DOCKETED

Docket Number:	85-AFC-05C
Project Title:	Compliance - Application for Certification of the (BAF) American I Cogeneration Project AFC
TN #:	203033
Document Title:	Final Revised Peition for Calpine King City Cogen Amemdment for Air Quality; 3.17.2014
Description:	Calpine KIng City Cogeneration Final Revised Peition to Amend for Air Quality and additional information
Filer:	Eric Veerkamp
Organization:	California Energy Commission / CKC
Submitter Role:	Commission Staff
Submission Date:	9/3/2014 4:06:34 PM
Docketed Date:	9/3/2014

CALPINE KING CITY COGEN, LLC
750 METZ ROAD
KING CITY, CA 93930
(831) 385-7943 PHONE
(831) 385-6683 FAX

March 17, 2014

Joe Douglas
Compliance Project Manager
California Energy Commission
1516 9th Street, MS 2000
Sacramento, CA 95814

RE: Calpine King City Cogen Project (85-AFC-5C) – Staff Request for Additional Information Relating to Petition to Amend for Air Quality

Dear Mr. Douglas

This letter is in response to data request of October 22, 2013 requesting additional information relating to the *Petition to Amend Commission Decision Conditions of Certification Docket No. 85-AFC-5* filed by Calpine King City Cogen, LLC ("CKCC") on April 20, 2011 (hereinafter, "Original Petition"). The Original Petition and subsequent submittals by CKCC addressed modification of the California Energy Commission's ("Commission") final decision approving certification ("Final Decision") of the King City Cogen Project ("KCC") to conform with changes made to the conditions set forth in the Title V Operating Permit for the facility. Responses to each request set forth in your October 22, 2013 letter are set forth below.

Data Request

1. Please provide any technical analyses performed by the Monterey Bay Unified Air Pollution Control District (MBUAPCD) pertaining to any of the proposed modifications.

Please see the enclosed evaluation report pertaining to the analysis performed by the Monterey Bay Unified Air Pollution Control District ("MBUAPCD" or the "District") with respect to the KCC facility.

2. Please provide a letter or statement from the MBUAPCD approving any changes to the Energy Commission approved ambient air quality monitoring requirements as specified in Condition of Certification AQ-44..

CKCC has reached out to the MBUAPCD to obtain further information regarding the District's decision to modify the ambient air quality requirements for the air monitoring station that the District operates in the area near the KCC facility. The District has indicated that it modified the pollutants that it was monitoring in January 1996. According to the District, at

some point prior to January 1996 the original air monitoring station was destroyed in a flood. Subsequently, it was replaced and relocated. At that time, the District stopped monitoring certain pollutants.

Please see the enclosed the current monitoring agreement, reflecting the District's approval of the change in the pollutants that it monitors.

Please let me know if you have any further questions. You can reach me at 408-337-3429 or fparra@calpine.com .

Sincerely,

Fernando Parra
General Manager
Authorized Signatory

CC: Barbara McBride, Calpine Corp.

Enclosure(s)

EVALUATION REPORT

PRELIMINARY DECISION ON PROPOSED PERMIT MODIFICATIONS

FOR

CALPINE KING CITY COGEN, LLC
750 METZ ROAD
KING CITY, CALIFORNIA

&

GILROY ENERGY CENTER, LLC FOR KING CITY
51 DON BATES WAY
KING CITY, CALIFORNIA

APPLICATION NUMBERS 14716, 14717, 14743, 14744, & TV38-02

PREPARED BY

MIKE SEWELL
AIR QUALITY ENGINEER

MONTEREY BAY UNIFIED
AIR POLLUTION CONTROL DISTRICT
24580 SILVER CLOUD COURT
MONTEREY, CA 93940
(831) 647-9411

AUTHORIZED FOR RELEASE ON: September 24, 2010

APPROVED BY: _____ Lance Ericksen, Engineering Division Manager

DATE: 9/23/10

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EVALUATION DATA

Company: Calpine King City Cogen, LLC

Address: 750 Metz Road
King City, CA 93930

Contact Person: Maria Barroso
District Engineer: Mike Sewell
Start: 8/27/10
Finish: 9/24/10

Site Location: 750 Metz Road & 51 Don Bates Way
King City, California

Appl #s: 14716, 14717, 14743, 14744, & TV38-02
UTM Coordinates:
Horizontal: 668.8
Vertical: 4010.9

SIC Code: 4911
SCC Code: 1-01-006-01

I. PROJECT DESCRIPTION

Calpine King City Cogeneration, LLC (CKCC) and Gilroy Energy Center, LLC for King City (GEC) have submitted applications to amend their District permits and the combined Title V permit for these facilities.

CKCC and GEC have requested a number of permit amendments to address required federal and state mandated performance testing, along with periodic turbine and boiler tuning activities which conflict with existing permit requirements. These requested amendments are identified and discussed later in this document. However, none of the requested changes will impact cumulative emissions from the facilities.

II. APPLICABLE REQUIREMENTS

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III. PROPOSED CHANGES & DISTRICT ANALYSIS

The applicant has proposed the following changes:

1. *Revise the Title V Permit and the Permit to Operate for the Cogeneration Unit to include a condition that the hourly, daily, and concentration limits do not apply during periods of combustor tunning, balancing, and testing periods, or regulatory mandated performance testing periods. Testing shall not exceed 100 hours per year.*

   Including this requested change will allow the facility to comply with all regulatory mandated testing and to ensure that the unit is operating as efficiently as possible. This change will have no impact on cumulative emissions from the facility. The District proposes to make this change; however, the condition will read as follows:

   The hourly, daily, and concentration limits do not apply during periods of combustor tunning, balancing, or regulatory mandated performance testing periods. These periods shall not exceed 100 hours per year.

2. *Revise the Title V Permit and the Permit to Operate for the Cogeneration Unit to clarify the startup and shutdown condition. The facility has requested the condition be updated as follows:*

   The turbine shall undergo no more than one cold startup and one shutdown per day ; provide, however, that if the Frame 7 turbine should experience an unanticipated shutdown event on a given day due to an equipment malfunction, operator error or any other reason, it may startup again and subsequently shutdown on that same day.

   After discussing this requested condition change with the facility, the District and the facility agree that it would be appropriate to eliminate this condition. The removal of this condition will have no impact on actual emissions from the facility.

3. *Revise the Title V Permit and the Permit to Operate for the Peaker to include a condition that the hourly, daily, and concentration limits do not apply during periods of combustor tunning, balancing, and testing periods, or regulatory*

mandated performance testing periods. Testing shall not exceed 100 hours per year.

Including this requested change will allow the facility to comply with all regulatory mandated testing and to ensure that the unit is operating as efficiently as possible. This change will have no impact on cumulative emissions from the facility. The District proposes to make this change; however, the condition will read as follows:

The hourly, daily, and concentration limits do not apply during periods of combustor tunning, balancing, or regulatory mandated performance testing periods. These periods shall not exceed 100 hours per year.

4. *Revise the Title V Permit and the Permits to Operate for the Cogneration Unit and the Peaker to allow 45 days (in lieu of 30 days) for the submittal of required reports.*

Allowing an additional 15 days for the submittal of reports is an administrative change and will have no impact. The District proposes to make these changes as requested.

5. *Revise the Title V Permit and the Permits to Operate for the Boilers to include a condition that the hourly, daily, and concentration limits do not apply during periods of boiler tuning. Boiler tuning shall not exceed 50 hours per year.*

Including this requested change will allow the facility to ensure that the boilers are operating as efficiently as possible. This change will have no impact on cumulative emissions from the facility. The District proposes to make this change as requested.

IV. EQUIPMENT LIST

No change in the listed equipment.

V. AIR QUALITY IMPACT ANALYSIS

Screen was run for each of the sources to determine maximum concentrations to perform an Air Quality Impact Analysis (AQIA). Although the points of maximum concentrations for each of the sources were different locations, each of the maximum concentrations were combined to be conservative.

The first table addresses the Air Quality Increment in Area E (where the facility is located and where maximum impacts occur), the second addresses the Air Quality Increment for Area A (the Pinnacles National Monument and the Ventana Wilderness Area). The third table is a comparison of the project impacts combined with background concentrations versus the ambient air quality standards.

Increment Analysis - Area E

Pollutant	Maximum Modeled Impact Area E (ug/m^3)	Designated Area E (ug/m^3)	Averaging Period	Below Allowable Increment Consumption
Carbon Monoxide (CO)	144.8	12,000	1-hour	yes
Nitrogen Dioxide (NO_2)	1.2	25	annual	yes
TSP	0.0 0.0	19 37	annual 24-hour	yes yes
PM_{10}	0.0 0.0	10.8 21.1	annual 24-hour	yes yes
Sulfur Dioxide (SO_2)	0.0 0.0 0.0	20 91 512	annual 24-hour 3-hour	yes yes yes

Increment Analysis - Area A

Pollutant	Maximum Modeled Impact Area E[1] (ug/m^3)	Designated Areas A (ug/m^3)	Averaging Period	Below Allowable Increment Consumption
Carbon Monoxide (CO)	144.8	4,000	1-hour	yes
Nitrogen Dioxide (NO_2)	1.2	2.5	annual	yes
TSP	0.0 0.0	5 10	annual 24-hour	yes yes
PM_{10}	0.0 0.0	2.8 5.7	annual 24-hour	yes yes
Sulfur Dioxide (SO_2)	0.0 0.0 0.0	2 5 25	annual 24-hour 3-hour	yes yes yes

Note: [1] - Maximum impact occurred in Area E. This maximum Area E impact was also utilized to determine increment consumption for Area A.

