



San Joaquin Valley

AIR POLLUTION CONTROL DISTRICT



HEALTHY AIR LIVING™

MAY 28 2014

Gregory Pritchett
Chevron USA, Inc.
PO Box 1392
Bakersfield, CA 93302

Re: Notice of Preliminary Decision – Emission Reduction Credits
Facility Number: S-1129
Project Number: S-1122845

Dear Mr. Pritchett:

Enclosed for your review and comment is the District's analysis of Chevron USA, Inc.'s application for Emission Reduction Credits (ERCs) resulting from the shutdown of three gas turbine engines, at the North Midway Cogeneration facility in your western Kern County heavy oil production source. The quantity of ERCs proposed for banking is 9,447 lb-NOx/yr, 51 lb-SOx/yr, 3,388 lb-PM10/yr, 6,356 lb-CO/yr, 1,077 lb-VOC/yr and 30,279 metric tons CO2e/yr.

The notice of preliminary decision for this project will be published approximately three days from the date of this letter. After addressing all comments made during the 30-day public notice comment period, the District intends to issue the ERCs. Please submit your written comments on this project within the 30-day public comment period, as specified in the enclosed public notice.

Thank you for your cooperation in this matter. If you have any questions regarding this matter, please contact Mr. Stephen Leonard of Permit Services at (661) 392- 5605.

Sincerely,

Arnaud Marjollet
Director of Permit Services

AM:SPL/st

Enclosures

cc: Mike Tollstrup, CARB (w/enclosure) via email
cc: Gerardo C. Rios, EPA (w/enclosure) via email

Seyed Sadredin
Executive Director/Air Pollution Control Officer

Northern Region
4800 Enterprise Way
Modesto, CA 95356-8718
Tel: (209) 557-6400 FAX: (209) 557-6475

Central Region (Main Office)
1990 E. Gettysburg Avenue
Fresno, CA 93726-0244
Tel: (559) 230-6000 FAX: (559) 230-6061

Southern Region
34946 Flyover Court
Bakersfield, CA 93308-9725
Tel: 661-392-5500 FAX: 661-392-5585

II. Applicable Rules:

Rule 2201 New and Modified Stationary Source Review Rule (4/21/11)
Rule 2301 Emission Reduction Credit Banking (1/19/12)
Rule 4703 Stationary Gas Turbines (9/20/07)

III. Location of Reduction:

The physical location of the equipment involved with this application is as follows:

Permit Unit	Section	Township	Range
S-1129-53	34	30 South	22 East
S-1129-54	34	30 South	22 East
S-1129-55	34	30 South	22 East

IV. Method of Generating Reductions:

The emission reductions are generated by the permanent shutdown of the three North Midway Cogeneration unit turbines, District permit units S-1129-53, '-54, & '-55. The applicant surrendered the Permits to Operate (PTOs) for the associated equipment with this application on July 19, 2012.

V. Calculations:

A. Assumptions and Emission Factors

Assumptions:

- GTEs "dormant" prior to January 1, 2012
- North Midway Cogeneration Plant historically operated one or more GTEs for 24 hours/day, 7 days/week (District Permit)
- GTEs combusted on PUC quality natural gas (District Permit)
- North Midway GTEs permitted as "non-compliant dormant" since before the final compliance deadline for District Rule 4703 "Stationary Gas Turbines" of January 1, 2012 (District Permit)
- Two-year baseline period selected for documentation of AER is 10/01/2008 through 9/30/2010
- Source testing for NO_x, CO, fuel sulfur limit, and SO_x as SO₂ were performed annually

- Actual emissions are defined in Rule 2201 as, "emissions having occurred from a source, based on source test or monitoring data, actual fuel consumption, and process data. If source test or monitoring data is not available, other appropriate, APCO-approved, emission factors may be used".

Emission Factors:

- District Rule 4703 "Stationary Gas Turbines" would require 5 ppmv NO_x @ 15% O₂ (0.0184 lb-NO_x/MMBtu) if operated past the Tier 3 compliance deadlines, as described in Section 7.3 of this rule, so 5 ppmv NO_x @ 15% O₂ is used to determine AER during baseline period to ensure only "surplus" reductions are credited
- CO and SO₂ emission factors are based on averaged results of GTE source tests during baseline period (see Appendix E for summary of source test results)
- PM₁₀ and VOC emission factors are based on USEPA AP-42, Fifth Edition, Chapter 3, "Stationary Internal Combustion Sources, Section 3.1, Table 3.1-2a, April, 2000 (see Appendix F for Table 3.1-2a)

Emission factors from the "California Air Resources Board Regulation for the Mandatory Reporting of Greenhouse Gas Emissions, Appendix A" are used to quantify CO₂e. The emission factors are as follows:

Carbon Dioxide – Natural Gas Combustion: 53.02 Kg-CO₂/MMBtu
Methane – Natural Gas Combustion: 0.0009 Kg-CH₄/MMBtu
Nitrous Oxide – Natural Gas Combustion: 0.0001 Kg-N₂O/MMBtu

District Rule 2301, "Emission Reduction Credit Banking", Table 1 conversion factors are used to convert carbon dioxide, methane and nitrous oxide emissions to CO₂e. The conversion factors are as follows:

Carbon Dioxide: 1 Metric Ton per 1 Metric Ton CO₂
Methane: 21 Metric Ton CO₂e per 1 Metric Ton CH₄
Nitrous Oxide: 310 Metric Ton CO₂e per 1 Metric Ton N₂O

The GHG emission factors and CO₂e conversion factors are combined as follows to give an overall emission factor of CO₂e:

$$\text{Carbon Dioxide: } (53.02 \text{ Kg-CO}_2/\text{MMBtu})(1 \text{ Mt CO}_2\text{e/Mt CO}_2)(1 \text{ Mt}/1000 \text{ Kg}) \\ = \mathbf{0.05302 \text{ Mt CO}_2\text{e/MMBtu}}$$

$$\text{Methane: } (0.0009 \text{ Kg-CH}_4/\text{MMBtu})(21 \text{ Mt CO}_2\text{e/Mt CH}_4)(1 \text{ Mt}/1000 \text{ Kg}) \\ = \mathbf{0.000019 \text{ Mt CO}_2\text{e/MMBtu}}$$

$$\text{Nitrous Oxide: } (0.0001 \text{ Kg-N}_2\text{O/MMBtu})(310 \text{ Mt CO}_2\text{e/MT N}_2\text{O})(1 \text{ Mt}/1000 \text{ Kg}) \\ = \mathbf{0.000031 \text{ Mt CO}_2\text{e/MMBtu}}$$

Therefore, the overall CO₂e emission factor equals:

$$(0.05302 \text{ Mt CO}_2\text{e/MMBtu}) + (0.000019 \text{ Mt CO}_2\text{e/MMBtu}) + (0.000031 \text{ Mt CO}_2\text{e})$$

$$= \mathbf{0.05307 \text{ Mt CO}_2\text{e/MMBtu}}$$

Emission factors for calculating AER during baseline period

Permit Unit	NO _x (lb/MMBtu)	SO _x (lb/MMBtu)	PM ₁₀ (lb/MMBtu)	CO (lb/MMBtu) [ⓐ]	VOC (lb/MMBtu)	CO ₂ e (Mt/MMBtu)
S-1129-53	0.0184	0.0001	0.0066	0.0130*	0.0021	0.05302
S-1129-54	0.0184	0.0001	0.0066	0.0126*	0.0021	0.05302
S-1129-55	0.0184	0.0001	0.0066	0.0078**	0.0021	0.05302

[ⓐ]Equivalent lb/MMBtu for calculation purposes

*Average of three source test results 2008 – 2010

**Average of two source test results 2008 - 2009

B. Baseline Period Determination and Data

CUSA submitted the application to the District on July 19, 2012.

Pursuant to District Rule 2201, Section 3.8, the baseline period for determining HAE shall be a period of time equal to either:

- 3.8.1 The two consecutive years of operation immediately prior to the submission date of the complete application; or
- 3.8.2 at least two consecutive years within the five years immediately prior to the submission date of the complete application if determined by the APCO as more representative of normal source operation; or
- 3.8.3 a shorter period of at least one year if the emissions unit has not been in operation for two years and this represents the full operational history of the emissions unit, including any replacement units; or
- 3.8.4 Zero years if an emissions unit has been in operation for less than one year (only for use when calculating AER).

For the purposes of this section, the submission of the complete application is considered to be July 19, 2012.

During the five year period immediately preceding the shutdown of the North Midway gas turbine engines, the two-year period which most closely matches the historic two year average fuel usage of the turbines, when combined, is the period of October 1, 2008 through September 30, 2010. This period is selected as the baseline period for purposes of determining historical actual emissions.

C. Historical Actual Emissions (See Appendix G for calculations spreadsheet)

Gas Turbine Engine S-1129-53 (CG-7)

Criteria Emissions During Baseline Period (lb/qtr)					
	NO _x	SO _x	PM10	CO	VOC
1st Quarter	966	5	346	682	110
2nd Quarter	691	4	248	488	79
3rd Quarter	865	5	310	611	99
4th Quarter	1,246	7	447	880	142

CO₂e emissions (Mt/qtr)				
	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
CO ₂ e	2,785	1,993	2,494	3,594
Mt/year				10,865

Gas Turbine Engine S-1129-54 (CG-8)

Criteria Emissions During Baseline Period (lb/qtr)					
	NO _x	SO _x	PM10	CO	VOC
1st Quarter	1,053	6	378	721	120
2nd Quarter	1,464	8	525	1,003	167
3rd Quarter	1,700	9	610	1,164	194
4th Quarter	1,715	9	615	1,174	196

CO₂e emissions (Mt/qtr)				
	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
CO ₂ e	3,036	4,223	4,902	4,947
Mt/year				17,107

Gas Turbine Engine S-1129-55 (CG-9)

Criteria Emissions During Baseline Period (lb/qtr)					
	NO _x	SO _x	PM10	CO	VOC
1st Quarter	185	1	66	79	21
2nd Quarter	420	2	151	178	48
3rd Quarter	36	0	13	15	4
4th Quarter	158	1	57	67	18

CO₂e emissions (Mt/qtr)				
	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
CO ₂ e	534	1,211	105	457
Mt/year				2,306

D. Adjustments to HAE

Pursuant to Section 3.22 of Rule 2201, Historical Actual Emissions must be discounted for any emissions reduction which is:

- Required or encumbered by any laws, rules, regulations, agreements, orders, or
- Attributed to a control measure noticed for workshop, or proposed or contained in a State Implementation Plan, or
- Proposed in the District Air Quality Plan for attaining the annual reductions required by the California Clean Air Act.
- Any Actual Emissions in excess of those required or encumbered by any laws, rules, regulations, orders, or permits. For units covered by a Specific Limiting Condition (SLC), the total overall HAE for all units covered by SLC must be discounted for any emissions in excess of that allowed by the SLC.

Adjustment for Rule 2201 – New and Modified Stationary Source Review Rule:

No adjustment to the calculated HAEs above is necessary for NSR purposes (Rule 2201)

Adjustment for Rule 4201 – Particulate Matter Concentration:

Section 3.1 prohibits discharge of dust, fumes, or total particulate matter into the atmosphere from any single source operation in excess of 0.1 grain per dry standard cubic foot.

Particulate matter emissions from the engine will be less than or equal to the rule limit of 0.1 grain per cubic foot of gas at dry standard conditions as shown by the following:

For the 48.7 MMBtu/hr gas turbine engines CG-7, CG-8, and CG-9, the permitted PM₁₀ emissions = 0.61 lb-PM₁₀/hr = 0.0125 lb-PM₁₀/MMBtu

Section 3.1 prohibits discharge of dust, fumes, or total particulate matter into the atmosphere from any single source operation in excess of 0.1 grain per dry standard cubic foot.

$$0.0125 \frac{lb}{10^6 Btu} \times \frac{453.6 g}{1 lb} \times \frac{10^6 Btu}{8,710 dscf} \times \frac{0.35 Btu_{out}}{1 Btu_{in}} \times \frac{15.43 grain}{g} = 0.0035 \frac{grain}{dscf}$$

The permitted emission factors used to calculate the PM emission concentration from the gas turbine engines meet the requirements for this rule and no adjustment is necessary.

Adjustment for Rule 4703 – Stationary Gas Turbine Engines:

The purpose of this rule is to limit the emissions of nitrogen oxides (NOx) from stationary gas turbine engines.

Rule 4703 requires an emission limit of 5 ppmv NO_x @ 15% O₂ (0.0184 lb-NO_x/MMBtu) if operated past the Tier 3 compliance deadlines, as described in Section 7.3 of this rule, so 5 ppmv NO_x @ 15% O₂ was used to determine AER during the baseline period to ensure only "surplus" reductions are credited.

E. Actual Emissions Reductions (AERs):

The total qualifying AERs are shown in the table below:

Qualifying AER During Baseline Period (lb/qtr)					
	NO _x	SO _x	PM10	CO	VOC
1st Quarter	2,204	12	790	1,482	251
2nd Quarter	2,575	14	924	1,669	294
3rd Quarter	2,600	14	933	1,790	297
4th Quarter	3,119	17	1,119	2,122	356

CO₂e emissions (Mt/year)	
	(Mt/year)
CO₂e	30,279

F. Air Quality Improvement Deduction (Criteria Pollutants)

The Air Quality Improvement Deduction (AQID) is 10% of the AER per Rule 2201, Sections 3.5 and 4.12.1, and is summarized as follows:

Air Quality Improvement Deduction (AQID) lb/qtr					
(AQID = AER x 10%)					
	NO _x	SO _x	PM10	CO	VOC
1st Quarter	220	1	79	148	25
2nd Quarter	257	1	92	167	29
3rd Quarter	260	1	93	179	30
4th Quarter	312	2	112	212	36

G. Increases in Permitted Emissions (IPE)

No IPE is associated with this project.

H. Bankable Emissions Reductions Credits

The bankable emissions reductions credits, presented in following table, are determined by subtraction of the Air Quality Improvement Deduction (discussed in Section V.F) from the AER.

Bankable Emissions Reductions Credits					
	NO_x	SO_x	PM10	CO	VOC
1st Quarter	1,983	11	711	1,333	226
2nd Quarter	2,317	13	831	1,502	264
3rd Quarter	2,340	13	839	1,611	267
4th Quarter	2,807	15	1,007	1,910	320

VI. Compliance:

Rule 2201 - New and Modified Stationary Source Review Rule:

To comply with the definition of Actual Emissions Reductions (Rule 2201, Section 3.2.1), the reductions must be real, enforceable, quantifiable, permanent, and surplus.

A. Real

The emissions reductions were generated by the shutdown of the three gas turbine engines at Chevron's North Midway cogeneration facility. The emissions reductions were calculated from actual historic data and recognized emission factors or source test data. The associated permits for these units have been surrendered to the District. Therefore, the emission reductions are real.

B. Enforceable

The PTO's for the three gas turbine engines have been surrendered to the District. Operation of any of the equipment without a valid permit would subject the Permittee to enforcement actions. Therefore, the reductions are enforceable.

C. Quantifiable

The reductions are quantifiable since they were calculated from historic production and fuel use data, source testing data, established and accepted emission factors, permitted limits, and methods according to District Rule 2201. Therefore, the reductions are quantifiable.

D. Permanent

The three gas turbine engines have been shut down and the PTOs have been surrendered to the District. Any subsequent installations of new equipment to replace the heat or power once generated by the GTEs will have to be fully offset through the Rule 2201 New Source Review permitting process. There are no other gas turbines in the area to perform the functions of the units that have been shut down, so there will be no shifting of emissions to other existing units performing the same tasks. Therefore, the reductions are permanent.

E. Surplus

To be considered surplus, Actual Emission Reductions shall be in excess, at the time the application for an Emission Reduction Credit or an Authority to Construct authorizing such reductions is deemed complete, of any emissions reduction which:

- *Is required or encumbered by any laws, rules, regulations, agreements, orders, or*
- *Is attributed to a control measure noticed for workshop, or proposed or contained in a State Implementation Plan, or*
- *Is proposed in the APCO's adopted air quality plan pursuant to the California Clean Air Act.*

At the time of the shutdown and subsequent permit surrender, all the units involved were in compliance with current and any known future requirements of all applicable rules and regulations. Therefore, the reductions are surplus.

F. Not used for the Approval of an Authority to Construct or as Offsets

The emission reduction credits generated by the shutdown of the three gas turbine engines were not used for the approval of any Authority to Construct or used as mitigating offsets for approval of other equipment.

Rule 2301 – Emission Reduction Banking:

Section 5.5 states that ERC certificate applications shall be submitted within 180 days after the emission reduction occurs. The applicant ceased operation of the equipment at this location in December of 2011. Although capable of resuming operation, the Permit to Operate for each turbine was surrendered when the ERC application was received on July 19, 2012. Therefore, the application was submitted in a timely fashion.

Section 6.1.2 states that if the emission reductions were created as a result of the shutdown of a permitted emissions unit, the relevant Permit(s) to Operate have been surrendered and voided. The Permits to Operate were surrendered with the application submittal and were canceled by the District on May 9, 2014.

For the GHG Reductions associated with this project:

Per District Rule 2301, Section 4.5, the following criteria must be met in order to deem such reductions eligible for banking:

- 4.5.1** The greenhouse gas emission reduction must have actually occurred on or after January 1, 2005, except as allowed in specific CARB approved GHG emission reduction project protocols.

The emission reductions occurred with the permanent cessation of emissions on December 29, 2011. As the emissions reduction occurred after 1/1/05, this criterion has been satisfied.

- 4.5.2** The greenhouse gas emission reductions must have occurred within the San Joaquin Valley Unified Air Pollution Control District.

The emissions occurred at Kern River Oilfield within Chevron's Kern County Heavy Oil Western stationary source. Since this location is within the District, this criterion has been satisfied.

- 4.5.3** The greenhouse gas emission reductions are real, surplus, permanent, quantifiable, and enforceable, except as provided in Section 4.5.5.

Real:

The GHG emission reductions were generated by the shutdown of three gas turbine engines (S-1129-53, '-54, and '-55). The real emissions were calculated from actual historic fuel use data and recognized emission factors. The gas turbines have been removed from service and the permits have been canceled. Therefore, the emission reductions are real.

Surplus:

The facility is subject to the California Air Resources Board (CARB) Cap and Trade regulation; however, the reductions occurred prior to January 1, 2012; therefore, the emission reductions satisfy the surplus requirement in Section 4.5.3.1.

The reductions did not occur as a result of any law, rule, or regulation that required the greenhouse gas emission reduction. Therefore, the emission reductions satisfy the surplus requirement in Section 4.5.3.2.

The emission reductions are not the result of an action taken by the Permittee to comply with any requirement. The emission reductions credited are surplus to all requirements. Therefore, the emission reductions satisfy the surplus requirement in section 4.5.3.3.

Permanent:

The gas turbines have been shut down and the PTOs have been surrendered.

When determining the geographical boundary in which the emission reduction is determined to be permanent, the applicant may consider how the GHG ERC may likely be used.

Please note that the while Rule 2301 allows facilities to receive ERCs for GHG emission reductions; the District does not have any requirements on the use of GHG ERCs. However, it is anticipated that the likely use of such GHG ERCs would be their future retirement as GHG mitigation in the CEQA process.

Pursuant to CEQA, lead agencies must consider the environmental impact of GHG emissions from a project and may require that such GHG emissions be mitigated. In evaluating various mitigation techniques, including the retirement of GHG ERCs, the lead agency must determine if the proposed mitigation technique adequately mitigates the projects GHG emission increase.

When a lead agency determines if the retirement of a particular GHG ERC provides adequate GHG mitigation for a project, the lead agency may choose to consider the location where the GHG ERC was generated and the geographical boundary used to determine the permanence of the emission reduction. Then in making this determination, the lead agency may conclude that the retirement of a particular GHG ERC would provide adequate mitigation for projects within that same geographical boundary. Again, that determination will be made by the lead agency for a particular project.

For this application, the facility has selected California as the geographical boundary for which the emission reduction is permanent. Chevron has provided a graph showing the decline in California Oil Production from 1995 to 2012 (see Appendix C). Additionally, Chevron is an entity covered by California CAP and Trade (AB32), AB 32 requires California to return to 1990 levels of greenhouse gas emissions by 2020. Therefore, Chevron will have to mitigate a 15% reduction in greenhouse gas emissions compared to the 'business-as-usual' scenario in 2020. This information validates California as the geographical boundary selection for a permanent GHG emission reduction.

Quantifiable:

The actual emissions were calculated from historic fuel-use records and accepted emission factors. Therefore, the emission reductions are quantifiable and have been quantified.

Enforceable:

The gas turbines have been shut down and the PTOs have been surrendered to the District and canceled. Operation of the equipment

without a valid permit would subject the Permittee to enforcement action. Therefore, the emission reductions are enforceable.

- 4.5.4** Greenhouse gas emission reductions are calculated as the difference between the historic annual average greenhouse gas emissions (as CO₂E) calculated using the consecutive 24 month period immediately prior to the date the emission reduction occurred, or another consecutive 24 month period in the 60 months prior to the date the emission reduction occurred if determined by the APCO as being more representative of normal operations, and the potential greenhouse gas emissions (as CO₂E) after the project is complete, except as provided in section 4.5.5.

The GHG emission reductions were calculated according to the baseline period identified above. Since this is a permanent shutdown of the gas turbine engines, with none of the load being shifted to other units in California, there is no post-project potential to emit GHG.

- 4.5.5** Greenhouse gas emission reductions proposed to be quantified using CARB approved emission reduction project protocols shall be calculated in accordance with the applicable protocol.

Since the GHG emission reductions are not subject to an applicable CARB-approved emission reduction project protocol, this section is not applicable.

- 4.5.6** Emission reduction credits shall be made enforceable through permit conditions. If the District, pursuant to state laws, is prohibited from permitting the emission unit, the source creating the greenhouse gas emission reduction shall execute a legal binding contract with the District which ensures that the emission reductions will be generated in accordance with the provisions of this rule.

The gas turbine engines held legal District operating permits. Said permits have been surrendered to the District. Since the operation of the gas turbines would require a new Authority to Construct, the emission reduction is enforceable.

Section 5 identifies ERC Certificate application procedures.

Section 5.5.2 requires, for emission reductions occurring prior to 1/19/12, applications for ERCs must be submitted by 7/19/12.

The application was submitted on July 19, 2012. Therefore, the application is timely.

Section 6.15 specifies the registration requirements for GHG ERCs.

Section 6.15.13 requires the emission reductions are surplus and additional of all requirements pursuant to Section 4.5.3.4. Therefore the ERC certificate shall include the following notation:

"This emission reduction is surplus and additional to all applicable regulatory requirements."

Compliance with Rule 2301 has been demonstrated and no adjustments are required under this Rule.

VII. Recommendation:

Issue Emission Reduction Credit (ERC) Certificates S-4211-1, '-2, '-3, '-4, and '-5 in the amounts shown below and on the draft ERC certificate contained in Appendix A.

	NO_x [lb/qtr]	SO_x [lb/qtr]	PM₁₀ [lb/qtr]	CO [lb/qtr]	VOC [lb/qtr]	CO₂e [Mt/year]
1 st Quarter	1,983	11	711	1,333	226	
2 nd Quarter	2,317	13	831	1,502	264	
3 rd Quarter	2,340	13	839	1,611	267	
4 th Quarter	2,807	15	1,007	1,910	320	
Mt/year						30,279

List of Appendices

- A. Draft ERC Certificates
- B. Surrendered Permits to Operate
- C. Graph of California Field Production of Crude Oil
- D. North Midway GTE Fuel Usage during Baseline Period
- E. Summary of GTE Source Test Results during Baseline Period
- F. AP-42, Chapter 3, Section 3.1, Table 3.1-2a
- G. Calculation Spreadsheet of Historical Actual Emissions and Bankable Emissions

Appendix A

Draft ERC Certificates

San Joaquin Valley
Air Pollution Control District

Southern Regional Office • 34946 Flyover Court • Bakersfield, CA 93308

Emission Reduction Credit Certificate

S-4304-1
DRAFT

ISSUED TO: CHEVRON U S A INC
ISSUED DATE: <DRAFT>
LOCATION OF REDUCTION: HEAVY OIL WESTERN CA
SECTION: 34 TOWNSHIP: 30S RANGE: 22E

For VOC Reduction In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
226 lbs	264 lbs	267 lbs	320 lbs

Conditions Attached

Method Of Reduction

- Shutdown of Entire Stationary Source
 Shutdown of Emissions Units
 Other

Shutdown of gas turbines S-1129-53, '-54, and '-55

Use of these credits outside the San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD) is not allowed without express written authorization by the SJVUAPCD.

