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December 13, 2010

Christine Stora
Compliance Project Manager
California Energy Commission
1516 9th Street
Sacramento, CA 95814

Re: Malburg Generating Station (Docket 01-AFC-25C) Petition for Modification

Dear Ms. Stora:

Enclosed please find six copies and three CD's of Bicent (California) Malburg's Petition for Modification. The Petition seeks to modify Conditions of Certification AQ-6 and AQ-7 to allow two (rather than one) startups and shutdowns during annual maintenance of the Malburg Generating Station. This modification is sought as a result of direction given to Bicent by the South Coast Air Quality Management District Hearing Board. As proposed, the modifications will not result in any significant environmental impacts. All applicable laws, ordinances, regulations and standards will be complied with and only two Conditions of Certification need to be modified for the new startup and shutdown schedule.

Also, pursuant to our recent conversation, please find enclosed a list of property owners and residences within 1,000 feet of the project (six copies).

If you have any questions regarding this petition, please feel free to contact me at (949) 760-5228.

Very truly yours,

Richard J. McNeil

RJM:sc
Enclosures

	PARCEL	OWNERFIRST	OWNERLAST	MAILNUMBER	MAILSTREET	MAILCITY	MAILSTATE	MAILZIP
1	6308 002 900	Vernon City		4305	S Santa Fe Ave	Vernon	CA	90058
2	6303 014 016	Alsuda Enterprises			Po Box 49051	Los Angeles	CA	90049
3	6303 021 014	Leonis Investments Llc		300	E Esplanade Dr #2100	Oxnard	CA	93036
4	6303 022 001	46th Street Investors		2140	Rockwood Dr	Sacramento	CA	95864
5	6303 022 002	Mohammad	Hanifusman	2650	E 46th St	Vernon	CA	90058
6	6303 022 003	Leonis C & D Leonie	Malburg	2833	Leonis Blvd #111	Vernon	CA	90058
7	6303 022 004	Leonis & Dominica	Malburg	2833	Leonis Blvd #111	Vernon	CA	90058
8	6303 022 005	Bradmore Investment Co Ltd		721	Santa Monica Blvd	Santa Monica	CA	90401
9	6303 022 006	Steve	Joo	2909	Leonis Blvd	Vernon	CA	90058
10	6303 022 007	B & K First Llc		17708	Heron Ln	Canyon Country	CA	91387
11	6303 022 009	Vernon Developers		1201	S Olive St	Los Angeles	CA	90015
12	6303 022 800	Casino Realty Inc		524	Chapala St	Santa Barbara	CA	93101
13	6303 023 002	Mz Investments Llc		2820	Leonis Blvd	Vernon	CA	90058
14	6303 023 003	Malburg 2001 Trust		2833	Leonis Blvd #111	Vernon	CA	90058
15	6303 023 004	Fleischman Trust & Fleischman Art	Arthur	2767	Butter Creek Dr	Pasadena	CA	91107
16	6303 023 005	Samuel & Marie D	Givertz	5256	Armida Dr	Woodland Hills	CA	91364
17	6303 023 006	Richard Brewer Trust		73091	Country Club Dr #a42	Palm Desert	CA	92260
18	6303 023 007	Leonis & Dominica	Malburg	2833	Leonis Blvd	Vernon	CA	90058
19	6303 023 008	Gamm Enterprises L P		16902	Coral Cay Ln	Huntington Park	CA	92649
20	6303 023 009	Joy Max Trading Inc		1120 1/2	S Main St	Los Angeles	CA	90015
21	6303 023 010	Joy Max Trading Inc		1120 1/2	S Main St	Los Angeles	CA	90015
22	6303 023 011	Leonis & Dominica	Malburg	2833	Leonis Blvd	Vernon	CA	90058
23	6303 024 008	Randall Foods Inc			Po Box 2669	Huntington Park	CA	90255
24	6303 024 009	Nieves Family L P		545	N Pennsylvania Ave	Glendora	CA	91741
25	6303 024 010	Randall Foods Inc			Po Box 2669	Huntington Park	CA	90255
26	6303 024 011	Randall Foods Inc			Po Box 2669	Huntington Park	CA	90255
27	6303 024 012	Nieves Family L P		545	N Pennsylvania Ave	Glendora	CA	91741
28	6303 024 016	Nadrem Assoc		2928	Leonis Blvd	Vernon	CA	90058
29	6303 024 017	Joseph & Jill	Poliner	336	9th St	Manhattan Beach	CA	90266
30	6303 024 018	L Ferrell Trust & Ferrell Willia	William	2906	Leonis Blvd	Los Angeles	CA	90058
31	6303 029 015	The City Of Vernon		4305	S Santa Fe Ave	Vernon	CA	90058
32	6303 029 016	Owens Brockway Glass Container Inc		1	Seagate	Toledo	OH	43666
33	6303 029 017	Owens Brockway Glass Container Inc		1	Seagate	Toledo	OH	43666
34	6303 029 900	Vernon City		4305	S Santa Fe Ave	Vernon	CA	90058
35	6308 001 022	George	Van Fossan	80	Plaza Cuesta	San Juan Capistrano	CA	92675
36	6308 001 023	Lee	Barab	4535	S Soto St	Vernon	CA	90058
37	6308 001 024	Grossman Family		2727	E 46th St	Vernon	CA	90058
38	6308 001 034	Hun Ya	Kao	385	S Lemon Ave #e158	Walnut	CA	91789
39	6308 002 006	2761 Fruitland Avenue Llc		2761	Fruitland Ave	Vernon	CA	90058
40	6308 002 007	2761 Fruitland Avenue Llc		2761	Fruitland Ave	Vernon	CA	90058
41	6308 002 009	Ramin & Betty	Youabian	4825	S Soto St	Vernon	CA	90058
42	6308 002 010	Oliver E	Clark	2716	Leonis Blvd	Vernon	CA	90058

43	6308 002 011	Oliver E	Clark	2716	Leonis Blvd	Los Angeles	CA	90058
44	6308 002 012	Stanley & Jennifer	Kim	345	Corona Dr	La Canada	CA	91011
45	6308 002 013	OE Clark Paper Box Co		2716	Leonis Blvd	Vernon	CA	90058
46	6308 002 014	Anne	Scott	10104	Empyrean Way #204	Los Angeles	CA	90067
47	6308 002 015	Anne	Scott	10104	Empyrean Way #204	Los Angeles	CA	90067
48	6308 002 016	Clark	Oliver	2716	Leonis Blvd	Vernon	CA	90058
49	6308 002 017	Clark	Oliver	2716	Leonis Blvd	Vernon	CA	90058
50	6308 002 018	Pasha & Associates Llc		14622	Ventura Blvd #763	Sherman Oaks	CA	91403
51	6308 002 019	Mardochee & Lubov	Azria	2761	Fruitland Ave	Vernon	CA	90058
52	6308 002 020	Mardochee & Lubov	Azria	2761	Fruitland Ave	Vernon	CA	90058
53	6308 002 902	Vernon City		4305	S Santa Fe Ave	Vernon	CA	90058
54	6308 003 009	First Streamline Management Llc		2670	Leonis Blvd	Vernon	CA	90058
55	6308 003 010	First Streamline Management Llc		2670	Leonis Blvd	Vernon	CA	90058
56	6308 003 012	Angelus Sanitary Can Machine Co		4900	Pacific Blvd	Vernon	CA	90058
57	6308 003 014	Mci Investment Group Inc		2615	Fruitland Ave	Vernon	CA	90058
58	6308 003 019	Ed	Elsner	4900	Pacific Blvd	Vernon	CA	90058
59	6308 003 020	Elsner Ed Tr R & E Family Trust		1708	Milan Ave	South Pasadena	CA	91030
60	6308 003 021	Angelus Sanitary Can Machine Co		4900	Pacific Blvd	Vernon	CA	90058
61	6308 003 022	Angelus Sanitary Can Machine Co		4900	Pacific Blvd	Los Angeles	CA	90058
62	6308 003 023	Stephane	Vachon	5050	Pacific Blvd	Vernon	CA	90058
63	6308 003 024	Mci Investment Group Inc		2615	Fruitland Ave	Vernon	CA	90058
64	6308 003 807	Ai & Sf Ry Co Sb Of E Par 59 Map 804-19-		4901	Seville Ave	Los Angeles	CA	90058
65	6308 004 006	Victor Bruno / Lee & Patricia	New	2639	Leonis Blvd	Vernon	CA	90058
66	6308 004 007	Victor Bruno / Lee & Patricia	New	2639	Leonis Blvd	Vernon	CA	90058
67	6308 004 008	Victor	Bruno	2639	Leonis Blvd	Los Angeles	CA	90058
68	6308 004 009	Suresh K & Anita	Nandwani	4632	Pacific Blvd	Vernon	CA	90058
69	6308 004 010	Young S	Chang	343	Pioneer Dr #1605	Glendale	CA	91203
70	6308 004 011	Jeremy J & Noble Donna	Jones	10412	Greenbrier Rd	Santa Ana	CA	92705
71	6308 004 012	Jose L & Lidia O	Guerra	8006	Danvers St	Downey	CA	90240
72	6308 004 013	2665 Leonis Boulevard Llc		2761	Fruitland Ave	Vernon	CA	90058
73	6308 005 007	Florman Family L P		4580	Pacific Blvd	Vernon	CA	90058
74	6308 005 009	Leo Hollander Trust	Leo	6560	W Rogers Cir #19	Boca Raton	FL	33487
75	6308 009 024	George W	Elftman	2825	Canterbury Rd	San Marino	CA	91108
76	6308 009 025	Marilyn S	Erlich	2413	Century Hl	Los Angeles	CA	90067
77	6308 009 027	Shlomo	Khoresh	4641	Pacific Blvd	Vernon	CA	90058
78	6308 009 028	Seymour & Shirley	Lehrer	975	Knollwood Dr	Santa Barbara	CA	93108
79	6308 009 029	Chandler Stephen Co		1592	Virginia Rd	San Marino	CA	91108
80	6308 010 016	Fe & J Inc		5075	Pacific Blvd	Vernon	CA	90058
81	6308 010 017	Fe & J Inc		5075	Pacific Blvd	Vernon	CA	90058
82	6308 010 018	Fe & J Inc		5075	Pacific Blvd	Vernon	CA	90058
83	6308 010 019	Nor Center Llc		2169	Haven Dr	Glendale	CA	91208
84	6308 010 020	Ruy A	Gomez	319	W 47th St	Los Angeles	CA	90037
85	6308 010 021	Huas Investment Group Llc		424	S San Pedro St	Los Angeles	CA	90013

86	6308 010 022	Henry H	Gilmore		Po Box 58041	Vernon	CA	90058
87	6308 010 023	Pi Yu & Shren C	Lin & Ou	4903	Pacific Blvd	Vernon	CA	90058
88	6309 018 003	5140 Pacific Blvd Llc		16109	Dickens St	Encino	CA	91436
89	6309 018 004	Geneva M	Efurd	40177	Corte Peralta	Murrieta	CA	92562
90	6309 018 005	Geneva M	Efurd	40177	Corte Peralta	Murrieta	CA	92562
91	6309 018 006	Kokis Enterprises Llc		1036	S Ynez Ave	Monterey Park	CA	91754
92	6309 018 007	Kokis Enterprises Llc		1036	S Ynez Ave	Monterey Park	CA	91754
93	6309 018 009	5140 Pacific Blvd Llc		16109	Dickens St	Encino	CA	91436
94	6309 019 002	Aircraft X Ray Laboratories Inc		5216	Pacific Blvd	Huntington Park	CA	90255
95	6309 026 012	51st Street Partnership		2700	Fruitland Ave	Vernon	CA	90058
96	6309 026 028	David Um & Un No	Young	2726	Fruitland Ave	Vernon	CA	90058
97	6309 026 033	Soto Industrial Center		5657	E Washington Blvd	Los Angeles	CA	90040
98	6309 026 034	Soto Industrial Center		5657	E Washington Blvd	Los Angeles	CA	90040
99	6309 026 035	David Um & Un No	Young	2726	Fruitland Ave	Vernon	CA	90058
100	6309 026 036	51st Street Partnership		2700	Fruitland Ave	Vernon	CA	90058
101	6310 009 014	Owens Illinois Glass Container Inc		1	Seagate #50sg	Toledo	OH	43666
102	6310 009 015	Owens Illinois Glass Container Inc		1	Seagate #50sg	Toledo	OH	43666

STATE OF CALIFORNIA
ENERGY RESOURCES
CONSERVATION AND DEVELOPMENT COMMISSION

In the Matter of:	)	Docket No. 01-AFC-25C
	)	
Malburg Generating Station	)	PETITION FOR MODIFICATION
Power Plant Project (Bicent (California)	)	
Malburg) LLC	)	
	)	
	)	

Pursuant to California Code of Regulations, Title 20, Section 1769(a), Bicent (California) Malburg LLC hereby petitions the Commission for modification of Conditions of Certification AQ-6 and AQ-7 (related to the number of permitted startups and shutdowns for two combustion generating turbines) at the Malburg Generating Station (the "Project"), Docket No. 01-AFC-25C.