The two tables above indicate that this project does not exceed any air quality increment. Therefore, the project complies with the air quality increment provisions of Rule 207.

Cumulative Impacts Vs. Ambient Air Quality Standards

Pollutant	Avg. Period	Max. Project Impact (ug/m^3)	Bckgnd Conc. (ug/m^3)	Total Impact (ug/m^3)	State Standard (ug/m^3)	Federal Standard (ug/m^3)	Below Applicable Standard(s)
Carbon Monoxide (CO)	1-hour 8-hour	144.8 43.4	4,255 1,265	4,399.8 1,308.4	23,000 10,000	40,000 10,000	yes yes
Nitrogen Dioxide (NO_2)	1-hour annual	12.0 1.2	112.8 11.28	124.8 12.48	470 --	-- 100	yes yes

The table above identifies that the project emission concentrations when combined with background concentrations do not exceed the ambient air quality standards. Therefore, the project as proposed complies with the Ambient Air Quality Standard provisions of Rule 207.

Visibility Impacts

A visibility analysis of the project's gaseous emissions is required under Rule 207. The analysis addresses the contributions of gaseous emissions (primarily NO_x) and particulate (PM_{10}) emissions to visibility impairment on the nearest Class A areas, which are the Ventana Wilderness Area and the Pinnacles National Monument to the west and north, respectively. Calpine used the EPA approved model VISCREEN to assess the project's visibility impacts. The results from the VISCREEN modeling analysis indicated that the project's visibility impacts would be below the significance criteria for contrast and perception . Therefore the project's visibility impacts on these Class A areas are considered insignificant.

VI. EMISSIONS CALCULATIONS

Rule 207 Review of New or Modified Sources

Daily emissions could increase from these proposed changes. The following tables list uncontrolled and controlled emissions and worst case emission increases based upon the assumption that each of the units could operate in start-up mode for a continuous 24 hour period.

Frame 7 Emissions

EQUIPMENT	POLLUTANT	EMISSION RATE (lb/hr)	DAILY EMISSIONS (lbs)	EMISSIONS INCREASE (lbs)
Frame 7 Baseload	NO_x	31.0	744.0	---
	SO_x	0.2	4.8	---
	VOC	1.5	36.0	---
	CO	22.9	549.6	—
	PM_{10}/TSP	2.5	60.0	---
Frame 7 Start-up	NO_x	155.0	3,720.0	2,976
	SO_x	0.2	SO_x	0.0
	VOC	1.5	36.0	0.0
	CO	22.9	549.6	0.0
	PM_{10}/TSP	2.5	60.0	0.0

LM6000 Emissions

EQUIPMENT	POLLUTANT	EMISSION RATE (lb/hr)	DAILY EMISSIONS (lbs)	EMISSIONS INCREASE (lbs)
LM6000 Baseload	NO_x	8.65	207.6	---
	SO_x	0.33	7.92	---
	VOC	1.20	28.8	---
	CO	6.31	151.44	---
	PM_{10}/TSP	2.50	60.0	—
LM6000 Start-up	NO_x	35.0	840.0	632.4
	SO_x	0.33	7.92	0.0
	VOC	0.89	21.36	7.44
	CO	27.0	648.0	496.56
	PM_{10}/TSP	2.50	60.0	0.0

Auxiliary Boilers

EQUIPMENT	POLLUTANT	EMISSION RATE (lb/hr)	DAILY EMISSIONS (lbs)	EMISSIONS INCREASE (lbs)
Aux Boilers Baseload	NO_x	5.59	134.16	---
	SO_x	0.28	6.72	---
	VOC	0.9	21.6	---
	CO	5.3	127.2	—
	PM_{10}/TSP	1.25	30.0	---
Aux Boilers Start-up	NO_x	5.59	134.16	0.0
	SO_x	0.28	6.72	0.0
	VOC	1.4	33.6	12.0
	CO	52.7	1,264.8	1136.6
	PM_{10}/TSP	1.25	30.0	0.0

Worst case daily emissions increases are 3,608.4 lbs of NO_x, 12.0 lbs of VOC and 1,633.16 lbs of CO. Just to reiterate, cumulative emissions from the facility will not change as the quarterly and annual emission limits remain in force.

VII. CONCLUSIONS

Compliance Check

200 Permits Required
CKCC and GEC have applied for and will be issued revised Permits to Operate. Therefore, the facility is in compliance with this Rule.

203 Application
CKCC and GEC supplied separate applications for each permit unit and utilized the District's permit application form as required by this Rule.

205 Provision Of Sampling And Testing Facilities
The present permits do and the revised permits will include conditions establishing sampling facilities as required by this Rule.

206 Standards For Issuing Authorities to Construct and Permits to Operate
The facility is in compliance with the requirements of this Rule..

207 Review Of New Or Modified Sources
Emissions may increase from these changes. The maximum emissions from this changes has been modeled to perform an air quality impact analysis and to verify compliance with the increments and the cumulative impact requirements of the rule. Operation for limited time periods without hourly, daily, and concentration limits for balancing, tuning, and regulatory mandated testing is a modification of the initial BACT determination for the facilities. As the quarterly and annual emissions caps remain in force, the offset provisions of the Rule are not triggered. This rule requires that the project be public noticed prior to issuance of the permits to ensure oversight of the BACT determinations and federal enforceability of the conditions.

213 Continuous Emissions Monitoring
The requirements of this Rule are applicable to this facility. These permits will be conditioned such that CEMs will be calibrated, maintained, and operated in accordance with District and EPA standards.

214 Breakdown Conditions
This is the implementing regulation in which the District has established the criteria for reporting breakdowns. The requirements imposed by this rule will be included on these permits.

218 Title V: Federal Operating Permits
Relaxation of the BACT requirement by allowing limited operations without hourly, daily, or concentration limits is a relaxation of the permit and is considered a "significant permit modification" and subject to the EPA and Public review prior to issuance. The proposed changes to the Title V permit will public noticed and forwarded to EPA for their review prior to permit issuance.

219 Title IV: Acid Deposition Control
The LM6000 at GEC is subject to these requirements. These requirements are included on the existing facilities permits and will be included on the revised permit.

300 District Fees
Historically, CKCC and GEC have complied with the requirements of this Rule. The District fully expects continued compliance with the provisions of this Rule.

301 Permit Fee Schedules
Prior to District review of these applications, the appropriate fees pursuant to this Rule were received from CKCC and GEC. Therefore, the facility is in compliance with this Rule.

302 Source Testing And Analyses: Fees And Requirements
Historically, CKCC and GEC have complied with the requirements of this Rule. The District fully expects continued compliance with the provisions of this Rule.

305 Fees For Risk Assessments, Risk Notifications, & Risk Reduction Plans & Reports
Historically, CKCC and GEC have complied with the requirements of this Rule. The District fully expects continued compliance with the provisions of this Rule.

306 Asbestos Investigation Fees
Historically, CKCC and GEC have complied with the requirements of this Rule. The District fully expects continued compliance with the provisions of this Rule.

308 Title V: Federal Operating Permit Fees
This is the District's fee rule for Title V. Appropriate conditions are included on the existing Title V permit, and will be included on the revised Title V permit to ensure compliance with the fee provisions contained in this rule.

400 Visible Emissions
The equipment is natural gas fired, and therefore should easily comply with the 20% opacity standard from this Rule. Appropriate conditions will be included on the permits to ensure compliance with the requirements of this Rule.

402 Nuisances
With the equipment being fired on natural gas, nuisance type problems are not expected from this operation. However, appropriate conditions will be included on the permits to ensure compliance with the requirements of this Rule.

403 Particulate Matter
No change in emissions from the facility based upon the proposed changes. Prior evaluations have verified compliance with the requirements of this rule.

404 Sulfur Compound And Nitrogen Oxides
No change in emissions from the facility based upon the proposed changes. Prior evaluations have verified compliance with the requirements of this rule.

412 Sulfur Content Of Fuels
This rule which requires that the sulfur content of any gaseous fuel combusted contain 50 grains or less of sulfur per 100 cubic feet is applicable to this equipment. The sulfur content limits proposed in the application are 0.25 grains per 100 cubic feet of natural gas. This sulfur limit will be included on the permits.

415 Circumvention
The facility is in compliance with the provisions of this Rule.

421 Violations And Determination Of Compliance

This Rule provides standards for compliance determinations required by, or derived from federal law. The facility is in compliance with the requirements of this Rule.

423 New Source Performance Standards (NSPS)
Prior evaluations have verified compliance with the requirements of Subpart A and GG of this rule.

424 National Emission Standards For Hazardous Air Pollutants (NESHAPS)
40 CFR Part 61, Subpart M - National Emission Standard For Asbestos
The facility on occasion is subject to the requirements of 61.145 - 61.147 (Standards for Demolition and Renovation). Historically, the facility has been in compliance with these requirements and continued compliance is expected.

426 Architectural Coatings
This rule is applicable to all applications of architectural coatings and limits the VOC content of these coatings. Historically, the facility has been in compliance with this Rule and continued compliance is expected.

1000 Permit Guidelines And Requirements For Sources Emitting Toxic Air Contaminants
Allow emissions may increase on a daily basis due to these changes, cumulative emissions do not. Therefore, the existing toxics analysis for the facility is still applicable, which shows that the facility complies with the requirements of this rule.

1003 Air Toxics Emissions Inventory And Risk Assessments
Historically, CKCC and GEC have complied with the requirements of this Rule. The District fully expects continued compliance with the provisions of this Rule.

Conclusions
These proposed permit revisions will not impact the ability of CKCC and GEC to comply with all applicable rules of the District.