Seyed Sadredin, Executive Director / APCO

DRAFT

Arnaud Marjollet, Director of Permit Services

San Joaquin Valley
Air Pollution Control District

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Emission Reduction Credit Certificate

S-4304-2
DRAFT

ISSUED TO: CHEVRON U S A INC
ISSUED DATE: <DRAFT>
LOCATION OF REDUCTION: HEAVY OIL WESTERN CA
SECTION: 34 TOWNSHIP: 30S RANGE: 22E

For NOx Reduction In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
1,983 lbs	2,317 lbs	2,340 lbs	2,807 lbs

Conditions Attached

Method Of Reduction

- Shutdown of Entire Stationary Source
- Shutdown of Emissions Units
- Other

Shutdown of gas turbines S-1129-53, '-54, and '-55

Use of these credits outside the San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD) is not allowed without express written authorization by the SJVUAPCD.

Seyed Sadredin, Executive Director / APCO

DRAFT

Arnaud Marjollet, Director of Permit Services

San Joaquin Valley
Air Pollution Control District

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Emission Reduction Credit Certificate

S-4304-3
DRAFT

ISSUED TO: CHEVRON U S A INC
ISSUED DATE: <DRAFT>
LOCATION OF REDUCTION: HEAVY OIL WESTERN CA
SECTION: 34 TOWNSHIP: 30S RANGE: 22E

For CO Reduction In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
1,333 lbs	1,574 lbs	1,590 lbs	1,907 lbs

Conditions Attached

Method Of Reduction

- Shutdown of Entire Stationary Source
 Shutdown of Emissions Units
 Other

Shutdown of gas turbines S-1129-53, '-54, and '-55

Use of these credits outside the San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD) is not allowed without express written authorization by the SJVUAPCD.

Seyed Sadredin, Executive Director / APCO

DRAFT

Arnaud Marjollet, Director of Permit Services

San Joaquin Valley
Air Pollution Control District

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Emission Reduction Credit Certificate

S-4304-4
DRAFT

ISSUED TO: CHEVRON U S A INC
ISSUED DATE: <DRAFT>
LOCATION OF REDUCTION: HEAVY OIL WESTERN CA
SECTION: 34 TOWNSHIP: 30S RANGE: 22E

For PM10 Reduction In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
711 lbs	831 lbs	839 lbs	1,007 lbs

Conditions Attached

Method Of Reduction

- Shutdown of Entire Stationary Source
 Shutdown of Emissions Units
 Other

Shutdown of gas turbines S-1129-53, '-54, and '-55

Use of these credits outside the San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD) is not allowed without express written authorization by the SJVUAPCD.

Seyed Sadredin, Executive Director, APSCO

DRAFT

Arnaud Marjollet, Director of Permit Services

San Joaquin Valley
Air Pollution Control District

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Emission Reduction Credit Certificate

S-4304-5
DRAFT

ISSUED TO: CHEVRON U S A INC
ISSUED DATE: <DRAFT>
LOCATION OF REDUCTION: HEAVY OIL WESTERN
CA
SECTION: 34 TOWNSHIP: 30S RANGE: 22E

For SOx Reduction In The Amount Of:

Quarter 1	Quarter 2	Quarter 3	Quarter 4
11 lbs	13 lbs	13 lbs	15 lbs

Conditions Attached

Method Of Reduction

- Shutdown of Entire Stationary Source
 Shutdown of Emissions Units
 Other

Shutdown of gas turbines S-1129-53, '-54, and '-55

Use of these credits outside the San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD) is not allowed without express written authorization by the SJVUAPCD.

Seyed Sadredin, Executive Director / APCO

DRAFT

Arnaud Marjollet, Director of Permit Services

San Joaquin Valley
Air Pollution Control District

Southern Regional Office • 34946 Flyover Court • Bakersfield, CA 93308

Emission Reduction Credit Certificate

S-4304-24
DRAFT

ISSUED TO: CHEVRON U S A INC
ISSUED DATE: <DRAFT>
LOCATION OF REDUCTION: HEAVY OIL WESTERN
CA
SECTION: 34 TOWNSHIP: 30S RANGE: 22E

For CO2E Reduction In The Amount Of:

30,279 metric tons / year

Conditions Attached

Method Of Reduction

- Shutdown of Entire Stationary Source
 Shutdown of Emissions Units
 Other

Shutdown of gas turbines S-1129-53, '-54, and '-55

Emission Reduction Qualification Criteria

Seyed Sadredin, Executive Director / APCO

DRAFT

Arnaud Marjollet, Director of Permit Services

Appendix B

Surrendered Permits to Operate

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1129-53-11

EXPIRATION DATE: 02/29/2016

SECTION: 34 TOWNSHIP: 30S RANGE: 22E

EQUIPMENT DESCRIPTION:

3.5 MW COMBINED CYCLE GAS TURBINE TOPPING CYCLE COGENERATION NORTH MIDWAY UNIT #7

PERMIT UNIT REQUIREMENTS

1. Units shall be fired exclusively on PUC-quality natural gas which has a sulfur content of less than or equal to 0.017% by weight. [40 CFR 60.333(a) & (b); 60.332(a); Kern County Rule 407] Federally Enforceable Through Title V Permit
2. Gas turbine shall be fired exclusively with PUC-quality natural gas or equivalent with total sulfur content of less than or equal to 1.0 gr S/100 scf of gas. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Operator shall not discharge into the atmosphere combustion contaminants (PM) exceeding in concentration at the point of discharge, 0.1 gr/dscf. [District Rule 4201; Kern County Rule 404] Federally Enforceable Through Title V Permit
4. If the turbine is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the turbine shall be determined using ASTM method D 1072, D 3031, D 4084, D 3246 or Double GC for H₂S and Mercaptans. [40 CFR 60.335(d)] Federally Enforceable Through Title V Permit
5. HHV and LHV of the fuel shall be determined using ASTM D3588, ASTM 1826, or ASTM 1945. [40 CFR 60.335(b) and District Rule 4703, 6.4.5] Federally Enforceable Through Title V Permit
6. Nitrogen oxides (NO_x) concentrations shall be determined using EPA Method 7E or 20, and oxygen (O₂) concentrations shall be determined using EPA Method 3, 3A, or 20. [40 CFR 60.335(b) and District Rule 4703, 6.4] Federally Enforceable Through Title V Permit
7. The operator shall provide source test information annually regarding the exhaust gas NO_x concentration corrected to 15% O₂ (dry). [40 CFR 60.332(a), (b) and District Rule 4703, 5.1] Federally Enforceable Through Title V Permit
8. Carbon monoxide (CO) concentrations shall be determined using EPA Method 10 or 10B. [District Rule 4703, 6.4] Federally Enforceable Through Title V Permit
9. If the turbine is fired on PUC-regulated natural gas, then the operator shall maintain a log describing the source of natural gas and the quantity used. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
10. The operator of a stationary gas turbine system shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
11. Operator shall maintain a stationary gas turbine operating log that includes, on a daily basis, the actual local start-up and stop time, length and reason for reduced load periods, total hours of operation, source(s) of and quantity of fuel used, fuel sulfur content and fuel nitrogen content. [40 CFR 60.332(a),(b); District Rules 2520, 9.3.2 and 4703, 6.2.4] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

12. Permittee shall install, operate and maintain in calibration a predictive emissions monitoring system which continuously measures and records the water-to-fuel ratio and which correlates the water-to-fuel ratio with the NOx concentration in the exhaust by using the method described in 40 CFR 60.335(c). [Rule 4703, 6.2.1 and 40 CFR 60.334] Federally Enforceable Through Title V Permit
13. Permittee shall submit to the APCO the information correlating the control system operating parameters to the associated measured NOx output. [District Rule 4703, 6.2.5] Federally Enforceable Through Title V Permit
14. Permittee shall install, operate and maintain in calibration a system which continuously measures and records elapsed time of turbine operation. [District Rule 4703, 6.2.1] Federally Enforceable Through Title V Permit
15. Permittee shall submit an excess emissions and monitoring systems performance report (excess emissions are defined in applicable subparts) and/or a summary report form to the APCO semiannually, except when more frequent reporting is specifically required by an applicable subpart. All reports shall be postmarked by the 30th day of each calendar half (or quarter, as appropriate). [40 CFR 60.7(c)] Federally Enforceable Through Title V Permit
16. Any one-hour period during which the average water-to-fuel ratio, as measured by the continuous monitoring system, falls below the water-to-fuel ratio determined to demonstrate NSPS NOx compliance shall be reported to the APCO. Each report shall include the average water-to-fuel ratio, average fuel consumption, ambient conditions, turbine gas load and nitrogen content of the fuel during the period of excess emissions. [40 CFR 60.334(c)] Federally Enforceable Through Title V Permit
17. All wells producing from strata steamed by this unit shall be connected to a District-approved emissions control system, have District-approved closed casing vents or be District-approved uncontrolled cyclic wells. [District Rule 4401, 5.0] Federally Enforceable Through Title V Permit
18. Cogeneration unit shall include 48.7 MMBtu/hr (nominal rating) Allison, model 501-KB-5, gas-fired turbine engine with pilotless fuel nozzles or conventional fuel nozzles, Ideal Synchronous electrical generator, Struthers-Wells unfired 22.5 MMBtu/hr steam generator and an inlet air evaporative cooler. [District NSR Rule] Federally Enforceable Through Title V Permit
19. Turbine lube oil tank shall vent only through CECO Model #STTOR-10 fiber bed filter system. [District NSR Rule] Federally Enforceable Through Title V Permit
20. Generator gearbox lube oil tank shall vent only through CECO Model #STTOR-10 fiber bed filter system. [District NSR Rule] Federally Enforceable Through Title V Permit
21. Permittee shall notify the District by fax or in writing prior to or within 4 hours of any turbine nozzle replacement, except for identical replacement. [District NSR Rule] Federally Enforceable Through Title V Permit
22. Gas turbine engine shall be equipped with continuously recording fuel gas flow rate monitor. [District NSR Rule] Federally Enforceable Through Title V Permit
23. Gas turbine engine shall be equipped with operational water injection system for NOx control. [District NSR Rule] Federally Enforceable Through Title V Permit
24. Gas turbine engine shall be equipped with continuously recording water injection rate monitor accurate to within 5%. [District NSR Rule] Federally Enforceable Through Title V Permit
25. Waste heat recovery steam generator exhaust shall be equipped with permanent provisions to allow collection of gas samples consistent with EPA methods. [District NSR Rule] Federally Enforceable Through Title V Permit
26. Gas turbine engine water injection rate shall be maintained at a water to fuel ratio no less than 0.48/1.0 by weight while operating with pilotless fuel nozzles and no less than 0.8/1.0 by weight while operating with conventional fuel nozzles. [District NSR Rule] Federally Enforceable Through Title V Permit
27. Evaporative cooler shall use only fresh and filtered water. [District NSR Rule] Federally Enforceable Through Title V Permit
28. Fiber bed filter system shall be maintained and operated in accordance with the manufacturer's plans and specifications. [District NSR Rule] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

29. Maximum emission rate of volatile organic compounds (VOC's) from turbine lube oil vent shall not exceed 0.02 lb/hr. [District NSR Rule] Federally Enforceable Through Title V Permit
30. Except during periods of startup/shutdown, emission rates (3 hr average) shall not exceed: PM10: 0.61 lb/hr; SOx (as SO2): 0.16 lb/hr; NOx: 42 ppmvd @ 15% O2; VOC: 1.65 lb/hr; and CO: 41 ppmvd @ 15% O2. [District Rules 2201 and 4703, 5.1] Federally Enforceable Through Title V Permit
31. Except during periods of startup/shutdown, NOx emission rate (3 hr average) shall not exceed 35 ppmvd NO2 @ 15% O2. [District Rule 4703, 5.2]
32. Emissions shall not exceed the following: PM10: 14.6 lb/day; SOx (as SO2): 3.3 lb/day; NOx (as NO2): 153.0 lb/day; VOC: 39.6 lb/day; and CO: 107.8 lb/day. [District NSR Rule] Federally Enforceable Through Title V Permit
33. NOx and SOx emission rates (1 hr average) shall not exceed NSPS standard of 150 ppmv-dry @ 15% O2, and 150 ppmv-dry @ 15% O2, respectively. [District Rule 2520, 9.3.2; 40 CFR 60.332(c); 40CFR 60.333(a)] Federally Enforceable Through Title V Permit
34. During days of gas turbine startup/shutdown, permittee shall maintain accurate daily records of natural gas consumption in gas turbine for normal operation and startup/shutdown periods. [District NSR Rule] Federally Enforceable Through Title V Permit
35. Compliance testing of lube oil vent and gearbox vent shall be required if monthly visible emissions checks from either vent exceeds 5% opacity or equivalent Ringelmann 1/4. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rules 2520, 9.3.2 and NSR] Federally Enforceable Through Title V Permit
36. Thermal stabilization period shall be defined as the start-up or shutdown time necessary to bring the heat recovery steam generator to proper temperature, not exceeding two hours. [District NSR Rule] Federally Enforceable Through Title V Permit
37. Startup and shutdown of gas turbine engine shall not exceed a time period of two hours and two hours, respectively, per occurrence. [40 CFR Subpart A 60.2, District Rule 4703, and District NSR Rule] Federally Enforceable Through Title V Permit
38. Permittee shall keep accurate records of fuel sulfur content, and such records shall be made available for District inspection for five years. [40 CFR 60.334(b)(2), District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
39. Annual compliance with GTE NOx and CO emission limits and fuel sulfur limit shall be demonstrated by District witnessed or authorized sample collection by independent laboratory. Test results shall be submitted within 60 days. [District NSR Rule and Rule 1081] Federally Enforceable Through Title V Permit
40. Operator shall be required to conform to the compliance testing procedures described in District Rule 1081. [District Rule 1081; Kern County Rule 108.1] Federally Enforceable Through Title V Permit
41. The following types of units are not affected units subject to the requirements of the Acid Rain Program: 1) A simple combustion turbine that commenced operation before November 15, 1990, 2) Any unit that, during 1985, did not serve a generator that produced electricity for sale and that did not, as of November 15, 1990, and does not currently, serve a generator that produces electricity for sale, 3) A cogeneration facility which for a unit that commenced construction prior to November 15, 1990, was constructed for the purpose of supplying equal to or less than one-third its potential electrical output capacity or equal to or less than 219,000 Mwe-hrs actual electric output on an annual basis to any utility power distribution system for sale. Therefore, the requirements of 40 CFR 72.6 do not apply to this source. A permit shield is granted from this requirement. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
42. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following applicable requirements: SJVUAPCD Rule 1081, 4201, 3.1; Rules 406 (Fresno), 407 (Kings, San Joaquin, Stanislaus, Tulare, Merced, and Kern), and 404(Madera); 40 CFR 60.332(c), (d); 60.334 (b), and (c)(2); 60.335(d). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

43. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: SJVUAPCD Rule 4703, 6.2.2; Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern and Stanislaus), and 110 (Madera); Rules 402 (Madera) and 404 (Fresno, Kern, Kings, San Joaquin, Merced, Stanislaus, Tulare); 40 CFR 60.332 (a) and (b); 60.333(a) and (b); 60.334 (a), (b), and (c)(1); 60.335 (a), (b), (c), and (e). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
44. Compliance with the permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements: SJVUAPCD Rule 4703, sections 5.0, 5.1.1, 6.2.1, 6.2.4, 6.3, 6.4.1, 6.4.3, 6.4.5, 6.4.6. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
45. Start-up shall be defined as the period of time during which a unit is brought from a shutdown status to its operating temperature and pressure, including the time required by the unit's emission control system to reach full operation. [District Rule 4703, 3.29] Federally Enforceable Through Title V Permit
46. Shutdown shall be defined as the period of time during which a unit is taken from an operational to a non-operational status by allowing it to cool down from its operating temperature to ambient temperature as the fuel supply to the unit is completely turned off. [District Rule 4703, 3.26] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1129-54-12

EXPIRATION DATE: 02/29/2016

SECTION: 34 TOWNSHIP: 30S RANGE: 22E

EQUIPMENT DESCRIPTION:

3.5 MW COMBINED CYCLE GAS TURBINE TOPPING CYCLE COGENERATION NORTH MIDWAY UNIT #8

PERMIT UNIT REQUIREMENTS

1. Units shall be fired exclusively on PUC-quality natural gas which has a sulfur content of less than or equal to 0.017% by weight. [40 CFR 60.333(a) & (b); 60.332(a); Kern County Rule 407] Federally Enforceable Through Title V Permit
2. Gas turbine shall be fired exclusively with PUC-quality natural gas or equivalent with total sulfur content of less than or equal to 1.0 gr S/100 scf of gas. [District NSR Rule] Federally Enforceable Through Title V Permit
3. Operator shall not discharge into the atmosphere combustion contaminants (PM) exceeding in concentration at the point of discharge, 0.1 gr/dscf. [District Rule 4201; Kern County Rule 404] Federally Enforceable Through Title V Permit
4. If the turbine is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the turbine shall be determined using ASTM method D 1072, D 3031, D 4084, D 3246 or Double GC for H₂S and Mercaptans. [40 CFR 60.335(d)] Federally Enforceable Through Title V Permit
5. HHV and LHV of the fuel shall be determined using ASTM D3588, ASTM 1826, or ASTM 1945. [40 CFR 60.335(b) and District Rule 4703, 6.4.5] Federally Enforceable Through Title V Permit
6. Nitrogen oxides (NO_x) concentrations shall be determined using EPA Method 7E or 20, and oxygen (O₂) concentrations shall be determined using EPA Method 3, 3A, or 20. [40 CFR 60.335(b) and District Rule 4703, 6.4] Federally Enforceable Through Title V Permit
7. The operator shall provide source test information annually regarding the exhaust gas NO_x concentration corrected to 15% O₂ (dry). [40 CFR 60.332(a), (b) and District Rule 4703, 5.1] Federally Enforceable Through Title V Permit
8. Carbon monoxide (CO) concentrations shall be determined using EPA Method 10 or 10B. [District Rule 4703, 6.4] Federally Enforceable Through Title V Permit
9. If the turbine is fired on PUC-regulated natural gas, then the operator shall maintain a log describing the source of natural gas and the quantity used. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
10. The operator of a stationary gas turbine system shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit
11. Operator shall maintain a stationary gas turbine operating log that includes, on a daily basis, the actual local start-up and stop time, length and reason for reduced load periods, total hours of operation, source(s) of and quantity of fuel used, fuel sulfur content and fuel nitrogen content. [40 CFR 60.332(a),(b); District Rules 2520, 9.3.2 and 4703, 6.2.4] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

12. Permittee shall install, operate and maintain in calibration a predictive emissions monitoring system which continuously measures and records the water-to-fuel ratio and which correlates the water-to-fuel ratio with the NOx concentration in the exhaust by using the method described in 40 CFR 60.335(c). [Rule 4703, 6.2.1 and 40 CFR 60.334] Federally Enforceable Through Title V Permit
13. Permittee shall submit to the APCO the information correlating the control system operating parameters to the associated measured NOx output. [District Rule 4703, 6.2.5] Federally Enforceable Through Title V Permit
14. Permittee shall install, operate and maintain in calibration a system which continuously measures and records elapsed time of turbine operation. [District Rule 4703, 6.2.1] Federally Enforceable Through Title V Permit
15. Permittee shall submit an excess emissions and monitoring systems performance report (excess emissions are defined in applicable subparts) and/or a summary report form to the APCO semiannually, except when more frequent reporting is specifically required by an applicable subpart. All reports shall be postmarked by the 30th day of each calendar half (or quarter, as appropriate). [40 CFR 60.7(c)] Federally Enforceable Through Title V Permit
16. Any one-hour period during which the average water-to-fuel ratio, as measured by the continuous monitoring system, falls below the water-to-fuel ratio determined to demonstrate NSPS NOx compliance shall be reported to the APCO. Each report shall include the average water-to-fuel ratio, average fuel consumption, ambient conditions, turbine gas load and nitrogen content of the fuel during the period of excess emissions. [40 CFR 60.334(c)] Federally Enforceable Through Title V Permit
17. All wells producing from strata steamed by this unit shall be connected to a District-approved emissions control system, have District-approved closed casing vents or be District-approved uncontrolled cyclic wells. [District Rule 4401, 5.0] Federally Enforceable Through Title V Permit
18. Cogeneration unit shall include 48.7 MMBtu/hr (nominal rating) Allison, model 501-KB-5, gas-fired turbine engine with pilotless fuel nozzles or conventional fuel nozzles, Ideal Synchronous electrical generator, Struthers-Wells unfired 22.5 MMBtu/hr steam generator and an inlet air evaporative cooler. [District NSR Rule] Federally Enforceable Through Title V Permit
19. Turbine lube oil tank shall vent only through CECO Model #STTOR-10 fiber bed filter system. [District NSR Rule] Federally Enforceable Through Title V Permit
20. Generator gearbox lube oil tank shall vent only through CECO Model #STTOR-10 fiber bed filter system. [District NSR Rule] Federally Enforceable Through Title V Permit
21. Permittee shall notify the District by fax or in writing prior to or within 4 hours of any turbine nozzle replacement, except for identical replacement. [District NSR Rule] Federally Enforceable Through Title V Permit
22. Gas turbine engine shall be equipped with continuously recording fuel gas flow rate monitor. [District NSR Rule] Federally Enforceable Through Title V Permit
23. Gas turbine engine shall be equipped with operational water injection system for NOx control. [District NSR Rule] Federally Enforceable Through Title V Permit
24. Gas turbine engine shall be equipped with continuously recording water injection rate monitor accurate to within 5%. [District NSR Rule] Federally Enforceable Through Title V Permit
25. Waste heat recovery steam generator exhaust shall be equipped with permanent provisions to allow collection of gas samples consistent with EPA methods. [District NSR Rule] Federally Enforceable Through Title V Permit
26. Gas turbine engine water injection rate shall be maintained at a water to fuel ratio no less than 0.48/1.0 by weight while operating with pilotless fuel nozzles and no less than 0.8/1.0 by weight while operating with conventional fuel nozzles. [District NSR Rule] Federally Enforceable Through Title V Permit
27. Evaporative cooler shall use only fresh and filtered water. [District NSR Rule] Federally Enforceable Through Title V Permit
28. Fiber bed filter system shall be maintained and operated in accordance with the manufacturer's plans and specifications. [District NSR Rule] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

29. Maximum emission rate of volatile organic compounds (VOC's) from turbine lube oil vent shall not exceed 0.02 lb/hr. [District NSR Rule] Federally Enforceable Through Title V Permit
30. Except during periods of startup/shutdown, emission rates (3 hr average) shall not exceed: PM10: 0.61 lb/hr; SOx (as SO2): 0.16 lb/hr; NOx: 42 ppmvd @ 15% O2; VOC: 1.65 lb/hr; and CO: 41 ppmvd @ 15% O2. [District Rules 2201 and 4703, 5.1] Federally Enforceable Through Title V Permit
31. Except during periods of startup/shutdown, NOx emission rate (3 hr average) shall not exceed 35 ppmvd NO2 @ 15% O2. [District Rule 4703, 5.2]
32. Emissions shall not exceed the following: PM10: 14.6 lb/day; SOx (as SO2): 3.3 lb/day; NOx (as NO2): 153.0 lb/day; VOC: 39.6 lb/day; and CO: 107.8 lb/day. [District NSR Rule] Federally Enforceable Through Title V Permit
33. NOx and SOx emission rates (1 hr average) shall not exceed NSPS standard of 150 ppmv-dry @ 15% O2, and 150 ppmv-dry @ 15% O2, respectively. [District Rule 2520, 9.3.2; 40 CFR 60.332(c); 40CFR 60.333(a)] Federally Enforceable Through Title V Permit
34. During days of gas turbine startup/shutdown, permittee shall maintain accurate daily records of natural gas consumption in gas turbine for normal operation and startup/shutdown periods. [District NSR Rule] Federally Enforceable Through Title V Permit
35. Compliance testing of lube oil vent and gearbox vent shall be required if monthly visible emissions checks from either vent exceeds 5% opacity or equivalent Ringelmann 1/4. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rules 2520, 9.3.2 and NSR] Federally Enforceable Through Title V Permit
36. Thermal stabilization period shall be defined as the start-up or shutdown time necessary to bring the heat recovery steam generator to proper temperature, not exceeding two hours. [District NSR Rule] Federally Enforceable Through Title V Permit
37. Startup and shutdown of gas turbine engine shall not exceed a time period of two hours and two hours, respectively, per occurrence. [40 CFR Subpart A 60.2, District Rule 4703, and District NSR Rule] Federally Enforceable Through Title V Permit
38. Permittee shall keep accurate records of fuel sulfur content, and such records shall be made available for District inspection for five years. [40 CFR 60.334(b)(2), District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
39. Annual compliance with GTE NOx and CO emission limits and fuel sulfur limit shall be demonstrated by District witnessed or authorized sample collection by independent laboratory. Test results shall be submitted within 60 days. [District NSR Rule and Rule 1081] Federally Enforceable Through Title V Permit
40. Operator shall be required to conform to the compliance testing procedures described in District Rule 1081. [District Rule 1081; Kern County Rule 108.1] Federally Enforceable Through Title V Permit
41. The following types of units are not affected units subject to the requirements of the Acid Rain Program: 1) A simple combustion turbine that commenced operation before November 15, 1990, 2) Any unit that, during 1985, did not serve a generator that produced electricity for sale and that did not, as of November 15, 1990, and does not currently, serve a generator that produces electricity for sale, 3) A cogeneration facility which for a unit that commenced construction prior to November 15, 1990, was constructed for the purpose of supplying equal to or less than one-third its potential electrical output capacity or equal to or less than 219,000 Mwe-hrs actual electric output on an annual basis to any utility power distribution system for sale. Therefore, the requirements of 40 CFR 72.6 do not apply to this source. A permit shield is granted from this requirement. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
42. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following applicable requirements: SJVUAPCD Rule 1081, 4201, 3.1; Rules 406 (Fresno), 407 (Kings, San Joaquin, Stanislaus, Tulare, Merced, and Kern), and 404(Madera); 40 CFR 60.332(c), (d); 60.334 (b), and (c)(2); 60.335(d). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

43. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: SJVUAPCD Rule 4703, 6.2.2; Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern and Stanislaus), and 110 (Madera); Rules 402 (Madera) and 404 (Fresno, Kern, Kings, San Joaquin, Merced, Stanislaus, Tulare); 40 CFR 60.332 (a) and (b); 60.333(a) and (b); 60.334 (a), (b), and (c)(1); 60.335 (a), (b), (c), and (e). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
44. Compliance with the permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements: SJVUAPCD Rule 4703, sections 5.0, 5.1.1, 6.2.1, 6.2.4, 6.3, 6.4.1, 6.4.3, 6.4.5, 6.4.6. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
45. Start-up shall be defined as the period of time during which a unit is brought from a shutdown status to its operating temperature and pressure, including the time required by the unit's emission control system to reach full operation. [District Rule 4703, 3.29] Federally Enforceable Through Title V Permit
46. Shutdown shall be defined as the period of time during which a unit is taken from an operational to a non-operational status by allowing it to cool down from its operating temperature to ambient temperature as the fuel supply to the unit is completely turned off. [District Rule 4703, 3.26] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

San Joaquin Valley Air Pollution Control District

PERMIT UNIT: S-1129-55-11

EXPIRATION DATE: 02/29/2016

SECTION: 34 TOWNSHIP: 30S RANGE: 22E

EQUIPMENT DESCRIPTION:

NON-COMPLIANT DORMANT 3.5 MW COMBINED CYCLE GAS TURBINE TOPPING CYCLE COGENERATION NORTH MIDWAY UNIT #9

PERMIT UNIT REQUIREMENTS

1. No modification to this unit shall be performed without an Authority to Construct for such modification(s), except for changes specified in conditions below. [District Rule 2010]
2. The fuel supply line shall be physically disconnected from this unit. [District Rule 4703]
3. This equipment shall not be operated for any reason until an Authority to Construct permit is issued approving all necessary retrofits required to comply with the applicable requirements of District Rule 4703 and all other applicable District regulations. [District Rule 4703]
4. Units shall be fired exclusively on PUC-quality natural gas which has a sulfur content of less than or equal to 0.017% by weight. [40 CFR 60.333(a) & (b); 60.332(a); Kern County Rule 407] Federally Enforceable Through Title V Permit
5. Gas turbine shall be fired exclusively with PUC-quality natural gas or equivalent with total sulfur content of less than or equal to 1.0 gr S/100 scf of gas. [District NSR Rule] Federally Enforceable Through Title V Permit
6. Operator shall not discharge into the atmosphere combustion contaminants (PM) exceeding in concentration at the point of discharge, 0.1 gr/dscf. [District Rule 4201; Kern County Rule 404] Federally Enforceable Through Title V Permit
7. If the turbine is not fired on PUC-regulated natural gas, then the sulfur content of the natural gas being fired in the turbine shall be determined using ASTM method D 1072, D 3031, D 4084, D 3246 or Double GC for H₂S and Mercaptans. [40 CFR 60.335(d)] Federally Enforceable Through Title V Permit
8. HHV and LHV of the fuel shall be determined using ASTM D3588, ASTM 1826, or ASTM 1945. [40 CFR 60.335(b) and District Rule 4703, 6.4.5] Federally Enforceable Through Title V Permit
9. Nitrogen oxides (NO_x) concentrations shall be determined using EPA Method 7E or 20, and oxygen (O₂) concentrations shall be determined using EPA Method 3, 3A, or 20. [40 CFR 60.335(b) and District Rule 4703, 6.4] Federally Enforceable Through Title V Permit
10. The operator shall provide source test information annually regarding the exhaust gas NO_x concentration corrected to 15% O₂ (dry). [40 CFR 60.332(a), (b) and District Rule 4703, 5.1] Federally Enforceable Through Title V Permit
11. Carbon monoxide (CO) concentrations shall be determined using EPA Method 10 or 10B. [District Rule 4703] Federally Enforceable Through Title V Permit
12. If the turbine is fired on PUC-regulated natural gas, then the operator shall maintain a log describing the source of natural gas and the quantity used. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
13. The operator of a stationary gas turbine system shall maintain all records of required monitoring data and support information for inspection at any time for a period of five years. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

14. Operator shall maintain a stationary gas turbine operating log that includes, on a daily basis, the actual local start-up and stop time, length and reason for reduced load periods, total hours of operation, source(s) of and quantity of fuel used, fuel sulfur content and fuel nitrogen content. [40 CFR 60.332(a),(b); District Rules 2520, 9.3.2 and 4703, 6.2.4] Federally Enforceable Through Title V Permit
15. Permittee shall install, operate and maintain in calibration a predictive emissions monitoring system which continuously measures and records the water-to-fuel ratio and which correlates the water-to-fuel ratio with the NOx concentration in the exhaust by using the method described in 40 CFR 60.335(c). [Rule 4703 and 40 CFR 60.334] Federally Enforceable Through Title V Permit
16. Permittee shall submit to the APCO the information correlating the control system operating parameters to the associated measured NOx output. [District Rule 4703, 6.2.5] Federally Enforceable Through Title V Permit
17. Permittee shall install, operate and maintain in calibration a system which continuously measures and records elapsed time of turbine operation. [District Rule 4703, 6.2.1] Federally Enforceable Through Title V Permit
18. Permittee shall submit an excess emissions and monitoring systems performance report (excess emissions are defined in applicable subparts) and/or a summary report form to the APCO semiannually, except when more frequent reporting is specifically required by an applicable subpart. All reports shall be postmarked by the 30th day of each calendar half (or quarter, as appropriate). [40 CFR 60.7(c)] Federally Enforceable Through Title V Permit
19. Any one-hour period during which the average water-to-fuel ratio, as measured by the continuous monitoring system, falls below the water-to-fuel ratio determined to demonstrate NSPS NOx compliance shall be reported to the APCO. Each report shall include the average water-to-fuel ratio, average fuel consumption, ambient conditions, turbine gas load and nitrogen content of the fuel during the period of excess emissions. [40 CFR 60.334(c)] Federally Enforceable Through Title V Permit
20. All wells producing from strata steamed by this unit shall be connected to a District-approved emissions control system, have District-approved closed casing vents or be District-approved uncontrolled cyclic wells. [District Rule 4401, 5.0] Federally Enforceable Through Title V Permit
21. Cogeneration unit shall include 48.7 MMBtu/hr (nominal rating) Allison, model 501-KB-5, gas-fired turbine engine with pilotless fuel nozzles or conventional fuel nozzles, Ideal Synchronous electrical generator, Struthers-Wells unfired 22.5 MMBtu/hr steam generator and an inlet air evaporative cooler. [District NSR Rule] Federally Enforceable Through Title V Permit
22. Turbine lube oil tank shall vent only through CECO Model #STTOR-10 fiber bed filter system. [District NSR Rule] Federally Enforceable Through Title V Permit
23. Generator gearbox lube oil tank shall vent only through CECO Model #STTOR-10 fiber bed filter system. [District NSR Rule] Federally Enforceable Through Title V Permit
24. Permittee shall notify the District by fax or in writing prior to or within 4 hours of any turbine nozzle replacement, except for identical replacement. [District NSR Rule] Federally Enforceable Through Title V Permit
25. Gas turbine engine shall be equipped with continuously recording fuel gas flow rate monitor. [District NSR Rule] Federally Enforceable Through Title V Permit
26. Gas turbine engine shall be equipped with operational water injection system for NOx control. [District NSR Rule] Federally Enforceable Through Title V Permit
27. Gas turbine engine shall be equipped with continuously recording water injection rate monitor accurate to within 5%. [District NSR Rule] Federally Enforceable Through Title V Permit
28. Waste heat recovery steam generator exhaust shall be equipped with permanent provisions to allow collection of gas samples consistent with EPA methods. [District NSR Rule] Federally Enforceable Through Title V Permit
29. Gas turbine engine water injection rate shall be maintained at a water to fuel ratio no less than 0.48/1.0 by weight while operating with pilotless fuel nozzles and no less than 0.8/1.0 by weight while operating with conventional fuel nozzles. [District NSR Rule] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

30. Evaporative cooler shall use only fresh and filtered water. [District NSR Rule] Federally Enforceable Through Title V Permit
31. Fiber bed filter system shall be maintained and operated in accordance with the manufacturer's plans and specifications. [District NSR Rule] Federally Enforceable Through Title V Permit
32. Maximum emission rate of volatile organic compounds (VOC's) from turbine lube oil vent shall not exceed 0.02 lb/hr. [District NSR Rule] Federally Enforceable Through Title V Permit
33. Except during periods of startup/shutdown, emission rates (3 hr average) shall not exceed: PM10: 0.61 lb/hr; SO_x (as SO₂): 0.16 lb/hr; NO_x: 42 ppmvd @ 15% O₂; VOC: 1.65 lb/hr; and CO: 41 ppmvd @ 15% O₂. [District Rules 2201 and 4703] Federally Enforceable Through Title V Permit
34. Except during periods of startup/shutdown, NO_x emission rate (3 hr average) shall not exceed 35 ppmvd NO₂ @ 15% O₂. [District Rule 4703]
35. Emissions shall not exceed the following: PM10: 14.6 lb/day; SO_x (as SO₂): 3.3 lb/day; NO_x (as NO₂): 153.0 lb/day; VOC: 39.6 lb/day; and CO: 107.8 lb/day. [District NSR Rule] Federally Enforceable Through Title V Permit
36. NO_x and SO_x emission rates (1 hr average) shall not exceed NSPS standard of 150 ppmv-dry @ 15% O₂, and 150 ppmv-dry @ 15% O₂, respectively. [District Rule 2520, 9.3.2; 40 CFR 60.332(c); 40CFR 60.333(a)] Federally Enforceable Through Title V Permit
37. During days of gas turbine startup/shutdown, permittee shall maintain accurate daily records of natural gas consumption in gas turbine for normal operation and startup/shutdown periods. [District NSR Rule] Federally Enforceable Through Title V Permit
38. Compliance testing of lube oil vent and gearbox vent shall be required if monthly visible emissions checks from either vent exceeds 5% opacity or equivalent Ringelmann 1/4. If visible emissions are observed, corrective action shall be taken to eliminate visible emissions. If visible emissions cannot be corrected within 24 hours, a visible emissions test using EPA Method 9 shall be conducted. [District Rules 2520, 9.3.2 and NSR] Federally Enforceable Through Title V Permit
39. Thermal stabilization period shall be defined as the start-up or shutdown time necessary to bring the heat recovery steam generator to proper temperature, not exceeding two hours. [District NSR Rule] Federally Enforceable Through Title V Permit
40. Startup and shutdown of gas turbine engine, as defined in 40 CFR Subpart A 60.2, shall not exceed a time period of two hours and two hours, respectively, per occurrence. [40 CFR Subpart A 60.2, District NSR Rule] Federally Enforceable Through Title V Permit
41. Permittee shall keep accurate records of fuel sulfur content, and such records shall be made available for District inspection for five years. [40 CFR 60.334(b)(2), District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
42. Annual compliance with GTE NO_x and CO emission limits (pursuant to Rule 4703 (10/16/97)) and fuel sulfur limit shall be demonstrated by District witnessed or authorized sample collection by independent laboratory. Test results shall be submitted within 60 days. [District NSR Rule and Rule 4703] Federally Enforceable Through Title V Permit
43. Operator shall be required to conform to the compliance testing procedures described in District Rule 1081. [District Rule 1081; Kern County Rule 108.1] Federally Enforceable Through Title V Permit
44. The following types of units are not affected units subject to the requirements of the Acid Rain Program: 1) A simple combustion turbine that commenced operation before November 15, 1990, 2) Any unit that, during 1985, did not serve a generator that produced electricity for sale and that did not, as of November 15, 1990, and does not currently, serve a generator that produces electricity for sale, 3) A cogeneration facility which for a unit that commenced construction prior to November 15, 1990, was constructed for the purpose of supplying equal to or less than one-third its potential electrical output capacity or equal to or less than 219,000 Mwe-hrs actual electric output on an annual basis to any utility power distribution system for sale. Therefore, the requirements of 40 CFR 72.6 do not apply to this source. A permit shield is granted from this requirement. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

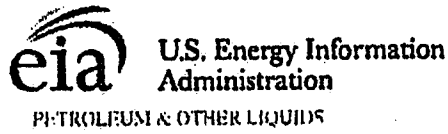
These terms and conditions are part of the Facility-wide Permit to Operate.

45. Compliance with permit conditions in the Title V permit shall be deemed in compliance with the following applicable requirements: SJVUAPCD Rule 1081, 4201, 3.1; Rules 406 (Fresno), 407 (Kings, San Joaquin, Stanislaus, Tulare, Merced, and Kern), and 404(Madera); 40 CFR 60.332(c), (d); 60.334 (b), and (c)(2); 60.335(d). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
46. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following subsumed requirements: SJVUAPCD Rule 4703, 6.2.2; Rules 108 (Kings), 108.1 (Fresno, Merced, San Joaquin, Tulare, Kern and Stanislaus), and 110 (Madera); Rules 402 (Madera) and 404 (Fresno, Kern, Kings, San Joaquin, Merced, Stanislaus, Tulare); 40 CFR 60.332 (a) and (b); 60.333(a) and (b); 60.334 (a), (b), and (c)(1); 60.335 (a), (b), (c), and (e). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit
47. Compliance with the permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements: SJVUAPCD Rule 4703, sections 5.0, 5.1.1, 6.2.1, 6.2.4, 6.3, 6.4.1, 6.4.3, 6.4.5, 6.4.6. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

Appendix C

Graph of California Field Production of Crude Oil



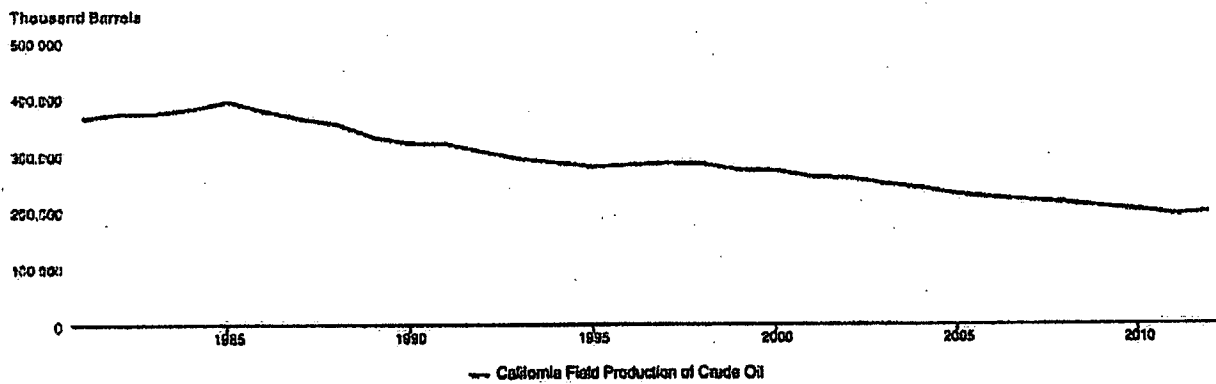
OVERVIEW **DATA** ANALYSIS & PROJECTIONS

GLOSSARY · FAQs

View History: Monthly Annual

Download Data (XLS File)

California Field Production of Crude Oil



Source: U.S. Energy Information Administration

Decade	Year-0	Year-1	Year-2	Year-3	Year-4	Year-5	Year-6	Year-7	Year-8	Year-9
1980's		365,170	371,176	374,161	381,621	394,182	378,059	364,608	354,730	331,174
1989's	320,868	319,497	305,488	293,890	286,060	278,977	282,409	285,172	283,627	273,017
2000's	271,132	260,663	257,898	248,170	240,306	229,350	223,449	218,525	214,544	207,094
2010's	201,385	193,691	196,324							

- = No Data Reported, -- = Not Applicable, NA = Not Available, W = Withheld to avoid disclosure of individual company data.

Release Date: 3/15/2013
Next Release Date: 8/27/2013

Referring Pages:
■ Crude Oil Production

Appendix D

North Midway GTE Fuel Usage during Baseline Period

MDW34Z COGEN FUEL USAGE ALL UNITS

date of report: 7/18/2012 11:50 AM

Daily Summary

Day	Unit #	System Fuel (MMBtu)	System Fuel (MCF)	Quarterly Total (MMBtu)
10/1/2008	7	0	0	
10/2/2008	7	547.7	497	
10/3/2008	7	1,110.80	1,008.00	
10/4/2008	7	1,113.60	1,010.60	
10/5/2008	7	1,111.30	1,008.50	
10/6/2008	7	1,119.10	1,015.50	
10/7/2008	7	1,119.10	1,015.50	
10/8/2008	7	1,117.10	1,013.70	
10/9/2008	7	1,124.20	1,020.10	
10/10/2008	7	1,116.50	1,013.10	
10/11/2008	7	1,126.90	1,022.60	
10/12/2008	7	1,126.40	1,022.10	
10/13/2008	7	1,095.40	994	
10/14/2008	7	1,104.80	1,002.50	
10/15/2008	7	1,101.00	999.1	
10/16/2008	7	1,101.00	999.1	
10/17/2008	7	1,101.00	999.1	
10/18/2008	7	1,099.60	997.9	
10/19/2008	7	1,101.90	999.9	
10/20/2008	7	1,102.20	1,000.20	
10/21/2008	7	1,103.80	1,001.60	
10/22/2008	7	1,100.90	999	
10/23/2008	7	1,039.60	943.4	
10/24/2008	7	980	889.3	
10/25/2008	7	1,120.10	1,016.50	
10/26/2008	7	1,126.90	1,022.60	
10/27/2008	7	1,130.80	1,026.30	
10/28/2008	7	1,128.70	1,024.20	
10/29/2008	7	1,126.40	1,022.10	
10/30/2008	7	1,126.00	1,021.80	
10/31/2008	7	1,127.60	1,023.20	
11/1/2008	7	1,128.20	1,023.80	
11/2/2008	7	1,155.00	1,048.10	
11/3/2008	7	1,053.00	955.6	
11/4/2008	7	1,099.00	997.2	
11/5/2008	7	1,109.00	1,006.40	
11/6/2008	7	1,116.50	1,013.20	
11/7/2008	7	1,116.90	1,013.50	
11/8/2008	7	1,121.10	1,017.30	
11/9/2008	7	1,117.80	1,014.40	
11/10/2008	7	1,121.80	1,018.00	
11/11/2008	7	1,120.80	1,017.10	
11/12/2008	7	1,123.30	1,019.30	
11/13/2008	7	1,120.90	1,017.20	
11/14/2008	7	1,119.90	1,016.30	
11/15/2008	7	1,122.20	1,018.30	
11/16/2008	7	1,122.40	1,018.50	
11/17/2008	7	1,130.60	1,025.90	
11/18/2008	7	1,130.90	1,026.20	
11/19/2008	7	1,131.40	1,026.70	
11/20/2008	7	1,131.30	1,026.60	
11/21/2008	7	1,128.30	1,023.80	
11/22/2008	7	1,128.10	1,023.70	
11/23/2008	7	1,129.70	1,025.10	
11/24/2008	7	1,131.50	1,026.80	
11/25/2008	7	1,132.00	1,027.20	
11/26/2008	7	1,132.60	1,027.70	
11/27/2008	7	1,127.00	1,022.60	
11/28/2008	7	1,128.70	1,024.20	
11/29/2008	7	1,128.30	1,023.90	
11/30/2008	7	1,133.40	1,028.50	
12/1/2008	7	1,123.40	1,019.40	
12/2/2008	7	1,122.40	1,018.50	
12/3/2008	7	1,128.20	1,023.70	
12/4/2008	7	1,128.70	1,024.20	
12/5/2008	7	1,131.00	1,026.30	
12/6/2008	7	1,133.00	1,028.10	

MDW34Z COGEN FUEL USAGE ALL UNITS

date of report: 7/18/2012 11:50 AM

Daily Summary

Day	Unit #	System Fuel (MMBtu)	System Fuel (MCF)	Quarterly Total (MMBtu)
12/7/2008	7	1,133.00	1,028.10	
12/8/2008	7	1,131.90	1,027.10	
12/9/2008	7	1,132.10	1,027.40	
12/10/2008	7	1,134.10	1,029.10	
12/11/2008	7	1,133.10	1,028.20	
12/12/2008	7	1,130.30	1,025.70	
12/13/2008	7	1,130.60	1,026.00	
12/14/2008	7	1,131.20	1,026.50	
12/15/2008	7	1,133.70	1,028.70	
12/16/2008	7	1,132.70	1,027.80	
12/17/2008	7	1,127.30	1,023.00	
12/18/2008	7	1,128.70	1,024.30	
12/19/2008	7	1,131.80	1,027.10	
12/20/2008	7	1,128.80	1,024.40	
12/21/2008	7	1,131.40	1,026.70	
12/22/2008	7	1,129.30	1,024.80	
12/23/2008	7	1,132.20	1,027.40	
12/24/2008	7	1,131.90	1,027.10	
12/25/2008	7	1,128.90	1,024.40	
12/26/2008	7	1,130.40	1,025.80	
12/27/2008	7	1,132.30	1,027.40	
12/28/2008	7	1,133.40	1,028.50	
12/29/2008	7	1,133.40	1,028.50	
12/30/2008	7	1,118.70	1,015.10	
12/31/2008	7	1,114.70	1,011.50	101364.7
1/1/2009	7	1,115.60	1,012.40	
1/2/2009	7	1,090.60	989.7	
1/3/2009	7	1,131.70	1,026.90	
1/4/2009	7	1,129.20	1,024.70	
1/5/2009	7	1,094.70	993.4	
1/6/2009	7	1,082.60	982.4	
1/7/2009	7	1,083.80	983.5	
1/8/2009	7	1,075.70	976.1	
1/9/2009	7	525.3	476.7	
1/10/2009	7	0	0	
1/11/2009	7	0	0	
1/12/2009	7	0	0	
1/13/2009	7	0	0	
1/14/2009	7	0	0	
1/15/2009	7	0	0	
1/16/2009	7	33.8	30.7	
1/17/2009	7	0	0	
1/18/2009	7	0	0	
1/19/2009	7	0	0	
1/20/2009	7	0	0	
1/21/2009	7	518.4	470.4	
1/22/2009	7	1,053.70	956.2	
1/23/2009	7	1,116.50	1,013.10	
1/24/2009	7	1,117.70	1,014.30	
1/25/2009	7	740.9	672.4	
1/26/2009	7	0	0	
1/27/2009	7	0	0	
1/28/2009	7	900.9	817.5	
1/29/2009	7	1,122.70	1,018.80	
1/30/2009	7	1,128.70	1,024.20	
1/31/2009	7	1,135.30	1,030.20	
2/1/2009	7	1,140.10	1,034.60	
2/2/2009	7	1,136.60	1,031.30	
2/3/2009	7	1,138.80	1,033.30	
2/4/2009	7	1,141.00	1,035.40	
2/5/2009	7	1,104.30	1,002.10	
2/6/2009	7	1,081.70	981.6	
2/7/2009	7	1,079.10	979.2	
2/8/2009	7	1,080.80	980.8	
2/9/2009	7	1,083.40	983.1	
2/10/2009	7	1,082.40	982.2	
2/11/2009	7	1,085.70	985.2	

