Ruby	AECO	San Juan	Kingsgate	Kern River	AECO	AECO	Ruby	Ruby	San Juan	San Juan	Topock	Citygate
Redacted														

Pacific Gas and Electric Company
Core Gas Supply CPIM Calculation
Daily Benchmark Summary
November 2012

Confidential Material
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<u>SEQUENCED VOLUMES AT CITYGATE</u>								<u>INDICES AT CITYGATE</u>						<u>TOTAL COMMODITY BENCHMARK</u>								
Date	Ruby	AECO	San Juan	Kingsgate	Kern River	Topock	Citygate	Ruby Rookies	AECO	San Juan	Kingsgate	Kern River	Topock	PG&E Citygate Daily	Ruby Rookies	AECO	San Juan	Kingsgate	Kern River	Topock	Citygate	Total
Redacted																						

**Pacific Gas and Electric Company
Core Gas Supply CPIM Benchmark Calculation
Fixed Transportation and Storage Costs
November 2012**

**Confidential Material
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	Volume (GJ) (a)	Unit Cost/Rate (Can. \$) (c)/(a) (b)	Fixed Transportation Costs (Can. \$) (c)	Exchange Rate (d)	Fixed Transportation Costs (U.S. \$) (e)
<u>Canadian</u>					
Redacted					

Pacific Gas and Electric Company
Core Gas Supply CPIM Calculation
Capacity Release Revenue
November 2012

Confidential Material
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Pipeline	Term	MMBtu	Amount	Avg. Rate	Discount/ (Premium) Amount
Redacted					

Pacific Gas and Electric Company
Core Gas Supply CPIM Calculation
Commodity Purchases and Sales
December 2012

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Pipeline/Purchase Point	Purchases (MMBtu) (a)	Sales (MMBtu) (b)	Net Purchases and Sales (MMBtu) (a)+(b) (c)	Actual Commodity Costs (d)	Volumetric Transportation Costs (e)	Actual Commodity Sales (f)	Total Net Costs (d)+(e)+(f) (g)
Redacted							

Pacific Gas and Electric Company
Core Gas Supply CPIM Calculation
Reservation Charges & Other Costs/Revenues
December 2012

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P.U. Code Section 583

Redacted

Pacific Gas and Electric Company
Core Gas Supply CPIM Calculation
CPIM Performance Summary
December 2012

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Actual
Costs Benchmark
Costs Benchmark -
Actual Costs

Redacted

**Pacific Gas and Electric Company
Core Gas Supply CPIM Calculation
Modified Determined Usage
December 2012**

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Date	Burner Tip Modified Determined Usage (Therms) (a)	Modified Determined Use Grossed up to Citygate (Therms) (a)x(1+ Shrinkage Rate) (b)	Modified Determined Use Therms Converted to MMBtu (c)	Operating Imbalance Adjustment (MMBtu) (d)	Firm Storage CPIM Profile Injection/ (Withdrawal) (MMBtu) (e)	Incremental Storage Injection/ (Withdrawal) (MMBtu) (f)	Benchmark Load at Citygate (c)+(d)+(e)+(f) (MMBtu) (g)
Redacted							

**Pacific Gas and Electric Company
Core Gas Supply CPIM Calculation
Firm Storage Inventory
December 2012**

**Confidential Material
Submitted pursuant to
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Date	Nominations Injection/ (Withdrawal) (MMBtu) (a)	Imbalance Trading (MMBtu) (b)	Sales/ Transfers (MMBtu) (c)	Parking (MMBtu) (d)	Ending Inventory (a)+(b)+(c)+(d) (e)
Redacted					

**Pacific Gas and Electric Company
Core Gas Supply CPIM Calculation
Incremental Storage Inventory
December 2012**

**Confidential Material
Submitted pursuant to
General Order 66-C and
P.U. Code Section 583**

Lodi Gas Storages, Inc

Date	Nominations at Field (MMBtu) (a)	Equivalent at Citygate (MMBtu) (1) (b)	Ending Inventory Beg Bal + (a) (c)
Redacted			

(1) Includes 1.0% shrinkage for injection.