VIII. RECOMMENDATION

Issue a public notice on the preliminary permit decision and release the proposed permits for the required 30 day public comment period. Forward the proposed Title V permit to EPA for their 45-day review. Review and respond to comments prior to issuance of the permits as final documents.

IX. PROPOSED PERMITS

The proposed permits are attached.

MONTEREY BAY UNIFIED AIR POLLUTION CONTROL DISTRICT

14717

PERMIT TO OPERATE

24580 SILVER CLOUD CT., MONTEREY, CA 93940 TELEPHONE (831) 647-9411 • FAX (831) 647-8501

OPERATION UNDER THIS PERMIT MUST BE CONDUCTED IN COMPLIANCE WITH ALL DATA AND SPECIFICATIONS INCLUDED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED. THE EQUIPMENT MUST BE PROPERLY MAINTAINED AND KEPT IN GOOD CONDITION AT ALL TIMES. THIS PERMIT TO OPERATE MUST BE POSTED OR ACCESSIBLE.

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LEGAL OWNER OR OPERATOR: GILROY ENERGY CENTER, LLC FOR KING CITY

EQUIPMENT LOCATED AT: 51 Don Bates Way
King City, California

EQUIPMENT DESCRIPTION AND CONDITIONS: THIS PERMIT TO OPERATE IS ISSUED AND IS VALID FOR THIS EQUIPMENT ONLY WHILE IT IS IN THE CONFIGURATION SET FORTH IN THE FOLLOWING DESCRIPTION:

GAS TURBINE:

Power Generation Facility Consisting Of:

1. Simple Cycle Natural Gas Fired Gas Turbine Generator, General Electric Model LM6000PD, Serial #192159, Rated At 500 MMBtu/Hr Maximum Heat Input And 49.6 MW Nominal Electrical Output, Dry Low-NO_x Combustor To Control NOx Formation.
2. Selective Catalytic Reduction NO_x Control System.
3. Oxidation Catalyst For Carbon Monoxide Control.
4. CEM System Designed To Continuously Record The Measured Gaseous Concentrations, And Calculate And Continuously Monitor And Record The NOx And CO Concentrations Corrected To Fifteen (15) Percent Oxygen (O_2) On A Dry Basis.
5. Cooling Tower, Marley Model NC8311K2, With A Design Water Recirculation Rate Of 4,160 Gallons Per Minute.

THE EQUIPMENT FOR WHICH THIS PERMIT TO OPERATE IS ISSUED MAY BE OPERATED ONLY WHEN IN COMPLIANCE WITH THE FOLLOWING CONDITIONS:

Conditions:

1. Gilroy Energy Center, LLC for King City shall submit annual natural gas fuel consumption, electricity generated, and emissions from this equipment to the District, upon request, at the time of permit renewal.

THIS PERMIT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR ADDRESS, OR ANY ALTERATION.

AIR POLLUTION CONTROL OFFICER

DATE _____

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2. The heat input rate to the LM6000 shall not exceed 500 MMBtu/hr and the unit shall only be fired on natural gas.

3. The maximum daily combined mass emissions from the LM6000, including start-ups and shutdowns, shall not exceed the following limits:

Pollutant	Lbs/Day
Oxides of Nitrogen (NO_x)	233.95
Carbon Monoxide (CO)	172.13
Particulate Matter <10 microns (PM_{10})	60.00
Volatile Organic Compounds (VOC)	28.80
Ammonia (NH_3)	150.48
Sulfur Dioxide (SO_2)	7.92

4. The pollutant mass emission rates in the exhaust discharged to the atmosphere from the LM6000 shall not exceed the following limits:

Pollutant	Lbs/Hour	Lbs/Day
Oxides of Nitrogen (NO_x)	8.65	207.6
Carbon Monoxide (CO)	6.31	151.4
Particulate Matter <10 microns (PM_{10})	2.50	60.0
Volatile Organic Compounds (VOC)	1.20	28.8
Ammonia (NH_3)	6.27	150.5
Sulfur Dioxide (SO_2)	0.33	7.9

These limits shall not apply during start-up, which is not to exceed one (1) hour, or shutdown which is not to exceed ½ hour. SCR catalytic controls and good engineering practices shall be used to the fullest extent practical during start-up and shutdown to minimize pollutant emissions.

5. The pollutant concentrations discharged to the atmosphere from the LM6000 shall not exceed the following limits, calculated at 15 percent O_2:

Pollutant	Concentration (ppmvd)	Averaging Period
Oxides of Nitrogen (as NO_2)	5.0	1-hour clock hour
Carbon Monoxide (CO)	6.0	3-hour rolling clock hour
Ammonia (NH_3)	10.0	3-hour rolling clock hour

These limits shall not apply during start-up, which is not to exceed one (1) hour, or shutdown. SCR catalytic controls and good engineering practices shall be used to the fullest extent practical during start-up to minimize pollutant emissions.

6. The pollutant mass emission rates discharged to atmosphere from the LM6000 during a start-up shall not exceed the following limits. These limits apply to any start-up period which shall not exceed one (1) hour.

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Pollutant	Lbs/Start-Up
Oxides of Nitrogen (as NO_2)	35.00
Carbon Monoxide (CO)	27.00
Volatile Organic Compounds (as CH_4)	1.20

7. The emission limits contained in Conditions 3, 4, 5, and 6 shall not apply during periods of combustor tuning, balancing, or non-Air District regulatory mandated performance testing. These periods shall not exceed 100 hours per year.

   Gilroy Energy Center, LLC for King City shall notify the District prior to initiating any of these activities, and shall monitor and record all periods of these activities in a log maintained on-site and shall submit a summary of this data to the District on an annual basis, at the time of permit renewal.

8. CEMs shall be installed and operated on the LM6000. This system shall be designed to continuously record the measured gaseous concentrations, and calculate and continuously monitor and record the CO, CO_2 or O_2, and NO_x concentrations corrected to fifteen (15) percent oxygen (O_2) on a dry basis.

   The equipment installed for the continuous monitoring of CO shall be maintained and operated in accordance with 40 CFR Part 60 Appendix F and the Quality Assurance/Preventative Maintenance (QA/PM) Procedures Manual developed by Gilroy Energy Center, LLC (for King City Energy Center), and the equipment installed for the continuous monitoring of CO_2 or O_2 and NO_x shall be maintained and operated in accordance with 40 CFR Parts 72 and 75 and the QA/PM Procedures Manual.

   For periods of missing CO data, CO hourly values shall be substituted from valid hourly average data from the previous thirty (30) unit operating days, excluding periods of startup and shutdown. The CO data shall be substituted based on equivalent incremental load ranges.

9. The LM6000 shall be abated by a properly operated and maintained Selective Catalytic Reduction System and Oxidation Catalyst.

10. Gilroy Energy Center, LLC for King City shall demonstrate compliance by using properly operated and maintained continuous emission monitors (during all hours of operation including equipment Start-up and Shutdown periods, except for periods of CEM maintenance performed in accordance with District requirements) for all of the following parameters:

    a) Firing hours and Fuel Flow Rates.
    b) Oxygen (O_2) Concentrations, Nitrogen Oxide (NO_x) Concentrations, and Carbon Monoxide (CO) Concentrations.
    c) Ammonia Injection Rates.

    Gilroy Energy Center, LLC for King City shall record all of the above parameters every 15 minutes (excluding normal calibration periods) and shall summarize all of the above parameters for

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each clock hour. For each calendar day, Gilroy Energy Center, LLC for King City shall calculate and record the total Firing Hours, the average hourly Fuel Flow Rates, and pollutant emission concentrations.

Gilroy Energy Center, LLC for King City shall use the parameters measured above and District-approved calculation methods to calculate the following parameters:

d) Heat Input Rate.
e) Corrected NO_x concentrations, NO_x mass emissions (as NO_2), corrected CO concentrations, and CO mass emissions.

Gilroy Energy Center, LLC for King City shall record the parameters specified in d. and e. of this Condition every 15 minutes (excluding normal calibration periods). As specified below, Gilroy Energy Center, LLC for King City shall calculate and record the following data:

f) Total Heat Input Rate for every clock hour.
g) The NO_x mass emissions (as NO_2), and corrected average NO_x emission concentration for every clock hour.
h) The CO mass emissions for every clock hour, and corrected average CO emission concentration for every rolling three-hour rolling clock hour period.
i) On an hourly basis, the cumulative total NO_x mass emissions (as NO_2) and the cumulative total CO mass emissions.
j) For each calendar day, the cumulative total NO_x mass emissions (as NO_2) and the cumulative total CO mass emissions.
k) For each calendar quarter, the cumulative total NO_x mass emissions (as NO_2) and the cumulative total CO mass emissions.
l) For each calendar year, the cumulative total NO_x mass emissions (as NO_2) and the cumulative total CO mass emissions.

11. Instrumentation must be operated to measure the SCR catalyst inlet temperature and pressure differential across the SCR catalyst.

12. Gilroy Energy Center, LLC for King City shall cause annual testing to be performed to verify compliance with the Ammonia (NH_3) slip limit. Gilroy Energy Center, LLC for King City shall conduct this testing in accordance with the collection method specified in BAAQMD Source Test Procedure ST-1B and the analysis specified in EPA method 350.3.

13. Performance tests shall be conducted every 4,000 operating hours, but not less frequent that once every three years nor more frequent than once per year, in accordance with the Monterey Bay Unified Air Pollution Control District test procedures, and the written results of the performance tests shall be provided to the District within sixty (60) days after testing. A testing protocol shall be submitted to the District no later than thirty (30) days prior to the testing, and notification to the District at least ten (10) days prior to

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the actual date of testing shall be provided so that a District observer may be present. Changes to the test date made subsequent to the initial ten day notification may be communicated by telephone or other acceptable means no less than forty-eight (48) hours prior to the new test date.