MDW34Z COGEN FUEL USAGE ALL UNITS

date of report: 7/18/2012 11:50 AM

Daily Summary

Day	Unit #	System Fuel (MMBtu)	System Fuel (MCF)	Quarterly Total (MMBtu)
2/12/2009	7	1,083.80	983.5	
2/13/2009	7	1,085.30	984.8	
2/14/2009	7	1,093.20	992	
2/15/2009	7	1,112.40	1,009.40	
2/16/2009	7	1,115.70	1,012.40	
2/17/2009	7	1,119.50	1,015.80	
2/18/2009	7	1,123.20	1,019.30	
2/19/2009	7	1,119.90	1,016.30	
2/20/2009	7	1,108.80	1,004.40	
2/21/2009	7	1,103.50	1,001.30	
2/22/2009	7	1,111.60	1,008.80	
2/23/2009	7	1,112.00	992.1	
2/24/2009	7	1,110.00	970.5	
2/25/2009	7	1,110.60	971.4	
2/26/2009	7	1,112.20	972.6	
2/27/2009	7	1,113.00	972.7	
2/28/2009	7	1,114.40	975.1	
3/1/2009	7	1,117.80	976.2	
3/2/2009	7	1,080.00	977.2	
3/3/2009	7	1,079.90	977.2	
3/4/2009	7	1,078.40	975.8	
3/5/2009	7	1,077.60	975	
3/6/2009	7	1,077.10	974.6	
3/7/2009	7	1,074.80	972.6	
3/8/2009	7	1,075.60	973.3	
3/9/2009	7	1,035.00	936.5	
3/10/2009	7	1,081.40	978.5	
3/11/2009	7	1,082.10	979.1	
3/12/2009	7	1,078.80	976.2	
3/13/2009	7	1,080.70	977.9	
3/14/2009	7	1,078.60	975.9	
3/15/2009	7	1,077.00	974.5	
3/16/2009	7	1,078.60	975.9	
3/17/2009	7	1,080.20	977.3	
3/18/2009	7	1,079.70	976.9	
3/19/2009	7	1,076.80	974.3	
3/20/2009	7	1,074.50	972.3	
3/21/2009	7	1,078.00	973.6	
3/22/2009	7	1,078.20	975.6	
3/23/2009	7	1,079.40	976.6	
3/24/2009	7	1,059.50	958.7	
3/25/2009	7	1,058.40	957.7	
3/26/2009	7	1,061.00	960	
3/27/2009	7	1,060.20	959.4	
3/28/2009	7	1,059.20	958.4	
3/29/2009	7	1,058.10	957.4	
3/30/2009	7	1,057.50	956.8	
3/31/2009	7	1,058.80	958.1	82,469.60
4/1/2009	7	1,058.40	957.7	
4/2/2009	7	1,054.50	954.2	
4/3/2009	7	1,051.30	951.2	
4/4/2009	7	1,049.70	949.9	
4/5/2009	7	1,052.10	952	
4/6/2009	7	1,056.10	955.6	
4/7/2009	7	1,068.80	967.1	
4/8/2009	7	213.6	193.3	
4/9/2009	7	410.5	371.4	
4/10/2009	7	1,080.40	977.6	
4/11/2009	7	1,073.20	971	
4/12/2009	7	1,078.60	976	
4/13/2009	7	525.3	475.3	
4/14/2009	7	0	0	
4/15/2009	7	0	0	
4/16/2009	7	0	0	
4/17/2009	7	0	0	
4/18/2009	7	0	0	
4/19/2009	7	0	0	

MDW34Z COGEN FUEL USAGE

ALL UNITS

date of report: 7/18/2012 11:50 AM

Daily Summary

Day	Unit #	System Fuel (MMBtu)	System Fuel (MCF)	Quarterly Total (MMBtu)
4/20/2009	7	0	0	
4/21/2009	7	0	0	
4/22/2009	7	0	0	
4/23/2009	7	0	0	
4/24/2009	7	0	0	
4/25/2009	7	0	0	
4/28/2009	7	0	0	
4/27/2009	7	0	0	
4/28/2009	7	0	0	
4/29/2009	7	0	0	
4/30/2009	7	0	0	
5/1/2009	7	0	0	
5/2/2009	7	0	0	
5/3/2009	7	0	0	
5/4/2009	7	0	0	
5/5/2009	7	0	0	
5/6/2009	7	648.6	586.9	
5/7/2009	7	1,070.70	968.8	
5/8/2009	7	1,065.30	963.9	
5/9/2009	7	1,066.60	965.3	
5/10/2009	7	1,066.20	964.7	
5/11/2009	7	1,068.50	966.8	
5/12/2009	7	1,066.00	964.6	
5/13/2009	7	1,069.10	967.4	
5/14/2009	7	615.3	556.6	
5/15/2009	7	1,046.50	948.7	
5/16/2009	7	1,044.60	945.2	
5/17/2009	7	1,045.30	945.8	
5/18/2009	7	1,048.70	948.9	
5/19/2009	7	1,032.30	934	
5/20/2009	7	990.9	896.6	
5/21/2009	7	982.2	868.7	
5/22/2009	7	983.1	869.5	
5/23/2009	7	985.4	891.6	
5/24/2009	7	991.8	897.4	
5/25/2009	7	992.6	896.2	
5/26/2009	7	992.9	898.4	
5/27/2009	7	991.7	897.4	
5/28/2009	7	730.8	661.3	
5/29/2009	7	0	0	
5/30/2009	7	0	0	
5/31/2009	7	0	0	
6/1/2009	7	0	0	
6/2/2009	7	0	0	
6/3/2009	7	0	0	
6/4/2009	7	0	0	
6/5/2009	7	0	0	
6/6/2009	7	0	0	
6/7/2009	7	0	0	
6/8/2009	7	0	0	
6/9/2009	7	0	0	
6/10/2009	7	0	0	
6/11/2009	7	0	0	
6/12/2009	7	0	0	
6/13/2009	7	0	0	
6/14/2009	7	0	0	
6/15/2009	7	0	0	
6/16/2009	7	0	0	
6/17/2009	7	0	0	
6/18/2009	7	0	0	
6/19/2009	7	0	0	
6/20/2009	7	0	0	
6/21/2009	7	0	0	
6/22/2009	7	0	0	
6/23/2009	7	380.9	344.7	
6/24/2009	7	1,032.70	934.4	
6/25/2009	7	1,036.60	936.1	

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Daily Summary

Day	Unit #	System Fuel (MMBtu)	System Fuel (MCF)	Quarterly Total (MMBtu)
4/20/2009	7	0	0	
4/21/2009	7	0	0	
4/22/2009	7	0	0	
4/23/2009	7	0	0	
4/24/2009	7	0	0	
4/25/2009	7	0	0	
4/26/2009	7	0	0	
4/27/2009	7	0	0	
4/28/2009	7	0	0	
4/29/2009	7	0	0	
4/30/2009	7	0	0	
5/1/2009	7	0	0	
5/2/2009	7	0	0	
5/3/2009	7	0	0	
5/4/2009	7	0	0	
5/5/2009	7	0	0	
5/6/2009	7	648.6	586.9	
5/7/2009	7	1,070.70	968.8	
5/8/2009	7	1,065.30	963.9	
5/9/2009	7	1,066.80	965.3	
5/10/2009	7	1,066.20	964.7	
5/11/2009	7	1,068.50	966.8	
5/12/2009	7	1,066.00	964.6	
5/13/2009	7	1,069.10	967.4	
5/14/2009	7	615.3	556.8	
5/15/2009	7	1,048.50	948.7	
5/16/2009	7	1,044.60	945.2	
5/17/2009	7	1,045.30	945.8	
5/18/2009	7	1,048.70	948.9	
5/19/2009	7	1,032.30	934	
5/20/2009	7	990.9	896.6	
5/21/2009	7	982.2	888.7	
5/22/2009	7	983.1	889.5	
5/23/2009	7	985.4	891.6	
5/24/2009	7	991.8	897.4	
5/25/2009	7	992.6	898.2	
5/26/2009	7	992.9	898.4	
5/27/2009	7	991.7	897.4	
5/28/2009	7	730.8	661.3	
5/29/2009	7	0	0	
5/30/2009	7	0	0	
5/31/2009	7	0	0	
6/1/2009	7	0	0	
6/2/2009	7	0	0	
6/3/2009	7	0	0	
6/4/2009	7	0	0	
6/5/2009	7	0	0	
6/6/2009	7	0	0	
6/7/2009	7	0	0	
6/8/2009	7	0	0	
6/9/2009	7	0	0	
6/10/2009	7	0	0	
6/11/2009	7	0	0	
6/12/2009	7	0	0	
6/13/2009	7	0	0	
6/14/2009	7	0	0	
6/15/2009	7	0	0	
6/16/2009	7	0	0	
6/17/2009	7	0	0	
6/18/2009	7	0	0	
6/19/2009	7	0	0	
6/20/2009	7	0	0	
6/21/2009	7	0	0	
6/22/2009	7	0	0	
6/23/2009	7	380.9	344.7	
6/24/2009	7	1,032.70	934.4	
6/25/2009	7	1,036.80	938.1	

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Daily Summary

Day	Unit #	System Fuel (MMBtu)	System Fuel (MCF)	Quarterly Total (MMBtu)
6/26/2009	7	1,028.80	930.9	
6/27/2009	7	1,031.10	933	
6/28/2009	7	1,032.30	934.1	
6/29/2009	7	1,040.40	941.4	
6/30/2009	7	1,040.30	941.3	41,993.10
7/1/2009	7	676.4	612.1	
7/2/2009	7	394.4	356.9	
7/3/2009	7	1,060.40	959.5	
7/4/2009	7	1,063.30	962.1	
7/5/2009	7	1,062.00	961	
7/6/2009	7	1,057.40	956.8	
7/7/2009	7	1,061.90	960.8	
7/8/2009	7	1,051.90	951.8	
7/9/2009	7	1,053.40	953.2	
7/10/2009	7	1,052.70	952.5	
7/11/2009	7	1,053.70	953.4	
7/12/2009	7	1,098.20	993.7	
7/13/2009	7	915	827.9	
7/14/2009	7	1,047.20	947.5	
7/15/2009	7	1,046.50	946.9	
7/16/2009	7	1,049.30	949.4	
7/17/2009	7	1,047.20	947.5	
7/18/2009	7	1,037.00	938.3	
7/19/2009	7	1,023.00	925.7	
7/20/2009	7	1,026.90	929.2	
7/21/2009	7	1,022.30	925	
7/22/2009	7	1,020.50	923.4	
7/23/2009	7	1,023.00	925.7	
7/24/2009	7	1,017.20	920.4	
7/25/2009	7	1,019.90	922.9	
7/26/2009	7	1,019.30	922.3	
7/27/2009	7	1,021.10	924	
7/28/2009	7	1,023.10	925.7	
7/29/2009	7	1,025.50	927.9	
7/30/2009	7	926.3	838.1	
7/31/2009	7	1,025.00	927.5	
8/1/2009	7	1,044.20	944.8	
8/2/2009	7	1,050.40	950.4	
8/3/2009	7	1,072.30	970.2	
8/4/2009	7	1,063.90	960.7	
8/5/2009	7	1,078.30	975.7	
8/6/2009	7	1,076.80	974.3	
8/7/2009	7	1,077.60	975.1	
8/8/2009	7	1,080.20	977.4	
8/9/2009	7	1,084.60	981.4	
8/10/2009	7	1,014.70	918.2	
8/11/2009	7	1,045.20	946.8	
8/12/2009	7	1,050.70	950.7	
8/13/2009	7	1,049.70	949.8	
8/14/2009	7	1,046.90	947.3	
8/15/2009	7	1,044.80	945.4	
8/16/2009	7	1,043.60	944.3	
8/17/2009	7	1,045.60	946.1	
8/18/2009	7	1,045.90	946.4	
8/19/2009	7	1,050.40	950.5	
8/20/2009	7	1,047.60	948	
8/21/2009	7	1,047.80	948.1	
8/22/2009	7	1,040.50	941.5	
8/23/2009	7	1,037.90	939.2	
8/24/2009	7	1,036.20	937.6	
8/25/2009	7	1,039.80	940.9	
8/26/2009	7	1,039.40	940.5	
8/27/2009	7	1,044.80	945.4	
8/28/2009	7	1,044.00	944.7	
8/29/2009	7	1,044.20	944.8	
8/30/2009	7	1,046.90	947.3	
8/31/2009	7	1,050.10	950.1	

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Day	Unit #	System Fuel (MMBtu)	System Fuel (MCF)	Quarterly Total (MMBtu)
9/1/2009	7	526.6	476.5	
9/2/2009	7	0	0	
9/3/2009	7	470.8	426	
9/4/2009	7	1,026.30	928.6	
9/5/2009	7	1,022.90	925.5	
9/6/2009	7	1,023.80	926.4	
9/7/2009	7	1,023.30	925.9	
9/8/2009	7	1,057.80	957.2	
9/9/2009	7	1,084.90	981.7	
9/10/2009	7	1,086.30	982.9	
9/11/2009	7	1,086.70	983.3	
9/12/2009	7	1,090.60	986.8	
9/13/2009	7	1,082.70	979.7	
9/14/2009	7	1,076.80	973.5	
9/15/2009	7	1,070.00	968.2	
9/16/2009	7	1,067.10	965.5	
9/17/2009	7	1,069.30	967.6	
9/18/2009	7	1,075.60	973.3	
9/19/2009	7	1,074.10	971.9	
9/20/2009	7	1,073.20	971.1	
9/21/2009	7	1,068.70	967	
9/22/2009	7	1,070.00	968.2	
9/23/2009	7	1,067.90	966.2	
9/24/2009	7	1,066.60	965.1	
9/25/2009	7	1,068.60	967	
9/26/2009	7	1,070.80	968.9	
9/27/2009	7	1,065.40	964	
9/28/2009	7	1,066.40	965	
9/29/2009	7	1,065.60	964.4	
9/30/2009	7	1,060.20	959.3	93,384.20
10/1/2009	7	1,111.70	1,006.00	
10/2/2009	7	995.2	900.5	
10/3/2009	7	818.4	740.5	
10/4/2009	7	860	778.2	
10/5/2009	7	958.5	867.3	
10/6/2009	7	1,062.90	961.8	
10/7/2009	7	1,071.10	969.2	
10/8/2009	7	1,072.60	970.5	
10/9/2009	7	1,072.30	970.2	
10/10/2009	7	1,069.90	968.1	
10/11/2009	7	1,069.50	967.7	
10/12/2009	7	1,079.70	976.9	
10/13/2009	7	872	789	
10/14/2009	7	1,067.20	965.6	
10/15/2009	7	169.2	153.1	
10/16/2009	7	0	0	
10/17/2009	7	0	0	
10/18/2009	7	0	0	
10/19/2009	7	624.8	565.3	
10/20/2009	7	1,086.80	983.4	
10/21/2009	7	1,088.80	983.3	
10/22/2009	7	1,096.90	985.4	
10/23/2009	7	1,093.30	982.2	
10/24/2009	7	1,104.40	992.2	
10/25/2009	7	1,100.70	988.8	
10/26/2009	7	1,100.50	988.6	
10/27/2009	7	1,093.90	982.7	
10/28/2009	7	1,068.00	960.4	
10/29/2009	7	1,083.10	973	
10/30/2009	7	1,094.00	982.8	
10/31/2009	7	1,093.70	982.6	
11/1/2009	7	1,058.00	950.4	
11/2/2009	7	1,014.00	910.9	
11/3/2009	7	1,000.60	898.9	
11/4/2009	7	1,065.60	957.2	
11/5/2009	7	1,067.00	958.6	
11/6/2009	7	782.1	702.6	

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Day	Unit #	System Fuel (MMBtu)	System Fuel (MCF)	Quarterly Total (MMBtu)
11/7/2009	7	0	0	
11/8/2009	7	0	0	
11/9/2009	7	0	0	
11/10/2009	7	0	0	
11/11/2009	7	0	0	
11/12/2009	7	0	0	
11/13/2009	7	0	0	
11/14/2009	7	0	0	
11/15/2009	7	0	0	
11/16/2009	7	0	0	
11/17/2009	7	0	0	
11/18/2009	7	0	0	
11/19/2009	7	0	0	
11/20/2009	7	0	0	
11/21/2009	7	0	0	
11/22/2009	7	0	0	
11/23/2009	7	0	0	
11/24/2009	7	0	0	
11/25/2009	7	0	0	
11/26/2009	7	0	0	
11/27/2009	7	0	0	
11/28/2009	7	0	0	
11/29/2009	7	0	0	
11/30/2009	7	0	0	
12/1/2009	7	0	0	
12/2/2009	7	0	0	
12/3/2009	7	0	0	
12/4/2009	7	0	0	
12/5/2009	7	0	0	
12/6/2009	7	0	0	
12/7/2009	7	0	0	
12/8/2009	7	0	0	
12/9/2009	7	0	0	
12/10/2009	7	0	0	
12/11/2009	7	0	0	
12/12/2009	7	0	0	
12/13/2009	7	0	0	
12/14/2009	7	0	0	
12/15/2009	7	0	0	
12/16/2009	7	0	0	
12/17/2009	7	0	0	
12/18/2009	7	0	0	
12/19/2009	7	0	0	
12/20/2009	7	0	0	
12/21/2009	7	0	0	
12/22/2009	7	0	0	
12/23/2009	7	0	0	
12/24/2009	7	0	0	
12/25/2009	7	0	0	
12/26/2009	7	0	0	
12/27/2009	7	0	0	
12/28/2009	7	0	0	
12/29/2009	7	0	0	
12/30/2009	7	0	0	
12/31/2009	7	0	0	34,067.40
1/1/2010	7	0	0	
1/2/2010	7	0	0	
1/3/2010	7	0	0	
1/4/2010	7	0	0	
1/5/2010	7	0	0	
1/6/2010	7	0	0	
1/7/2010	7	0	0	
1/8/2010	7	0	0	
1/9/2010	7	0	0	
1/10/2010	7	0	0	
1/11/2010	7	0	0	
1/12/2010	7	0	0	

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Daily Summary

Day	Unit #	System Fuel (MMBtu)	System Fuel (MCF)	Quarterly Total (MMBtu)
1/13/2010	7	0	0	
1/14/2010	7	0	0	
1/15/2010	7	0	0	
1/16/2010	7	0	0	
1/17/2010	7	0	0	
1/18/2010	7	0	0	
1/19/2010	7	0	0	
1/20/2010	7	0	0	
1/21/2010	7	0	0	
1/22/2010	7	0	0	
1/23/2010	7	0	0	
1/24/2010	7	0	0	
1/25/2010	7	0	0	
1/26/2010	7	0	0	
1/27/2010	7	0	0	
1/28/2010	7	0	0	
1/29/2010	7	0	0	
1/30/2010	7	0	0	
1/31/2010	7	0	0	
2/1/2010	7	0	0	
2/2/2010	7	0	0	
2/3/2010	7	0	0	
2/4/2010	7	0	0	
2/5/2010	7	0	0	
2/6/2010	7	0	0	
2/7/2010	7	0	0	
2/8/2010	7	0	0	
2/9/2010	7	0	0	
2/10/2010	7	0	0	
2/11/2010	7	0	0	
2/12/2010	7	18.5	14.7	
2/13/2010	7	0	0	
2/14/2010	7	0	0	
2/15/2010	7	13.8	12.3	
2/16/2010	7	511.6	454.4	
2/17/2010	7	936.7	632	
2/18/2010	7	963.5	855.7	
2/19/2010	7	1,075.50	955.2	
2/20/2010	7	1,068.60	949.1	
2/21/2010	7	1,065.10	946	
2/22/2010	7	1,063.80	944.8	
2/23/2010	7	1,069.50	949.9	
2/24/2010	7	1,078.60	958	
2/25/2010	7	1,078.00	957.4	
2/26/2010	7	1,079.70	959	
2/27/2010	7	1,074.40	954.3	
2/28/2010	7	91.7	81.4	
3/1/2010	7			
3/2/2010	7	0	0	
3/3/2010	7	0	0	
3/4/2010	7	0	0	
3/5/2010	7	0	0	
3/6/2010	7	0	0	
3/7/2010	7	0	0	
3/8/2010	7	0	0	
3/9/2010	7	0	0	
3/10/2010	7	0	0	
3/11/2010	7	0	0	
3/12/2010	7	0	0	
3/13/2010	7	0	0	
3/14/2010	7	0	0	
3/15/2010	7	0	0	
3/16/2010	7	0.2	0.2	
3/17/2010	7	9.6	8.5	
3/18/2010	7	0	0	
3/19/2010	7	0	0	
3/20/2010	7	0	0	

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Daily Summary

Day	Unit #	System Fuel (MMBtu)	System Fuel (MCF)	Quarterly Total (MMBtu)
3/21/2010	7	0	0	
3/22/2010	7	632.7	582	
3/23/2010	7	1,072.40	952.5	
3/24/2010	7	1,079.80	959	
3/25/2010	7	1,077.80	957.1	
3/26/2010	7	1,078.80	958.4	
3/27/2010	7	1,069.10	949.6	
3/28/2010	7	1,071.70	951.9	
3/29/2010	7	1,074.20	954.1	
3/30/2010	7	1,071.50	951.7	
3/31/2010	7	1,070.50	950.8	22,493.10
4/1/2010	7	1,071.40	951.6	
4/2/2010	7	1,070.80	951.1	
4/3/2010	7	1,072.00	952.1	
4/4/2010	7	1,071.20	951.4	
4/5/2010	7	387.1	326.1	
4/6/2010	7	0	0	
4/7/2010	7	0	0	
4/8/2010	7	0	0	
4/9/2010	7	588	522.2	
4/10/2010	7	1,079.80	958.9	
4/11/2010	7	1,083.80	944.7	
4/12/2010	7	1,088.50	949.1	
4/13/2010	7	1,085.30	946.2	
4/14/2010	7	1,070.80	951	
4/15/2010	7	1,078.90	958.3	
4/16/2010	7	1,085.00	963.6	
4/17/2010	7	1,088.50	965	
4/18/2010	7	1,082.90	961.8	
4/19/2010	7	1,084.70	963.4	
4/20/2010	7	1,082.50	961.5	
4/21/2010	7	1,078.40	957.6	
4/22/2010	7	1,078.10	957.5	
4/23/2010	7	1,077.50	957	
4/24/2010	7	1,088.70	967	
4/25/2010	7	1,085.50	964.1	
4/26/2010	7	1,089.50	967.7	
4/27/2010	7	1,089.10	967.3	
4/28/2010	7	1,085.30	984	
4/29/2010	7	1,057.40	939.2	
4/30/2010	7	997.5	886	
5/1/2010	7	993.6	882.5	
5/2/2010	7	996.4	885	
5/3/2010	7	997.6	886.1	
5/4/2010	7	999	887.3	
5/5/2010	7	706.9	627.9	
5/6/2010	7	0	0	
5/7/2010	7	0	0	
5/8/2010	7	0	0	
5/9/2010	7	0	0	
5/10/2010	7	0	0	
5/11/2010	7	0	0	
5/12/2010	7	0	0	
5/13/2010	7	0	0	
5/14/2010	7	0	0	
5/15/2010	7	0	0	
5/16/2010	7	0	0	
5/17/2010	7	0	0	
5/18/2010	7	0	0	
5/19/2010	7	0	0	
5/20/2010	7	262.1	232.8	
5/21/2010	7	0	0	
5/22/2010	7	0	0	
5/23/2010	7	0	0	
5/24/2010	7	0	0	
5/25/2010	7	347.8	308.7	
5/26/2010	7	0	0	