SECTION 1 PRELIMINARY STATEMENT

1.1 Overview Of Proposed Modification

Bicent (California) Malburg LLC ("Bicent") hereby submits this Petition for Modification of Conditions of Certification AQ-6 and AQ-7 for the Malburg Generating Station Project (MGS"), located in Vernon, California. The proposed modification would allow a maximum of two (rather than one) startups and shutdowns per day of MGS' two combustion generating turbines during a period not to exceed five (5) days per year (within a thirty (30) day window of time). During this period of time, additional initial plant startups and shutdowns are required to accommodate annual maintenance of the turbines. This modification is necessary in order for Bicent to comply with requirements established by the South Coast Air Quality Management District Hearing Board during past hearings for variances that were sought by Bicent to accommodate the required annual maintenance turbine testing.

This Petition for Modification complies with the California Energy Commission's Power Plant Site Certification Regulations (20 California Code of Regulations, Section 1769(a)(1) (Post Certification Amendments and Changes). These requirements specify that a Petition for Modification must contain the following information:

(A) A complete description of the proposed modifications, including new language for any conditions that will be affected.

(B) A discussion of the necessity for the proposed modifications.

(C) If the modification is based on information that was known by the petitioner during the certification proceeding, an explanation why the issue was not raised at that time.

(D) If the modification is based on new information that changes or undermines the assumptions, rationale, findings, or other bases of the final decision, an explanation of why the change should be permitted.

(E) An analysis of the impacts the modification may have on the environment and proposed measures to mitigate any significant adverse impacts.

(F) A discussion of the impact of the modification on the facility's ability to comply with applicable laws, ordinances, regulations, and standards.

(G) A discussion of how the modification affects the public.

(H) A list of property owners potentially affected by the modification.

(I) A discussion of the potential effect on nearby property owners, the public and the parties in the application proceedings.

1.2 Summary Of Environmental Impacts

The CEC Siting Regulations require a discussion of the potential impacts of the modification on the environment and any proposed measures to mitigate any significant impacts. Section 3 of this Petition for Modification includes a discussion of potential environmental impacts associated with the proposed modification and concludes that there will be no significant environmental impacts associated with implementing the action proposed by the modification sought herein.

1.3 Explanation Of Modification

The CEC Siting Regulations also require a discussion of the whether the proposed modification is based on information known by the petitioner during the certification proceeding. Conditions of Certification AQ-6 and AQ-7 provide that emissions of oxides of nitrogen "(NOx") and of carbon monoxide ("CO") not exceed a concentration limit of 2 parts per million ("ppm"), except during turbine startups and shutdowns and that turbine startups and shutdowns be limited to one per day. At the time of the May 2003 CEC Final Commission Decision, it was believed, based on information then available from the manufacturer of the turbines, that annual maintenance activities could be conducted within these limitations. However, during actual annual maintenance activities conducted in 2009 and 2010, it was necessary for Bicent to obtain a variance from the South Coast Air Quality Management District ("SCAQMD") to permit more than one startup and shutdown to accommodate the necessary testing. At the last variance hearing in this regard, on May 5, 2010, the SCAQMD Hearing Board admonished Bicent that it could expect to be denied a variance for the required annual maintenance testing in 2011 because such testing would not be "beyond the reasonable control of the petitioner" (which finding is necessary to be made under California Health & Safety Code Section 42352 and District Rule 515 in order for the Hearing Board to grant a variance).

1.4 Consistency Of Modification With License

The CEC Siting Regulations also require a discussion of whether the proposed modification is based upon new information that changes or undermines the assumptions, rationale, findings, or bases of the final decision. If the MGS Project is no longer consistent with the certification, the Project applicant must provide an explanation why the modification should be permitted. In this case, the proposed modification to Conditions of Certification AQ-6 and AQ-7 does not undermine the assumptions, rationale, findings, or other bases of the May 2003 CEC Final Commission Decision.

SECTION 2 DESCRIPTION OF PROPOSED MODIFICATION

2.1 Malburg Generating Station Project

This section includes a complete description of the proposed modification to Conditions of Certification AQ-6 and AQ-7.

2.2 Setting And Project Description

The Malburg Generating Station is located at 4963 South Soto Street in the City of Vernon, California. It is located on a 3.4 acre parcel within a predominantly industrial area. The MGS Project consists of two natural gas-fired combustion turbine generators equipped with dry low-NOx combusters for control of oxides of nitrogen; two heat recovery steam generators; one condensing steam turbine generator; a cooling tower and supporting equipment. The MGS Project also employs selective catalyst reduction ("SCR") and oxidizing catalysts to meet the current Best Available Control Technology ("BACT") requirements of the SCAQMD.

2.3 Description Of Proposed Modification

The proposed modification involves a revision to Conditions of Certification AQ-6 and AQ-7 contained in the May 2003 Final Commission Decision. In summary, these two conditions allow a maximum of one startup and shutdown per day, per turbine. The modification would allow a maximum of two startups and two shutdowns per day for five days per year (within a 30 day window of time) to accommodate required annual maintenance of the turbines.

2.4 Revisions And Changes To Project Elements

The proposed modification described in Section 2.3 does not involve any changes to the MGS Project elements.

SECTION 3 ENVIRONMENTAL ANALYSIS OF THE PROPOSED MODIFICATION

The proposed modification to Conditions of Certification AQ-6 and AQ-7 would not involve changes to the findings and conclusions of the May 2003 CEC Final Commission Decision and all subsequent MGS Project Modifications respecting the environmental disciplines identified below.

- Public Health
- Worker Safety/Fire Protection
- Hazardous Materials Management
- Waste Management
- Biological Resources
- Soil and Water Resources
- Cultural Resources
- Geological and Paleontology
- Land Use
- Traffic and Transportation
- Visual Resources

- Noise and Vibration
- Socioeconomics

This Petition for Modification contains all of the information that is required pursuant to the CEC's Siting Regulations. Pursuant to Section 1769(a)(1)(E), the following section provides an environmental analysis of the potential air quality impacts associated with the proposed modification to Conditions of Certification AQ-6 and AQ-7.

3.1 Air Quality

3.1.1 Environmental Baseline

The discussion of the environmental baseline in Section V.A of the May 2003 Final Commission Decision adequately describes the baseline air quality conditions for the purposes of the modification proposed herein. The MGS Project remains subject to the national ambient air quality standards ("NAAQS's"), including those standards applicable to oxides of nitrogen and carbon monoxide. As stated therein, the South Coast Air Basin is in attainment for oxides of nitrogen and in non-attainment for carbon monoxide. The modification proposed herein also has been submitted to the South Coast Air Quality Management District in the form of a minor permit revision to the MGS Project's Title V permit. A copy of that application is included as Attachment A to this Petition for Modification.

3.1.2 Environmental Consequences

AQ C-10, as amended, establishes hourly, daily and annual emission limits for oxides of nitrogen and carbon monoxide. AQ C-10 limits NOx emissions to 55 pounds/hour, 230 pounds/day and 53,044 pounds per year and limits CO emissions to 140 pounds/hour, 245 pounds/day and 37,768 pounds per year. The MGS has operated within these limits, including during the variance periods during which annual maintenance was conducted in 2009 and 2010 and there have been no excess emissions. The actual emissions during the variance period have been less than those generated during normal plant operations. Therefore, it is not anticipated that there will be any environmental consequences of significance as a result of the implementation of the proposed modification.

3.1.3 Mitigation Measures

As discussed in Section 3.1.2, the proposed modification will not result in an increase in emissions or a significant impact to the environment. However, Bicent proposes to limit the number of days during which two startups and shutdowns are permitted to five (5) days per year, within a thirty (30) day window of time, during which required annual maintenance will be conducted.

3.2 Cumulative Impacts

The proposed modification to Conditions of Certification AQ-6 and AQ-7, as amended, will not induce any cumulative impacts.

3.3 Compliance With LORS

The proposed modification to Conditions of Certification AQ-6 and AQ-7, as amended, will comply with all applicable LORS previously identified in the May 2003 CEC Final Commission Decision and all subsequent modifications.

3.4 Conclusion

The proposed modification to Conditions of Certification AQ-6 and AQ-7, as amended, would not involve substantial changes to the findings and conclusions of the May 2003 CEC Final Commission Decision and all subsequent modifications thereto. None of the environmental disciplines that were the subject of the May 2003 CEC Final Commission Decision would be significantly impacted by the proposed modification to Conditions of Certification AQ-6 and AQ-7.

SECTION 4 PROPOSED MODIFICATION TO THE CONDITIONS OF CERTIFICATION

AQ-6 The 2 ppm NOx emission limit shall not apply during turbine commissioning, start-up and shutdown. The commissioning period shall not exceed 573 operating hours per turbine from the initial start-up. Following commissioning, start-ups shall not exceed 2 hours and the number of start-ups shall not exceed one per day per turbine~~.~~, except during required annual maintenance, when the number of start-ups shall not exceed two per day per turbine, for no more than 5 days within a 30 day window of time. Following commissioning, shutdowns shall not exceed 30 minutes and the number of shutdowns shall not exceed one per day per turbine~~.~~, except during required annual maintenance, when the number of shutdowns shall not exceed two per day per turbine, for no more than 5 days within a 30 day window of time. The City of Vernon shall provide the District and the CPM with the written notification of the initial start-up date. Written records of commissioning, start-ups and shutdowns shall be kept and made available to District and submitted to the CPM for approval.

Verification: The City of Vernon shall provide the District and the CPM with the written notification of the initial start-up date no later than 60 days prior to the start-up date. The City of Vernon shall report to the CPM for approval all emissions, fuel use and emission calculations during the commissioning period on a monthly basis as part of the monthly compliance report. The City of Vernon shall submit to the CPM for approval, a record of all startups and shutdowns including duration and date of occurrence on a quarterly basis as part of the quarterly emission report.

AQ-7 The 2 ppm CO emission limit shall not apply during turbine commissioning, start-up and shutdown. The commissioning period shall not exceed 573 operating hours per turbine from the initial start-up. Following commissioning, start-ups shall not exceed 2 hours and the number of start-ups shall not exceed one per day per turbine~~.~~, except during required annual maintenance, when the number of start-ups shall not exceed two per day per turbine, for no more than 5 days within a 30 day window of time. Following commissioning, shutdowns shall not exceed 30 minutes and the number of shutdowns shall not exceed one per day per turbine~~.~~, except during required annual maintenance, when the number of shutdowns shall not exceed two per day per turbine, for no more than 5 days within a 30 day window of time. The City of Vernon shall provide the District and CPM with the written notification of the initial start-up date. Written records of commissioning, start-ups and shutdowns shall be kept and made available to District and reported for approval to the CPM.

Verification: See Verification for Condition of Certification **AQ-6**.

SECTION 5 POTENTIAL EFFECTS ON THE PUBLIC

This section addresses potential effects on the public from the proposed modification to Conditions of Certification AQ-6 and AQ-7, as required by the CEC's Siting Regulations. The proposed modification will not have any adverse effect on the public, as discussed in

Section 3.1.2. The proposed modification will benefit the public because the MGS is an excellent source of low emissions, high efficiency electric power for southern California. MGS combustion turbine generators meet Best Available Control Technology emission levels, as established by the SCAQMD. Electric power generated by the MGS is a preferable to generation of electricity by older, less efficient and higher polluting power plants.

SECTION 6 EFFECT ON AND LIST OF PROPERTY OWNERS

The MGS Project is located in a predominantly industrial area and there are no adjacent or nearby property owners who will be affected by the proposed modification to Conditions of Certification AQ-6 and AQ-7. No list of affected property owners was included in the May 2003 CEC Final Commission Decision.

Pursuant to Section 1769(b)(1)(C), as an officer of Bicent, I hereby attest, under penalty of perjury, under the laws of the State of California, that the contents of this Petition are truthful and accurate to the best of my knowledge and belief.