Pacific Gas and Electric Company
Core Gas Supply CPIM Benchmark Calculation
Daily Benchmark Sequence
December 2012

Confidential Material
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SEQUENCED VOLUMES AT CITYGATE

Date	Benchmark Load at Citygate	Ruby	AECO	San Juan	Kingsgate	Kern River	AECO	AECO	San Juan	Ruby	San Juan	Ruby	Topock	Citygate
Redacted														

Pacific Gas and Electric Company
Core Gas Supply CPIM Calculation
Daily Benchmark Summary
December 2012

Confidential Material
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<u>SEQUENCED VOLUMES AT CITYGATE</u>							<u>INDICES AT CITYGATE</u>					<u>TOTAL COMMODITY BENCHMARK</u>										
Date	Ruby	AECO	San Juan	Kingsgate	Kern River	Topock	Citygate	Ruby Rookies	AECO	San Juan	Kingsgate	Kern River	Topock	PG&E Citygate Daily	Ruby Rookies	AECO	San Juan	Kingsgate	Kern River	Topock	Citygate	Total
Redacted																						

**Pacific Gas and Electric Company
Core Gas Supply CPIM Benchmark Calculation
Fixed Transportation and Storage Costs
December 2012**

**Confidential Material
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	Volume (GJ) (a)	Unit Cost/Rate (Can. \$) (c)/(a) (b)	Fixed Transportation Costs (Can. \$) (c)	Exchange Rate (d)	Fixed Transportation Costs (U.S. \$) (e)
<u>Canadian</u>					
Foothills Pipelines Ltd. (GJ/d)					
Nova Gas Transmission Ltd. (GJ/d)					
Canadian Subtotal					
 <u>U.S. Interstate</u>					
Gas Transmission Northwest Corporation (MMBtu/d)					
El Paso Natural Gas Company (MMBtu/d)					
Ruby Pipeline (MMBtu/d)					
Kern River Gas Transmission (MMBtu/d)					
Transwestern Pipeline Company - 101629 (MMBtu)					
U.S. Interstate Subtotal					
 <u>Intrastate Transmission</u>					
California Gas Transmission (CGT)					
On Baja (MMBtu/d)					
On Redwood (MMBtu/d)					
Intrastate Transmission Subtotal					
 <u>Storage</u>					
CGT Firm Storage (MMBtu Inventory)					
Lodi Gas Storage, Inc. (MMBtu Inventory)					
Storage Subtotal					
Total Fixed Transportation & Storage Costs					

Redacted

**Pacific Gas and Electric Company
Core Gas Supply CPIM Calculation
Capacity Release Revenue
December 2012**

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Pacific Gas and Electric Company
Core Gas Supply CPIM Calculation
Commodity Purchases and Sales
January 2013

Confidential Material
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Pipeline/Purchase Point	Purchases (MMBtu) (a)	Sales (MMBtu) (b)	Net Purchases and Sales (MMBtu) (a)+(b) (c)	Actual Commodity Costs (d)	Volumetric Transportation Costs (e)	Actual Commodity Sales (f)	Total Net Costs (d)+(e)+(f) (g)
Redacted							

Pacific Gas and Electric Company
Core Gas Supply CPIM Calculation
Reservation Charges & Other Costs/Revenues

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Redacted

Pacific Gas and Electric Company
Core Gas Supply CPIM Calculation
CPIM Performance Summary
January 2013

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	Actual Costs	Benchmark Costs	Benchmark - Actual Costs
Redacted			