MDW34Z COGEN FUEL USAGE

ALL UNITS

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Daily Summary

Day	Unit #	System Fuel (MMBtu)	System Fuel (MCF)	Quarterly Total (MMBtu)
5/27/2010	7	0	0	
5/28/2010	7	0	0	
5/29/2010	7	0	0	
5/30/2010	7	0	0	
5/31/2010	7	0	0	
6/1/2010	7	0	0	
6/2/2010	7	0	0	
6/3/2010	7	0	0	
6/4/2010	7	0	0	
6/5/2010	7	0	0	
6/6/2010	7	0	0	
6/7/2010	7	0	0	
6/8/2010	7	0	0	
6/9/2010	7	0	0	
6/10/2010	7	0	0	
6/11/2010	7	0	0	
6/12/2010	7	0	0	
6/13/2010	7	0	0	
6/14/2010	7	0	0	
6/15/2010	7	0	0	
6/16/2010	7	0	0	
6/17/2010	7	0	0	
6/18/2010	7	0	0	
6/19/2010	7	0	0	
6/20/2010	7	0	0	
6/21/2010	7	0	0	
6/22/2010	7	0	0	
6/23/2010	7	0	0	
6/24/2010	7	0	0	
6/25/2010	7	0	0	
6/26/2010	7	0	0	
6/27/2010	7	0	0	
6/28/2010	7	0	0	
6/29/2010	7	0	0	
6/30/2010	7	0	0	33,119.00
7/1/2010	7	0.2	0.2	
7/2/2010	7	0	0	
7/3/2010	7	0	0	
7/4/2010	7	0	0	
7/5/2010	7	0	0	
7/6/2010	7	0	0	
7/7/2010	7	0	0	
7/8/2010	7	0	0	
7/9/2010	7	0	0	
7/10/2010	7	0	0	
7/11/2010	7	0	0	
7/12/2010	7	0	0	
7/13/2010	7	0	0	
7/14/2010	7	0	0	
7/15/2010	7	0	0	
7/16/2010	7	0	0	
7/17/2010	7	0	0	
7/18/2010	7	0	0	
7/19/2010	7	0	0	
7/20/2010	7	0	0	
7/21/2010	7	587.7	525.5	
7/22/2010	7	0	0	
7/23/2010	7	0	0	
7/24/2010	7	0	0	
7/25/2010	7	0	0	
7/26/2010	7	0	0	
7/27/2010	7	0	0	
7/28/2010	7	0	0	
7/29/2010	7	0	0	
7/30/2010	7	0	0	
7/31/2010	7	0	0	
8/1/2010	7	0	0	

MDW34Z COGEN FUEL USAGE ALL UNITS

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Daily Summary

Day	Unit #	System Fuel (MMBtu)	System Fuel (MCF)	Quarterly Total (MMBtu)
8/2/2010	7	0	0	
8/3/2010	7	0	0	
8/4/2010	7	0	0	
8/5/2010	7	0	0	
8/6/2010	7	0	0	
8/7/2010	7	0	0	
8/8/2010	7	0	0	
8/9/2010	7	0	0	
8/10/2010	7	0	0	
8/11/2010	7	0	0	
8/12/2010	7	0	0	
8/13/2010	7	0	0	
8/14/2010	7	0	0	
8/15/2010	7	0	0	
8/16/2010	7	0	0	
8/17/2010	7	0	0	
8/18/2010	7	0	0	
8/19/2010	7	0	0	
8/20/2010	7	0	0	
8/21/2010	7	0	0	
8/22/2010	7	0	0	
8/23/2010	7	0	0	
8/24/2010	7	0	0	
8/25/2010	7	0	0	
8/26/2010	7	0	0	
8/27/2010	7	0	0	
8/28/2010	7	0	0	
8/29/2010	7	0	0	
8/30/2010	7	0	0	
8/31/2010	7	0	0	
9/1/2010	7	0	0	
9/2/2010	7	0	0	
9/3/2010	7	0	0	
9/4/2010	7	0	0	
9/5/2010	7	0	0	
9/6/2010	7	0	0	
9/7/2010	7	0	0	
9/8/2010	7	0	0	
9/9/2010	7	0	0	
9/10/2010	7	0	0	
9/11/2010	7	0	0	
9/12/2010	7	0	0	
9/13/2010	7	0	0	
9/14/2010	7	0	0	
9/15/2010	7	0	0	
9/16/2010	7	0	0	
9/17/2010	7	0	0	
9/18/2010	7	0	0	
9/19/2010	7	0	0	
9/20/2010	7	0	0	
9/21/2010	7	0	0	
9/22/2010	7	0	0	
9/23/2010	7	0	0	
9/24/2010	7	0	0	
9/25/2010	7	0	0	
9/26/2010	7	0	0	
9/27/2010	7	0	0	
9/28/2010	7	0	0	
9/29/2010	7	0	0	
9/30/2010	7	0	0	
10/1/2008	8	1,149.50	1,043.10	
10/2/2008	8	610.9	554.3	
10/3/2008	8	0	0	
10/4/2008	8	0	0	
10/5/2008	8	0	0	
10/6/2008	8	0	0	
10/7/2008	8	0	0	

587.90 Baseline Period 10/01/2008 to 9/30/2010

MDW34Z COGEN FUEL USAGE ALL UNITS

date of report: 7/18/2012 11:50 AM

Daily Summary

Day	Unit #	System Fuel (MMBtu)	System Fuel (MCF)	Quarterly Total (MMBtu)
10/8/2008	8	0	0	
10/9/2008	8	0	0	
10/10/2008	8	659.4	598.4	
10/11/2008	8	1,138.90	1,033.50	
10/12/2008	8	1,127.60	1,023.20	
10/13/2008	8	1,048.80	951.8	
10/14/2008	8	1,124.20	1,020.10	
10/15/2008	8	1,122.80	1,018.90	
10/16/2008	8	1,128.40	1,023.90	
10/17/2008	8	1,129.60	1,025.10	
10/18/2008	8	1,135.80	1,030.70	
10/19/2008	8	1,136.00	1,030.80	
10/20/2008	8	1,136.00	1,030.90	
10/21/2008	8	1,135.30	1,030.30	
10/22/2008	8	1,132.70	1,027.80	
10/23/2008	8	1,129.30	1,024.80	
10/24/2008	8	1,122.10	1,018.30	
10/25/2008	8	1,128.00	1,023.60	
10/26/2008	8	1,130.90	1,026.20	
10/27/2008	8	1,128.80	1,024.30	
10/28/2008	8	1,125.40	1,021.30	
10/29/2008	8	1,124.80	1,020.70	
10/30/2008	8	1,126.30	1,022.10	
10/31/2008	8	1,125.00	1,020.90	
11/1/2008	8	1,127.00	1,022.70	
11/2/2008	8	1,155.00	1,048.10	
11/3/2008	8	1,047.50	950.6	
11/4/2008	8	1,109.30	1,006.80	
11/5/2008	8	1,118.20	1,014.70	
11/6/2008	8	1,124.50	1,020.40	
11/7/2008	8	1,126.40	1,022.10	
11/8/2008	8	1,132.20	1,027.30	
11/9/2008	8	1,124.40	1,020.30	
11/10/2008	8	1,129.90	1,025.30	
11/11/2008	8	1,130.80	1,026.10	
11/12/2008	8	1,133.20	1,028.30	
11/13/2008	8	1,128.80	1,024.40	
11/14/2008	8	1,126.00	1,021.70	
11/15/2008	8	1,122.80	1,018.90	
11/16/2008	8	1,122.90	1,018.90	
11/17/2008	8	981.1	890.3	
11/18/2008	8	1,137.10	1,031.80	
11/19/2008	8	1,127.30	1,022.90	
11/20/2008	8	1,123.30	1,019.30	
11/21/2008	8	1,124.10	1,020.00	
11/22/2008	8	1,122.40	1,018.50	
11/23/2008	8	1,120.40	1,016.70	
11/24/2008	8	1,124.70	1,020.60	
11/25/2008	8	1,123.50	1,019.50	
11/26/2008	8	1,124.80	1,020.60	
11/27/2008	8	1,121.30	1,017.50	
11/28/2008	8	1,125.90	1,021.70	
11/29/2008	8	1,126.20	1,022.00	
11/30/2008	8	1,123.90	1,019.90	
12/1/2008	8	1,113.80	1,010.70	
12/2/2008	8	1,112.80	1,009.80	
12/3/2008	8	1,114.80	1,011.60	
12/4/2008	8	1,115.90	1,012.60	
12/5/2008	8	1,124.80	1,020.70	
12/6/2008	8	1,127.00	1,022.70	
12/7/2008	8	1,130.50	1,025.90	
12/8/2008	8	1,131.20	1,026.50	
12/9/2008	8	1,131.50	1,026.70	
12/10/2008	8	1,136.10	1,030.90	
12/11/2008	8	1,138.90	1,033.50	
12/12/2008	8	1,140.20	1,034.70	
12/13/2008	8	1,127.10	1,022.70	

MDW34Z COGEN FUEL USAGE

ALL UNITS

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Daily Summary

Day	Unit #	System Fuel (MMBtu)	System Fuel (MCF)	Quarterly Total (MMBtu)
12/14/2008	8	1,124.30	1,020.20	
12/15/2008	8	1,126.00	1,021.80	
12/16/2008	8	1,126.20	1,021.90	
12/17/2008	8	1,114.80	1,011.60	
12/18/2008	8	1,121.80	1,018.00	
12/19/2008	8	1,128.30	1,023.80	
12/20/2008	8	1,125.70	1,021.50	
12/21/2008	8	1,129.60	1,025.00	
12/22/2008	8	1,126.40	1,022.10	
12/23/2008	8	1,129.90	1,025.30	
12/24/2008	8	1,141.10	1,035.50	
12/25/2008	8	1,114.20	1,011.10	
12/26/2008	8	1,105.80	1,003.50	
12/27/2008	8	1,107.70	1,005.20	
12/28/2008	8	1,109.40	1,006.70	
12/29/2008	8	1,108.50	1,005.90	
12/30/2008	8	1,111.70	1,008.80	
12/31/2008	8	1,109.50	1,006.80	94,426.90
1/1/2009	8	1,109.00	1,006.40	
1/2/2009	8	1,094.10	992.8	
1/3/2009	8	1,135.70	1,030.50	
1/4/2009	8	1,129.20	1,024.70	
1/5/2009	8	1,144.80	1,038.80	
1/6/2009	8	1,142.50	1,036.80	
1/7/2009	8	1,143.70	1,037.80	
1/8/2009	8	1,132.80	1,027.90	
1/9/2009	8	1,117.40	1,014.00	
1/10/2009	8	1,133.70	1,028.70	
1/11/2009	8	1,131.60	1,026.80	
1/12/2009	8	1,125.50	1,021.30	
1/13/2009	8	1,124.20	1,020.20	
1/14/2009	8	1,121.40	1,017.60	
1/15/2009	8	1,124.50	1,020.50	
1/16/2009	8	728.6	661.2	
1/17/2009	8	0	0	
1/18/2009	8	0	0	
1/19/2009	8	0	0	
1/20/2009	8	0	0	
1/21/2009	8	0	0	
1/22/2009	8	0	0	
1/23/2009	8	0	0	
1/24/2009	8	0	0	
1/25/2009	8	0	0	
1/26/2009	8	0	0	
1/27/2009	8	376.7	341.9	
1/28/2009	8	1,109.30	1,006.70	
1/29/2009	8	1,121.90	1,018.00	
1/30/2009	8	1,129.20	1,024.70	
1/31/2009	8	1,132.80	1,028.00	
2/1/2009	8	1,134.80	1,029.70	
2/2/2009	8	1,136.70	1,031.40	
2/3/2009	8	1,129.60	1,025.10	
2/4/2009	8	1,128.90	1,024.40	
2/5/2009	8	1,120.80	1,017.00	
2/6/2009	8	1,119.80	1,016.20	
2/7/2009	8	1,116.10	1,012.80	
2/8/2009	8	1,119.60	1,015.90	
2/9/2009	8	1,118.30	1,014.80	
2/10/2009	8	1,120.10	1,016.40	
2/11/2009	8	1,125.20	1,021.10	
2/12/2009	8	1,125.10	1,020.90	
2/13/2009	8	1,124.20	1,020.20	
2/14/2009	8	731.1	663.4	
2/15/2009	8	0	0	
2/16/2009	8	668.9	607	
2/17/2009	8	1,121.70	1,017.90	
2/18/2009	8	1,116.80	1,013.40	

MDW34Z COGEN FUEL USAGE ALL UNITS

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Daily Summary

Day	Unit #	System Fuel (MMBtu)	System Fuel (MCF)	Quarterly Total (MMBtu)
2/19/2009	8	900.5	817.2	
2/20/2009	8	0	0	
2/21/2009	8	0	0	
2/22/2009	8	0	0	
2/23/2009	8	0	0	
2/24/2009	8	0	0	
2/25/2009	8	0	0	
2/26/2009	8	0	0	
2/27/2009	8	0	0	
2/28/2009	8	0	0	
3/1/2009	8	0	0	
3/2/2009	8	0	0	
3/3/2009	8	0	0	
3/4/2009	8	0	0	
3/5/2009	8	0	0	
3/6/2009	8	0	0	
3/7/2009	8	0	0	
3/8/2009	8	0	0	
3/9/2009	8	0	0	
3/10/2009	8	0	0	
3/11/2009	8	0	0	
3/12/2009	8	0	0	
3/13/2009	8	0	0	
3/14/2009	8	0	0	
3/15/2009	8	0	0	
3/16/2009	8	0	0	
3/17/2009	8	0	0	
3/18/2009	8	0	0	
3/19/2009	8	0	0	
3/20/2009	8	0	0	
3/21/2009	8	0	0	
3/22/2009	8	0	0	
3/23/2009	8	0	0	
3/24/2009	8	0	0	
3/25/2009	8	0	0	
3/26/2009	8	0	0	
3/27/2009	8	0	0	
3/28/2009	8	0	0	
3/29/2009	8	0	0	
3/30/2009	8	0	0	
3/31/2009	8	0	0	41,866.80
4/1/2009	8	0	0	
4/2/2009	8	0	0	
4/3/2009	8	0	0	
4/4/2009	8	0	0	
4/5/2009	8	0	0	
4/6/2009	8	458.8	415.1	
4/7/2009	8	1,054.80	954.4	
4/8/2009	8	1,050.20	950.2	
4/9/2009	8	1,068.00	966.4	
4/10/2009	8	1,088.00	984.5	
4/11/2009	8	1,093.00	989	
4/12/2009	8	1,094.20	990.1	
4/13/2009	8	1,093.20	989.1	
4/14/2009	8	1,086.90	983.4	
4/15/2009	8	1,089.10	985.5	
4/16/2009	8	1,092.00	988.1	
4/17/2009	8	1,094.90	990.7	
4/18/2009	8	1,096.60	992.2	
4/19/2009	8	1,097.20	992.8	
4/20/2009	8	1,086.20	982.8	
4/21/2009	8	1,082.00	979	
4/22/2009	8	1,076.80	974.3	
4/23/2009	8	1,073.00	970.9	
4/24/2009	8	1,074.60	972.3	
4/25/2009	8	1,054.60	954.2	
4/26/2009	8	1,057.40	956.8	

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Daily Summary

Day	Unit #	System Fuel (MMBtu)	System Fuel (MCF)	Quarterly Total (MMBtu)
4/27/2009	8	1,057.90	957.2	
4/28/2009	8	1,057.20	956.5	
4/29/2009	8	1,058.00	957.3	
4/30/2009	8	1,081.50	960.5	
5/1/2009	8	1,085.20	963.8	
5/2/2009	8	1,086.20	964.8	
5/3/2009	8	1,064.80	963.5	
5/4/2009	8	1,065.80	964.3	
5/5/2009	8	1,064.50	963.2	
5/6/2009	8	1,064.90	963.5	
5/7/2009	8	1,064.10	962.8	
5/8/2009	8	1,087.40	965.8	
5/9/2009	8	1,070.30	968.5	
5/10/2009	8	1,071.40	969.4	
5/11/2009	8	1,072.60	970.5	
5/12/2009	8	1,073.20	971.1	
5/13/2009	8	1,076.30	973.8	
5/14/2009	8	627.8	568	
5/15/2009	8	1,063.50	962.3	
5/16/2009	8	1,062.20	961.1	
5/17/2009	8	1,062.30	961.2	
5/18/2009	8	1,064.70	963.4	
5/19/2009	8	1,067.50	966	
5/20/2009	8	1,064.60	963.3	
5/21/2009	8	1,052.40	952.3	
5/22/2009	8	1,053.20	953	
5/23/2009	8	1,055.90	955.4	
5/24/2009	8	1,060.60	959.7	
5/25/2009	8	1,081.40	960.4	
5/26/2009	8	1,060.70	959.8	
5/27/2009	8	1,060.40	959.5	
5/28/2009	8	1,059.30	958.5	
5/29/2009	8	1,059.50	956.7	
5/30/2009	8	1,060.50	959.5	
5/31/2009	8	1,057.60	957	
6/1/2009	8	1,058.40	957.7	
6/2/2009	8	1,082.70	961.6	
6/3/2009	8	1,062.50	961.4	
6/4/2009	8	1,066.70	965.1	
6/5/2009	8	1,062.40	961.3	
6/6/2009	8	1,064.50	963.2	
6/7/2009	8	1,067.20	965.6	
6/8/2009	8	1,066.70	965.2	
6/9/2009	8	1,064.50	963.2	
6/10/2009	8	1,060.30	959.4	
6/11/2009	8	1,063.20	962	
6/12/2009	8	1,067.50	966	
6/13/2009	8	1,042.60	943.4	
6/14/2009	8	1,056.20	955.7	
6/15/2009	8	1,063.50	962.3	
6/16/2009	8	1,061.70	960.6	
6/17/2009	8	1,059.90	959.1	
6/18/2009	8	1,057.90	957.3	
6/19/2009	8	1,061.60	960.6	
6/20/2009	8	1,062.40	961.3	
6/21/2009	8	1,064.90	963.5	
6/22/2009	8	1,064.90	963.5	
6/23/2009	8	1,062.20	961.1	
6/24/2009	8	1,056.00	955.5	
6/25/2009	8	1,066.20	964.8	
6/26/2009	8	1,056.80	956.2	
6/27/2009	8	1,057.30	956.7	
6/28/2009	8	1,055.70	955.2	
6/29/2009	8	1,059.70	958.9	
6/30/2009	8	1,063.60	962.4	90,676.60
7/1/2009	8	1,062.40	961.3	
7/2/2009	8	1,052.20	952.1	

MDW34Z COGEN FUEL USAGE ALL UNITS

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Daily Summary

Day	Unit #	System Fuel (MMBtu)	System Fuel (MCF)	Quarterly Total (MMBtu)
7/3/2009	8	1,028.80	930.7	
7/4/2009	8	1,047.80	948.1	
7/5/2009	8	1,048.00	948.3	
7/6/2009	8	1,046.30	946.7	
7/7/2009	8	1,051.30	951.2	
7/8/2009	8	1,041.00	941.9	
7/9/2009	8	1,040.70	941.7	
7/10/2009	8	1,042.70	943.6	
7/11/2009	8	1,046.10	946.6	
7/12/2009	8	1,075.50	973.2	
7/13/2009	8	341.2	308.8	
7/14/2009	8	671.2	607.3	
7/15/2009	8	1,033.40	935.1	
7/16/2009	8	1,038.80	939.8	
7/17/2009	8	1,036.60	938	
7/18/2009	8	1,041.40	942.3	
7/19/2009	8	1,033.60	935.3	
7/20/2009	8	1,032.80	934.6	
7/21/2009	8	1,037.00	938.3	
7/22/2009	8	1,040.30	941.4	
7/23/2009	8	1,040.60	941.6	
7/24/2009	8	1,038.40	939.6	
7/25/2009	8	1,040.70	941.7	
7/26/2009	8	1,041.30	942.2	
7/27/2009	8	1,042.40	943.2	
7/28/2009	8	1,041.20	942.1	
7/29/2009	8	1,043.70	944.4	
7/30/2009	8	1,045.00	945.5	
7/31/2009	8	1,037.00	938.3	
8/1/2009	8	1,044.50	945.1	
8/2/2009	8	1,052.80	952.6	
8/3/2009	8	1,056.60	956	
8/4/2009	8	1,057.10	956.5	
8/5/2009	8	1,054.00	953.7	
8/6/2009	8	1,047.90	948.2	
8/7/2009	8	1,047.80	948	
8/8/2009	8	1,052.80	952.6	
8/9/2009	8	1,050.80	950.8	
8/10/2009	8	1,008.70	912.7	
8/11/2009	8	1,048.20	948.5	
8/12/2009	8	1,057.60	957	
8/13/2009	8	1,054.40	954	
8/14/2009	8	1,050.40	950.5	
8/15/2009	8	1,052.60	952.4	
8/16/2009	8	1,052.80	952.5	
8/17/2009	8	1,053.50	953.2	
8/18/2009	8	1,052.00	951.9	
8/19/2009	8	1,056.50	956	
8/20/2009	8	1,054.50	954.2	
8/21/2009	8	1,051.00	950.9	
8/22/2009	8	1,043.50	944.3	
8/23/2009	8	1,041.10	942	
8/24/2009	8	1,046.50	946.9	
8/25/2009	8	1,049.80	949.9	
8/26/2009	8	1,048.00	948.3	
8/27/2009	8	1,052.50	952.3	
8/28/2009	8	1,051.30	951.2	
8/29/2009	8	1,053.30	953.1	
8/30/2009	8	1,052.10	951.9	
8/31/2009	8	1,055.60	955.2	
9/1/2009	8	526.1	476	
9/2/2009	8	0	0	
9/3/2009	8	22.6	20.5	
9/4/2009	8	0	0	
9/5/2009	8	0	0	
9/6/2009	8	0	0	
9/7/2009	8	0	0	

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Day	Unit #	System Fuel (MMBtu)	System Fuel (MCF)	Quarterly Total (MMBtu)
9/8/2009	8	645.4	584	
9/9/2009	8	1,080.50	977.6	
9/10/2009	8	1,082.00	979	
9/11/2009	8	1,080.40	977.6	
9/12/2009	8	1,081.30	978.4	
9/13/2009	8	1,080.40	977.6	
9/14/2009	8	1,073.20	971.1	
9/15/2009	8	1,069.10	967.3	
9/16/2009	8	1,068.80	967.1	
9/17/2009	8	1,067.50	965.9	
9/18/2009	8	1,070.30	968.5	
9/19/2009	8	1,072.40	970.4	
9/20/2009	8	1,076.40	973.9	
9/21/2009	8	1,070.10	968.3	
9/22/2009	8	1,071.70	969.7	
9/23/2009	8	1,067.70	966.1	
9/24/2009	8	1,067.60	966	
9/25/2009	8	1,068.60	966.9	
9/26/2009	8	1,069.70	967.9	
9/27/2009	8	1,065.70	964.3	
9/28/2009	8	1,069.20	967.4	
9/29/2009	8	1,066.30	964.8	
9/30/2009	8	1,064.00	962.7	88,586.10
10/1/2009	8	1,109.80	1,004.20	
10/2/2009	8	1,004.90	909.2	
10/3/2009	8	844	763.7	
10/4/2009	8	880.7	796.9	
10/5/2009	8	959.4	868.1	
10/6/2009	8	1,080.10	959.2	
10/7/2009	8	1,073.90	971.7	
10/8/2009	8	1,075.70	973.3	
10/9/2009	8	1,073.90	971.7	
10/10/2009	8	1,072.60	970.5	
10/11/2009	8	1,077.40	974.9	
10/12/2009	8	1,077.40	974.9	
10/13/2009	8	861	779.1	
10/14/2009	8	1,073.10	971	
10/15/2009	8	1,070.50	968.7	
10/16/2009	8	1,064.30	963	
10/17/2009	8	776.2	702.4	
10/18/2009	8	1,080.60	977.8	
10/19/2009	8	1,073.10	971	
10/20/2009	8	1,071.60	969.7	
10/21/2009	8	689	621.4	
10/22/2009	8	440.6	395.8	
10/23/2009	8	649.5	583.4	
10/24/2009	8	1,085.70	975.4	
10/25/2009	8	1,085.50	975.1	
10/26/2009	8	1,102.60	990.6	
10/27/2009	8	1,093.00	981.9	
10/28/2009	8	1,058.00	950.5	
10/29/2009	8	1,083.40	973.3	
10/30/2009	8	1,102.00	990	
10/31/2009	8	1,101.20	989.2	
11/1/2009	8	1,061.50	953.6	
11/2/2009	8	1,012.80	909.9	
11/3/2009	8	1,001.20	899.5	
11/4/2009	8	1,057.00	949.6	
11/5/2009	8	1,057.70	950.2	
11/6/2009	8	1,060.30	952.6	
11/7/2009	8	1,053.70	946.6	
11/8/2009	8	1,053.60	946.7	
11/9/2009	8	882.4	792.7	
11/10/2009	8	1,073.40	964.3	
11/11/2009	8	1,059.00	951.3	
11/12/2009	8	1,048.80	942.2	
11/13/2009	8	1,057.90	950.4	