DATED: October 18, 2010

Bicent (California) Malburg LLC

By: _____
Douglas Halliday
Chief Operating Officer

ATTACHMENT A

IRELL & MANELLA LLP
A REGISTERED LIMITED LIABILITY LAW PARTNERSHIP
INCLUDING PROFESSIONAL CORPORATIONS

1800 AVENUE OF THE STARS, SUITE 900
LOS ANGELES, CA 90067-4276
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WRITER'S DIRECT
TELEPHONE (949) 760-5228
rmcneil@irell.com

December 13, 2010

VIA OVERNIGHT EXPRESS

Chandrashekhar S. Bhatt
SCAQMD
21865 Copley Drive
Diamond Bar, CA

Re: Bicent (California) Malburg LLC -- Facility ID No. 155474

Dear Chandra:

Enclosed please find an application for a minor revision of the RECLAIM/Title V Permit held by Bicent (California) Malburg LLC for the Malburg Generating Station (4963 Soto Street, Vernon, CA 90058).

Bicent seeks the revision of Permit Conditions A99.3 and A99.4 (limiting the number of startups and shutdowns to one per day) to allow a maximum of two startups and two shutdowns per day during a period not to exceed five days per year (within a 30 day window of time) during which period of time initial plant startups and testing subsequent to required annual maintenance of the turbines is conducted.

Conditions A99.3 and A99.4 currently provide:

"A99.3 The 2 PPM NOX emission limit(s) shall not apply during turbine startups and shutdowns. The startups shall not exceed 2 hours per startup and the number of startup[s] shall not exceed one per day; Shutdowns shall not exceed 30 minutes per shutdown and the number of shutdown[s] shall not exceed one per day. Written records of startups and shutdowns shall be kept and made available to AQMD.

"A99.4 The 2 PPM CO emission limit(s) shall not apply during turbine startups and shutdowns. The startups shall not exceed 2 hours per startup and the number of startup[s] shall not exceed one per day; Shutdowns shall not exceed 30 minutes per shutdown and the number of shutdown[s] shall not exceed one per day. Written records of startups and shutdowns shall be kept and made available to AQMD.

The reason for the requested revision is that Bicent has been required to seek a variance from the SCAQMD Hearing Board from the foregoing permit conditions to accommodate initial plant startups and testing subsequent to required annual maintenance of its 2 natural gas-fired turbines once per year during each of the last two years. During the last variance hearing, the Hearing Board directed Bicent to seek a permit revision to accommodate more than one startup and shutdown per day during this startup/testing period in lieu of seeking a variance. The Hearing Board based this directive on California Health and Safety Code Section 42352 and District Rule 515, which provide that "[n]o variance shall be granted unless the hearing board makes all of the following findings ... (2) That, due to conditions beyond the reasonable control of the petitioner, requiring compliance would result in either (A) an arbitrary or unreasonable taking of property, or (B) the practical closing and elimination of a lawful business." The Hearing Board stated that annual maintenance activities are not "beyond the reasonable control" of Bicent since they are planned and are known to be necessary in advance of the variance period.

The modification sought qualifies as a minor permit revision under Rule 3000(b)(12)(A) inasmuch as the Title V permit, as it is proposed to be revised, would not require a significant change in permit conditions, would not require the relaxation of any permit condition and would not result in increased RECLAIM emissions. District Rule 3000(b)(12)(A) defines a minor permit revision as "any Title V permit revision that: (A)(i) does not require or change a case-by-case evaluation of: reasonably available control technology (RACT) pursuant to Title I of the federal Clean Air Act; or maximum achievable control technology (MACT) pursuant to 40 CFR Part 63, Subpart B; (ii) does not violate a regulatory requirement; (iii) does not require any significant change in monitoring terms or conditions in the permit; (iv) does not require relaxation of any recordkeeping, or reporting requirement, or term, or condition in the permit; (v) does not result in an emission increase of RECLAIM pollutants over the facility starting Allocation plus nontradeable Allocations, or higher Allocation amount which has previously undergone a significant permit revision process; (vi) does not result in an increase in emissions of a pollutant subject to Regulation XIII - New Source Review or a hazardous air pollutant; (vii) does not establish or change a permit condition that the facility has assumed to avoid an applicable requirement; (viii) is not an installation of a new permit unit subject to a New Source Performance Standard (NSPS) pursuant to 40 CFR Part 60, or a National Emission Standard for Hazardous Air Pollutants (NESHAP) pursuant to

40 CFR Part 61 or 40 CFR Part 63; and, (ix) is not a modification or reconstruction of any existing permit unit, resulting in new or additional NSPS requirements pursuant to 40 CFR Part 60, or new or additional NESHAP requirements pursuant to 40 CFR Part 61 or 40 CFR Part 63...."

In addition to Rule 3000(b)(12)(A), District Rule 3003(b) requires as follows:

"Application Content

(1) Initial Permit and Permit Renewal Applications

An applicant shall submit ... all information necessary to evaluate the subject facility and the application, to determine the applicability of and to impose all regulatory requirements, and to determine the fee amounts required pursuant to Regulation III - Permit Fees.

(2) Permit Revision Applications

The applicant shall submit the same information as specified in paragraph (b)(1) of this rule, but only to the extent that such information is related to the permit revision. If applicable, information required by paragraphs (c)(2) [requirement to submit additional information in order for an application to be deemed complete], (d)(2) [duty to provide additional information to determine compliance with requirements that became applicable after filing of the application] and (e)(2) [duty to provide additional information requested by the deadline established by the Executive Officer] of Rule 3005 shall also be provided."

Pursuant to Rule 3003(b), accompanying this letter are completed forms 400-A, 400-CEQA, 400-E-12, 500-A2 and 500-C1 in support of this request for a minor modification.

Also, District Rule 3005(2)(A) provides:

"An application requesting the use of minor permit revision procedures shall meet the requirements of, and be processed in accordance with Rule 3003 and shall include the following:

(i) A description of the change, the emissions resulting from the change, and any new regulatory requirements that will apply if the change occurs; and

(ii) Certification by a responsible official, consistent with paragraph (c)(7) of Rule 3003, that the requested revision meets the

criteria for use of minor permit revision procedures and a request that such procedures be used."

As noted above, a description of the change and the emissions resulting from the change is discussed herein and the appropriate attached forms describing the change and the emissions have been included herewith and have been signed by a responsible official, as defined in Rule 3003(c)(7).

As respects emissions, the following is a summary of the NOx and CO emission limitations for the gas turbines at the Bicent facility that are contained in the Facility Permit:

First, each turbine (Devices D27 and D36) is subject to NOx concentration limits of 2 PPMV [Rule 2005] and 110 PPMV natural gas [40 CFR Part 60, Subpart GG] and CO concentration limits of 2 PPMV natural gas [Rule 1303(a)(1) - BACT] and 2,000 PPMV natural gas (Rule 407].

Second, each turbine (and their associated duct burners, Devices D31 and D39) are subject to monthly CO emission limits of 7,633 lbs. (Condition A63.3)

Third, pursuant to District Rule 475, combusion contaminants may not exceed 11 pounds per hour or 23 milligrams per cubic meter. (Condition A327.1 provides that, in determining compliance with Rule 475, "combustion contaminant emissions may exceed the concentration limit or the mass emission limit listed, but not both limits at the same time").

Fourth, pursuant to Bicent's California Energy Commission license, each turbine is subject to NOx limits of 55 lbs/hr, 230 lbs/day and 53,044 lbs/year and CO limits of 140 lbs/hr, 245 lbs/day and 37,768 lbs/year.

There are other emission limitations contained in the Facility Permit for NOx and CO that are not impacted by this permit modification request. For example, Conditions A195.1 and A195.2 specify the averaging time and oxygen content to be used in calculating NOx and CO emissions. This condition does not apply to startups and shutdowns. Likewise, Condition C1.4 limits fuel usage to "no more than 330 MM cubic feet in any one calendar month." As stated in the Facility Permit, "[t]he purpose of [] [C]ondition [C1.4] is to ensure that the total PM10 emissions shall not exceed 2,438 lbs/month per turbine." The modification that is sought for startups and shutdowns does not implicate PM10 and, in any event, Bicent is and will remain in compliance with Condition C1.4.

As noted above, Bicent's permit exempts from the NOx and CO2 ppmv emission limit emissions which occur during one startup and shutdown per day (per turbine). During the periods in 2009 and 2010 that Bicent had variance coverage for the initial plant startups and testing subsequent to required annual maintenance, there were no excess emissions of NOx or CO.

Thank you for your consideration of this request for a modification of Bicent's permit. If there is any additional information that you require, please do not hesitate to contact me.

Very truly yours,

Richard J. McNeil

RJM:sc
Enclosures

South Coast Air Quality Management District

Form 400-A

Application For Permit To Construct and Permit To Operate

Mail Application To:
P.O. Box 4944
Diamond Bar, CA 91765

Tel: (909) 396-3385
www.aqmd.gov

Section A: Operator Information

1. Business Name of Operator To Appear On The Permit: Bicent (California) Malburg LLC

2. Valid AQMD Facility ID (Available on Permit or Invoice Issued by AQMD): 155474

3. Owner's Business Name (only if different from Business Name of Operator):

Section B: Equipment Location

4. Equipment Location Address:
For equipment operated at various locations in AQMD's jurisdiction, provide address of initial site

4963 S. Soto Street
Street Address

Vernon
City

CA,
State

90058
Zip Code

County: ☒ Los Angeles ○ Orange ○ San Bernardino ○ Riverside

Contact Name: Douglas Halliday

Contact Title: COO

Phone: (410) 770-9500

Fax:

E-Mail:

Section C: Permit Mailing Address

5. Permit and Correspondence Information:
☒ Check here if same as equipment location address

Street Address

City

State

Zip Code

Contact Name:

Contact Title:

Phone:

Fax:

E-Mail:

Section D: Application Type

The facility is in ○ RECLAIM ○ Title V ☒ RECLAIM & Title V Program (please check if applicable)

6. Reason for Submitting Application (Select only ONE):

- ○ New Construction (Permit to Construct)
- ○ Permitted Equipment Altered/ Modified Without Permit Approval*
- ○ Equipment Operating Without A Permit or Expired Permit*
- ○ Proposed Alteration/Modification to Permitted Equipment
- ○ Administrative Change
- ○ Change of Condition For Permit To Operate
- ○ Equipment On-Site But Not Constructed or Operational
- ○ Change of Condition For Permit To Construct
- ☒ Title V Application (Initial, Revisions, Modifications, etc.)
- ○ Change of Location—Moving to New Site
- ○ Compliance Plan
- ○ Facility Permit Amendment
- ○ Registration/Certification
- ○ Streamlined Standard Permit

Existing Or Previous Permit/Application Number:
(If you checked any of the items in this column, you MUST provide a existing Permit/ Application Number)
155474

* A Higher Permit Processing Fee applies to those items with an asterisk (Rule 301 (c) (1) (D)

7. Estimated Start Date of Operation/Construction (MM/DD/YYYY): 07-01-2006

8. Description of Equipment:
Combustion Turbine #1

9. Is this equipment portable AND will it be operated at different locations within AQMD's jurisdiction? ☒ No ○ Yes

10. For identical equipment, how many additional applications are being submitted with this application? (Form 400-A required for each) 4

11. Are you a Small Business as per AQMD's Rule 102 definition? (10 employees or less and total gross receipts are $500,000 or less, or a not-for-profit training center?) ☒ No ○ Yes

12. Has a Notice of Violation (NOV) or a Notice To Comply (NC) been issued for this equipment?
☒ No ○ Yes If yes, provide NOV/NC #:

Section E: Facility Business Information

13. What type of business is being conducted at this equipment location? Electricity generation

14. What is your businesses primary NAICS Code (North American Industrial Classification System)? 221112

15. Are there other facilities in the SCAQMD jurisdiction operated by the same operator? ☒ No ○ Yes

16. Are there any schools (K-12) within a 1000-ft. radius of the equipment physical location? ☒ No ○ Yes

Section F: Authorization/Signature

I hereby certify that all information contained herein and information submitted with this application is true and correct.

17. Signature of Responsible Official: D. Halliday

18. Title: Chief Operating Officer

19. Print Name: Douglas Halliday

20. Date: October 18, 2010

Check List:
- ☒ Form (s) signed and dated by authorized official
- ☒ Supplemental Equipment Form (400-E-XX or 400-E-GEN)
- ☐ CEQA Form (400-CEQA) attached
- ☒ Payment for permit processing fee attached

Your application will be rejected if any of the above items are missing.