**Pacific Gas and Electric Company
Core Gas Supply CPIM Calculation
Modified Determined Usage
January 2013**

**Confidential Material
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Date	Burner Tip Modified Determined Usage (Therms) (a)	Modified Determined Use Grossed up to Citygate (Therms) (a)x(1+ Shrinkage Rate) (b)	Modified Determined Use Therms Converted to MMBtu (c)	Operating Imbalance Adjustment (MMBtu) (d)	Firm Storage CPIM Profile Injection/ Withdrawal (MMBtu) (e)	Incremental Storage Injection/ Withdrawal (MMBtu) (f)	Benchmark Load at Citygate (c)+(d)+(e)+(f) (MMBtu) (g)
Redacted							

**Pacific Gas and Electric Company
Core Gas Supply CPIM Calculation
Firm Storage Inventory
January 2013**

**Confidential Material
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Date	Nominations Injection/ (Withdrawal) (MMBtu) (a)	Imbalance Trading (MMBtu) (b)	Sales/ Transfers (MMBtu) (c)	Parking (MMBtu) (d)	Ending Inventory (a)+(b)+(c)+(d) (e)
Redacted					

**Pacific Gas and Electric Company
Core Gas Supply CPIM Calculation
Incremental Storage Inventory
January 2013**

**Confidential Material
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Lodi Gas Storages, Inc

Date	Nominations at Field (MMBtu) (a)	Equivalent at Citygate (MMBtu) (1) (b)	Ending Inventory Beg Bal + (a) (c)
Redacted			

(1) Includes 1.0% shrinkage for injection.

Pacific Gas and Electric Company
Core Gas Supply CPIM Benchmark Calculation
Daily Benchmark Sequence
January 2013

Confidential Material
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P.U. Code Section 583

SEQUENCED VOLUMES AT CITYGATE

Date	Benchmark Load at Citygate	Ruby	AECO	San Juan	Kingsgate	Kern River	AECO	AECO	Ruby	San Juan	Ruby	San Juan	Topock	Citygate
Redacted														

Pacific Gas and Electric Company
Core Gas Supply CPIM Calculation
Daily Benchmark Summary
January 2013

Confidential Material
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<u>SEQUENCED VOLUMES AT CITYGATE</u>								<u>INDICES AT CITYGATE</u>						<u>TOTAL COMMODITY BENCHMARK</u>								
Date	Ruby	AECO	San Juan	Kingsgate	Kern River	Topock	Citygate	Ruby Rookies	AECO	San Juan	Kingsgate	Kern River	Topock	PG&E Citygate Daily	Ruby Rookies	AECO	San Juan	Kingsgate	Kern River	Topock	Citygate	Total
Redacted																						

**Pacific Gas and Electric Company
Core Gas Supply CPIM Benchmark Calculation
Fixed Transportation and Storage Costs
January 2013**

**Confidential Material
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	Volume (GJ) (a)	Unit Cost/Rate (Can.\$) (c)/(a) (b)	Fixed Transportation Costs (Can. \$) (c)	Exchange Rate (d)	Fixed Transportation Costs (U.S. \$) (e)
<u>Canadian</u>					
Foothills Pipelines Ltd. (GJ/d)					
Nova Gas Transmission Ltd. (GJ/d)					
Canadian Subtotal					
<u>U.S. Interstate</u>					
Gas Transmission Northwest Corporation (MMBtu/d)					
El Paso Natural Gas Company (MMBtu/d)					
Ruby Pipeline (MMBtu/d)					
Kern River Gas Transmission (MMBtu/d)					
Transwestern Pipeline Company - 101629 (MMBtu)					
U.S. Interstate Subtotal					
<u>Intrastate Transmission</u>					
California Gas Transmission (CGT)					
On Baja (MMBtu/d)					
On Redwood (MMBtu/d)					
Intrastate Transmission Subtotal					
<u>Storage</u>					
CGT Firm Storage (MMBtu Inventory)					
Lodi Gas Storage, Inc. (MMBtu Inventory)					
Storage Subtotal					
Total Fixed Transportation & Storage Costs					

Redacted

Pacific Gas and Electric Company
Core Gas Supply CPIM Calculation
Capacity Release Revenue
January 2013

Confidential Material
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Pipeline	Term	MMBtu	Amount	Avg. Rate	Discount/ (Premium) Amount
Redacted					