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Day	Unit #	System Fuel (MMBtu)	System Fuel (MCF)	Quarterly Total (MMBtu)
11/14/2009	8	1,064.30	958.2	
11/15/2009	8	1,063.60	955.5	
11/16/2009	8	1,061.00	953.1	
11/17/2009	8	1,052.40	945.4	
11/18/2009	8	576	517.4	
11/19/2009	8	1,081.10	971.2	
11/20/2009	8	1,083.30	973.1	
11/21/2009	8	1,084.90	974.6	
11/22/2009	8	1,091.00	980.1	
11/23/2009	8	1,092.10	981.1	
11/24/2009	8	1,089.90	979.1	
11/25/2009	8	1,088.80	978.1	
11/26/2009	8	1,090.00	979.2	
11/27/2009	8	1,092.30	981.3	
11/28/2009	8	1,092.30	981.3	
11/29/2009	8	1,091.80	980.8	
11/30/2009	8	1,092.70	981.7	
12/1/2009	8	1,090.80	979.9	
12/2/2009	8	1,093.50	982.4	
12/3/2009	8	1,097.90	986.3	
12/4/2009	8	264.2	237.4	
12/5/2009	8	747.8	671.8	
12/6/2009	8	939	843.5	
12/7/2009	8	1,024.30	920.2	
12/8/2009	8	1,068.40	959.8	
12/9/2009	8	1,084.60	974.4	
12/10/2009	8	1,087.80	977.2	
12/11/2009	8	1,043.00	937	
12/12/2009	8	1,009.70	907	
12/13/2009	8	1,037.70	932.2	
12/14/2009	8	1,051.60	944.7	
12/15/2009	8	1,069.40	960.7	
12/18/2009	8	1,077.50	968	
12/17/2009	8	1,082.30	972.2	
12/18/2009	8	1,079.30	989.6	
12/19/2009	8	575.7	517.2	
12/20/2009	8	0	0	
12/21/2009	8	625.2	561.6	
12/22/2009	8	1,094.80	983.5	
12/23/2009	8	1,087.80	977.3	
12/24/2009	8	1,089.80	979	
12/25/2009	8	1,093.50	982.4	
12/28/2009	8	1,096.00	984.6	
12/27/2009	8	1,095.80	984.4	
12/28/2009	8	757.4	680.4	
12/29/2009	8	1,099.80	987.8	
12/30/2009	8	1,090.30	979.5	
12/31/2009	8	1,095.80	984.4	91,988.30
1/1/2010	8	1,099.50	987.8	
1/2/2010	8	1,101.50	989.6	
1/3/2010	8	1,100.40	988.8	
1/4/2010	8	1,098.70	987	
1/5/2010	8	1,096.80	985.3	
1/6/2010	8	1,099.90	988.1	
1/7/2010	8	1,100.10	988.3	
1/8/2010	8	1,105.00	992.7	
1/9/2010	8	1,106.50	994	
1/10/2010	8	1,104.30	992.1	
1/11/2010	8	1,103.40	991.3	
1/12/2010	8	1,033.10	928.1	
1/13/2010	8	998.1	898.7	
1/14/2010	8	993.2	892.3	
1/15/2010	8	992.7	891.8	
1/16/2010	8	994.5	893.4	
1/17/2010	8	1,075.40	968.1	
1/18/2010	8	862.2	774.8	
1/19/2010	8	1,089.80	979.1	

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Day	Unit #	System Fuel (MMBtu)	System Fuel (MCF)	Quarterly Total (MMBtu)
1/20/2010	8	1,089.60	978.8	
1/21/2010	8	1,095.60	980.5	
1/22/2010	8	1,097.60	974.9	
1/23/2010	8	1,100.90	977.8	
1/24/2010	8	1,102.00	978.8	
1/25/2010	8	1,094.00	971.6	
1/26/2010	8	1,087.90	966.3	
1/27/2010	8	233	206.9	
1/28/2010	8	0	0	
1/29/2010	8	425.2	377.7	
1/30/2010	8	1,070.30	950.7	
1/31/2010	8	1,073.40	953.4	
2/1/2010	8	1,075.80	955.5	
2/2/2010	8	1,077.80	957.3	
2/3/2010	8	1,082.60	961.5	
2/4/2010	8	1,084.30	963.1	
2/5/2010	8	1,082.90	961.8	
2/6/2010	8	1,078.50	957.9	
2/7/2010	8	1,078.60	958	
2/8/2010	8	1,081.80	960.8	
2/9/2010	8	1,078.20	957.6	
2/10/2010	8	1,079.20	958.5	
2/11/2010	8	1,089.60	967.8	
2/12/2010	8	1,050.90	933.4	
2/13/2010	8	1,087.80	966.1	
2/14/2010	8	1,080.50	959.7	
2/15/2010	8	1,089.80	967.9	
2/16/2010	8	1,015.90	902.3	
2/17/2010	8	879	780.7	
2/18/2010	8	427.3	379.5	
2/19/2010	8	0	0	
2/20/2010	8	0	0	
2/21/2010	8	0	0	
2/22/2010	8	0	0	
2/23/2010	8	0	0	
2/24/2010	8	0	0	
2/25/2010	8	0	0	
2/26/2010	8	0	0	
2/27/2010	8	0	0	
2/28/2010	8	896.9	795.7	
3/1/2010	8	1,081.60	960.7	
3/2/2010	8	1,077.30	956.9	
3/3/2010	8	1,072.90	952.9	
3/4/2010	8	1,070.30	950.6	
3/5/2010	8	968.1	859.9	
3/6/2010	8	811.3	720.6	
3/7/2010	8	1,088.20	966.6	
3/8/2010	8	1,092.00	969.9	
3/9/2010	8	721.8	641.1	
3/10/2010	8	1,089.90	968	
3/11/2010	8	1,079.60	958.9	
3/12/2010	8	1,088.80	967.1	
3/13/2010	8	1,067.10	965.6	
3/14/2010	8	1,084.50	963.2	
3/15/2010	8	1,088.70	966.9	
3/16/2010	8	1,094.30	971.9	
3/17/2010	8	1,079.60	958.9	
3/18/2010	8	1,070.80	951.1	
3/19/2010	8	1,076.20	955.9	
3/20/2010	8	1,088.80	967.1	
3/21/2010	8	1,089.90	968	
3/22/2010	8	706.3	627.3	
3/23/2010	8	0	0	
3/24/2010	8	0	0	
3/25/2010	8	0	0	
3/26/2010	8	0	0	
3/27/2010	8	0	0	

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Day	Unit #	System Fuel (MMBtu)	System Fuel (MCF)	Quarterly Total (MMBtu)
3/28/2010	8	0	0	
3/29/2010	8	0	0	
3/30/2010	8	0	0	
3/31/2010	8	0	0	72,749.00
4/1/2010	8	0	0	
4/2/2010	8	0	0	
4/3/2010	8	0	0	
4/4/2010	8	0	0	
4/5/2010	8	752.5	668.3	
4/6/2010	8	1,095.00	972.5	
4/7/2010	8	1,063.20	944.3	
4/8/2010	8	1,062.60	943.8	
4/9/2010	8	540	479.7	
4/10/2010	8	0	0	
4/11/2010	8	0	0	
4/12/2010	8	0	0	
4/13/2010	8	0	0	
4/14/2010	8	0	0	
4/15/2010	8	0	0	
4/16/2010	8	0	0	
4/17/2010	8	0	0	
4/18/2010	8	0	0	
4/19/2010	8	0	0	
4/20/2010	8	0	0	
4/21/2010	8	0	0	
4/22/2010	8	0	0	
4/23/2010	8	0	0	
4/24/2010	8	0	0	
4/25/2010	8	0	0	
4/26/2010	8	0	0	
4/27/2010	8	0	0	
4/28/2010	8	0	0	
4/29/2010	8	473.4	420.5	
4/30/2010	8	956.4	849.4	
5/1/2010	8	950.2	844	
5/2/2010	8	953.4	846.8	
5/3/2010	8	951.6	845.2	
5/4/2010	8	955	848.2	
5/5/2010	8	953.3	846.7	
5/6/2010	8	516.7	458.9	
5/7/2010	8	1,074.00	953.9	
5/8/2010	8	1,071.30	951.5	
5/9/2010	8	1,071.60	951.8	
5/10/2010	8	1,069.60	950	
5/11/2010	8	1,071.50	951.7	
5/12/2010	8	1,072.70	952.8	
5/13/2010	8	1,072.00	952.2	
5/14/2010	8	1,076.90	956.5	
5/15/2010	8	1,080.60	959.8	
5/16/2010	8	1,083.00	961.9	
5/17/2010	8	1,073.30	953.2	
5/18/2010	8	1,069.30	949.8	
5/19/2010	8	1,068.30	948.8	
5/20/2010	8	1,004.20	892	
5/21/2010	8	1,063.40	944.5	
5/22/2010	8	1,061.80	943.1	
5/23/2010	8	1,061.30	942.6	
5/24/2010	8	1,060.10	941.6	
5/25/2010	8	1,014.50	901.1	
5/26/2010	8	1,086.90	965.3	
5/27/2010	8	856.5	760.7	
5/28/2010	8	1,114.30	989.7	
5/29/2010	8	871	773.6	
5/30/2010	8	1,054.50	936.6	
5/31/2010	8	948.8	842.7	
6/1/2010	8	968.7	860.3	
6/2/2010	8	974.5	865.5	

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Day	Unit #	System Fuel (MMBtu)	System Fuel (MCF)	Quarterly Total (MMBtu)
6/3/2010	8	600.3	533.2	
6/4/2010	8	1,113.30	988.8	
6/5/2010	8	900.6	799.9	
6/6/2010	8	1,084.10	962.9	
6/7/2010	8	1,052.60	934.9	
6/8/2010	8	1,052.60	934.9	
6/9/2010	8	1,052.70	935	
6/10/2010	8	1,059.90	941.4	
6/11/2010	8	1,085.70	964.3	
6/12/2010	8	1,089.20	949.7	
6/13/2010	8	1,056.10	938	
6/14/2010	8	1,058.50	940.2	
6/15/2010	8	1,061.70	943	
6/16/2010	8	1,051.50	934	
6/17/2010	8	1,056.30	938.2	
6/18/2010	8	1,056.60	938.4	
6/19/2010	8	1,059.40	941	
6/20/2010	8	1,060.80	942.2	
6/21/2010	8	1,052.80	935.1	
6/22/2010	8	1,059.90	941.4	
6/23/2010	8	1,067.10	947.8	
6/24/2010	8	1,067.80	948.3	
6/25/2010	8	1,065.80	946.8	
6/26/2010	8	1,063.00	944.1	
6/27/2010	8	1,061.00	942.4	
6/28/2010	8	1,056.80	938.4	
6/29/2010	8	1,058.20	939.9	
6/30/2010	8	1,059.80	941.1	68,461.40
7/1/2010	8	1,061.60	942.9	
7/2/2010	8	1,047.90	934.3	
7/3/2010	8	1,044.40	933.8	
7/4/2010	8	1,049.40	938.2	
7/5/2010	8	1,042.20	931.8	
7/6/2010	8	1,041.60	931.3	
7/7/2010	8	1,044.70	934	
7/8/2010	8	1,042.10	931.7	
7/9/2010	8	1,039.80	929.6	
7/10/2010	8	1,042.10	931.7	
7/11/2010	8	839.8	750.9	
7/12/2010	8	962.4	860.4	
7/13/2010	8	1,042.90	932.4	
7/14/2010	8	1,043.50	933	
7/15/2010	8	1,046.00	935.2	
7/16/2010	8	1,047.00	936.1	
7/17/2010	8	1,049.70	938.5	
7/18/2010	8	1,049.90	938.7	
7/19/2010	8	1,050.00	938.8	
7/20/2010	8	1,063.80	951.1	
7/21/2010	8	189.2	169.2	
7/22/2010	8	506.1	452.5	
7/23/2010	8	1,057.80	945.8	
7/24/2010	8	1,051.30	939.9	
7/25/2010	8	1,051.70	940.3	
7/26/2010	8	1,053.40	941.8	
7/27/2010	8	1,052.40	940.9	
7/28/2010	8	1,053.60	942	
7/29/2010	8	1,052.40	941	
7/30/2010	8	1,054.00	942.4	
7/31/2010	8	1,053.60	942	
8/1/2010	8	1,055.90	944.1	
8/2/2010	8	1,059.20	947.1	
8/3/2010	8	1,063.30	950.7	
8/4/2010	8	1,061.20	949.4	
8/5/2010	8	1,060.50	949.2	
8/6/2010	8	1,061.40	950.1	
8/7/2010	8	1,063.70	952.1	
8/8/2010	8	1,066.60	954.6	

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Day	Unit #	System Fuel (MMBtu)	System Fuel (MCF)	Quarterly Total (MMBtu)
8/9/2010	8	1,060.30	949.1	
8/10/2010	8	1,065.50	953.7	
8/11/2010	8	1,067.30	955.3	
8/12/2010	8	1,062.40	950.9	
8/13/2010	8	1,063.40	951.8	
8/14/2010	8	1,097.60	982.5	
8/15/2010	8	1,083.10	969.5	
8/16/2010	8	1,065.40	953.8	
8/17/2010	8	1,065.50	953.7	
8/18/2010	8	1,067.90	955.9	
8/19/2010	8	1,070.50	958.2	
8/20/2010	8	1,069.40	957.2	
8/21/2010	8	1,071.70	959.3	
8/22/2010	8	1,072.40	959.8	
8/23/2010	8	1,075.00	962.2	
8/24/2010	8	1,074.30	961.6	
8/25/2010	8	1,088.50	956.4	
8/26/2010	8	1,083.90	952.3	
8/27/2010	8	1,076.60	963.6	
8/28/2010	8	1,070.90	958.5	
8/29/2010	8	1,071.30	958.9	
8/30/2010	8	1,073.10	960.5	
8/31/2010	8	1,076.60	963.7	
9/1/2010	8	1,077.60	964.5	
9/2/2010	8	1,077.60	964.5	
9/3/2010	8	1,076.10	963.2	
9/4/2010	8	1,074.40	961.7	
9/5/2010	8	1,070.50	958.1	
9/6/2010	8	1,067.30	955.4	
9/7/2010	8	1,073.30	960.7	
9/8/2010	8	1,076.20	963.3	
9/9/2010	8	1,079.40	966.2	
9/10/2010	8	1,078.50	965.4	
9/11/2010	8	1,071.00	958.6	
9/12/2010	8	1,066.90	954.9	
9/13/2010	8	1,071.80	959.4	
9/14/2010	8	1,073.80	961.1	
9/15/2010	8	1,074.90	962.1	
9/16/2010	8	1,073.50	960.9	
9/17/2010	8	1,079.60	966.3	
9/18/2010	8	1,076.30	963.4	
9/19/2010	8	1,070.10	957.8	
9/20/2010	8	1,068.40	956.3	
9/21/2010	8	1,069.50	957.3	
9/22/2010	8	1,076.90	963.9	
9/23/2010	8	1,074.80	962	
9/24/2010	8	1,077.40	964.3	
9/25/2010	8	1,072.50	959.9	
9/26/2010	8	1,070.30	957.9	
9/27/2010	8	1,070.10	957.9	
9/28/2010	8	1,070.60	958.3	
9/29/2010	8	1,065.20	953.4	
9/30/2010	8	1,074.70	962	
10/1/2008	9	1,120.40	1,016.70	
10/2/2008	9	1,119.10	1,015.50	
10/3/2008	9	1,104.60	1,002.40	
10/4/2008	9	1,097.10	995.6	
10/5/2008	9	1,085.40	985	
10/6/2008	9	1,076.60	977	
10/7/2008	9	1,064.10	965.6	
10/8/2008	9	1,054.20	956.6	
10/9/2008	9	1,072.70	973.4	
10/10/2008	9	447	405.6	
10/11/2008	9	0	0	
10/12/2008	9	0	0	
10/13/2008	9	0.4	0.4	
10/14/2008	9	0	0	

98,149.90 Baseline Period 10/01/2008 to 9/30/2010

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ALL UNITS

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Daily Summary

Day	Unit #	System Fuel (MMBtu)	System Fuel (MCF)	Quarterly Total (MMBtu)
10/15/2008	9	0	0	
10/16/2008	9	0	0	
10/17/2008	9	0	0	
10/18/2008	9	0	0	
10/19/2008	9	0	0	
10/20/2008	9	0	0	
10/21/2008	9	0	0	
10/22/2008	9	0	0	
10/23/2008	9	0	0	
10/24/2008	9	0	0	
10/25/2008	9	0	0	
10/26/2008	9	0	0	
10/27/2008	9	0	0	
10/28/2008	9	0	0	
10/29/2008	9	0	0	
10/30/2008	9	0	0	
10/31/2008	9	0	0	
11/1/2008	9	0	0	
11/2/2008	9	0	0	
11/3/2008	9	0	0	
11/4/2008	9	0	0	
11/5/2008	9	0	0	
11/6/2008	9	0	0	
11/7/2008	9	0	0	
11/8/2008	9	0	0	
11/9/2008	9	0	0	
11/10/2008	9	0	0	
11/11/2008	9	0	0	
11/12/2008	9	0	0	
11/13/2008	9	0	0	
11/14/2008	9	0	0	
11/15/2008	9	0	0	
11/16/2008	9	0	0	
11/17/2008	9	0	0	
11/18/2008	9	0	0	
11/19/2008	9	0	0	
11/20/2008	9	0	0	
11/21/2008	9	0	0	
11/22/2008	9	0	0	
11/23/2008	9	0	0	
11/24/2008	9	0	0	
11/25/2008	9	0	0	
11/26/2008	9	0	0	
11/27/2008	9	0	0	
11/28/2008	9	0	0	
11/29/2008	9	0	0	
11/30/2008	9	0	0	
12/1/2008	9	0	0	
12/2/2008	9	0	0	
12/3/2008	9	0	0	
12/4/2008	9	0	0	
12/5/2008	9	0	0	
12/6/2008	9	0	0	
12/7/2008	9	0	0	
12/8/2008	9	0	0	
12/9/2008	9	0	0	
12/10/2008	9	0	0	
12/11/2008	9	0	0	
12/12/2008	9	0	0	
12/13/2008	9	0	0	
12/14/2008	9	0	0	
12/15/2008	9	0	0	
12/16/2008	9	0	0	
12/17/2008	9	0	0	
12/18/2008	9	0	0	
12/19/2008	9	0	0	
12/20/2008	9	0	0	

MDW34Z COGEN FUEL USAGE

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Daily Summary

Day	Unit #	System Fuel (MMBtu)	System Fuel (MCF)	Quarterly Total (MMBtu)
12/21/2008	9	0	0	
12/22/2008	9	0	0	
12/23/2008	9	0	0	
12/24/2008	9	0	0	
12/25/2008	9	0	0	
12/26/2008	9	0	0	
12/27/2008	9	0	0	
12/28/2008	9	0	0	
12/29/2008	9	0	0	
12/30/2008	9	0	0	
12/31/2008	9	0	0	10,241.60
1/1/2009	9	0	0	
1/2/2009	9	0	0	
1/3/2009	9	0	0	
1/4/2009	9	0	0	
1/5/2009	9	0	0	
1/6/2009	9	0	0	
1/7/2009	9	0	0	
1/8/2009	9	0	0	
1/9/2009	9	44.1	40	
1/10/2009	9	0	0	
1/11/2009	9	0	0	
1/12/2009	9	4.6	4.2	
1/13/2009	9	0	0	
1/14/2009	9	72.8	66	
1/15/2009	9	662	600.7	
1/16/2009	9	1,125.00	1,020.90	
1/17/2009	9	1,110.80	1,008.00	
1/18/2009	9	1,108.60	1,005.90	
1/19/2009	9	1,109.40	1,006.70	
1/20/2009	9	1,109.20	1,006.60	
1/21/2009	9	1,106.10	1,003.70	
1/22/2009	9	1,106.00	1,003.60	
1/23/2009	9	1,112.40	1,009.40	
1/24/2009	9	1,112.00	1,009.10	
1/25/2009	9	1,110.30	1,007.50	
1/26/2009	9	1,109.90	1,007.20	
1/27/2009	9	1,116.60	1,013.20	
1/28/2009	9	209.5	190.1	
1/29/2009	9	0	0	
1/30/2009	9	0	0	
1/31/2009	9	0	0	
2/1/2009	9	0	0	
2/2/2009	9	0	0	
2/3/2009	9	0	0	
2/4/2009	9	0	0	
2/5/2009	9	0	0	
2/6/2009	9	0	0	
2/7/2009	9	0	0	
2/8/2009	9	0	0	
2/9/2009	9	0	0	
2/10/2009	9	0	0	
2/11/2009	9	0	0	
2/12/2009	9	0	0	
2/13/2009	9	0	0	
2/14/2009	9	394.7	358.2	
2/15/2009	9	1,115.70	1,012.40	
2/16/2009	9	1,115.00	1,011.80	
2/17/2009	9	1,119.70	1,016.10	
2/18/2009	9	1,121.20	1,017.40	
2/19/2009	9	901.4	817.9	
2/20/2009	9	0	0	
2/21/2009	9	0	0	
2/22/2009	9	0	0	
2/23/2009	9	0	0	
2/24/2009	9	0	0	
2/25/2009	9	0	0	

MDW34Z COGEN FUEL USAGE

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Daily Summary

Day	Unit #	System Fuel (MMBtu)	System Fuel (MCF)	Quarterly Total (MMBtu)
2/26/2009	9	0	0	
2/27/2009	9	0	0	
2/28/2009	9	0	0	
3/1/2009	9	0	0	
3/2/2009	9	0	0	
3/3/2009	9	0	0	
3/4/2009	9	0	0	
3/5/2009	9	0	0	
3/6/2009	9	0	0	
3/7/2009	9	0	0	
3/8/2009	9	0	0	
3/9/2009	9	0	0	
3/10/2009	9	0	0	
3/11/2009	9	0	0	
3/12/2009	9	0	0	
3/13/2009	9	0	0	
3/14/2009	9	0	0	
3/15/2009	9	0	0	
3/16/2009	9	0	0	
3/17/2009	9	0	0	
3/18/2009	9	0	0	
3/19/2009	9	0	0	
3/20/2009	9	0	0	
3/21/2009	9	0	0	
3/22/2009	9	0	0	
3/23/2009	9	0	0	
3/24/2009	9	0	0	
3/25/2009	9	0	0	
3/26/2009	9	0	0	
3/27/2009	9	0	0	
3/28/2009	9	0	0	
3/29/2009	9	0	0	
3/30/2009	9	0	0	
3/31/2009	9	0	0	20,097.00
4/1/2009	9	0	0	
4/2/2009	9	0	0	
4/3/2009	9	0	0	
4/4/2009	9	0	0	
4/5/2009	9	0	0	
4/6/2009	9	454.8	411.6	
4/7/2009	9	1,075.90	973.5	
4/8/2009	9	1,075.00	972.7	
4/9/2009	9	1,067.80	966.2	
4/10/2009	9	1,054.00	953.7	
4/11/2009	9	1,064.90	963.6	
4/12/2009	9	1,070.00	968.2	
4/13/2009	9	523.2	473.4	
4/14/2009	9	0	0	
4/15/2009	9	0	0	
4/16/2009	9	0	0	
4/17/2009	9	0	0	
4/18/2009	9	0	0	
4/19/2009	9	0	0	
4/20/2009	9	0	0	
4/21/2009	9	0	0	
4/22/2009	9	0	0	
4/23/2009	9	0	0	
4/24/2009	9	0	0	
4/25/2009	9	0	0	
4/26/2009	9	0	0	
4/27/2009	9	0	0	
4/28/2009	9	0	0	
4/29/2009	9	0	0	
4/30/2009	9	0	0	
5/1/2009	9	0	0	
5/2/2009	9	0	0	
5/3/2009	9	0	0	