AQMD USE ONLY	APPLICATION/TRACKING #	TYPE B C D	EQUIPMENT CATEGORY CODE:	FEE SCHEDULE: $	VALIDATION
ENG. A R DATE	ENG. A R DATE	CLASS I III IV	ASSIGNMENT Unit Engineer	CHECK/MONEY ORDER #	AMOUNT $	Tracking #

South Coast Air Quality Management District

Form 400-A

Application For Permit To Construct and Permit To Operate

Mail Application To:
P.O. Box 4944
Diamond Bar, CA 91765

Tel: (909) 396-3385
www.aqmd.gov

Section A: Operator Information

1. Business Name of Operator To Appear On The Permit: Bicent (California) Malburg LLC

2. Valid AQMD Facility ID (Available on Permit or Invoice Issued by AQMD): 155474

3. Owner's Business Name (only if different from Business Name of Operator):

Section B: Equipment Location

4. Equipment Location Address:
For equipment operated at various locations in AQMD's jurisdiction, provide address of initial site

4963 S. Soto Street
Street Address

Vernon — CA, — 90058
City — State — Zip Code

County: ☒ Los Angeles ○ Orange ○ San Bernardino ○ Riverside

Contact Name: Douglas Halliday

Contact Title: COO — Phone: (410) 770-9500

Fax: — E-Mail:

Section C: Permit Mailing Address

5. Permit and Correspondence Information:
☒ Check here if same as equipment location address

Street Address

City — State — Zip Code

Contact Name:

Contact Title: — Phone:

Fax: — E-Mail:

Section D: Application Type

The facility is in ○ RECLAIM ○ Title V ☒ RECLAIM & Title V Program (please check if applicable)

6. Reason for Submitting Application (Select only ONE):

- ○ New Construction (Permit to Construct)
- ○ Permitted Equipment Altered/ Modified Without Permit Approval*
- ○ Equipment Operating Without A Permit or Expired Permit*
- ○ Proposed Alteration/Modification to Permitted Equipment
- ○ Administrative Change
- ○ Change of Condition For Permit To Operate
- ○ Equipment On-Site But Not Constructed or Operational
- ○ Change of Condition For Permit To Construct
- ☒ Title V Application (Initial, Revisions, Modifications, etc.)
- ○ Change of Location—Moving to New Site
- ○ Compliance Plan
- ○ Facility Permit Amendment
- ○ Registration/Certification
- ○ Streamlined Standard Permit

Existing Or Previous Permit/Application Number:
(If you checked any of the items in this column, you MUST provide a existing Permit/ Application Number)
155474

* A Higher Permit Processing Fee applies to those items with an asterisk (Rule 301 (c) (1) (D)

7. Estimated Start Date of Operation/Construction (MM/DD/YYYY): 07-01-2006

8. Description of Equipment:
Combustion Turbine #2

9. Is this equipment portable AND will it be operated at different locations within AQMD's jurisdiction? ☒ No ○ Yes

10. For identical equipment, how many additional applications are being submitted with this application? (Form 400-A required for each) 4

11. Are you a Small Business as per AQMD's Rule 102 definition? (10 employees or less and total gross receipts are $500,000 or less, or a not-for-profit training center?) ☒ No ○ Yes

12. Has a Notice of Violation (NOV) or a Notice To Comply (NC) been issued for this equipment?
☒ No ○ Yes If yes, provide NOV/NC #:

Section E: Facility Business Information

13. What type of business is being conducted at this equipment location? Electricity generation

14. What is your businesses primary NAICS Code (North American Industrial Classification System)? 221112

15. Are there other facilities in the SCAQMD jurisdiction operated by the same operator? ☒ No ○ Yes

16. Are there any schools (K-12) within a 1000-ft. radius of the equipment physical location? ☒ No ○ Yes

Section F: Authorization/Signature

I hereby certify that all information contained herein and information submitted with this application is true and correct.

17. Signature of Responsible Official: D. Halliday

18. Title: Chief Operating Officer

19. Print Name: Douglas Halliday

20. Date: October 18, 2010

Check List:
- ☒ Form(s) signed and dated by authorized official
- ☒ Supplemental Equipment Form 400-E-XX or 400-E-GEN
- ☐ CEQA Form: 400-CEQA attached
- ☐ Payment for permit processing fee attached

Your application will be rejected if any of the above items are missing.

AQMD USE ONLY	APPLICATION/TRACKING #	TYPE B C D	EQUIPMENT CATEGORY CODE:	FEE SCHEDULE: $	VALIDATION
ENG. A R DATE	ENG. A R DATE	CLASS I III IV	ASSIGNMENT Unit Engineer	CHECK/MONEY ORDER #	AMOUNT $ / Tracking #

South Coast Air Quality Management District

Form 400-CEQA

California Environmental Quality Act (CEQA) Applicability

Mail Application To:
P.O. Box 4944
Diamond Bar, CA 91765

Tel: (909) 396-3385

www.aqmd.gov

The SCAQMD is required by state law, the California Environmental Quality Act (CEQA), to review discretionary permit project applications for potential air quality and other environmental impacts. This form is a screening tool to assist the SCAQMD in clarifying whether or not the project[1] has the potential to generate significant adverse environmental impacts that might require preparation of a CEQA document [CEQA Guidelines §15060(a)].[2] Refer to the attached instructions for guidance in completing this form.[3] For each Form 400-A application, also complete and submit one Form 400-CEQA. If submitting multiple Form 400-A applications for the same project at the same time, only one 400-CEQA form is necessary for the entire project. If you need assistance completing this form, contact Lori Inga at (909) 396-3109.

FACILITY INFORMATION

Business Name of Operator to Appear on the Permit:	Facility ID (6-Digit):
Bicent (California) Malburg LLC	155474

Project Description:

Two electric generators (change in condition)

REVIEW FOR EXEMPTION FROM FURTHER CEQA ACTION

Check "Yes" or "No" as applicable

	Yes	No	Is this application for:
A.	☒	○	**A CEQA and/or NEPA document previously or currently prepared that specifically evaluates this project?** If yes, a permit cannot be issued until a Final CEQA document and Notice of Determination is submitted.
B.	○	☒	**A request for a change of permittee only (without equipment modifications)?**
C.	○	☒	**Equipment certification or equipment registration** (qualifies for Rule 222)?
D.	○	☒	**A functionally identical permit unit replacement with no increase in rating or emissions?**
E.	○	☒	**A change of daily VOC permit limit to a monthly VOC permit limit?**
F.	○	☒	**Equipment damaged as a result of a disaster during state of emergency?**
G.	○	☒	**A Title V** (i.e., Regulation XXX) **permit renewal (without equipment modifications)?**
H.	○	☒	**A Title V administrative permit revision?**
I.	○	☒	**The conversion of an existing permit into an initial Title V permit?**

If "Yes" is checked for any question above, your application does not require additional evaluation for CEQA applicability. Skip to page 2, "SIGNATURES" and sign and date this form.

REVIEW OF IMPACTS WHICH MAY TRIGGER CEQA

Complete Sections I-VI by checking "Yes" or "No" as applicable. To avoid delays in processing your application(s), explain all "Yes" responses on a separate sheet and attach it to this form.

	Yes	No	Section I – General
1.	○	○	**Has this project generated any known public controversy regarding potential adverse impacts that may be generated by the project?** Controversy may be construed as concerns raised by local groups at public meetings; adverse media attention such as negative articles in newspapers or other periodical publications, local news programs, environmental justice issues, etc.
2.	○	○	**Is this project part of a larger project?**
			Section II – Air Quality
3.	○	○	**Will there be any demolition, excavating, and/or grading construction activities that encompass an area exceeding 20,000 square feet?**
4.	○	○	**Does this project include the open outdoor storage of dry bulk solid materials that could generate dust?** If Yes, include a plot plan with the application package.

[1] A "project" means the whole of an action which has a potential for resulting in physical change to the environment, including construction activities, clearing or grading of land, improvements to existing structures, and activities or equipment involving the issuance of a permit. For example, a project might include installation of a new, or modification of an existing internal combustion engine, dry-cleaning facility, boiler, gas turbine, spray coating booth, solvent cleaning tank, etc.

[2] To download the CEQA guidelines, visit http://ceres.ca.gov/env_law/state.html.

[3] To download this form and the instructions, visit http://www.aqmd.gov/ceqa or http://www.aqmd.gov/permit

	Yes	No	
5.	○	○	**Would this project result in noticeable off-site odors from activities that may not be subject to SCAQMD permit requirements?** For example, compost materials or other types of greenwaste (i.e., lawn clippings, tree trimmings, etc.) have the potential to generate odor complaints subject to Rule 402 – Nuisance.
6.	○	○	**Does this project cause an increase of emissions from marine vessels, trains and/or airplanes?**
7.	○	○	**Will the proposed project increase the QUANTITY of hazardous materials stored aboveground onsite or transported by mobile vehicle to or from the site by greater than or equal to the amounts associated with each compound on the attached Table 1?[4]**
			Section III – Water Resources
8.	○	○	**Will the project increase demand for water at the facility by more than 5,000,000 gallons per day?** The following examples identify some, but not all, types of projects that may result in a "yes" answer to this question: 1) projects that generate steam; 2) projects that use water as part of the air pollution control equipment; 3) projects that require water as part of the production process; 4) projects that require new or expansion of existing sewage treatment facilities; 5) projects where water demand exceeds the capacity of the local water purveyor to supply sufficient water for the project; and 6) projects that require new or expansion of existing water supply facilities.
9.	○	○	**Will the project require construction of new water conveyance infrastructure?** Examples of such projects are when water demands exceed the capacity of the local water purveyor to supply sufficient water for the project, or require new or modified sewage treatment facilities such that the project requires new water lines, sewage lines, sewage hook-ups, etc.
			Section IV – Transportation/Circulation
10.			**Will the project result in** (Check all that apply):
	○	○	**a. the need for more than 350 new employees?**
	○	○	**b. an increase in heavy-duty transport truck traffic to and/or from the facility by more than 350 truck round-trips per day?**
	○	○	**c. increase customer traffic by more than 700 visits per day?**
			Section V – Noise
11.	○	○	**Will the project include equipment that will generate noise GREATER THAN 90 decibels (dB) at the property line?**
			Section VI – Public Services
12.			**Will the project create a permanent need for new or additional public services in any of the following areas** (Check all that apply):
	○	○	**a. Solid waste disposal?** Check "No" if the projected potential amount of wastes generated by the project is less than five tons per day.
	○	○	**b. Hazardous waste disposal?** Check "No" if the projected potential amount of hazardous wastes generated by the project is less than 42 cubic yards per day (or equivalent in pounds).

REMINDER: For each "yes" checked in the sections above, attach all pertinent information including but not limited to estimated quantities, volumes, weights, rates, etc.

SIGNATURES

I HEREBY CERTIFY THAT ALL INFORMATION CONTAINED HEREIN AND INFORMATION SUBMITTED WITH THIS APPLICATION IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE. I UNDERSTAND THAT THIS FORM IS A SCREENING TOOL AND THAT THE SCAQMD RESERVES THE RIGHT TO CONSIDER OTHER PERTINENT INFORMATION IN DETERMINING CEQA APPLICABILITY.

SIGNATURE OF RESPONSIBLE OFFICIAL OF FIRM:	TITLE OF RESPONSIBLE OFFICIAL OF FIRM:	
D. Halliday	Chief Operating Officer	
TYPE OR PRINT NAME OF RESPONSIBLE OFFICIAL OF FIRM: Douglas Halliday	**RESPONSIBLE OFFICIAL'S TELEPHONE NUMBER:** (410) 770-9500	**DATE Signed:** 10/18/2010
SIGNATURE OF PREPARER, IF PREPARED BY PERSON OTHER THAN RESPONSIBLE OFFICIAL OF FIRM: Rick McNeil	**TITLE OF PREPARER:** Attorney	
TYPE OR PRINT NAME OF PREPARER: Rick McNeil	**PREPARER'S TELEPHONE NUMBER:** (949) 760-0991	**DATE Signed:** 10-19-10

THIS CONCLUDES FORM 400-CEQA. INCLUDE THIS FORM AND THE ATTACHMENTS WITH FORM 400-A.

[4] Table 1 – Regulated Substances List and Threshold Quantities for Accidental Release Prevention can be found in the Instructions for Form 400-CEQA.

South Coast Air Quality Management District

Form 400-E-12
Gas Turbine

This form must be accompanied by a completed Application for a Permit to Construct/Operate - Forms 400-A, Form 400-CEQA, and Form 400-PS.