14. PM_{10} emissions from the cooling tower shall be calculated as the product of the cooling tower recirculating water flow rate times the total dissolved solids in the cooling tower water times the cooling tower drift loss times the number of hours of operation, as follows:

PM_{10} lbs/day = 5.0E-4 * F * TDS * DL * H

Where: F = cooling tower recirculating water flow rate in gpm
TDS = total dissolved solids in the cooling water in ppm
DL = drift loss of 0.0047%
H = number of hours of operation

Gilroy Energy Center, LLC for King City shall conduct monthly measurements of the cooling tower water total dissolved solids (TDS). The TDS value from the latest testing shall be used in the above equation.

15. Gilroy Energy Center, LLC for King City shall hold Sulfur Dioxide Allowances in the compliance subaccount for the LM6000 not less than the total annual emissions of sulfur dioxide for the previous calendar year from this unit.

16. Gilroy Energy Center, LLC for King City shall monitor SO2 emissions from the LM6000 in accordance with 40 CFR Parts 72 and 75.

17. Gilroy Energy Center, LLC for King City shall submit quarterly Electronic Data Reports (EDR) to EPA for the LM6000. These reports must be submitted within 30 days following the end of each calendar quarter and shall include all information required in 40 CFR §75.64.

18. Daily NO_x mass emissions from all combustion equipment at the facility shall not exceed 1,070 pounds per day.

19. Cumulative mass emissions, including emissions generated during Start-ups and Shutdowns, from all equipment at Gilroy Energy Center, LLC for King City and Calpine King City Cogen, LLC shall not exceed the following quarterly and annual limits:

Pollutant	Pounds Of Emissions				
	First Quarter	Second Quarter	Third Quarter	Fourth Quarter	Annual
NO_x (as NO_2)	72,452	73,178	73,905	73,905	293,440
SO_x	1,748	1,768	1,787	1,787	7,090
VOC	4,762	4,815	4,868	4,868	19,313
PM_{10}	12,071	12,204	12,339	12,339	48,953
CO	58,445	59,095	59,744	59,744	237,028

Note: During periods of oil firing as allowed for on the permits for the Frame 7 Turbine and the Boilers, the allowable emissions are increased by the incremental hourly limit for oil firing versus the natural gas hourly limit for all hours the equipment was actually operated on fuel oil.

20. Gilroy Energy Center, LLC for King City shall calculate and record on a daily basis, the Volatile Organic Compound (VOC) mass emissions, Fine Particulate Matter (PM_{10}) mass emissions, Sulfur Dioxide (SO_2) mass emissions, and Ammonia (NH_3) mass emissions from each combustion source and each cooling tower. Gilroy Energy Center, LLC for King City shall use the actual heat input rates, actual Start-up times, actual Shutdown times, and District-approved emission factors to calculate these emissions. The calculated emissions shall be presented as follows:

    a) For each calendar day, VOC, PM_{10}, SO_2, and NH_3 mass emissions shall be summarized for each source.
    b) On a daily basis, the cumulative total VOC, PM_{10}, SO_2 and NH_3 mass emissions shall be summarized for each calendar quarter and for the calendar year.

21. Within 45 days from the end of each month, Gilroy Energy Center, LLC for King City shall submit to the Air Pollution Control District a written report each month which shall include:

    a) time intervals, date, and magnitude of excess emissions;
    b) nature and cause of the excess emission, and corrective actions taken;
    c) time and date of each period during which the continuous monitoring system was inoperative, except for zero and span checks, and the nature of system repairs and adjustments; and
    d) a negative declaration when no excess emissions occurred; and
    e) a summary of actual monthly, quarterly and annual emissions.

22. Gilroy Energy Center, LLC for King City shall report all breakdowns which result in the inability to comply with any emission standard or requirement contained on this permit to the Air Pollution Control Officer (APCO) within 1 hour of the occurrence; however, this one hour period may be extended up to six hours for good cause by the APCO. The APCO may elect to take no enforcement action if Gilroy Energy Center, LLC for King City demonstrates to the APCO's satisfaction that a breakdown condition exists.

    The estimated time for repair of the breakdown shall be supplied to the APCO within 24 hours of the occurrence and a written report shall be supplied to the APCO with 5 days after

DRAFT

the occurrence has been corrected. This report shall include at a minimum:

a) a statement that the condition or failure has been corrected and the date of correction; and
b) a description of the reasons for the occurrence; and
c) a description of the corrective measures undertaken and/or to be undertaken to avoid such an occurrence in the future; and
d) an estimate of the emissions caused by the condition or failure.

23. Gilroy Energy Center, LLC for King City shall provide adequate stack sampling ports and platforms to enable the performance of source testing. The location and configuration of the stack sampling ports shall be subject to District review and approval.

24. No air contaminant shall be discharged into the atmosphere for a period or periods aggregating more than three (3) minutes in any one (1) hour which is as dark or darker than Ringelmann 1, or equivalent 20% opacity.

25. No emissions shall constitute a public nuisance.

NOTE: This permit replaces Permit to Operate 14085 issued to the Gilroy Energy Center, LLC (for King City Energy Center) on October 8, 2009. The annual renewal date remains May 10.

****

AirData

EPA is assessing its data systems, including AirData reports and maps. Data updates are suspended while the assessment is underway. The last update included data through January 10, 2009; see database status for details. For more recent air quality data, visit the AirExplorer and Air Emission Sources sites.

County Air Quality Report - Criteria Air Pollutants

Geographic Area: Santa Cruz Co, CA
Year: 2008

EPA Air Quality Standards:
Carbon Monoxide: 35 ppm (1-hour average), 9 ppm (8-hour average)
Nitrogen Dioxide: 0.053 ppm (annual mean)
Ozone: 0.12 ppm (1-hour average), 0.075 ppm (8-hour average)
Sulfur Dioxide: 0.14 ppm (24-hour average), 0.030 ppm (annual mean)
Particles < 2.5 micrometers diameter: 35 µg/m3 (24-Hour Average), 15.0 µg/m3 (annual mean)
Particles < 10 micrometers diameter: 150 µg/m3 (24-hour average), 50 µg/m3 (annual mean)
Lead: 1.5 µg/m3 (quarterly mean)

ppm=parts per million µg/m3 = micrograms per cubic meter

1 Rows
See Disclaimer

	CO (ppm)		NO2 (ppm)	O3 (ppm)		SO2 (ppm)		PM2.5 (µg/m3)		PM10 (µg/m3)		PB (µg/m3)				
Row #	2nd Max 1-hr	2nd Max 8-hr	Annual Mean	2nd Max 1-hr	4th Max 8-hr	2nd Max 24-hr	Annual Mean	98th Percentile	Annual Mean	2nd Max 24-hr	Annual Mean	Quarterly Mean	Population	County	State	EPA Region
SORT																
1	3.7	1.1	0.004	0.078	0.064	0.005	0.001	12.5	6.56	76	29		255,602	Santa Cruz Co	CA	09

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Disclaimer: AirData reports are produced from a monthly extract of EPA's air pollution database, AQS. Data for this report were extracted on January 10, 2009. They represent the best information available to EPA from state agencies on that date. However, some values may be absent due to incomplete reporting, and some values subsequently may be changed due to quality assurance activities. The AQS database is updated daily by state and local organizations who own and submit the data. Please contact the pertinent state agency to report errors.

Readers are cautioned not to infer a qualitative ranking order of geographic areas based on AirData reports. Air pollution levels measured in the vicinity of a particular monitoring site may not be representative of the prevailing air quality of a county or urban area. Pollutants emitted from a particular source may have little impact on the immediate geographic area, and the amount of pollutants emitted does not indicate whether the source is complying with applicable regulations.

AirData - County Air Quality Report - Criteria Air Pollutants
Generated on Monday, September 20, 2010

AirData

EPA is assessing its data systems, including AirData reports and maps. Data updates are suspended while the assessment is underway. The last update included data through January 10, 2009; see database status for details. For more recent air quality data, visit the AirExplorer and Air Emission Sources sites.

County Air Quality Report - Criteria Air Pollutants

Geographic Area: Monterey Co, CA
Year: 2008

EPA Air Quality Standards:
Carbon Monoxide: 35 ppm (1-hour average), 9 ppm (8-hour average)
Nitrogen Dioxide: 0.053 ppm (annual mean)
Ozone: 0.12 ppm (1-hour average), 0.075 ppm (8-hour average)
Sulfur Dioxide: 0.14 ppm (24-hour average), 0.030 ppm (annual mean)
Particles < 2.5 micrometers diameter: 35 µg/m3 (24-Hour Average), 15.0 µg/m3 (annual mean)
Particles < 10 micrometers diameter: 150 µg/m3 (24-hour average), 50 µg/m3 (annual mean)
Lead: 1.5 µg/m3 (quarterly mean)

ppm=parts per million µg/m3 = micrograms per cubic meter

1 Rows
See Disclaimer

	CO (ppm)		NO2 (ppm)	O3 (ppm)		SO2 (ppm)		PM2.5 (µg/m3)		PM10 (µg/m3)		PB (µg/m3)				
Row #	2nd Max 1-hr	2nd Max 8-hr	Annual Mean	2nd Max 1-hr	4th Max 8-hr	2nd Max 24-hr	Annual Mean	98th Percentile	Annual Mean	2nd Max 24-hr	Annual Mean	Quarterly Mean	Population	County	State	EPA Region
SORT																
1	1.6	0.8	0.006	0.073	0.060			17.8	7.00	63	31		401,762	Monterey Co	CA	09

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AirData

EPA is assessing its data systems, including AirData reports and maps. Data updates are suspended while the assessment is underway. The last update included data through January 10, 2009; see database status for details. For more recent air quality data, visit the AirExplorer and Air Emission Sources sites.