Pacific Gas and Electric Company
 Core Gas Supply CPIM Calculation
 Kingsgate Index
 November 01, 2012 - January 31, 2013

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Month/Year	Kingsgate Index US \$/ MMBtu (1)	GTNC Fuel %	Kingsgate Index Grossed up (b)/[1-(c)]	GTNC Volumetric Rate	Total Index at Malin (d) + (e)	CGT Fuel %	Malin Index Grossed up (f)/[1-(g)]	Redwood CGT Volumetric Rate	Total Citygate Index (h)+(i) US \$/ MMBtu
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)

Redacted

(1) CGPR NGX AB-NIT Month Ahead Index (7A) CS/GJ + BC System As-Available Rate converted to US \$/MMBtu

Pacific Gas and Electric Company
 Core Gas Supply CPIM Calculation
 Malin Index
 November 01, 2012 - January 31, 2013

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Month/Year (a)	AECO Index Can \$/ GJ (1) (b)	Conversion of AECO Index to Can \$/ MMBtu (2) (c)	Foothills Fuel % (d)	AECO Index Grossed up (c)/[1-(d)] (e)	Monthly Exchange Rate (3) (f)	AECO/ Kingsgate Index (e)/(f) US \$/ MMBtu (g)	GTNC Fuel % (h)	Kingsgate Index Grossed up (g)/[1-(h)] (i)	GTNC Volumetric Rate (j)	Total Malin Index (i) + (j) (k)	CGT Fuel % (l)	Malin Index Grossed up (k)/[1-(l)] (m)	Redwood CGT Volumetric Rate (n)	Total Citygate Index (m) + (n) US \$/ MMBtu (o)
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Redacted

(1) CGPR NGX AB-NIT Month Ahead Index (7A) CS/GJ
 (2) A conversion rate of 1.055056 GJ/MMBtu is used.
 (3) This is the Canadian exchange rate at date of settlement.

Pacific Gas and Electric Company
 Core Gas Supply CPIM Calculation
 San Juan Index
 November 01, 2012 - January 31, 2013

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Month/Year	San Juan Index US \$/ MMBtu (1) (a)	TW Contract 101629 Fuel % (c)	San Juan Index Grossed up (b)/[1-(c)] (d)	TW Volumetric Rate (e)	San Juan Index Grossed up To Topock (d)+(e) (f)	CGT Fuel % (g)	San Juan Index Grossed up (f)/ [1-(g)] (h)	Baja CGT Volumetric Rate (i)	Total Citygate Index (h)+(i) US \$/ MMBtu (j)
Redacted									

(1) PER INSIDE FERC PUBLICATION

Pacific Gas and Electric Company
 Core Gas Supply CPIM Calculation
 Rocky Mountains Index
 November 01, 2012 - January 31, 2013

Confidential Material
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Month/Year (a)	Rocky Mts. Index (1) US \$/ MMBtu (b)	Ruby Pipeline Fuel % (c)	Rocky Mts. Index Grossed up (b)/[1-(c)] (d)	Ruby Pipeline Volumetric Rate MMBtu (e)	Rocky Mts. Index Grossed up at Malin (d)+(e) (f)	CGT Fuel % (g)	Rocky Mts. Index Grossed up (f)/[1-(g)] (h)	Redwood CGT Volumetric Rate (i)	Total Citygate Index (h)+(i) US \$/ MMBtu (j)
Redacted									

(1) Per Inside FERC Publication, Northwest Pipeline - Rocky Mountains

**Pacific Gas and Electric Company
Core Gas Supply CPIM Calculation
Topock Daily Price Conversion to Monthly Equivalent(1)
November 01, 2012 - January 31, 2013**