Mail To:
SCAQMD
P.O. Box 4944
Diamond Bar, CA 91765-0944

Tel: (909) 396-3385
www.aqmd.gov

Section A - Operator Information

Facility Name (Business Name of Operator That Appears On Permit): Bicent (California) Malburg

Valid AQMD Facility ID (Available On Permit Or Invoice Issued By AQMD): 155474

Address where the equipment will be operated (for equipment which will be moved to various location in AQMD's jurisdiction, please list the initial location site): 4963 Soto St., Vernon, CA 90058

(•) Fixed Location ( ) Various Locations

Section B - Equipment Description

Turbine

Manufacturer: Alstom **Model:** GTX100 **Serial No.:** N/A

Size (based on Higher Heating Value - HHV):

Manufacturer Maximum Input Rating: 520.62 MMBTU/hr _____ kWh

Manufacturer Maximum Output Rating: _____ MMBTU/hr 42,471 kWh

Function (Check all that apply)

[X] Electrical Generation [ ] Driving Pump/Compressor [ ] Emergency Peaking Unit
[ ] Steam Generation [ ] Exhaust Gas Recovery [ ] Other (specify): _____

Cycle Type

( ) Simply Cycle ( ) Regenerative Cycle
(•) Combined Cycle ( ) Other (specify): _____

Combustion Type

( ) Tubular ( ) Can-Annular (•) Annular

Fuel (Turbine)

[X] Natural Gas [ ] LPG [ ] Digester Gas*
[ ] Landfill Gas* [ ] Propane [ ] Refinery Gas* [ ] Other*: _____

* (If Digester Gas, Landfill Gas, Refinery Gas, and/or Other are checked, attach fuel analysis indicating higher heating value and sulfur content).

Heat Recovery Steam Generator (HRSG)

Steam Turbine Capacity: 56 MW

Low Pressure Steam Output Capacity: 19,683 lb/hr @ 390 °F

High Pressure Steam Output Capacity: 180,477 lb/hr @ 956 °F

Superheated Steam Output Capacity: N/A lb/hr @ _____ °F

Duct Burner

Manufacturer: Forney **Model:** HESI Series 90

Number of burners: 4 **Rating of each burner** (HHV): 23,160

Type: ( ) Low NOx (please attach manufacturer's specifications)

(•) Other: _____
Show all heat transfer surface locations with the HRSG and temperature profile

Fuel (Duct Burner)

(•) Natural Gas ( ) LPG ( ) Digester Gas*
( ) Landfill Gas* ( ) Propane ( ) Refinery Gas* ( ) Other*: _____

* (If Digester Gas, Landfill Gas, Refinery Gas, and/or Other are checked, attach fuel analysis indicating higher heating value and sulfur content).

South Coast Air Quality Management District

Form 400-E-12
Gas Turbine

This form must be accompanied by a completed Application for a Permit to Construct/Operate - Forms 400-A, Form 400-CEQA, and Form 400-PS.

Section B - Equipment Description (Cont.)

Air Pollution Control

- (●) Selective Catalytic Reduction (SCR)* ( ) Selective Non-Catalytic Reduction (SNCR)*
- ( ) Oxidation Catalyst* ( ) Other (specify)*: _____
- ( ) Steam/Water Injection: Injection Rate: _____ lbs. water/lbs. fuel, or _____ mole water/mole fuel

* Separate application is required.

Capital Cost: $600,000 Installation Cost: $200,000 Annual Operating Cost: $150,000

Oxidation Catalyst Data (If Applicable)

Manufacturer: EmeraChem, LLC Model: Adcat

Catalyst Dimensions: Length: _____ ft. 2 in. Width: 10 ft. 3/8 in. Height: 54 ft. 8.5 in.

Catalyst Cell Density: 230.260 cells/sq.in. Pressure Drop Across Catalyst: 2.08"

Manufacturer's Guarantee: CO Control Efficiency: 88.28 % Catalyst Life: 20 yrs

VOC Control Efficiency: 73.68 % Operating Temp. Range: 350-1200 °F

Space Velocity (gas flow rate/catalyst volume): _____ Area Velocity (gas flow/wetted catalyst surface area): _____

VOC Concentration into Catalyst: 3.8 PPMVD@ 15%O_2 CO Concentration inot Catalyst: 1.5 PPMVD@ 15%O_2

Section C - Operation Information

On-line Emissions Data

Pollutants	Maximum Emissions Before Control *		Maximum Emissions After Control	
	PPM@15% O_2, dry	lb/hour	PPM@15% O_2, dry	lb/hour
ROG	3.6	2.5	2	.83
NOx	22	43.59	2	5.25
CO	6	7.23	2	2.2
PM_{10}	N/A	4.81	N/A	3.77
SOx	N/A	.81	N/A	0.32
NH_3	N/A	N/A	5	N/A

* Based on temperature, fuel consumption, and MW output.

Reference (attach data):

☐ Manufacturer Emission Data ☐ EPA Emission Factors ☐ AQMD Emission Factors ☐ Source Test

Stack or Vent Data

Stack Height: 110 ft. _____ in. Stack Diameter: 13 ft. 2 in.

Exhaust Temperature: 213 °F Exhaust Pressure: 15 inches water column

Exhaust Flow Rate: 13,131,064 CFM Oxygen Level: _____ %

South Coast Air Quality Management District

Form 400-E-12
Gas Turbine

This form must be accompanied by a completed Application for a Permit to Construct/Operate - Forms 400-A, Form 400-CEQA, and Form 400-PS.

Section C - Operation Information (cont.)

Startup Data

No. of Startups per day: 1 No. of Startups per year: 15 Duration of each startup: 2 hrs.

Shutdown Data

No. of Shutdowns per day: 1 No. of Shutdowns per year: 15 Duration of each Shutdown: .5 hrs.

Startup and Shutdown Emissions Data

Pollutants	Startup Emissions		Shutdown Emissions	
	PPM@15% O_2, dry	lb/hour	PPM@15% O_2, dry	lb/hour
ROG	163.828	.438	39.971	.507
NOx	11.603	.100	3.445	.011
CO	163.828	16.114	39.971	5.851
PM_{10}	N/A	1.990	N/A	2.304
SOx	N/A	.167	N/A	.192
NH_3	.196	N/A	0	N/A

Monitoring and Reporting

Continuous Emission Monitoring System (CEMS): CEMS Make: Cisco

CEMS Model: Custom

Will the CEMS be used to measure both on-line and startup/shutdown emissions? (•) Yes ( ) No

The following parameters will be continuously monitored:

☒ NOx ☒ CO ☒ O_2

☒ Fuel Flow Rate ☒ Ammonia Injection Rate ☐ Other (specify):

☐ Ammonia Stack Concentration: Ammonia CEMS Make:

Ammonia CEMS Model:

Operating Schedule

Normal: 24 hours/day 7 days/week 50 weeks/yr

Maximum: 24 hours/day 7 days/week 50 weeks/yr

Section D - Authorization/Signature

I hereby certify that all information contained herein and information submitted with this application is true and correct.

Preparer Info

Signature: Date: 12/1/10

Name: Kyle McCormack

Title: Env. Specialist

Company Name: Colorado Energy Mgmt.

Phone #: 3234763626 Fax #: 3234763640

Email: kmccormack@coloradoenergy.com

Contact Info

Name: John E Borsch

Title: Regional Plant Mgr.

Company Name: Colorado Energy Mgmt.

Phone #: 3234763625 Fax #: 3234763640

Email: jborsch@coloradoenergy.com

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Check here if you claim that this form or its attachments contain confidential trade secret information ☐

Highest 5 values Between '11/1/09' and '11/1/10'

U1 Nox RECLAIM LbPerHr	Time
3.36	11/18/09 7:00
3.35	6/10/10 4:00
3.33	12/7/09 14:00
3.33	7/14/10 16:00
3.31	7/14/10 14:00

U2 Nox RECLAIM LbPerHr	Time
5.25	8/2/10 8:00
4.3	7/14/10 9:00
3.5	7/14/10 15:00
3.47	12/6/09 4:00
3.28	3/10/10 7:00

U1 VOC LbPerHr NormalOp	Time
0.84	6/8/10 16:00
0.84	9/12/10 18:00
0.84	9/14/10 18:00
0.84	10/8/10 18:00
0.84	10/25/10 11:00

U2 VOC LbPerHr NormalOp	Time
0.83	12/3/09 17:00
0.83	12/3/09 18:00
0.83	12/3/09 19:00
0.83	12/17/09 19:00
0.83	2/10/10 20:00

U1 CO LbPerHr NormalOp	Time
1.4	12/1/09 16:00
1.4	8/26/10 13:00
1	11/9/09 7:00
1	11/9/09 10:00
1	11/10/09 6:00

U2 CO LbPerHr NormalOp	Time
2.2	8/26/10 13:00
2.1	12/7/09 14:00
1.5	12/5/09 0:00
1.2	3/14/10 12:00
1.1	12/1/09 16:00

U1 PM10 LbPerHr NormalOp	Time
3.83	10/25/10 18:00
3.8	10/8/10 18:00
3.8	10/25/10 11:00
3.8	10/27/10 19:00
3.79	9/12/10 18:00

U2 PM10 LbPerHr NormalOp	Time
3.77	2/22/10 19:00
3.77	4/1/10 19:00
3.75	12/3/09 17:00
3.75	12/3/09 18:00
3.75	12/3/09 19:00

U1 SO2 LbPerHr NormalOp	Time
0.32208	12/3/09 18:00
0.32184	12/3/09 19:00
0.3216	12/17/09 19:00
0.32124	12/3/09 17:00
0.32124	2/11/10 20:00

U2 SO2 LbPerHr NormalOp	Time
0.3213	2/22/10 19:00
0.32112	4/1/10 19:00
0.31974	3/21/10 19:00
0.3195	12/3/09 18:00
0.31944	12/3/09 19:00

Average values Between '11/1/09' and '11/1/10'

U1	In Startup Average
VOC Ppmvdc	104.943
Nox Ppmvdc	14.579
CO Ppmvdc	104.943
PM10 Ppmvdc	N/A
SO2 Ppmvdc	N/A
NH3 Ppmvdc	1.734
VOC LbPerHr	0.381
Nox LbPerHr	0.083
CO LbPerHr	13.134
PM10 LbPerHr	1.731
SO2 LbPerHr	0.145
NH3 LbPerHr	N/A

U1	In Shutdown Average
VOC Ppmvdc	101.705
Nox Ppmvdc	3.141
CO Ppmvdc	101.705
PM10 Ppmvdc	N/A
SO2 Ppmvdc	N/A
NH3 Ppmvdc	1.9
VOC LbPerHr	0.522
Nox LbPerHr	0.016
CO LbPerHr	4.944
PM10 LbPerHr	2.373
SO2 LbPerHr	0.2
NH3 LbPerHr	N/A

U2	In Startup Average
VOC Ppmvdc	163.828
Nox Ppmvdc	11.603
CO Ppmvdc	163.828
PM10 Ppmvdc	N/A
SO2 Ppmvdc	N/A
NH3 Ppmvdc	0.196
VOC LbPerHr	0.438
Nox LbPerHr	0.1
CO LbPerHr	16.114
PM10 LbPerHr	1.99
SO2 LbPerHr	0.167
NH3 LbPerHr	N/A

U2	In Shutdown Average
VOC Ppmvdc	39.971
Nox Ppmvdc	3.445
CO Ppmvdc	39.971
PM10 Ppmvdc	N/A
SO2 Ppmvdc	N/A
NH3 Ppmvdc	0
VOC LbPerHr	0.507
Nox LbPerHr	0.011
CO LbPerHr	5.851
PM10 LbPerHr	2.304
SO2 LbPerHr	0.192
NH3 LbPerHr	N/A

Table 3-1. Component Publications (Cont)