County Air Quality Report - Criteria Air Pollutants

Geographic Area: San Benito Co, CA
Year: 2008

EPA Air Quality Standards:
Carbon Monoxide: 35 ppm (1-hour average), 9 ppm (8-hour average)
Nitrogen Dioxide: 0.053 ppm (annual mean)
Ozone: 0.12 ppm (1-hour average), 0.075 ppm (8-hour average)
Sulfur Dioxide: 0.14 ppm (24-hour average), 0.030 ppm (annual mean)
Particles < 2.5 micrometers diameter: 35 µg/m3 (24-Hour Average), 15.0 µg/m3 (annual mean)
Particles < 10 micrometers diameter: 150 µg/m3 (24-hour average), 50 µg/m3 (annual mean)
Lead: 1.5 µg/m3 (quarterly mean)

ppm=parts per million µg/m3 = micrograms per cubic meter

1 Rows
See Disclaimer

	CO (ppm)		NO2 (ppm)	O3 (ppm)		SO2 (ppm)		PM2.5 (µg/m3)		PM10 (µg/m3)		PB (µg/m3)				
Row #	2nd Max 1-hr	2nd Max 8-hr	Annual Mean	2nd Max 1-hr	4th Max 8-hr	2nd Max 24-hr	Annual Mean	98th Percentile	Annual Mean	2nd Max 24-hr	Annual Mean	Quarterly Mean	Population	County	State	EPA Region
SORT																
1				0.100	**0.086**			15.6	6.43	38	21		53,234	San Benito Co	CA	09

Page 1 of 1

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Readers are cautioned not to infer a qualitative ranking order of geographic areas based on AirData reports. Air pollution levels measured in the vicinity of a particular monitoring site may not be representative of the prevailing air quality of a county or urban area. Pollutants emitted from a particular source may have little impact on the immediate geographic area, and the amount of pollutants emitted does not indicate whether the source is complying with applicable regulations.

TABLE 1
BASIC AMERICAN I COGENERATION PROJECT
PROJECT EMISSIONS, GAS FIRING (a) (b)

POLLUTANT	GAS TURBINE (lbs./hr.) UNCONTROLLED	GAS TURBINE (lbs./hr.) CONTROLLED	AUXILIARY BOILER (lbs./hr) UNCONTROLLED	AUXILIARY BOILER (lbs./hr) CONTROLLED	MAXIMUM PROJECT (lbs./hr.) TOTAL CONTROLLED (i)
SO_2 (b)	0.2	0.2	0.28	0.28	0.48
NO_2	155	31 (c)	5.59	5.59 (d)	36.6
CO	22.9	22.9	52.7	5.3 (c)	28.2
TSP	2.5	2.5	1.25	1.25	3.75
UHC (f)	15.3	15.3	<8.8	<4.4 (h)	<19.7
NMHC (g)	1.5	1.5	0.9	0.4	1.9
Hg	0.01	0.01	0.003	0.003	0.013
Be	Neg.	Neg.	Neg.	Neg.	Neg.

(a) Typical gas analysis for Salinas

	% by Volume
Methane	89.4
Ethane	7.06
Propane	1.44
CO_2	0.98
N_2	0.88
Butane	0.12
Iso Butane	0.09
Pentane	0.02
Iso Pentane	0.03
Hexane (>C_6 compounds)	0.04
Higher Heating Valve	1,079 Btu/lb.
Specific Gravity	0.621 (relative to air)
Source of Supply	El Paso, TX.

Source: PG&E

(b) Sulfur content of natural gas assumed to be approximately 0.6 lbs/10^6 $ft.^3$ as SO_2.
(c) SCR control technology to 9 ppmdv NO_2. Ammonia slip estimated at 20 ppmdv or 13.9 lbs./hr.
(d) Low NO_X burners and FGR to 40 ppmdv.
(e) CO oxidation catalyst, 90% control.
(f) Unburnt hydrocarbons.
(g) Non-methane hydrocarbons, NMHC = 0.1 (UHC).
(h) CO oxidation catalyst, 50% efficient.
(i) These maxima occur only for 6 hours/day

*** SCREEN3 MODEL RUN ***
*** VERSION DATED 96043 ***

Application 14716 - Cogen

SIMPLE TERRAIN INPUTS:

SOURCE TYPE	=	POINT
EMISSION RATE (G/S)	=	0.126000
STACK HEIGHT (M)	=	18.2880
STK INSIDE DIAM (M)	=	4.5720
STK EXIT VELOCITY (M/S)	=	12.9052
STK GAS EXIT TEMP (K)	=	377.0389
AMBIENT AIR TEMP (K)	=	293.1500
RECEPTOR HEIGHT (M)	=	0.0000
URBAN/RURAL OPTION	=	RURAL
BUILDING HEIGHT (M)	=	0.0000
MIN HORIZ BLDG DIM (M)	=	0.0000
MAX HORIZ BLDG DIM (M)	=	0.0000

THE REGULATORY (DEFAULT) MIXING HEIGHT OPTION WAS SELECTED.
THE REGULATORY (DEFAULT) ANEMOMETER HEIGHT OF 10.0 METERS WAS ENTERED.

BUOY. FLUX = 147.141 M**4/S**3; MOM. FLUX = 676.684 M**4/S**2.

*** FULL METEOROLOGY ***

****
*** SCREEN AUTOMATED DISTANCES ***
****

*** TERRAIN HEIGHT OF 0. M ABOVE STACK BASE USED FOR FOLLOWING DISTANCES ***

DIST (M)	CONC (UG/M**3)	STAB	U10M (M/S)	USTK (M/S)	MIX HT (M)	PLUME HT (M)	SIGMA Y (M)	SIGMA Z (M)	DWASH
1.	0.000	1	1.0	1.0	760.8	759.79	6.34	6.33	NO
100.	0.8322E-02	5	1.0	1.2	10000.0	164.56	42.24	41.94	NO
200.	0.9014E-02	5	1.0	1.2	10000.0	164.56	43.38	42.25	NO
300.	0.1487E-01	4	20.0	21.9	6400.0	45.29	23.14	13.06	NO
400.	0.8206E-01	4	20.0	21.9	6400.0	45.29	30.06	16.40	NO
500.	0.1748	4	20.0	21.9	6400.0	45.29	36.81	19.57	NO
600.	0.2511	4	20.0	21.9	6400.0	45.29	43.43	22.61	NO
700.	0.2985	4	20.0	21.9	6400.0	45.29	49.95	25.56	NO
800.	0.3211	4	20.0	21.9	6400.0	45.29	56.38	28.42	NO
900.	0.3259	4	20.0	21.9	6400.0	45.29	62.70	31.15	NO
1000.	0.3195	4	20.0	21.9	6400.0	45.29	68.87	33.64	NO
1100.	0.3054	4	20.0	21.9	6400.0	45.29	74.99	35.59	NO
1200.	0.2905	4	20.0	21.9	6400.0	45.29	81.07	37.48	NO
1300.	0.2755	4	20.0	21.9	6400.0	45.29	87.11	39.32	NO
1400.	0.2609	4	20.0	21.9	6400.0	45.29	93.10	41.12	NO
1500.	0.2469	4	20.0	21.9	6400.0	45.29	99.06	42.87	NO
1600.	0.2336	4	20.0	21.9	6400.0	45.29	104.98	44.60	NO
1700.	0.2212	4	20.0	21.9	6400.0	45.29	110.87	46.28	NO
1800.	0.2095	4	20.0	21.9	6400.0	45.29	116.72	47.94	NO
1900.	0.1993	4	15.0	16.4	4800.0	58.86	122.87	50.35	NO
2000.	0.1923	4	15.0	16.4	4800.0	58.86	128.65	51.93	NO
2100.	0.1854	4	15.0	16.4	4800.0	58.86	134.40	53.47	NO
2200.	0.1787	4	15.0	16.4	4800.0	58.86	140.13	55.00	NO
2300.	0.1723	4	15.0	16.4	4800.0	58.86	145.83	56.50	NO
2400.	0.1661	4	15.0	16.4	4800.0	58.86	151.51	57.98	NO