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DECEMBER 2012				JANUARY 2013			
Day of Month	Sequenced Volume at Topock (MMBtu) (a)	PG&E Daily Topock Index (2) (US\$/MMBtu) (b)	Benchmark \$ at Topock (a) x (b) (c)	Day of Month	Sequenced Volume at Topock (MMBtu) (d)	PG&E Daily Topock Index (2) (US\$/MMBtu) (e)	Benchmark \$ at Topock (d) x (e) (f)

Redacted

(1) Topock supply point is only included in the CPIM sequence in December, January and February. No daily weighting calculation needed in other months.
(2) *NGI Daily Price Index* California Southern Border, PG&E average price

Pacific Gas and Electric Company
 Core Gas Supply CPIM Calculation
 Topock Index
 November 01, 2012 - January 31, 2013

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Month/Year	PG&E Topock Index US \$/ MMBtu (1) (a)	CGT Shrinkage % (b)	Index Grossed up to Citygate (a)/[1-(b)] (c)	Baja CGT Volumetric Rate (d)	Topock Index at Citygate (c)+(d) US \$/ MMBtu (e)
Redacted					

(1) NGL's Bktweek Survey Southern Border, PG&E

The PG&E Topock Index used in column (a) is a calculated value, based on daily Topock Index prices weighted by the Topock volumes on each day. See prior page. This calculation is only necessary for the months of December, January and February when Topock is included in the CPIM sequence.

Pacific Gas and Electric Company
 Core Gas Supply CPIM Calculation
 Kern River Index
 November 01, 2012 - January 31, 2013

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Month/Year	Rocky Mts Index US \$/ MMBtu (1) (a)	Kern River Fuel % (c)	Rocky Mts Index Grossed up (b)/[1-(c)] (d)	Kern River Volumetric Rate (e)	Rocky Mts Index Grossed up To Daggett (d)+(e) (f)	CGT Fuel % (g)	Rocky Mts Index Grossed up (f)/ [1-(g)] (h)	Baja CGT Volumetric Rate (i)	Total Citygate Index (h)+(i) US \$/ MMBtu (j)
Redacted									

Pacific Gas and Electric Company
 Core Gas Supply CPIM Calculation
 Core Supply Portfolio Composition
 November 01, 2012 - January 31, 2013

Confidential Material
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Month/Year	SW	<u>MMBtu Purchases (1)</u>			Total	<u>Average Price, U.S. \$</u>				<u>Percentage of Total</u>		
		BL	MM			SW	BL	MM	Total	SW	BL	MM
Redacted												

(1) MMBtu Purchases are volumes at point of purchase
 SW = Swing, or daily spot, less than one month duration
 BL = Baseload, one month duration, purchased for prompt (next) month
 MM = Multi-month, or purchased further out than prompt month

Pacific Gas and Electric Company
Core Gas Supply CPIM Calculation
Capacity Utilization
November 01, 2012 - January 31, 2013

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El Paso Natural Gas Company

California Gas Transmission - Baja

Redacted

**Pacific Gas and Electric Company
Core Gas Supply CPIM Calculation
Summary of Executed Hedging Transactions
November 01, 2012 - January 31, 2013**

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Winter Hedging Options	Non-Winter Hedging (4) Fixed for Floating Swaps
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Execution Month	Coverage Period	CPIM Year	Volume (MMBtu)	Premium Cost	Volume (MMBtu)	Average Swap Price	Total Volume (MMBtu)
Redacted							

- Notes: 1.) Report combines transactions at multiple supply points (could include AECO Hub, Rockies and/or San Juan Basin).
 2.) All volumes are at points of transaction (typically in the supply basin).
 3.) Fixed for Floating Swaps Average Swap Price includes impact of basis swaps if any apply.
 4.) Non-winter hedges are executed in CPIM Year 19 but are not for winter hedging (storage hedges, basis swaps etc.)
 Non-winter hedges will be included in CPIM Year 19 actuals when settled, but will not create additional benchmark dollars.

All swaps at AECO are executed in Canadian dollars (CAD) per GJ to mirror Core Procurement's physical gas purchases. The CAD notional value is converted to USD using the spot FX rate at date of swap execution.