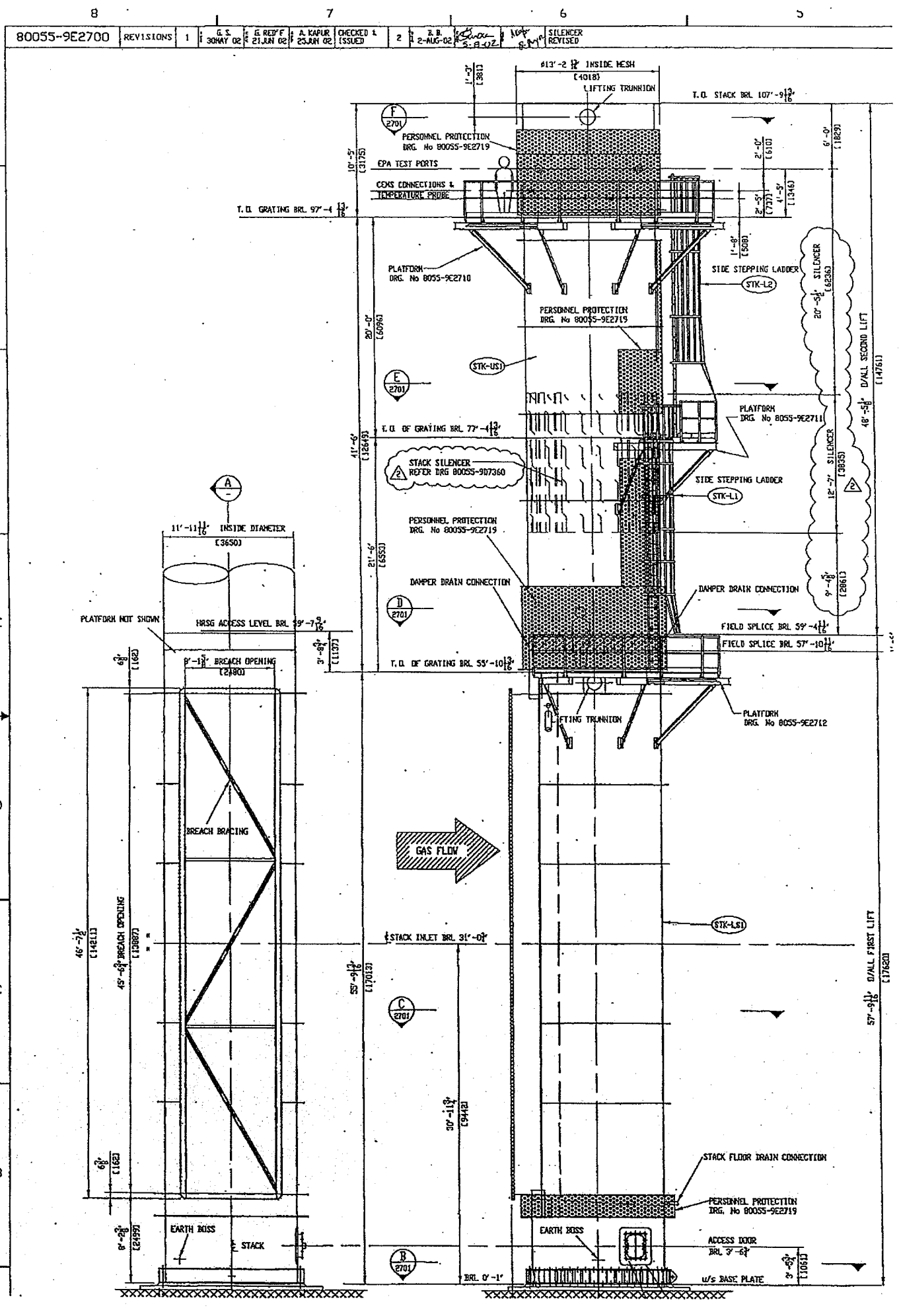
Manufacturer	Component	Publication No./Title
Fisher Controls (Cont)	Filter Regulator, FS67CFR (Part of Forney P/N 74351-03)	Form 5469; Instruction Manual, 67CF Series Filter Regulators
	Pressure Regulator, ¾-Inch NPT, Model 627 (Forney P/N 74704-23)	Form 5252, Instruction Manual, 627 Series Self-Operated Pressure-Reducing Regulators
	Switch, Limit, Type 304 (Part of Forney P/N 74351-03)	Form 2007; Instruction Manual, Type 304 and 304L Electrical Position Switch
	Valve, Rotary Control, 3-Inch, Design V150 (Part of Forney P/N 74351-03)	Form 5290; Instruction Manual; Designs V150, V200, & V300
Forney	HESI, Series 90	384077-02, Service Manual
	MAXFire™ 10 Gas Igniter (Forney P/N 383702-17)	372000-29, Service Manual
Hoffman	Cabinet, Stainless-Steel, 62"H X 60"W X 12"D, NEMA 4X, A-62H6012SSLP (Forney P/N 78868-06)	62405, Enclosure Alterations
	Heater, Cabinet, 120-vac, 400-Watt, P/N D-AH4001B (Forney P/N 91066-06)	64717, Electric Heater
	Light, Cabinet, 120-vac, P/N A-LTMB1 (With Manual Switch and Convenience Outlet) (Forney P/N 70226-10)	51749, Incandescent Lighting Package
Honeywell	Transmitter, Differential Pressure, Model STD120-E1A-000000,MB,SV,1C (With PGI International 5-Valve Manifold, Model M652SCT, ½-Inch NPT) (Forney P/N 91329-04)	34-ST-25-17A, User Manual, ST 3000 Smart Transmitter Release 300 with HART® Communications Option

ANTICIPATED PLANT PERFORMANCE DATA

Case Number		6	7	8	9	10
Case Name		7CIT2	7CIT18	7CIT19	7CIT8	7CIT6
Case Description		100%, 75F, evap, max d.f.	100%, 65F, evap, d.f.	100%, 38F, d.f.	100%, 94F, evap, no d.f.	100%, 92F, evap, no d.f.
Ambient Temperature	°F	75.0	65.0	38.0	94.0	92.0
Relative Humidity	%	50	50	50	50	40
Atmospheric Pressure	psi.a	14.7	14.7	14.7	14.7	14.7
Supplementary Firing Mode		Fired	Fired	Fired	Unfired	Unfired
Gas Turbine Load	%	100	100	100	100	100
Gas Turbine Fuel		NG	NG	NG	NG	NG
Gas Turbine Exhaust Flow	lb/hr	1004293	1024928	1054054	970641	977387
Gas Turbine Exhaust Temperature	°F	1024	1017	1009	1033	1032
.	O2	13.250	13.340	13.410	13.130	13.150
Exhaust Gas	N2	74.100	74.460	75.030	73.150	73.540
Constituents	CO2	3.371	3.372	3.416	3.304	3.347
% by Volume	H2O	8.395	7.935	7.251	9.546	9.090
.	Ar	0.885	0.890	0.896	0.874	0.879
.	SO2	0.000	0.000	0.000	0.000	0.000
Duct Burner Fuel		NG	NG	NG	-	-
Duct Burner Fuel Heating Value	Btu/lb (LHV)	21,055	21,055	21,055	-	-
Duct Burner Heat Input	MBtu/hr (LHV)	57.42	56.35	55.52	0	0
Gas Temperature Entering Duct Burner	°F	983	978	972	-	-
Gas Temperature Leaving Duct Burner	°F	1175	1163	1151	-	-
HP Steam Flow at Terminal Point (1)	lb/hr	181033	180954	181747	130399	130874
HP Steam Temperature (+/- 5°)	°F	961	956	950	970	969
HP Steam Pressure at Terminal Point	psi.a	1243.0	1243.0	1244.4	896.3	899.2
HP Saturated Steam Flow Generated	lb/hr	180081	180477	181747	130399	130874
HP Blowdown Rate	%	0	0	0	0	0
HP Pinch Point	°F	16.7	17.1	17.8	14.2	14.4
HP Approach Temperature	°F	46.8	45.0	42.8	13.5	13.5
HP Desuperheater Spraywater Flow	lb/hr	952	476	0	0	0
HP Feedwater Flow	lb/hr	181033	180954	181747	130399	130874
HP Feedwater Temperature	°F	158.0	154.9	159.3	157.3	154.2
LP Steam Flow at Terminal Point (1)	lb/hr	18730.28	19404.89	20595.37	22619.20	22699.77
LP Steam Temperature (+/- 5°)	°F	388	390	391	379	379
LP Steam Pressure at Terminal Point	psi.a	145.0	146.5	146.5	113.1	113.1
LP Saturated Steam Flow Generated	lb/hr	19048	19683	20794	22619	22700
LP Pegging Steam Flow to Deaerator (4)	lb/hr	317	278	198	0	0
LP Blowdown Rate	%	0	0	0	0	0
LP Pinch Point	°F	18.0	18.7	19.8	21.1	21.1
LP Approach Temperature	°F	29.5	29.3	27.4	11.2	11.7
LP Economizer Extraction Flow to Deaerator	lb/hr	39683	39683	39500	30635	30953
LP Economizer Extraction Temperature	°F	332.4	334.1	337.6	339.9	339.3
LP Feedwater Flow	lb/hr	58731	59365	60293	53254	53652
LP Feedwater Temperature	°F	155.1	152.1	156.4	154.0	151.2
Deaerator Operating Pressure	psi.a	17.5	17.5	17.5	17.5	17.5
Feedwater Flow at Deaerator Outlet	lb/hr	239763	240319	242041	183653	184526
Gas Temperature Leaving HRSG	°F	214.4	214.2	219.8	230.0	228.1
Gas Side Static Pressure Loss (2)	in of water col	12.9	13.4	14.2	11.6	11.7

Notes:
1) Steam production rates based on specified feedwater inlet tempera
2) Static gas side pressure loss from HRSG ductwork inlet to exhaust
Inlet Duct, Duct Burner, CO Catalyst, SCR Catalyst, Stack Dampe
3) Stack Height: 110 ft, Site Elevation: 182 ft.
4) From LP superheated steam line.
(*) These points guaranteed. All others predicted.

Ref doc: The data referred from CDS 1.03, Issue 2.


80055-9E2700
REVISIONS
1
G.S. 30MAY 02
G.REV'E 21JUN 02
A.KAPUR 25JUN 02
CHECKED & ISSUED
2
B.B. 2-AUG-02
SILENCER REVISED
Ø13'-2 1/2" INSIDE MESH [4018]
LIFTING TRUNNION
T.O. STACK BRL 107'-9 13/16"
PERSONNEL PROTECTION DRG. No 80055-9E2719
EPA TEST PORTS
CEMS CONNECTIONS & TEMPERATURE PROBE
T.O. GRATING BRL 97'-4 13/16"
PLATFORM DRG. No 80055-9E2710
SIDE STEPPING LADDER
STK-L2
PERSONNEL PROTECTION DRG. No 80055-9E2719
STK-US1
T.O. OF GRATING BRL 77'-4 13/16"
PLATFORM DRG. No 80055-9E2711
STACK SILENCER REFER DRG 80055-907360
SIDE STEPPING LADDER
STK-L1
PERSONNEL PROTECTION DRG. No 80055-9E2719
DAMPER DRAIN CONNECTION
DAMPER DRAIN CONNECTION
FIELD SPLICE BRL 59'-4 1/16"
FIELD SPLICE BRL 57'-10 1/16"
T.O. OF GRATING BRL 55'-10 3/16"
PLATFORM DRG. No 80055-9E2712
LIFTING TRUNNION
11'-11 11/16" INSIDE DIAMETER [3650]
PLATFORM NOT SHOWN
HRSG ACCESS LEVEL BRL 59'-7 9/16"
8'-1 5/8" BREACH OPENING [2480]
BREACH BRACING
GAS FLOW
STK-LS1
STACK INLET BRL 31'-0"
45'-6 3/8" BREACH OPENING [13887]
46'-7 1/2" [14211]
55'-9 11/16" [17012]
30'-11 3/4" [9432]
57'-9 11/16" O/ALL FIRST LIFT [17620]
48'-5 3/8" O/ALL SECOND LIFT [14761]
20'-5 1/2" SILENCER [6236]
12'-7" SILENCER [3835]
9'-4 3/8" [2861]
STACK FLOOR DRAIN CONNECTION
PERSONNEL PROTECTION DRG. No 80055-9E2719
EARTH BOSS
ACCESS DOOR BRL 9'-6"
EARTH BOSS
STACK
BRL 0'-1"
u/s BASE PLATE

FORNEY CORPORATION		DRAWING # / REV:	403825-01 / A
PROJECT:	B10102	SALES ORDER:	917616
CUSTOMER:	Alstom Power CITY OF VERNON Malburg Generating Station Project	P.O.# / JOB #:	80055506
LOCATION:	VERNON, CA.		