2500.	0.1601	4	15.0	16.4	4800.0	58.86	157.17	59.45	NO
2600.	0.1544	4	15.0	16.4	4800.0	58.86	162.80	60.89	NO
2700.	0.1490	4	15.0	16.4	4800.0	58.86	168.41	62.32	NO
2800.	0.1438	4	15.0	16.4	4800.0	58.86	174.00	63.72	NO
2900.	0.1388	4	15.0	16.4	4800.0	58.86	179.58	65.12	NO
3000.	0.1341	4	15.0	16.4	4800.0	58.86	185.13	66.49	NO
3500.	0.1224	2	1.5	1.6	513.6	512.62	489.64	454.53	NO
4000.	0.1200	5	2.5	3.1	10000.0	126.06	181.69	58.52	NO
4500.	0.1266	5	2.0	2.5	10000.0	134.38	201.83	62.37	NO
5000.	0.1323	5	1.5	1.9	10000.0	146.07	221.88	66.60	NO
5500.	0.1378	5	1.5	1.9	10000.0	146.07	241.20	68.92	NO
6000.	0.1421	5	1.5	1.9	10000.0	146.07	260.34	71.16	NO
6500.	0.1471	5	1.0	1.2	10000.0	164.56	280.07	76.11	NO
7000.	0.1514	5	1.0	1.2	10000.0	164.56	298.87	78.15	NO
7500.	0.1549	5	1.0	1.2	10000.0	164.56	317.54	80.13	NO
8000.	0.1577	5	1.0	1.2	10000.0	164.56	336.08	82.08	NO
8500.	0.1599	5	1.0	1.2	10000.0	164.56	354.49	83.98	NO
9000.	0.1615	5	1.0	1.2	10000.0	164.56	372.79	85.83	NO
9500.	0.1626	5	1.0	1.2	10000.0	164.56	390.98	87.65	NO
10000.	0.1633	5	1.0	1.2	10000.0	164.56	409.06	89.44	NO
15000.	0.1533	5	1.0	1.2	10000.0	164.56	584.88	104.30	NO
20000.	0.1370	5	1.0	1.2	10000.0	164.56	753.48	117.02	NO
25000.	0.1198	5	1.0	1.2	10000.0	164.56	916.61	126.01	NO
30000.	0.1109	6	1.0	1.4	10000.0	134.88	716.36	76.47	NO
40000.	0.9770E-01	6	1.0	1.4	10000.0	134.88	920.83	81.60	NO
50000.	0.8737E-01	6	1.0	1.4	10000.0	134.88	1117.92	85.91	NO

MAXIMUM 1-HR CONCENTRATION AT OR BEYOND 1. M:

876.	0.3263	4	20.0	21.9	6400.0	45.29	61.28	30.57	NO

DWASH= MEANS NO CALC MADE (CONC = 0.0)
DWASH=NO MEANS NO BUILDING DOWNWASH USED
DWASH=HS MEANS HUBER-SNYDER DOWNWASH USED
DWASH=SS MEANS SCHULMAN-SCIRE DOWNWASH USED
DWASH=NA MEANS DOWNWASH NOT APPLICABLE, X<3*LB

*** INVERSION BREAK-UP FUMIGATION CALC. ***
CONC (UG/M**3) = 0.3526
DIST TO MAX (M) = 8945.51

****
*** SUMMARY OF SCREEN MODEL RESULTS ***
****

CALCULATION PROCEDURE	MAX CONC (UG/M**3)	DIST TO MAX (M)	TERRAIN HT (M)
SIMPLE TERRAIN	0.3263	876.	0.
INV BREAKUP FUMI	0.3526	8946.	--

*** SCREEN3 MODEL RUN ***
*** VERSION DATED 96043 ***

Application 14717 - Peaker

SIMPLE TERRAIN INPUTS:

SOURCE TYPE	=	POINT
EMISSION RATE (G/S)	=	0.126000
STACK HEIGHT (M)	=	12.1920
STK INSIDE DIAM (M)	=	2.3470
STK EXIT VELOCITY (M/S)	=	33.3432
STK GAS EXIT TEMP (K)	=	422.0389
AMBIENT AIR TEMP (K)	=	293.1500
RECEPTOR HEIGHT (M)	=	0.0000
URBAN/RURAL OPTION	=	RURAL
BUILDING HEIGHT (M)	=	0.0000
MIN HORIZ BLDG DIM (M)	=	0.0000
MAX HORIZ BLDG DIM (M)	=	0.0000

THE REGULATORY (DEFAULT) MIXING HEIGHT OPTION WAS SELECTED.
THE REGULATORY (DEFAULT) ANEMOMETER HEIGHT OF 10.0 METERS WAS ENTERED.

BUOY. FLUX = 137.510 M**4/S**3; MOM. FLUX = 1063.453 M**4/S**2.

*** FULL METEOROLOGY ***

****
*** SCREEN AUTOMATED DISTANCES ***
****

*** TERRAIN HEIGHT OF 0. M ABOVE STACK BASE USED FOR FOLLOWING DISTANCES ***

DIST (M)	CONC (UG/M**3)	STAB	U10M (M/S)	USTK (M/S)	MIX HT (M)	PLUME HT (M)	SIGMA Y (M)	SIGMA Z (M)	DWASH
1.	0.000	1	1.0	1.0	745.7	744.68	8.19	8.18	NO
100.	0.1826E-01	6	1.0	1.1	10000.0	134.98	35.32	35.16	NO
200.	0.1910E-01	6	1.0	1.1	10000.0	134.98	35.92	35.32	NO
300.	0.2019E-01	6	1.0	1.1	10000.0	134.98	36.84	35.53	NO
400.	0.5425E-01	4	20.0	20.6	6400.0	48.24	30.10	16.49	NO
500.	0.1326	4	20.0	20.6	6400.0	48.24	36.86	19.67	NO
600.	0.2069	4	20.0	20.6	6400.0	48.24	43.49	22.72	NO
700.	0.2595	4	20.0	20.6	6400.0	48.24	50.01	25.67	NO
800.	0.2897	4	20.0	20.6	6400.0	48.24	56.44	28.54	NO
900.	0.3011	4	20.0	20.6	6400.0	48.24	62.73	31.21	NO
1000.	0.3010	4	20.0	20.6	6400.0	48.24	68.90	33.71	NO
1100.	0.2913	4	20.0	20.6	6400.0	48.24	75.02	35.65	NO
1200.	0.2800	4	20.0	20.6	6400.0	48.24	81.10	37.53	NO
1300.	0.2679	4	20.0	20.6	6400.0	48.24	87.13	39.37	NO
1400.	0.2556	4	20.0	20.6	6400.0	48.24	93.12	41.17	NO
1500.	0.2434	4	20.0	20.6	6400.0	48.24	99.08	42.92	NO
1600.	0.2316	4	20.0	20.6	6400.0	48.24	105.00	44.64	NO
1700.	0.2204	4	20.0	20.6	6400.0	48.24	110.89	46.33	NO
1800.	0.2120	4	15.0	15.5	4800.0	60.26	117.09	48.83	NO
1900.	0.2051	4	15.0	15.5	4800.0	60.26	122.90	50.43	NO
2000.	0.1982	4	15.0	15.5	4800.0	60.26	128.68	52.00	NO
2100.	0.1914	4	15.0	15.5	4800.0	60.26	134.43	53.54	NO
2200.	0.1848	4	15.0	15.5	4800.0	60.26	140.16	55.07	NO
2300.	0.1784	4	15.0	15.5	4800.0	60.26	145.86	56.57	NO
2400.	0.1722	4	15.0	15.5	4800.0	60.26	151.54	58.05	NO

2500.	0.1662	4	15.0	15.5	4800.0	60.26	157.19	59.51	NO
2600.	0.1604	4	15.0	15.5	4800.0	60.26	162.82	60.95	NO
2700.	0.1549	4	15.0	15.5	4800.0	60.26	168.44	62.38	NO
2800.	0.1497	4	15.0	15.5	4800.0	60.26	174.03	63.78	NO
2900.	0.1461	4	10.0	10.3	3200.0	84.29	180.25	66.96	NO
3000.	0.1433	4	10.0	10.3	3200.0	84.29	185.78	68.30	NO
3500.	0.1496	5	3.0	3.2	10000.0	116.15	161.51	54.85	NO
4000.	0.1601	5	2.5	2.7	10000.0	122.66	181.82	58.93	NO
4500.	0.1666	5	2.0	2.1	10000.0	131.19	201.97	62.82	NO
5000.	0.1720	5	1.5	1.6	10000.0	143.17	222.04	67.11	NO
5500.	0.1774	5	1.5	1.6	10000.0	143.17	241.34	69.41	NO
6000.	0.1814	5	1.5	1.6	10000.0	143.17	260.47	71.64	NO
6500.	0.1863	5	1.0	1.1	10000.0	162.12	280.23	76.69	NO
7000.	0.1906	5	1.0	1.1	10000.0	162.12	299.02	78.71	NO
7500.	0.1939	5	1.0	1.1	10000.0	162.12	317.68	80.69	NO
8000.	0.1964	5	1.0	1.1	10000.0	162.12	336.21	82.61	NO
8500.	0.1982	5	1.0	1.1	10000.0	162.12	354.62	84.50	NO
9000.	0.1994	5	1.0	1.1	10000.0	162.12	372.91	86.35	NO
9500.	0.2001	5	1.0	1.1	10000.0	162.12	391.09	88.16	NO
10000.	0.2002	5	1.0	1.1	10000.0	162.12	409.17	89.93	NO
15000.	0.1843	5	1.0	1.1	10000.0	162.12	584.96	104.72	NO
20000.	0.1630	5	1.0	1.1	10000.0	162.12	753.54	117.40	NO
25000.	0.1495	6	1.0	1.1	10000.0	134.98	610.76	73.74	NO
30000.	0.1412	6	1.0	1.1	10000.0	134.98	716.45	77.26	NO
40000.	0.1237	6	1.0	1.1	10000.0	134.98	920.89	82.34	NO
50000.	0.1103	6	1.0	1.1	10000.0	134.98	1117.97	86.61	NO

MAXIMUM 1-HR CONCENTRATION AT OR BEYOND 1. M:

946.	0.3020	4	20.0	20.6	6400.0	48.24	65.64	32.39	NO

DWASH= MEANS NO CALC MADE (CONC = 0.0)
DWASH=NO MEANS NO BUILDING DOWNWASH USED
DWASH=HS MEANS HUBER-SNYDER DOWNWASH USED
DWASH=SS MEANS SCHULMAN-SCIRE DOWNWASH USED
DWASH=NA MEANS DOWNWASH NOT APPLICABLE, X<3*LB

*** INVERSION BREAK-UP FUMIGATION CALC. ***
CONC (UG/M**3) = 0.4121
DIST TO MAX (M) = 7994.06

****
*** SUMMARY OF SCREEN MODEL RESULTS ***
****

CALCULATION PROCEDURE	MAX CONC (UG/M**3)	DIST TO MAX (M)	TERRAIN HT (M)
SIMPLE TERRAIN	0.3020	946.	0.
INV BREAKUP FUMI	0.4121	7994.	--

*** SCREEN3 MODEL RUN ***
*** VERSION DATED 96043 ***

Application 14743 - Boilers

SIMPLE TERRAIN INPUTS:

SOURCE TYPE	=	POINT
EMISSION RATE (G/S)	=	0.126000
STACK HEIGHT (M)	=	18.2880
STK INSIDE DIAM (M)	=	1.8288
STK EXIT VELOCITY (M/S)	=	2.7849
STK GAS EXIT TEMP (K)	=	471.0944
AMBIENT AIR TEMP (K)	=	293.1500
RECEPTOR HEIGHT (M)	=	0.0000
URBAN/RURAL OPTION	=	RURAL
BUILDING HEIGHT (M)	=	0.0000
MIN HORIZ BLDG DIM (M)	=	0.0000
MAX HORIZ BLDG DIM (M)	=	0.0000

THE REGULATORY (DEFAULT) MIXING HEIGHT OPTION WAS SELECTED.
THE REGULATORY (DEFAULT) ANEMOMETER HEIGHT OF 10.0 METERS WAS ENTERED.