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Daily Summary

Day	Unit #	System Fuel (MMBtu)	System Fuel (MCF)	Quarterly Total (MMBtu)
5/4/2009	9	0	0	
5/5/2009	9	0	0	
5/6/2009	9	0	0	
5/7/2009	9	0	0	
5/8/2009	9	0	0	
5/9/2009	9	0	0	
5/10/2009	9	0	0	
5/11/2009	9	0	0	
5/12/2009	9	0	0	
5/13/2009	9	0	0	
5/14/2009	9	0	0	
5/15/2009	9	0	0	
5/16/2009	9	0	0	
5/17/2009	9	0	0	
5/18/2009	9	445.3	402.9	
5/19/2009	9	1,058.10	957.4	
5/20/2009	9	1,058.60	957.8	
5/21/2009	9	1,047.90	948.2	
5/22/2009	9	1,049.10	949.3	
5/23/2009	9	1,051.80	951.7	
5/24/2009	9	1,059.10	958.3	
5/25/2009	9	1,059.00	958.2	
5/26/2009	9	1,054.70	954.3	
5/27/2009	9	1,052.20	952.1	
5/28/2009	9	1,052.80	952.6	
5/29/2009	9	1,053.50	953.3	
5/30/2009	9	1,055.70	955.3	
5/31/2009	9	1,053.10	952.8	
6/1/2009	9	1,054.20	953.9	
6/2/2009	9	1,067.40	956.7	
6/3/2009	9	1,058.00	957.4	
6/4/2009	9	1,067.00	965.4	
6/5/2009	9	1,064.30	963	
6/6/2009	9	1,064.80	963.4	
6/7/2009	9	1,063.50	962.3	
6/8/2009	9	1,062.70	961.5	
6/9/2009	9	1,061.10	960.1	
6/10/2009	9	1,058.10	957.4	
6/11/2009	9	1,060.50	959.6	
6/12/2009	9	1,067.30	965.7	
6/13/2009	9	1,064.50	963.2	
6/14/2009	9	1,064.10	962.8	
6/15/2009	9	1,060.60	959.7	
6/16/2009	9	1,064.30	963	
6/17/2009	9	1,066.50	965	
6/18/2009	9	1,064.50	963.2	
6/19/2009	9	1,062.60	961.5	
6/20/2009	9	1,070.30	968.5	
6/21/2009	9	1,073.20	971	
6/22/2009	9	1,070.40	968.5	
6/23/2009	9	684.2	619.1	
6/24/2009	9	0	0	
6/25/2009	9	0	0	
6/26/2009	9	0	0	
6/27/2009	9	0	0	
6/28/2009	9	0	0	
6/29/2009	9	0	0	
6/30/2009	9	0	0	45,620.60
7/1/2009	9	0	0	
7/2/2009	9	0	0	
7/3/2009	9	0	0	
7/4/2009	9	0	0	
7/5/2009	9	0	0	
7/6/2009	9	0	0	
7/7/2009	9	0	0	
7/8/2009	9	0	0	
7/9/2009	9	0	0	

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Daily Summary

Day	Unit #	System Fuel (MMBtu)	System Fuel (MCF)	Quarterly Total (MMBtu)
7/10/2009	9	0	0	
7/11/2009	9	0	0	
7/12/2009	9	0	0	
7/13/2009	9	0	0	
7/14/2009	9	0	0	
7/15/2009	9	0	0	
7/16/2009	9	0	0	
7/17/2009	9	0	0	
7/18/2009	9	0	0	
7/19/2009	9	0	0	
7/20/2009	9	0	0	
7/21/2009	9	0	0	
7/22/2009	9	0	0	
7/23/2009	9	0	0	
7/24/2009	9	0	0	
7/25/2009	9	0	0	
7/26/2009	9	0	0	
7/27/2009	9	0	0	
7/28/2009	9	0	0	
7/29/2009	9	0	0	
7/30/2009	9	7.1	6.4	
7/31/2009	9	0	0	
8/1/2009	9	0	0	
8/2/2009	9	0	0	
8/3/2009	9	0	0	
8/4/2009	9	0	0	
8/5/2009	9	0	0	
8/6/2009	9	0	0	
8/7/2009	9	0	0	
8/8/2009	9	0	0	
8/9/2009	9	0	0	
8/10/2009	9	0	0	
8/11/2009	9	0	0	
8/12/2009	9	0	0	
8/13/2009	9	0	0	
8/14/2009	9	0	0	
8/15/2009	9	0	0	
8/16/2009	9	0	0	
8/17/2009	9	0	0	
8/18/2009	9	0	0	
8/19/2009	9	0	0	
8/20/2009	9	0	0	
8/21/2009	9	0	0	
8/22/2009	9	0	0	
8/23/2009	9	0	0	
8/24/2009	9	0	0	
8/25/2009	9	0	0	
8/26/2009	9	0	0	
8/27/2009	9	0	0	
8/28/2009	9	0	0	
8/29/2009	9	0	0	
8/30/2009	9	0	0	
8/31/2009	9	0	0	
9/1/2009	9	0	0	
9/2/2009	9	0	0	
9/3/2009	9	0	0	
9/4/2009	9	483.4	437.4	
9/5/2009	9	1,009.00	912.9	
9/6/2009	9	1,010.70	914.6	
9/7/2009	9	1,010.20	914.1	
9/8/2009	9	428.4	387.7	
9/9/2009	9	0	0	
9/10/2009	9	0	0	
9/11/2009	9	0	0	
9/12/2009	9	0	0	
9/13/2009	9	0	0	
9/14/2009	9	0	0	

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Daily Summary

Day	Unit #	System Fuel (MMBtu)	System Fuel (MCF)	Quarterly Total (MMBtu)
9/15/2009	9	0	0	
9/16/2009	9	0	0	
9/17/2009	9	0	0	
9/18/2009	9	0	0	
9/19/2009	9	0	0	
9/20/2009	9	0	0	
9/21/2009	9	0	0	
9/22/2009	9	0	0	
9/23/2009	9	0	0	
9/24/2009	9	0	0	
9/25/2009	9	0	0	
9/26/2009	9	0	0	
9/27/2009	9	0	0	
9/28/2009	9	0	0	
9/29/2009	9	0	0	
9/30/2009	9	0	0	3,948.80
10/1/2009	9	0	0	
10/2/2009	9	0	0	
10/3/2009	9	0	0	
10/4/2009	9	0	0	
10/5/2009	9	0	0	
10/6/2009	9	0	0	
10/7/2009	9	0	0	
10/8/2009	9	0	0	
10/9/2009	9	0	0	
10/10/2009	9	0	0	
10/11/2009	9	0	0	
10/12/2009	9	683.8	618.8	
10/13/2009	9	858.1	776.5	
10/14/2009	9	1,081.60	960.6	
10/15/2009	9	1,059.20	958.4	
10/16/2009	9	1,055.50	955.1	
10/17/2009	9	758	685.9	
10/18/2009	9	1,064.30	963	
10/19/2009	9	421.8	381.7	
10/20/2009	9	0	0	
10/21/2009	9	0	0	
10/22/2009	9	0	0	
10/23/2009	9	0	0	
10/24/2009	9	0	0	
10/25/2009	9	0	0	
10/26/2009	9	0	0	
10/27/2009	9	0	0	
10/28/2009	9	0	0	
10/29/2009	9	0	0	
10/30/2009	9	0	0	
10/31/2009	9	0	0	
11/1/2009	9	0	0	
11/2/2009	9	0	0	
11/3/2009	9	0	0	
11/4/2009	9	0	0	
11/5/2009	9	0	0	
11/6/2009	9	0	0	
11/7/2009	9	0	0	
11/8/2009	9	0	0	
11/9/2009	9	0	0	
11/10/2009	9	0	0	
11/11/2009	9	0	0	
11/12/2009	9	0	0	
11/13/2009	9	0	0	
11/14/2009	9	0	0	
11/15/2009	9	0	0	
11/16/2009	9	0	0	
11/17/2009	9	0	0	
11/18/2009	9	0	0	
11/19/2009	9	0	0	
11/20/2009	9	0	0	

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Daily Summary

Day	Unit #	System Fuel (MMBtu)	System Fuel (MCF)	Quarterly Total (MMBtu)
11/21/2009	9	0	0	
11/22/2009	9	0	0	
11/23/2009	9	0	0	
11/24/2009	9	0	0	
11/25/2009	9	0	0	
11/26/2009	9	0	0	
11/27/2009	9	0	0	
11/28/2009	9	0	0	
11/29/2009	9	0	0	
11/30/2009	9	0	0	
12/1/2009	9	0	0	
12/2/2009	9	0	0	
12/3/2009	9	0	0	
12/4/2009	9	0	0	
12/5/2009	9	0	0	
12/6/2009	9	0	0	
12/7/2009	9	0	0	
12/8/2009	9	0	0	
12/9/2009	9	0	0	
12/10/2009	9	0	0	
12/11/2009	9	0	0	
12/12/2009	9	0	0	
12/13/2009	9	0	0	
12/14/2009	9	0	0	
12/15/2009	9	0	0	
12/16/2009	9	0	0	
12/17/2009	9	0	0	
12/18/2009	9	0	0	
12/19/2009	9	0	0	
12/20/2009	9	0	0	
12/21/2009	9	0	0	
12/22/2009	9	0	0	
12/23/2009	9	0	0	
12/24/2009	9	0	0	
12/25/2009	9	0	0	
12/26/2009	9	0	0	
12/27/2009	9	0	0	
12/28/2009	9	0	0	
12/29/2009	9	0	0	
12/30/2009	9	0	0	
12/31/2009	9	0	0	6,962.30
1/1/2010	9	0	0	
1/2/2010	9	0	0	
1/3/2010	9	0	0	
1/4/2010	9	0	0	
1/5/2010	9	0	0	
1/6/2010	9	0	0	
1/7/2010	9	0	0	
1/8/2010	9	0	0	
1/9/2010	9	0	0	
1/10/2010	9	0	0	
1/11/2010	9	0	0	
1/12/2010	9	0	0	
1/13/2010	9	0	0	
1/14/2010	9	0	0	
1/15/2010	9	0	0	
1/16/2010	9	0	0	
1/17/2010	9	0	0	
1/18/2010	9	0	0	
1/19/2010	9	0	0	
1/20/2010	9	0	0	
1/21/2010	9	0	0	
1/22/2010	9	0	0	
1/23/2010	9	0	0	
1/24/2010	9	0	0	
1/25/2010	9	0	0	
1/26/2010	9	0	0	

MDW34Z COGEN FUEL USAGE ALL UNITS

date of report: 7/18/2012 11:50 AM

Daily Summary

Day	Unit #	System Fuel (MMBtu)	System Fuel (MCF)	Quarterly Total (MMBtu)
1/27/2010	9	0	0	
1/28/2010	9	16.1	14.3	
1/29/2010	9	0	0	
1/30/2010	9	0	0	
1/31/2010	9	0	0	
2/1/2010	9	0	0	
2/2/2010	9	0	0	
2/3/2010	9	0	0	
2/4/2010	9	0	0	
2/5/2010	9	0	0	
2/6/2010	9	0	0	
2/7/2010	9	0	0	
2/8/2010	9	0	0	
2/9/2010	9	0	0	
2/10/2010	9	0	0	
2/11/2010	9	0	0	
2/12/2010	9	0	0	
2/13/2010	9	0	0	
2/14/2010	9	0	0	
2/15/2010	9	0	0	
2/16/2010	9	0	0	
2/17/2010	9	18	16	
2/18/2010	9	5.6	5	
2/19/2010	9	0	0	
2/20/2010	9	0	0	
2/21/2010	9	0	0	
2/22/2010	9	0	0	
2/23/2010	9	0	0	
2/24/2010	9	0	0	
2/25/2010	9	0	0	
2/26/2010	9	0	0	
2/27/2010	9	0	0	
2/28/2010	9	0	0	
3/1/2010	9	0	0	
3/2/2010	9	0	0	
3/3/2010	9	0	0	
3/4/2010	9	0	0	
3/5/2010	9	0	0	
3/6/2010	9	0	0	
3/7/2010	9	0	0	
3/8/2010	9	0	0	
3/9/2010	9	0	0	
3/10/2010	9	0	0	
3/11/2010	9	0	0	
3/12/2010	9	0	0	
3/13/2010	9	0	0	
3/14/2010	9	0	0	
3/15/2010	9	0	0	
3/16/2010	9	0	0	
3/17/2010	9	0	0	
3/18/2010	9	0	0	
3/19/2010	9	0	0	
3/20/2010	9	0	0	
3/21/2010	9	0	0	
3/22/2010	9	0	0	
3/23/2010	9	0	0	
3/24/2010	9	0	0	
3/25/2010	9	0	0	
3/26/2010	9	0	0	
3/27/2010	9	0	0	
3/28/2010	9	0	0	
3/29/2010	9	0	0	
3/30/2010	9	0	0	
3/31/2010	9	0	0	39.70
4/1/2010	9	0	0	
4/2/2010	9	0	0	
4/3/2010	9	0	0	

MDW34Z COGEN FUEL USAGE

ALL UNITS

date of report: 7/18/2012 11:50 AM

Daily Summary

Day	Unit #	System Fuel (MMBtu)	System Fuel (MCF)	Quarterly Total (MMBtu)
4/4/2010	9	0	0	
4/5/2010	9	0	0	
4/6/2010	9	0	0	
4/7/2010	9	0	0	
4/8/2010	9	0	0	
4/9/2010	9	0	0	
4/10/2010	9	0	0	
4/11/2010	9	0	0	
4/12/2010	9	0	0	
4/13/2010	9	0	0	
4/14/2010	9	0	0	
4/15/2010	9	0	0	
4/16/2010	9	0	0	
4/17/2010	9	0	0	
4/18/2010	9	0	0	
4/19/2010	9	0	0	
4/20/2010	9	0	0	
4/21/2010	9	0	0	
4/22/2010	9	0	0	
4/23/2010	9	0	0	
4/24/2010	9	0	0	
4/25/2010	9	0	0	
4/26/2010	9	0	0	
4/27/2010	9	0	0	
4/28/2010	9	0	0	
4/29/2010	9	0	0	
4/30/2010	9	0	0	
5/1/2010	9	0	0	
5/2/2010	9	0	0	
5/3/2010	9	0	0	
5/4/2010	9	0	0	
5/5/2010	9	0	0	
5/6/2010	9	0	0	
5/7/2010	9	0	0	
5/8/2010	9	0	0	
5/9/2010	9	0	0	
5/10/2010	9	0	0	
5/11/2010	9	0	0	
5/12/2010	9	0	0	
5/13/2010	9	0	0	
5/14/2010	9	0	0	
5/15/2010	9	0	0	
5/16/2010	9	0	0	
5/17/2010	9	0	0	
5/18/2010	9	0	0	
5/19/2010	9	0	0	
5/20/2010	9	0	0	
5/21/2010	9	0	0	
5/22/2010	9	0	0	
5/23/2010	9	0	0	
5/24/2010	9	0	0	
5/25/2010	9	0	0	
5/26/2010	9	0	0	
5/27/2010	9	0	0	
5/28/2010	9	0	0	
5/29/2010	9	0	0	
5/30/2010	9	0	0	
5/31/2010	9	0	0	
6/1/2010	9	0	0	
6/2/2010	9	0	0	
6/3/2010	9	0	0	
6/4/2010	9	0	0	
6/5/2010	9	0	0	
6/6/2010	9	0	0	
6/7/2010	9	0	0	
6/8/2010	9	0	0	
6/9/2010	9	0	0	

MDW34Z COGEN FUEL USAGE

ALL UNITS

date of report: 7/18/2012 11:50 AM

Daily Summary

Day	Unit #	System Fuel (MMBtu)	System Fuel (MCF)	Quarterly Total (MMBtu)
6/10/2010	9	0	0	
6/11/2010	9	0	0	
6/12/2010	9	0	0	
6/13/2010	9	0	0	
6/14/2010	9	0	0	
6/15/2010	9	0	0	
6/16/2010	9	0	0	
6/17/2010	9	0	0	
6/18/2010	9	0	0	
6/19/2010	9	0	0	
6/20/2010	9	0	0	
6/21/2010	9	0	0	
6/22/2010	9	0	0	
6/23/2010	9	0	0	
6/24/2010	9	0	0	
6/25/2010	9	0	0	
6/26/2010	9	0	0	
6/27/2010	9	0	0	
6/28/2010	9	0	0	
6/29/2010	9	0	0	
6/30/2010	9	0	0	0.00
7/1/2010	9	0	0	
7/2/2010	9	0	0	
7/3/2010	9	0	0	
7/4/2010	9	0	0	
7/5/2010	9	0	0	
7/6/2010	9	0	0	
7/7/2010	9	0	0	
7/8/2010	9	0	0	
7/9/2010	9	0	0	
7/10/2010	9	0	0	
7/11/2010	9	0	0	
7/12/2010	9	0	0	
7/13/2010	9	0	0	
7/14/2010	9	0	0	
7/15/2010	9	0	0	
7/16/2010	9	0	0	
7/17/2010	9	0	0	
7/18/2010	9	0	0	
7/19/2010	9	0	0	
7/20/2010	9	0	0	
7/21/2010	9	0	0	
7/22/2010	9	0	0	
7/23/2010	9	0	0	
7/24/2010	9	0	0	
7/25/2010	9	0	0	
7/26/2010	9	0	0	
7/27/2010	9	0	0	
7/28/2010	9	0	0	
7/29/2010	9	0	0	
7/30/2010	9	0	0	
7/31/2010	9	0	0	
8/1/2010	9	0	0	
8/2/2010	9	0	0	
8/3/2010	9	0	0	
8/4/2010	9	0	0	
8/5/2010	9	0	0	
8/6/2010	9	0	0	
8/7/2010	9	0	0	
8/8/2010	9	0	0	
8/9/2010	9	0	0	
8/10/2010	9	0	0	
8/11/2010	9	0	0	
8/12/2010	9	0	0	
8/13/2010	9	0	0	
8/14/2010	9	0	0	
8/15/2010	9	0	0	

MDW34Z COGEN FUEL USAGE

ALL UNITS

date of report: 7/18/2012 11:50 AM

Daily Summary

Day	Unit #	System Fuel (MMBtu)	System Fuel (MCF)	Quarterly Total (MMBtu)
8/16/2010	9	0	0	
8/17/2010	9	0	0	
8/18/2010	9	0	0	
8/19/2010	9	0	0	
8/20/2010	9	0	0	
8/21/2010	9	0	0	
8/22/2010	9	0	0	
8/23/2010	9	0	0	
8/24/2010	9	0	0	
8/25/2010	9	0	0	
8/26/2010	9	0	0	
8/27/2010	9	0	0	
8/28/2010	9	0	0	
8/29/2010	9	0	0	
8/30/2010	9	0	0	
8/31/2010	9	0	0	
9/1/2010	9	0	0	
9/2/2010	9	0	0	
9/3/2010	9	0	0	
9/4/2010	9	0	0	
9/5/2010	9	0	0	
9/6/2010	9	0	0	
9/7/2010	9	0	0	
9/8/2010	9	0	0	
9/9/2010	9	0	0	
9/10/2010	9	0	0	
9/11/2010	9	0	0	
9/12/2010	9	0	0	
9/13/2010	9	0	0	
9/14/2010	9	0	0	
9/15/2010	9	0	0	
9/16/2010	9	0	0	
9/17/2010	9	0	0	
9/18/2010	9	0	0	
9/19/2010	9	0	0	
9/20/2010	9	0	0	
9/21/2010	9	0	0	
9/22/2010	9	0	0	
9/23/2010	9	0	0	
9/24/2010	9	0	0	
9/25/2010	9	0	0	
9/26/2010	9	0	0	
9/27/2010	9	0	0	
9/28/2010	9	0	0	
9/29/2010	9	0	0	
9/30/2010	9	0	0	

0.00 Baseline Period 10/01/2008 to 9/30/2010

Appendix E

Summary of GTE Source Test Results during Baseline Period

Company: CHEVRON U S A INC

Test Date: 05/13/2008 Pass Fail

Permit#: S-1129-53-10 FacilityID: 1129 Unit ID: DEU CG-7 (North Midway)

Witnessed By: Area Inspector: ROACHJ

Reason For Testing:

Annual Initial CGA RATA Stationary/RATA QTR:
 ReTest RepTest AMS Dist Performed Unit Dormant
 Postponed

Test Company: AEROS ENVIRONMENTAL INC. Project Number: 104-5997

Next Test: 5/24/2012 Test Company Contact: Mr. Mike Gray

Equipment: 3.5 MW FIRED TURBINE COGEN W/ WATER INJECTION

Equipment Type: Gas Turbine Input Rate: Output Rate: 3.5 MW

Control Equipment:

Catalyst Scrubber Baghouse FGR O2
 LoNOx Incin ESP H2O/Strm Inj NH3/SCR
 DLN PSC PCC Rich Burn Lean Burn
 Cyclone TEOR-Gas

Fuel Data And Operational Data:

Fuel Type: PUC Gas F-Factor: BTU: BTU/cf Fuel Rate: MSCFD
 Second Fuel: O2 % Stack: Stack Flow: Process Rate:

Comments:

WATER RATE, TEST - 3.1 GPM, LOW 2.9, HIGH - 3.7

Enforcement Action: NOV#:

Report Rec: 06/26/2008

Reviewed By: LAFOREG

Results Sent Date: 07/02/2008

Test Results:

Pollutant	Unit	Result	Limit	O2 Correction	Failed	Unit ID
CO	ppm	4.0	41.0	15		N. MIDWAY CG-7
NOx	ppm	31.0	35.0	15		N. MIDWAY CG-7
SO2	lb/hr	0.007	0.16			N. MIDWAY CG-7

Company: CHEVRON U S A INC

Test Date: 05/21/2009

Pass Fail

Permit#: S-1129-53-10

FacilityID: 1129

Unit ID: DEU CG-7 (North Midway)

Witnessed By:

Area Inspector: ROACHJ

Reason For Testing:

Annual Initial CGA RATA Stationary/RATA QTR:
 ReTest RepTest AMS Dist Performed Unit Dormant
 Postponed

Test Company: AEROS ENVIRONMENTAL INC.

Project Number: 104-6462

Next Test: 5/24/2012

Test Company Contact: Mr. Mike Gray

Equipment: 3.5 MW FIRED TURBINE COGEN W/ WATER INJECTION

Equipment Type: Gas Turbine

Input Rate:

Output Rate: 3.5 MW

Control Equipment:

Catalyst Scrubber Baghouse FGR O2
 LoNOx Incin ESP H2O/Stm Inj NH3/SCR
 DLN PSC PCC Rich Burn Lean Burn
 Cyclone TEOR-Gas

Fuel Data And Operational Data:

Fuel Type: PUC Gas

F-Factor:

BTU: BTU/cf

Fuel Rate: MSCFD

Second Fuel:

O2 % Stack:

Stack Flow:

Process Rate:

Comments:

CG-7, WATER INJ RATE TESTT - 2.9 GPM, LOW - 2.5, HIGH - 3.4

Enforcement Action:

NOV#:

Report Rec: 07/07/2009

Reviewed By: HAULMAA

Results Sent Date: 07/20/2009

Test Results:

Pollutant	Unit	Result	Limit	O2 Correction	Failed	Unit ID
CO	ppm	5.3	41.0	15		N. MIDWAY CG-7
NOx	ppm	27.6	35.0	15		N. MIDWAY CG-7
SO2	lb/hr	0.006	0.16			N. MIDWAY CG-7

Company: CHEVRON U S A INC

Test Date: 05/25/2010

Pass Fail

Permit#: S-1129-53-10

FacilityID: 1129

Unit ID: DEU CG-7 (North Midway)

Witnessed By: ROACHJ

Area Inspector: ROACHJ

Reason For Testing:

Annual Initial CGA RATA Stationary/RATA QTR:
 ReTest RepTest AMS Dist Performed Unit Dormant
 Postponed

Test Company: AEROS ENVIRONMENTAL INC.