S/O LINE(S)	QTY	PART NUMBER	ASSEMBLY / SHIP LOOSE PART DESCRIPTION (QUANTITY PER UNIT DESCRIBED BELOW)	
ITEM / TAG #	COMP QTY	COMPONENT PART NUMBER	COMPONENT DESCRIPTION	MANUFACTURER

PROJECT SCOPE: TWO (2) DUCT BURNER UNITS TOTAL TO BE SUPPLIED

THE FOLLOWING SALES ORDER LINE QUANTITIES REFLECT THE TOTAL QUANTITY TO BE SHIPPED FOR THAT LINE. THE QUANTITY PER UNIT FOR EACH LINE (IF APPLICABLE) IS LISTED IN PARENTHESIS IN THE LINE DESCRIPTION.

FORNEY'S SCOPE OF SUPPLY IS LIMITED TO THE EQUIPMENT AND DRAWINGS LISTED IN THIS BILL OF MATERIAL.

DRAWINGS:

1.	BILL OF MATERIAL	403825-01
2.	P&ID	403826-01
3.	GENERAL ARRANGEMENT – BURNER ASSEMBLY	403827-01
4.	GENERAL ARRANGEMENT – FUEL SKID ASSEMBLY	403828-01
5.	GENERAL ARRANGEMENT – BLOWER SKID ASSEMBLY	403829-01
6.	BMS SCHEMATIC WIRING DIAGRAM	403830-01
7.	BMS CABINET ASSEMBLY	403831-00
8.	BMS SEQUENCE OF OPERATION	403832-01
9.	BMS LOGIC DIAGRAM	403833-01
10.	I/O LIST	403834-01
11.	ISA DATA SHEETS	403835-01
12.	TAGGING DATA SHEETS	403836-01

DESIGN CRITERIA

100	8		DUCT BURNER ELEMENT INSERT ASSEMBLY (ONE UNIT COMPRISED OF FOLLOWING COMPONENTS)	
A1	4	9098200	FUEL GAS FUEL MANIFOLD, 3" SCH 40 309 STAINLESS STEEL.	FORNEY CORP.
A1A	56	39848704	STABILIZER, CAST H.H. (309 STAINLESS STEEL COMPOSITION), 3" x 6" LONG, WITH 5" DIFFUSER PLATES, 309 STAINLESS STEEL.	FORNEY CORP.
A1B	8	37192701	PILOT SHIELD, 10 GA. 309 STAINLESS STEEL, 3" x 6" LONG.	FORNEY CORP.
A2	8	39600001	SCANNER SWIVEL MOUNT ASSEMBLY.	FORNEY CORP.
A3	4	35844705	PILOT HESI POWER PACK, NEMA 4, CLASS III, INTERRUPTIBLE, 120 VAC / 60 HZ.	FORNEY CORP.
A4	4	38370217	PILOT ASSEMBLY, MAXFIRE 10, 46".	FORNEY CORP.
A5	4	36186409	HESI POWER CABLE, 60".	FORNEY CORP.
A6	4	37191903	HOSE, PILOT GAS FLEXIBLE HOSE, 1/2"	FORNEY CORP.

Mike Bonfiglio

From: Adriano Marki
Sent: Wednesday, October 13, 2010 10:14 AM
To: Mike Bonfiglio
Cc: Erik Knutson
Subject: SCR and CO catalyst info

- Stack NOx limit: 2.0 ppmv @ 15% O_2 averaged over one hour
- Ammonia Slip limit: 5.0 ppmv @ 15% O_2 averaged over one hour
- Stack CO limit 2.0 ppmv @ 15% O_2 averaged over three hours
- SCR inlet NOx concentration: average 25ppm
- Turbine exhaust CO concentration: see attached document
- Maximum exhaust flow: 1,066,770lb/Hr
- Maximum heat input:
  460MbtuHr during normal operation and 540MbtuHr with duct burners
- Operating temperature range at the SCR/CO catalyst
  SCR inlet temperature range 550F±2°F during normal operation and up to 590°F with Duct firing
  CO inlet temperature range 875F±5°F during normal operation and up to 1030°F with Duct firing
- Total SCR catalyst volume
  Total number of Modules: 22
  Module Width 8'-7 1/8"
  Module Height 8'-7 1/8"
  Module Depth 1'-4"
- Total CO catalyst volume
  Width: 4 Modules
  Height: 19 Modules
  Size of each Module 26"x26"

Adriano Marki

Adriano Marki, P.E.
Plant Engineer
Malburg Generating Station

colorado energy

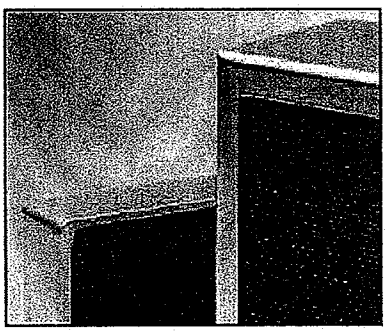
A BICENT POWER COMPANY
Office: +1 323 476 3612
Cell: +1 323 383 2502
Fax: +1 323 476 3640
4963 Soto Street, Vernon, CA 90058

PARAMETER	Units	CASE 1	CASE 2	CASE 3	CASE 4	CASE 5	CASE 6	CASE 7	CASE 8	CASE 9
GENERAL INFORMATION										
Case Label		1	2	3	4	5	6	7	8	9
Load	%	100	100	100	100	100	100	100	100	100
GT Fuel Type		NG	NG	NG	NG	NG	NG	NG	NG	NG
Ambient Temp	°F	75	75	75	94	92	75	65	38	94
Duct Burner		on	off	on	on	on	on	on	on	off
EXHAUST CHARACTERISTICS										
Temp at Catalyst	°F	1,056	885	911	1,043	1,016	1,025	1,017	1,009	889
GT Flow	lb/hr	1,007,787	1,004,303	1,004,795	889,656	979,805	1,007,030	1,027,614	1,058,702	970,651
Gas Composition	% vol									
O2		11.96	13.25	13.07	12.01	12.24	12.24	12.37	12.47	13.13
H2O		9.56	8.4	8.56	10.65	9.9	9.9	8.81	8.1	9.55
N2		73.64	74.1	74.03	72.75	73.22	73.75	74.12	74.7	73.14
CO2		3.96	3.37	3.46	3.82	3.76	3.83	3.82	3.84	3.3
Ar		0.88	0.89	0.89	0.87	0.88	0.88	0.89	0.89	0.87
Total		100.00	100.01	100.01	100.00	100.00	100.00	100.01	100.00	99.99
MW	lb/lb-mole	28.26	28.34	28.33	28.14	28.21	28.28	28.33	28.41	28.20
Flow Rate (wet)	scfh	13,514,850	13,431,438	13,442,192	11,980,446	13,165,127	13,496,866	13,745,234	14,096,799	13,045,367
Flow Rate (dry)	scfh	12,222,830	12,303,197	12,291,541	10,716,509	11,861,779	12,241,557	12,534,279	12,954,958	11,799,534
O2 Concentration Dry	%	13.22	14.47	14.29	13.43	13.58	13.50	13.57	13.57	14.52
CO at COC										
CO Flow (COC)	lb/hr	15.04	5.95	13.02	12.84	13.91	14.53	14.74	15.22	5.66
	scfh	203.54	80.51	176.17	173.75	188.25	196.66	199.46	206.04	76.60
CO as ppmvd (COC)		16.65	6.54	14.33	16.21	15.87	16.07	15.91	15.90	6.49
CO as ppmvd at 15% O2 (COC)		12.80	6.00	12.80	12.80	12.80	12.80	12.80	12.80	6.00
CO REQUIREMENTS										
CO Flow (Required)	lb/hr	1.76	1.49	1.53	1.50	1.63	1.70	1.73	1.78	1.41
	scfh	23.85	20.13	20.65	20.36	22.06	23.05	23.37	24.15	19.15
CO as ppmvd (Required)		1.95	1.64	1.68	1.90	1.86	1.88	1.86	1.86	1.62
CO as ppmvd at 15% O2 (Required)		1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
CO Destruction Required	%	90.00	75.00	88.28	88.28	88.28	88.28	88.28	88.28	75.00
VOC at COC										
VOC Flow (COC)	lb/hr	2.55	0.68	2.21	2.18	2.36	2.46	2.50	2.58	0.65
	scfh	60.43	16.10	52.30	51.58	55.89	58.38	59.21	61.17	15.32
VOC as ppmvd (COC)		4.94	1.31	4.26	4.81	4.71	4.77	4.72	4.72	1.30
VOC as ppmvd at 15% O2 (COC)		3.8	1.2	3.8	3.8	3.8	3.8	3.8	3.8	1.2
VOC REQUIREMENTS										
VOC Flow (Required)	lb/hr	0.67	0.57	0.58	0.57	0.62	0.65	0.66	0.68	0.54
	scfh	15.90	13.42	13.75	13.57	14.71	15.36	15.58	16.10	12.77
VOC as ppmvd (Required)		1.30	1.09	1.12	1.27	1.24	1.26	1.24	1.24	1.08
VOC as ppmvd at 15% O2 (Required)		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
VOC Destruction Required	%	73.68	15.67	73.68	73.68	73.68	73.68	73.68	73.68	15.67
EXPECTED VOC DATA										
Formaldehyde Destruction Expected	%	89	89	89	89	89	89	89	89	89
Non-Methane/Non-Ethane Destruction Expected	%	79	79	79	79	79	79	79	79	79
ADDITIONAL DATA										
SO2 to SO3 Conversion Expected	%	48	48	48	48	48	48	48	48	48
Expected Pressure Drop	"H_2O	1.62	1.35	1.38	1.34	1.44	1.49	1.51	1.55	1.31
Guaranteed Pressure Drop	"H_2O	1.72	1.55	1.58	1.54	1.64	1.69	1.71	1.75	1.51

EmeraChem

THE POWER OF CATALYSIS

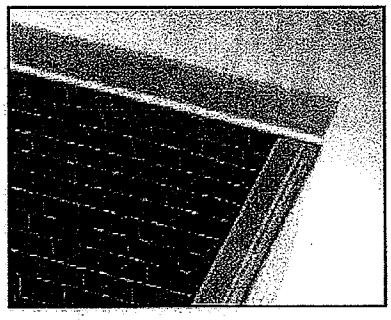
ADCAT™ CO Catalyst



EmeraChem's ADCAT™ CO/VOC oxidation catalyst yields optimal conversion efficiencies with reduced catalyst volume for the lowest capital cost.

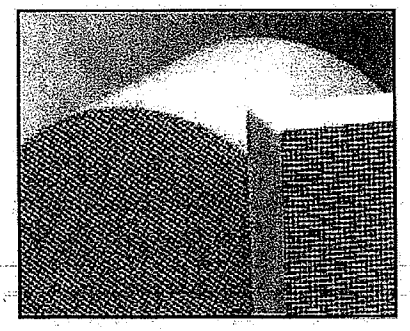
Heavy-duty stainless steel module design:

- High temperature nickel alloy substrate.
- Durable, longest-lasting, highest performance catalyst available.
- Catalyst module cell densities up to 700 cpsi.



Discrete cell substrate construction:

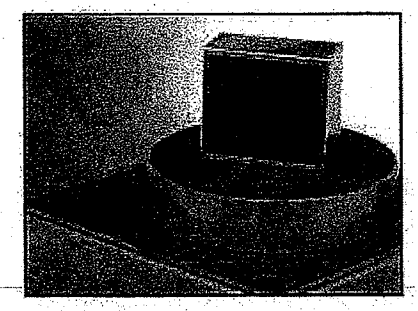
- Ensures maximum durability and extreme module mechanical integrity.
- Yields lowest possible pressure drop for the most surface area.
- Prevents plugging of inter-catalyst channels and sub strate nesting, which cause exhaust bypass and precious metal loss.



Flexibility for meeting future regulations:

- Individually mounted module design, allows for addition and replacement of catalyst modules to existing installations.
- Backed with a three-year warranty and has an expected life of greater than seven years.
- Broad operating temperature range (350 to 1200 °F) allows for simple and seamless integration of CO catalyst systems into all applications.

EmeraChem is a leading, full-service provider of catalysts and catalytic solutions with resources encompassing every aspect required to satisfy customer needs, from analyzing process conditions to delivering the final product.