BUOY. FLUX = 8.625 M**4/S**3; MOM. FLUX = 4.035 M**4/S**2.

*** FULL METEOROLOGY ***

****
*** SCREEN AUTOMATED DISTANCES ***
****

*** TERRAIN HEIGHT OF 0. M ABOVE STACK BASE USED FOR FOLLOWING DISTANCES ***

DIST (M)	CONC (UG/M**3)	STAB	U10M (M/S)	USTK (M/S)	MIX HT (M)	PLUME HT (M)	SIGMA Y (M)	SIGMA Z (M)	DWASH
1.	0.000	1	1.0	1.0	320.0	121.66	0.99	0.92	NO
100.	0.3065	3	10.0	10.6	3200.0	23.91	12.61	7.68	NO
200.	2.750	3	10.0	10.6	3200.0	23.91	23.80	14.33	NO
300.	2.875	3	8.0	8.5	2560.0	26.69	34.48	20.65	NO
400.	2.683	3	5.0	5.3	1600.0	35.02	45.02	27.07	NO
500.	2.504	4	8.0	8.8	2560.0	26.28	36.32	18.63	NO
600.	2.355	4	8.0	8.8	2560.0	26.28	42.86	21.50	NO
700.	2.275	4	5.0	5.5	1600.0	34.36	49.51	24.68	NO
800.	2.179	4	5.0	5.5	1600.0	34.36	55.86	27.37	NO
900.	2.064	4	4.5	4.9	1440.0	36.76	62.20	30.12	NO
1000.	1.958	4	4.0	4.4	1280.0	39.75	68.49	32.86	NO
1100.	1.843	4	3.5	3.8	1120.0	43.60	74.74	35.06	NO
1200.	1.747	4	3.5	3.8	1120.0	43.60	80.84	36.98	NO
1300.	1.652	4	3.5	3.8	1120.0	43.60	86.89	38.84	NO
1400.	1.579	4	3.0	3.3	960.0	48.73	93.03	40.95	NO
1500.	1.506	4	3.0	3.3	960.0	48.73	98.99	42.71	NO
1600.	1.436	4	3.0	3.3	960.0	48.73	104.91	44.44	NO
1700.	1.379	4	2.5	2.7	800.0	55.92	110.98	46.55	NO
1800.	1.328	4	2.5	2.7	800.0	55.92	116.83	48.19	NO
1900.	1.277	4	2.5	2.7	800.0	55.92	122.65	49.81	NO
2000.	1.228	4	2.5	2.7	800.0	55.92	128.44	51.40	NO
2100.	1.202	5	1.0	1.2	10000.0	75.11	101.34	38.07	NO
2200.	1.227	5	1.0	1.2	10000.0	75.11	105.59	38.91	NO
2300.	1.247	5	1.0	1.2	10000.0	75.11	109.83	39.74	NO
2400.	1.264	5	1.0	1.2	10000.0	75.11	114.05	40.56	NO

2500.	1.277	5	1.0	1.2 10000.0	75.11	118.26	41.36	NO
2600.	1.286	5	1.0	1.2 10000.0	75.11	122.45	42.16	NO
2700.	1.293	5	1.0	1.2 10000.0	75.11	126.63	42.94	NO
2800.	1.298	5	1.0	1.2 10000.0	75.11	130.80	43.71	NO
2900.	1.300	5	1.0	1.2 10000.0	75.11	134.95	44.48	NO
3000.	1.300	5	1.0	1.2 10000.0	75.11	139.08	45.23	NO
3500.	1.279	5	1.0	1.2 10000.0	75.11	159.58	48.88	NO
4000.	1.232	5	1.0	1.2 10000.0	75.11	179.79	52.35	NO
4500.	1.190	6	1.0	1.4 10000.0	63.58	133.13	35.05	NO
5000.	1.187	6	1.0	1.4 10000.0	63.58	146.24	36.57	NO
5500.	1.175	6	1.0	1.4 10000.0	63.58	159.22	38.03	NO
6000.	1.155	6	1.0	1.4 10000.0	63.58	172.07	39.42	NO
6500.	1.132	6	1.0	1.4 10000.0	63.58	184.80	40.75	NO
7000.	1.105	6	1.0	1.4 10000.0	63.58	197.42	42.04	NO
7500.	1.073	6	1.0	1.4 10000.0	63.58	209.94	43.15	NO
8000.	1.041	6	1.0	1.4 10000.0	63.58	222.36	44.22	NO
8500.	1.010	6	1.0	1.4 10000.0	63.58	234.70	45.25	NO
9000.	0.9794	6	1.0	1.4 10000.0	63.58	246.95	46.25	NO
9500.	0.9500	6	1.0	1.4 10000.0	63.58	259.12	47.21	NO
10000.	0.9216	6	1.0	1.4 10000.0	63.58	271.21	48.16	NO
15000.	0.6954	6	1.0	1.4 10000.0	63.58	388.64	56.39	NO
20000.	0.5473	6	1.0	1.4 10000.0	63.58	501.12	61.67	NO
25000.	0.4494	6	1.0	1.4 10000.0	63.58	609.89	66.13	NO
30000.	0.3802	6	1.0	1.4 10000.0	63.58	715.70	70.04	NO
40000.	0.2904	6	1.0	1.4 10000.0	63.58	920.31	75.60	NO
50000.	0.2345	6	1.0	1.4 10000.0	63.58	1117.50	80.24	NO

MAXIMUM 1-HR CONCENTRATION AT OR BEYOND 1. M:

269.	2.926	3	8.0	8.5	2560.0	26.69	31.34	18.81	NO

DWASH= MEANS NO CALC MADE (CONC = 0.0)
DWASH=NO MEANS NO BUILDING DOWNWASH USED
DWASH=HS MEANS HUBER-SNYDER DOWNWASH USED
DWASH=SS MEANS SCHULMAN-SCIRE DOWNWASH USED
DWASH=NA MEANS DOWNWASH NOT APPLICABLE, X<3*LB

*** INVERSION BREAK-UP FUMIGATION CALC. ***
CONC (UG/M**3) = 0.000
DIST TO MAX (M) = 1844.65

DIST TO MAX IS < 2000. M. CONC SET = 0.0

****
*** SUMMARY OF SCREEN MODEL RESULTS ***
****

CALCULATION PROCEDURE	MAX CONC (UG/M**3)	DIST TO MAX (M)	TERRAIN HT (M)
SIMPLE TERRAIN	2.926	269.	0.

AIR MONITORING STATION COOPERATION AGREEMENT

This Air Monitoring Station Cooperation Agreement ("Agreement") is effective as of July 1, 2010 ("Effective Date"), by and between Calpine King City Cogen, LLC ("CKCC"), Aera Energy, LLC ("AERA"), Chevron U.S.A., Inc. ("CVX"), Salinas River Cogeneration Company and Sargent Canyon Cogeneration Company ("Salinas/Sargent"), and the Monterey Bay Unified Air Pollution Control District ("MBUAPCD") Each a "Party," and combined, the "Parties").

RECITALS

WHEREAS, due to the limited number of air monitoring stations in the region, the Parties desire to participate in the usage of an air monitoring station ("Station"), and share the costs associated with MBUAPCD's operation and maintenance thereof as further described herein; and

WHEREAS, a Station is currently located at the San Lorenzo Middle School, 415 Pearl Street, King City, CA 93930

WHEREAS, from time to time MBUAPCD will agree to (i) operate and maintain the Station, (ii) provide separate data reports for each of the Parties, and (iii) submit such data reports to the appropriate governmental agencies on behalf of each of the respective Parties (except for MBUAPCD); and

WHEREAS, MBUAPCD wishes to maintain the Station at its current location at, to meet the Parties monitoring requirements and the Parties have agreed to share the cost thereof.

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which the Parties acknowledge, the parties intending to be legally bound agree as follows:

1) Replacement of Outdated Equipment. MBUAPCD will replace any outdated equipment, as described on Exhibit B, on the Station. The Parties named above shall reimburse MBUAPCD as defined in Cost Sharing Section 3 below for the invoiced replacement of outdated equipment costs incurred by MBUAPCD including, but not limited to invoiced labor and administrative costs incurred by MBUAPCD.