Project Number: 104-6963

Next Test: 5/24/2012

Test Company Contact: Mr. Mike Gray

Equipment: 3.5 MW FIRED TURBINE COGEN W/ WATER INJECTION

Equipment Type: Gas Turbine

Input Rate:

Output Rate: 3.5 MW

Control Equipment:

Catalyst Scrubber Baghouse FGR O2
 LoNOx Incin ESP H2O/Stm Inj NH3/SCR
 DLN PSC PCC Rich Burn Lean Burn
 Cyclone TEOR-Gas

Fuel Data And Operational Data:

Fuel Type: PUC Gas

F-Factor:

BTU: BTU/cf

Fuel Rate: MSCFD

Second Fuel:

O2 % Stack:

Stack Flow:

Process Rate:

Comments:

Enforcement Action:

NOV#:

Report Rec: 07/13/2010

Reviewed By: GALPENSK

Results Sent Date: 07/28/2010

Test Results:

Pollutant	Unit	Result	Limit	O2 Correction	Failed	Unit ID
CO	ppm	8.0	41.0	15		CG-7 (North Midway)
NOx	ppm	27.0	35.0	15		CG-7 (North Midway)
SO2	lb/hr	0.007	0.16			CG-7 (North Midway)

S-1129-53

Chevron U.S.A., Inc.
North Midway Field
Turbine CG-7

Project 104-6963
May 25, 2010

EPA Method 19
Sulfur Emissions as SO₂
@ 68° F & 29.92 "Hg

Unit	Sulfur in Fuel Gas as H ₂ S	Sulfur in Fuel Gas as S		Sulfur in Exhaust as SO ₂	
	ppm	gr/scf	gr/100scf	lb/hr	lb/MMBtu
CG-7	<1	<0.0006	<0.058	<0.007	<0.0001

Supporting Data

Unit	Fuel Gas		
	MMBtu/hr	MCF/day	Btu/cf
CG-7	45.46	969	1126



Chevron U.S.A., Inc.
Turbine CG-7
Natural Gas

Sampled by: Jesus Garcia

Project 104-6963
Laboratory ID 10-209-01

Date Sampled: May 25, 2010
 Date Received: May 25, 2010
 Date Analyzed: May 25, 2010

Fuel Gas Analysis Results

CONSTITUENT	MOLE %	WT. %	CHONS Wt.%	
Oxygen	0.000	0.000	Carbon	72.92
Nitrogen	0.726	1.042	Hydrogen	21.99
Carbon Dioxide	2.466	5.564	Oxygen	4.05
Carbon Monoxide	0.000	0.000	Nitrogen	1.04
Hydrogen Sulfide	0.000	0.000	Sulfur	0.00
Methane	82.004	67.447	H/C	0.302
Ethane	11.150	17.188		
Propane	3.098	6.999	H ₂ S ppmv	H ₂ S gr/100 SCF*
Isobutane	0.163	0.486	ND < 1	ND < 0.06
N-Butane	0.272	0.811		
Isopentane	0.040	0.148	TRS ppmv	TRS gr/100 SCF*
N-Pentane	0.072	0.267	ND < 1	ND < 0.06
Hexanes	0.011	0.047		
Total(s)	100.000	100.000	* Reported as Sulfur	

Specific Gravity (Air = 1)	0.6735
Specific Volume (cf/lb)	19.46
Gross Calorific Value, Dry (Btu/cf)	1125.90
Gross Calorific Value, Wet (Btu/cf)	1103.07
Gross Calorific Value, Dry (Btu/lb)	21906.26
Net Calorific Value, Dry (Btu/cf)	1018.58
Net Calorific Value, Wet (Btu/cf)	997.90
Compressibility Factor "Z" @ 60° F, 1 atm	0.9971

EPA F-Factor @ 68° F (DSCF/MMBtu)	8669
EPA F-Factor @ 60° F (DSCF/MMBtu)	8539

References:

ASTM Methods D1945-03, D3588-98 (2003), D6228-98 (2003)
 Double GC, TCD, FPD
 TRS = Total Reduced Sulfur as H₂S

Lisa Marriott-Smith
 Lisa Marriott-Smith, Laboratory Manager

"Professional Air Emissions Testing and Analytical Services"

18826 Highway 65 • Bakersfield, CA 93308
 (661) 391-0112 • (661) 391-0153 Fax

Company: CHEVRON U S A INC

Test Date: 05/13/2008

Pass Fail

Permit#: S-1129-54-11

FacilityID: 1129

Unit ID: DEU CG-8 (North Midway)

Witnessed By:

Area Inspector: ROACHJ

Reason For Testing:

Annual Initial CGA RATA Stationary/RATA QTR:
 ReTest RepTest AMS Dist Performed Unit Dormant
 Postponed

Test Company: AEROS ENVIRONMENTAL INC.

Project Number: 104-5997

Next Test: 5/24/2011

Test Company Contact: Mr. Mike Gray

Equipment: 3.5 MW GAS FIRED TURBINE COGEN W/ WATER INJECTION

Equipment Type: Gas Turbine

Input Rate:

Output Rate: 3.5 MW

Control Equipment:

Catalyst Scrubber Baghouse FGR O2
 LoNOx Incin ESP H2O/Stm Inj NH3/SCR
 DLN PSC PCC Rich Burn Lean Burn
 Cyclone TEOR-Gas

Fuel Data And Operational Data:

Fuel Type: PUC Gas

F-Factor:

BTU: BTU/cf

Fuel Rate: MSCFD

Second Fuel:

O2 % Stack:

Stack Flow:

Process Rate:

Comments:

WATER INJ RATE TEST - 2.7 GPM, LOW - 2.3 GPM, HIGH - 3.6 GPM

Enforcement Action:

NOV#:

Report Rec: 06/26/2008

Reviewed By: LAFOREG

Results Sent Date: 07/02/2008

Test Results:

Pollutant	Unit	Result	Limit	O2 Correction	Failed	Unit ID
CO	ppm	5.1	41.0	15		N. MIDWAY CG-8
NOx	ppm	28.1	35.0	15		N. MIDWAY CG-8
SO2	lb/hr	0.007	0.16			N. MIDWAY CG-8

Company: CHEVRON U S A INC

Test Date: 05/20/2009

Pass Fail

Permit#: S-1129-54-11

FacilityID: 1129

Unit ID: DEU CG-8 (North Midway)

Witnessed By:

Area Inspector: John Roach

Reason For Testing:

Annual Initial CGA RATA Stationary/RATA QTR:
 ReTest RepTest AMS Dist Performed Unit Dormant
 Postponed

Test Company: AEROS ENVIRONMENTAL INC.

Project Number: 104-6462

Next Test: 5/24/2011

Test Company Contact: Mr. Mike Gray

Equipment: 3.5 MW GAS FIRED TURBINE COGEN W/ WATER INJECTION

Equipment Type: Gas Turbine

Input Rate:

Output Rate: 3.5 MW

Control Equipment:

Catalyst Scrubber Baghouse FGR O2
 LoNOx Incin ESP H2O/Stm Inj NH3/SCR
 DLN PSC PCC Rich Burn Lean Burn
 Cyclone TEOR-Gas

Fuel Data And Operational Data:

Fuel Type: PUC Gas F-Factor: BTU: BTU/cf Fuel Rate: MSCFD
 Second Fuel: O2 % Stack: Stack Flow: Process Rate:

Comments:

CG-8, WATER INJ RATE TEST - 3.2 GPM, LOW 2.8, HIGH -3.8

Enforcement Action: NOV#:

Report Rec: 07/07/2009

Reviewed By: HAULMAA

Results Sent Date: 07/20/2009

Test Results:

Pollutant	Unit	Result	Limit	O2 Correction	Failed	Unit ID
CO	ppm	4.5	41.0	15		N. MIDWAY CG-8
NOx	ppm	28.3	35.0	15		N. MIDWAY CG-8
SO2	lb/hr	0.007	0.16			N. MIDWAY CG-8

Company: CHEVRON U S A INC

Test Date: 05/28/2010 Pass Fail

Permit#: S-1129-54-11 FacilityID: 1129 Unit ID: DEU CG-8 (North Midway)

Witnessed By: HOLMESD Area Inspector: ROACHJ

Reason For Testing:

Annual Initial CGA RATA Stationary/RATA QTR:
 ReTest RepTest AMS Dist Performed Unit Dormant
 Postponed

Test Company: AEROS ENVIRONMENTAL INC.

Project Number: 104-6963

Next Test: 5/24/2011

Test Company Contact: Mr. Mike Gray

Equipment: 3.5 MW GAS FIRED TURBINE COGEN W/ WATER INJECTION

Equipment Type: Gas Turbine

Input Rate:

Output Rate: 3.5 MW

Control Equipment:

Catalyst Scrubber Baghouse FGR O2
 LoNOx Incin ESP H2O/Strm Inj NH3/SCR
 DLN PSC PCC Rich Burn Lean Burn
 Cyclone TEOR-Gas

Fuel Data And Operational Data:

Fuel Type: PUC Gas F-Factor: BTU: BTU/cf Fuel Rate: MSCFD
 Second Fuel: O2 % Stack: Stack Flow: Process Rate:

Comments:

Enforcement Action: NOV#:

Report Rec: 07/13/2010

Reviewed By: GALPENSK

Results Sent Date: 07/28/2010

Test Results:

Pollutant	Unit	Result	Limit	O2 Correction	Failed	Unit ID
CO	ppm	7.3	41.0	15		CG-8 (North Midway)
NOx	ppm	21.4	35.0	15		CG-8 (North Midway)
SO2	lb/hr	0.007	0.16			CG-8 (North Midway)

S-1129-54

Chevron U.S.A., Inc.
North Midway Field
Turbine CG-8

Project 104-6963
May 26, 2010

EPA Method 19
Sulfur Emissions as SO₂
@ 68° F & 29.92 "Hg

Unit	Sulfur in Fuel Gas as H ₂ S	Sulfur in Fuel Gas as S		Sulfur in Exhaust as SO ₂	
	ppm	gr/scf	gr/100scf	lb/hr	lb/MMBtu
CG-8	<1	<0.0006	<0.058	<0.007	<0.0007

Supporting Data

Unit	Fuel Gas		
	MMBtu/hr	MCF/day	Btu/cf
CG-8	44.64	960	1116



Chevron U.S.A., Inc.
Turbine CG-8
Natural Gas

Sampled by: Raul Corona

Project 104-6963
Laboratory ID 10-209-05

Date Sampled: May 26, 2010
 Date Received: May 27, 2010
 Date Analyzed: May 27, 2010

Fuel Gas Analysis Results

CONSTITUENT	MOLE %	WT. %	CHONS WT. %	
Oxygen	0.000	0.000	Carbon	72.56
Nitrogen	1.158	1.874	Hydrogen	21.99
Carbon Dioxide	2.285	5.180	Oxygen	3.77
Carbon Monoxide	0.000	0.000	Nitrogen	1.87
Hydrogen Sulfide	0.000	0.000	Sulfur	0.00
Methane	82.593	68.391	H/C	0.303
Ethane	10.394	16.131		
Propane	3.003	6.835	H ₂ S ppmv	H ₂ S gr/100 SCF*
Isobutane	0.187	0.560	ND < 1	ND < 0.06
N-Butane	0.291	0.872		
Isopentane	0.048	0.178	TRS ppmv	TRS gr/100 SCF*
N-Pentane	0.031	0.116	ND < 1	ND < 0.06
Hexanes	0.012	0.054		
Total(s)	100.000	100.000	* Reported as Sulfur	

Specific Gravity (Air = 1)	0.6689
Specific Volume (cf/lb)	19.59
Gross Calorific Value, Dry (Btu/cf)	1116.12
Gross Calorific Value, Wet (Btu/cf)	1093.55
Gross Calorific Value, Dry (Btu/lb)	21863.02
Net Calorific Value, Dry (Btu/cf)	1009.51
Net Calorific Value, Wet (Btu/cf)	989.10
Compressibility Factor "Z" @ 60° F, 1 atm	0.9972
EPA F-Factor @ 68° F (DSCF/MMBtu)	8670
EPA F-Factor @ 60° F (DSCF/MMBtu)	8540

References:

ASTM Methods D1945-03, D3588-98 (2003), D6228-98 (2003)
 Double GC, TCD, FPD
 TRS = Total Reduced Sulfur as H₂S

Lisa Marriott-Smith
 Lisa Marriott-Smith, Laboratory Manager

"Professional Air Emissions Testing and Analytical Services"

18928 Highway 65 • Bakersfield, CA 93308
 (661) 391-0112 • (661) 391-0153 Fax

Company: CHEVRON U S A INC

Test Date: 05/13/2008

Pass Fail

Permit#: S-1129-55-10

FacilityID: 1129

Unit ID: N. MIDWAY CG-9

Witnessed By:

Area Inspector: ROACHJ

Reason For Testing:

Annual Initial CGA RATA Stationary/RATA QTR:
 ReTest RepTest AMS Dist Performed Unit Dormant
 Postponed

Test Company: AEROS ENVIRONMENTAL INC.

Project Number: 104-5997

Next Test:

Test Company Contact: Mr. Mike Gray

Equipment: 3.5 MW COMBINED CYCLE GAS TURBINE TOPPING CYCLE COGENERATION NORTH MIDWAY UNIT #9

Equipment Type: Gas Turbine

Input Rate:

Output Rate: 3.5 MW

Control Equipment:

Catalyst Scrubber Baghouse FGR O2
 LoNOx Incin ESP H2O/Stm Inj NH3/SCR
 DLN PSC PCC Rich Burn Lean Burn
 Cyclone TEOR-Gas

Fuel Data And Operational Data:

Fuel Type: Nat. Gas

F-Factor: 8667

BTU: 1111.0 BTU

Fuel Rate: 955.0 MCFD

Second Fuel:

O2 % Stack: 15.6

Stack Flow: 25088

Process Rate:

Comments:

WATER INJ RATE TEST - 2.8 GHPM, LOW - 2.5 GPM, HIGH - 3.4 GPM

Enforcement Action:

NOV#:

Report Rec: 06/26/2008

Reviewed By: LAFOREG

Results Sent Date: 07/02/2008

Test Results:

Pollutant	Unit	Result	Limit	O2 Correction	Failed	Unit ID
CO	ppm	3.4	41.0	15		Turbines CG-9
NOx	ppm	29.5	35.0	15		Turbines CG-9
SO2	lb/hr	0.007	0.16			Turbines CG-9

Company: CHEVRON U S A INC

Test Date: 05/20/2009

Pass Fail

Permit#: S-1129-55-10

FacilityID: 1129

Unit ID: DEU - CG-9 (North Midway)

Witnessed By:

Area Inspector: John Roach

Reason For Testing:

Annual Initial CGA RATA Stationary/RATA QTR:
 ReTest RepTest AMS Dist Performed Unit Dormant
 Postponed

Test Company: AEROS ENVIRONMENTAL INC.

Project Number: 104-6462

Next Test: 5/24/2011

Test Company Contact: Mr. Mike Gray

Equipment: 3.5 MW gas-fired cogeneration turbine with H2O injection

Equipment Type: Gas Turbine

Input Rate:

Output Rate: 3.5 MW

Control Equipment:

Catalyst Scrubber Baghouse FGR O2
 LoNOx Incin ESP H2O/Strm Inj NH3/SCR
 DLN PSC PCC Rich Burn Lean Burn
 Cyclone TEOR-Gas

Fuel Data And Operational Data:

Fuel Type: PUC Gas

F-Factor: 8662

BTU: 1115.0 BTU/cf

Fuel Rate: 966.0 MSCFD

Second Fuel:

O2 % Stack: 15.1

Stack Flow: 23347

Process Rate:

Comments:

CG-9, WATER INJ RATE TEST - 3.3 GPM, LOW - 2.9, HIGH - 3.8

Enforcement Action:

NOV#:

Report Rec: 07/07/2009

Reviewed By: HAULMAA

Results Sent Date: 07/20/2009

Test Results:

Pollutant	Unit	Result	Limit	O2 Correction	Failed	Unit ID
CO	ppm	3.6	41.0	15		N. MIDWAY CG-9
NOx	ppm	26.0	35.0	15		N. MIDWAY CG-9
SO2	lb/hr	0.007	0.16			N. MIDWAY CG-9

Appendix F

AP-42, Chapter 3, Section 3.1, Table 3.1-2a

Table 3.1-2a. EMISSION FACTORS FOR CRITERIA POLLUTANTS AND GREENHOUSE GASES FROM STATIONARY GAS TURBINES

Emission Factors ^a - Uncontrolled				
Pollutant	Natural Gas-Fired Turbines ^b		Distillate Oil-Fired Turbines ^d	
	(lb/MMBtu) ^c (Fuel Input)	Emission Factor Rating	(lb/MMBtu) ^e (Fuel Input)	Emission Factor Rating
CO ₂ ^f	110	A	157	A
N ₂ O	0.003 ^g	E	ND	NA
Lead	ND	NA	1.4 E-05	C
SO ₂	0.94S ^h	B	1.01S ^h	B
Methane	8.6 E-03	C	ND	NA
VOC	2.1 E-03	D	4.1 E-04 ⁱ	E
TOC ^k	1.1 E-02	B	4.0 E-03 ^l	C
PM (condensable)	4.7 E-03 ^l	C	7.2 E-03 ^l	C
PM (filterable)	1.9 E-03 ^l	C	4.3 E-03 ^l	C
PM (total)	6.6 E-03 ^l	C	1.2 E-02 ^l	C

^a Factors are derived from units operating at high loads (≥ 80 percent load) only. For information on units operating at other loads, consult the background report for this chapter (Reference 16), available at "www.epa.gov/ttn/chief". ND = No Data, NA = Not Applicable.

^b SCCs for natural gas-fired turbines include 2-01-002-01, 2-02-002-01 & 03, and 2-03-002-02 & 03.

^c Emission factors based on an average natural gas heating value (HHV) of 1020 Btu/scf at 60°F. To convert from (lb/MMBtu) to (lb/10⁶ scf), multiply by 1020. Similarly, these emission factors can be converted to other natural gas heating values.

^d SCCs for distillate oil-fired turbines are 2-01-001-01, 2-02-001-01, 2-02-001-03, and 2-03-001-02.

^e Emission factors based on an average distillate oil heating value of 139 MMBtu/10³ gallons. To convert from (lb/MMBtu) to (lb/10³ gallons), multiply by 139.

^f Based on 99.5% conversion of fuel carbon to CO₂ for natural gas and 99% conversion of fuel carbon to CO₂ for distillate oil. CO₂ (Natural Gas) [lb/MMBtu] = (0.0036 scf/Btu)(%CON)(C)(D), where %CON = weight percent conversion of fuel carbon to CO₂, C = carbon content of fuel by weight, and D = density of fuel. For natural gas, C is assumed at 75%, and D is assumed at 4.1 E+04 lb/10⁶scf. For distillate oil, CO₂ (Distillate Oil) [lb/MMBtu] = (26.4 gal/MMBtu) (%CON)(C)(D), where C is assumed at 87%, and the D is assumed at 6.9 lb/gallon.

^g Emission factor is carried over from the previous revision to AP-42 (Supplement B, October 1996) and is based on limited source tests on a single turbine with water-steam injection (Reference 5).

^h All sulfur in the fuel is assumed to be converted to SO₂. S = percent sulfur in fuel. Example, if sulfur content in the fuel is 3.4 percent, then S = 3.4. If S is not available, use 3.4 E-03 lb/MMBtu for natural gas turbines, and 3.3 E-02 lb/MMBtu for distillate oil turbines (the equations are more accurate).

ⁱ VOC emissions are assumed equal to the sum of organic emissions.

^k Pollutant referenced as THC in the gathered emission tests. It is assumed as TOC, because it is based on EPA Test Method 25A.

^l Emission factors are based on combustion turbines using water-steam injection.

Appendix G

Calculation Spreadsheet of Historical Actual Emissions and Bankable Emissions

S-1129-53 CG-7

Fuel Use	MMBtu
1 st Quarter	52481
2 nd Quarter	37556
3 rd Quarter	46986
4 th Quarter	67716

	VOC	NO _x	CO	PM10	SO _x	CO ₂ E
Units	lb/MMBtu	lb/MMBtu	lb/MMBtu	lb/MMBtu	lb/MMBtu	Mt/MMBtu
1 st Quarter	0.0021	0.0184	0.013	0.0066	0.0001	0.05307
2 nd Quarter	0.0021	0.0184	0.013	0.0066	0.0001	0.05307
3 rd Quarter	0.0021	0.0184	0.013	0.0066	0.0001	0.05307
4 th Quarter	0.0021	0.0184	0.013	0.0066	0.0001	0.05307

Actual Emisissions

	VOC	NO _x	CO	PM10	SO _x	CO ₂ E
	lb/quarter	lb/quarter	lb/quarter	lb/quarter	lb/quarter	Mt/quarter
1 st Quarter	110	966	682	346	5	2785
2 nd Quarter	79	691	488	248	4	1993
3 rd Quarter	99	865	611	310	5	2494
4 th Quarter	142	1246	880	447	7	3594
MT/year						10,865

AQID

	VOC	NO _x	CO	PM10	SO _x
	lb/quarter	lb/quarter	lb/quarter	lb/quarter	lb/quarter
1 st Quarter	11	97	68	35	1
2 nd Quarter	8	69	49	25	0
3 rd Quarter	10	86	61	31	0
4 th Quarter	14	125	88	45	1

Bankable Criteria Emission Reduction Credits

	VOC	NO _x	CO	PM10	SO _x
	lb/quarter	lb/quarter	lb/quarter	lb/quarter	lb/quarter
1 st Quarter	99	869	614	312	5
2 nd Quarter	71	622	439	223	3
3 rd Quarter	89	778	550	279	4
4 th Quarter	128	1121	792	402	6

S-1129-54 CG-8

Fuel Use	MMBtu
1 st Quarter	57208
2 nd Quarter	79569
3 rd Quarter	92368
4 th Quarter	93208

	VOC	NO _x	CO	PM10	SO _x	CO ₂ E
Units	lb/MMBtu	lb/MMBtu	lb/MMBtu	lb/MMBtu	lb/MMBtu	Mt/MMBtu
1 st Quarter	0.0021	0.0184	0.0126	0.0066	0.0001	0.05307
2 nd Quarter	0.0021	0.0184	0.0126	0.0066	0.0001	0.05307
3 rd Quarter	0.0021	0.0184	0.0126	0.0066	0.0001	0.05307
4 th Quarter	0.0021	0.0184	0.0126	0.0066	0.0001	0.05307

Actual Emisissions

	VOC	NO _x	CO	PM10	SO _x	CO ₂ E
	lb/quarter	lb/quarter	lb/quarter	lb/quarter	lb/quarter	Mt/quarter
1 st Quarter	120	1053	721	378	6	3036
2 nd Quarter	167	1464	1003	525	8	4223
3 rd Quarter	194	1700	1164	610	9	4902
4 th Quarter	196	1715	1174	615	9	4947
MT/year						17,107

AQID

	VOC	NO _x	CO	PM10	SO _x
	lb/quarter	lb/quarter	lb/quarter	lb/quarter	lb/quarter
1 st Quarter	12	105	72	38	1
2 nd Quarter	17	146	100	53	1
3 rd Quarter	19	170	116	61	1
4 th Quarter	20	172	117	62	1

Bankable Criteria Emission Reduction Credits

	VOC	NO _x	CO	PM10	SO _x
	lb/quarter	lb/quarter	lb/quarter	lb/quarter	lb/quarter
1 st Quarter	108	947	649	340	5
2 nd Quarter	150	1318	902	473	7
3 rd Quarter	175	1530	1047	549	8
4 th Quarter	176	1544	1057	554	8

S-1129-55 CG-9

Fuel Use	MMBtu
1 st Quarter	10068
2 nd Quarter	22810
3 rd Quarter	1974
4 th Quarter	8602

	VOC	NO _x	CO	PM10	SO _x	CO ₂ E
Units	lb/MMBtu	lb/MMBtu	lb/MMBtu	lb/MMBtu	lb/MMBtu	Mt/MMBtu
1 st Quarter	0.0021	0.0184	0.0078	0.0066	0.0001	0.05307
2 nd Quarter	0.0021	0.0184	0.0078	0.0066	0.0001	0.05307
3 rd Quarter	0.0021	0.0184	0.0078	0.0066	0.0001	0.05307
4 th Quarter	0.0021	0.0184	0.0078	0.0066	0.0001	0.05307

Actual Emisissions

	VOC	NO _x	CO	PM10	SO _x	CO ₂ E
	lb/quarter	lb/quarter	lb/quarter	lb/quarter	lb/quarter	Mt/quarter
1 st Quarter	21	185	79	66	1	534
2 nd Quarter	48	420	178	151	2	1211
3 rd Quarter	4	36	15	13	0	105
4 th Quarter	18	158	67	57	1	457
MT/year						2,306

AQID

	VOC	NO _x	CO	PM10	SO _x
	lb/quarter	lb/quarter	lb/quarter	lb/quarter	lb/quarter
1 st Quarter	2	19	8	7	0
2 nd Quarter	5	42	18	15	0
3 rd Quarter	0	4	2	1	0
4 th Quarter	2	16	7	6	0

Bankable Criteria Emission Reduction Credits

	VOC	NO _x	CO	PM10	SO _x
	lb/quarter	lb/quarter	lb/quarter	lb/quarter	lb/quarter
1 st Quarter	19	167	71	60	1
2 nd Quarter	43	378	160	135	2
3 rd Quarter	4	33	14	12	0
4 th Quarter	16	142	60	51	1

Total AER						
	VOC	NO _x	CO	PM10	SOx	CO ₂ E
	lb/quarter	lb/quarter	lb/quarter	lb/quarter	lb/quarter	Mt/quarter
1 st Quarter	251	2204	1482	790	12	
2 nd Quarter	294	2575	1669	924	14	
3 rd Quarter	297	2600	1790	933	14	
4 th Quarter	356	3119	2122	1119	17	

Total AQID						
	VOC	NO _x	CO	PM10	SOx	CO ₂ E
	lb/quarter	lb/quarter	lb/quarter	lb/quarter	lb/quarter	Mt/quarter
1 st Quarter	25	220	148	79	1	
2 nd Quarter	29	257	167	92	1	
3 rd Quarter	30	260	179	93	1	
4 th Quarter	36	312	212	112	2	

Total Bankable Emission Reduction Credits						
	VOC	NO _x	CO	PM10	SOx	CO ₂ E
	lb/quarter	lb/quarter	lb/quarter	lb/quarter	lb/quarter	Mt/quarter
1 st Quarter	226	1983	1333	711	11	
2 nd Quarter	264	2317	1502	831	13	
3 rd Quarter	267	2340	1611	839	13	
4 th Quarter	320	2807	1910	1007	15	
MT/year						30,279