2) Shared Services. MBUAPCD will perform the services set forth in Exhibit C, attached hereto and made a part hereof (the "Services"), on behalf of all the Parties. Exhibit C may be modified from time to time in writing by the Parties.

3) Cost Sharing. The costs and expenses for replacement of outdated equipment and invoiced Services shall be shared among the Parties as follows:

   i) CKCC shall pay sixteen and three-quarters percent (16.75%);

   ii) AERA shall pay sixteen and three-quarters percent (16.75%);

iii) CVX shall pay sixteen and three-quarters percent (16.75%);

iv) Salinas/Sargent shall pay sixteen and three-quarters percent (16.75%); and

v) MBUAPCD shall pay thirty-three percent (33.00%)

4) Additional Costs. AERA, CVX, Salinas/Sargent and CKCC shall each pay to MBUAPCD one fifth ($1/5^{th}$) the cost of monthly invoiced lease and utility charges for the Station (collectively, the "Monthly Reimbursement Amount"). For convenience, MBUAPCD will invoice each of AERA, CVX, Salinas/Sargent and CKCC for such Party's share of the Monthly Reimbursement Amount. All invoices shall be supported with copies of lease and utility receipts and sent to the addresses set forth in Section 6 below.

5) Billing. MBUAPCD will separately invoice CKCC, AERA, CVX, and Salinas/Sargent quarterly, on a net thirty (30) day basis for their respective share of the costs, as set forth in Section 3 above, for the invoiced Services performed by MBUAPCD. All invoices shall be supported with receipts and a description of the work performed and sent to the following:

a) Calpine King City Cogen, LLC
750 Metz Road
King city, CA 93930
Attn: Accounts Payable

b) Aera Energy, LLC
Star Route Box 50
66893 Sargent Canyon Road
San Ardo, CA 93450
Attn: Environmental Advisor

c) Chevron U.S.A., Inc.
P. O. Box 1392
Bakersfield, CA 93302
Attn: San Ardo Air Specialist

d) Salinas River Cogeneration Company
P. O. Box 80778
Bakersfield, CA 93380
Attn: Accounts Payable

e) Sargent Canyon Cogeneration Company
PO Box 81018
Bakersfield, CA 93380
Attn: Accounts Payable

They may also be sent to such other address as any Party may designate by notice complying with the terms of this Section 8. Each such notice shall be deemed delivered (i) on the date actually delivered if by messenger or courier service; (ii) on the date of confirmed receipt of

by facsimile; and (iii) on the date upon which the return receipt is signed or delivery is refused or the notice is designated by the postal authorities as not deliverable, as the case may be, if mailed.

6) Choice of Law. This Agreement shall be governed by the laws of the State of California.

7) Termination. This Agreement may be terminated by any of the Parties hereto upon sixty (60) days prior written notice to each of the other Parties.

8) Counterparts. This Agreement may be executed in counterparts. Each signed counterpart shall be deemed original and all signed counterparts taken together shall constitute one and the same Agreement, which shall be binding and effective as to all the Parties.

* * *

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IN WITNESS WHEREOF, the Parties hereto have executed this Agreement as of the dates written below.

CALPINE KING CITY COGEN, LLC

By: William Fung

Title: Vice President

Date: 6/17/10

MONTEREY BAY UNIFIED AIR POLLUTION CONTROL DISTRICT

By: _____

Title: _____

Date: _____

AERA ENGERGY, LLC

By: _____

Title: _____

Date: _____

CHEVRON U.S.A.

By: _____

Title: _____

Date: _____

SALINAS RIVER COGENERATION COMPANY

By: _____

Title: _____

Date: _____

SARGENT CANYON COGENERATION COMPANY

By: _____

Title: _____

Date: _____

IN WITNESS WHEREOF, the Parties hereto have executed this Agreement as of the dates written below.

CALPINE KING CITY COGEN, LLC

_____

By: _____

Title: _____

Date: _____

MONTEREY BAY UNIFIED AIR POLLUTION CONTROL DISTRICT

_____

By: _____

Title: _____

Date: _____

AERA ENGERGY, LLC

_____

By: Jeff Watson

Title: Sr. Buyer

Date: 4-15-2010

CHEVRON U.S.A.

_____

By: _____

Title: _____

Date: _____

10 APR 22 A9:37

SALINAS RIVER COGENERATION COMPANY

_____

By: _____

Title: _____

Date: _____

SARGENT CANYON COGENERATION COMPANY

_____

By: _____

Title: _____

Date: _____

IN WITNESS WHEREOF, the Parties hereto have executed this Agreement as of the dates written below.

CALPINE KING CITY COGEN, LLC

_____

By: _____

Title: _____

Date: _____

AERA ENGERGY, LLC

_____

By: _____

Title: _____

Date: _____

CHEVRON U.S.A.

VAN BRATCHER

By: Van Bratcher

Title: ASSISTANT SECRETARY

Date: 5/18/2010

SALINAS RIVER COGENERATION COMPANY

_____

By: _____

Title: _____

Date: _____

SARGENT CANYON COGENERATION COMPANY

_____

By: _____

Title: _____

Date: _____

MONTEREY BAY UNIFIED AIR POLLUTION CONTROL DISTRICT

_____

By: _____

Title: _____

Date: _____

IN WITNESS WHEREOF, the Parties hereto have executed this Agreement as of the dates written below.

CALPINE KING CITY COGEN, LLC

_____

By: _____

Title: _____

Date: _____

AERA ENGERGY, LLC

_____

By: _____

Title: _____

Date: _____

CHEVRON U.S.A.

_____

By: _____

Title: _____

Date: _____

SALINAS RIVER COGENERATION COMPANY

Kelly Lucas

By: KELLY LUCAS

Title: EXECUTIVE DIRECTOR

Date: APRIL 20, 2010

SARGENT CANYON COGENERATION COMPANY

Kelly Lucas

By: KELLY LUCAS

Title: EXECUTIVE DIRECTOR

Date: APRIL 20, 2010

MONTEREY BAY UNIFIED AIR POLLUTION CONTROL DISTRICT

_____

By: _____

Title: _____

Date: _____

IN WITNESS WHEREOF, the Parties hereto have executed this Agreement as of the dates written below.

CALPINE KING CITY COGEN, LLC

_____

By: _____

Title: _____

Date: _____

MONTEREY BAY UNIFIED AIR POLLUTION CONTROL DISTRICT

_____

By: [signature]

Title: APCO

Date: 4/16/10

AERA ENGERGY, LLC

_____

By: _____

Title: _____

Date: _____

CHEVRON U.S.A.

_____

By: _____

Title: _____

Date: _____

SALINAS RIVER COGENERATION COMPANY

_____

By: _____

Title: _____

Date: _____

SARGENT CANYON COGENERATION COMPANY

_____

By: _____

Title: _____

Date: _____

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EXHIBIT A

AIR MONITORING STATION EQUIPMENT

a)	TECO 49C Ozone Analyzer
b)	Station temperature monitor XTI LM35
c)	Met System; RM Young or Met One
d)	PM10 Tisch instrument – new purchase reconditioned monitor
e)	Dell Optiplex 320 Data logger
f)	Building 8 by 10 foot with decking on roof
g)	Met tower
h)	2-instrument racks

EXHIBIT B

OUTDATED EQUIPMENT

a)	Ozone analyzer
b)	Ozone calibrator for station auto calibrations
c)	Ozone transfer standard calibrator
d)	Data logger system with strip chart printing

EXHIBIT C

MBUAPCD'S SCOPE OF SERVICES

MBUAPCD shall operate and maintain the Station and produce data reports for each of the Parties in accordance with the provisions of this Agreement and the scope of services outlined below. Services to be performed shall include, but not be limited to, the following:

1. Air Monitoring Parameters

MBUAPCD shall measure and record the air monitoring parameters as follows:

(a) Ozone (O3)
(b) Inhalable Particulates (PM10)
(c) Wind Speed (WSA)
(d) Wind Direction (WDA)
(e) Station Temperature (STM)
(f) Ambient Temperature (ATM)

2. Data processing

MBUAPCD shall perform all data processing activities and complete automated operation of the calibration systems procedures at the Station.

3. Operation and Maintenance

MBUAPCD shall perform all the required operation and maintenance work as follows:

(a) Total responsibility for all monitoring;
(b) All routine maintenance;
(c) All routine quality assurance activities;
(d) All emergency maintenance and field repairs;
(e) All site visits and site checks;
(f) Preventative maintenance;
(g) All calibration activities;
(h) Traceability to NIST standards;
(i) Weekly precision checks minimum;
(j) Week Level 1 calibrations;
(k) Performance audits (completed by CARB);
(l) Data processing and quality assurance reviews of data;
(m) Daily remote telemetry access to data;
(n) Daily quality assurance review of data;
(o) Semi-annual multipoint calibrations on all gaseous analyzers;
(p) Semi-annual calibration on PM10 sampler;
(q) Semi-annual meteorological sensor calibration; and
(r) Building structure service and safety updates.

4. Equipment Malfunction

If an event occurs which causes the station to become non-operational, the Parties shall be notified as soon as possible to follow their respective permit conditions and internal reporting procedures.

5. Report and Data Outputs

MBUAPCD shall perform all the required report and data output work as follows:

(a) Submit a detailed monthly report summarizing the entire operation of the Station;
(b) Submit monthly data summaries and reports to the Parties in hard copy and electronic forms within thirty (30) days after the end of each month of monitoring;
(c) Submit an annual data summary report to the Parties in hard copy and electronic forms within thirty (30) days after the end of the calendar year; and
(d) Modify these procedures, as requested by the Parties in writing.