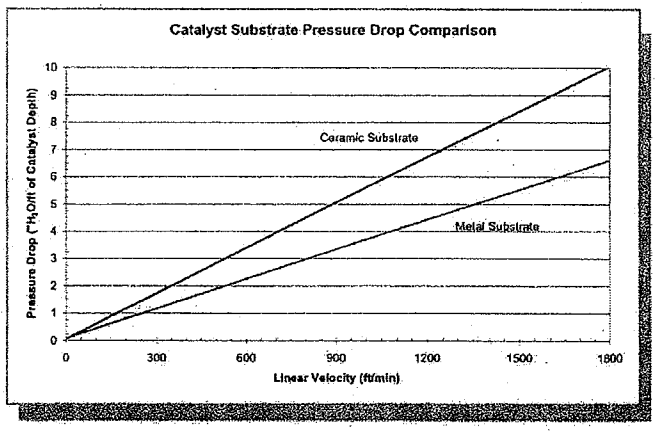


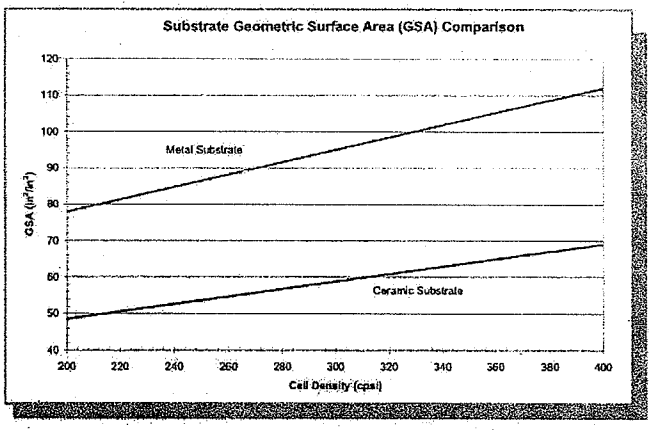
EmeraChem delivers distinctly-focused, customer-specific engineered solutions within budget and on schedule.

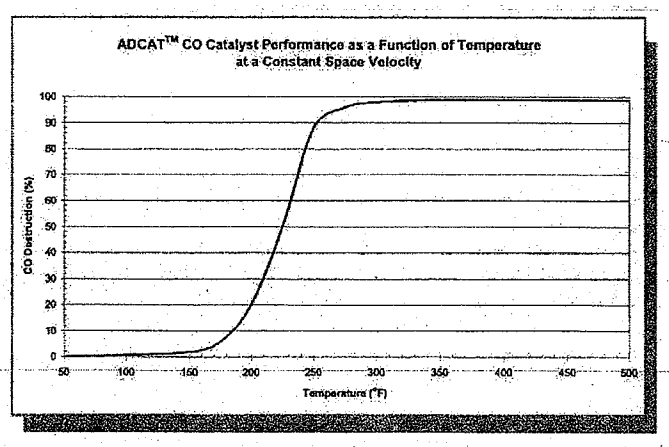
ADCAT™ CO Catalyst: Technical Specifications

Type	Material	Properties			Units	Specifications					
Honeycomb Monolith	Metal Modules	Cell Density			cpsi	200	300	400	500	600	700
		Wall Thickness			in.	0.002	0.002	0.001/0.002	0.001/0.002	0.001/0.002	0.001/0.002
		Geometric Surface Area			in^2/in^3	76.24	97.70	115.10	124.31	145.32	165.55
		Maximum Temperature			°F	1,200	1,200	1,200	1,200	1,200	1,200
		Coefficient of Thermal Expansion			$x10^{-6}in/in/^oF$	5.9-8.0	5.9-8.0	5.9-8.0	5.9-8.0	5.9-8.0	5.9-8.0
		Range of Dimensions	Blocks	Height	in.	≤36	≤36	≤36	≤36	≤36	≤36
				Width	in.	≤36	≤36	≤36	≤36	≤36	≤36
				Depth*	in.	1-6	1-6	1-6	1-6	1-6	1-6
			Round	Diameter	in.	≤36	≤36	≤36	≤36	≤36	≤36
				Depth*	in.	1-6	1-6	1-6	1-6	1-6	1-6
	Ceramic Modules	Wall Thickness			in.	0.0105	0.0080	0.0070	n/a	n/a	n/a
		Geometric Surface Area			in^2/in^3	48.20	59.70	68.80	n/a	n/a	n/a
		Maximum Temperature			°F	1,200	1,200	1,200	n/a	n/a	n/a
		Coefficient of Thermal Expansion			$x10^{-6}in/in/^oF$	3.91	3.91	3.91	n/a	n/a	n/a
		Range of Dimensions	Blocks	Height	in.	≤42	≤42	≤42	n/a	n/a	n/a
				Width	in.	≤42	≤42	≤42	n/a	n/a	n/a
				Depth*	in.	1-7	1-7	1-7	n/a	n/a	n/a
			Round	Diameter	in.	≤42	≤42	≤42	n/a	n/a	n/a
				Depth*	in.	1-7	1-7	1-7	n/a	n/a	n/a

Listed numbers are nominal values. EmeraChem manufactures catalyst modules in various shapes and sizes.
**For greater depths, multiple units may be stacked to obtain desired dimensions.*







Inquiries:
Send us specifications, drawings or gas stream data and we will provide you with a custom-tailored solution to your specific application. EmeraChem also provides analytical and technical services to assist in determining your current emissions and catalytic performance.

EmeraChem is a proven leader in the catalytic control of NOx, SOx, CO, VOCs and PM for manufacturing and industrial applications as well as for the power generation industry.

EmeraChem LLC
2375 Cherahala Boulevard
Knoxville, Tennessee 37931
Toll Free: 888.777.4538
Tel: 865.246.3000
Fax: 865.246.3001
www.emerachem.com

South Coast Air Quality Management District

Form 400-E-12
Gas Turbine

This form must be accompanied by a completed Application for a Permit to Construct/Operate - Forms 400-A, Form 400-CEQA, and Form 400-PS.

Mail To:
SCAQMD
P.O. Box 4944
Diamond Bar, CA 91765-0944

Tel: (909) 396-3385
www.aqmd.gov

Section A - Operator Information

Facility Name (Business Name of Operator That Appears On Permit): Bicent (California) Malburg

Valid AQMD Facility ID (Available On Permit Or Invoice Issued By AQMD): 155474

Address where the equipment will be operated (for equipment which will be moved to various location in AQMD's jurisdiction, please list the initial location site): 4963 Soto St., Vernon, CA 90058

(•) Fixed Location ( ) Various Locations

Section B - Equipment Description

Turbine

Manufacturer: Alstom **Model:** GTX100 **Serial No.:** N/A

Size (based on Higher Heating Value - HHV):

Manufacturer Maximum Input Rating: 520.62 MMBTU/hr _____ kWh

Manufacturer Maximum Output Rating: _____ MMBTU/hr 42,471 kWh

Function (Check all that apply)

[X] Electrical Generation [ ] Driving Pump/Compressor [ ] Emergency Peaking Unit
[ ] Steam Generation [ ] Exhaust Gas Recovery [ ] Other (specify): _____

Cycle Type

( ) Simply Cycle ( ) Regenerative Cycle
(•) Combined Cycle ( ) Other (specify): _____

Combustion Type

( ) Tubular ( ) Can-Annular (•) Annular

Fuel (Turbine)

[X] Natural Gas [ ] LPG [ ] Digester Gas*
[ ] Landfill Gas* [ ] Propane [ ] Refinery Gas* [ ] Other*: _____

* (If Digester Gas, Landfill Gas, Refinery Gas, and/or Other are checked, attach fuel analysis indicating higher heating value and sulfur content).

Heat Recovery Steam Generator (HRSG)

Steam Turbine Capacity: 56 MW

Low Pressure Steam Output Capacity: 19,683 lb/hr @ 390 °F

High Pressure Steam Output Capacity: 180,477 lb/hr @ 956 °F

Superheated Steam Output Capacity: N/A lb/hr @ _____ °F

Duct Burner

Manufacturer: Forney **Model:** HESI Series 90

Number of burners: 4 **Rating of each burner** (HHV): 23,160

Type: ( ) Low NOx (please attach manufacturer's specifications)

(•) Other: _____
Show all heat transfer surface locations with the HRSG and temperature profile

Fuel (Duct Burner)

(•) Natural Gas ( ) LPG ( ) Digester Gas*
( ) Landfill Gas* ( ) Propane ( ) Refinery Gas* ( ) Other*: _____

* (If Digester Gas, Landfill Gas, Refinery Gas, and/or Other are checked, attach fuel analysis indicating higher heating value and sulfur content).

South Coast Air Quality Management District

Form 400-E-12
Gas Turbine

This form must be accompanied by a completed Application for a Permit to Construct/Operate - Forms 400-A, Form 400-CEQA, and Form 400-PS.

Section B - Equipment Description (Cont.)

Air Pollution Control

(●) Selective Catalytic Reduction (SCR)* ( ) Selective Non-Catalytic Reduction (SNCR)*

( ) Oxidation Catalyst* ( ) Other (specify)*: _____

( ) Steam/Water Injection: Injection Rate: _____ lbs. water/lbs. fuel, or _____ mole water/mole fuel

* Separate application is required.

Capital Cost: $600,000 Installation Cost: $200,000 Annual Operating Cost: $150,000

Oxidation Catalyst Data (If Applicable)

Manufacturer: EmeraChem, LLC Model: Adcat

Catalyst Dimensions: Length: _____ ft. 2 in. Width: 10 ft. 3/8 in. Height: 54 ft. 8.5 in.

Catalyst Cell Density: 230.260 cells/sq.in. Pressure Drop Across Catalyst: 2.08"

Manufacturer's Guarantee: CO Control Efficiency: 88.28 % Catalyst Life: 20 yrs

VOC Control Efficiency: 73.68 % Operating Temp. Range: 350-1200 °F

Space Velocity (gas flow rate/catalyst volume): _____ Area Velocity (gas flow/wetted catalyst surface area): _____

VOC Concentration into Catalyst: 3.8 PPMVD@ 15%O_2 CO Concentration inot Catalyst: 1.5 PPMVD@ 15%O_2

Section C - Operation Information

On-line Emissions Data

Pollutants	Maximum Emissions Before Control *		Maximum Emissions After Control	
	PPM@15% O_2, dry	lb/hour	PPM@15% O_2, dry	lb/hour
ROG	3.6	2.5	2	.84
NOx	22	43.59	2	3.36
CO	6	7.23	2	1.4
PM_{10}	N/A	4.81	N/A	3.83
SOx	N/A	.81	N/A	0.32
NH_3	N/A	N/A	5	N/A

* Based on temperature, fuel consumption, and MW output.

Reference (attach data):

☐ Manufacturer Emission Data ☐ EPA Emission Factors ☐ AQMD Emission Factors ☐ Source Test

Stack or Vent Data

Stack Height: 110 ft. _____ in. Stack Diameter: 13 ft. 2 in.

Exhaust Temperature: 213 °F Exhaust Pressure: 15 inches water column

Exhaust Flow Rate: 13,131,064 CFM Oxygen Level: _____ %

South Coast Air Quality Management District

Form 400-E-12
Gas Turbine

This form must be accompanied by a completed Application for a Permit to Construct/Operate - Forms 400-A, Form 400-CEQA, and Form 400-PS.

Section C - Operation Information (cont.)

Startup Data: No. of Startups per day: 1 | No. of Startups per year: 15 | Duration of each startup: 2 hrs.

Shutdown Data: No. of Shutdowns per day: 1 | No. of Shutdowns per year: 15 | Duration of each Shutdown: .5 hrs.

Startup and Shutdown Emissions Data:

Pollutants	Startup Emissions		Shutdown Emissions	
	PPM@15% O_2, dry	lb/hour	PPM@15% O_2, dry	lb/hour
ROG	104.943	.381	101.705	.522
NOx	14.579	.083	3.141	.016
CO	104.943	13.134	101.705	4.944
PM_{10}	N/A	1.731	N/A	2.373
SOx	N/A	.145	N/A	.200
NH_3	1.734	N/A	1.900	N/A

Monitoring and Reporting:

Continuous Emission Monitoring System (CEMS): CEMS Make: Cisco

CEMS Model: Custom

Will the CEMS be used to measure both on-line and startup/shutdown emissions? (•) Yes ( ) No

The following parameters will be continuously monitored:

☒ NOx ☒ CO ☒ O_2

☒ Fuel Flow Rate ☒ Ammonia Injection Rate ☐ Other (specify):

☐ Ammonia Stack Concentration: Ammonia CEMS Make:

Ammonia CEMS Model:

Operating Schedule:

Normal: 24 hours/day 7 days/week 50 weeks/yr

Maximum: 24 hours/day 7 days/week 50 weeks/yr

Section D - Authorization/Signature

I hereby certify that all information contained herein and information submitted with this application is true and correct.

Preparer Info:

Signature: Date: 12/1/10

Name: Kyle McCormack

Title: Env. Specialist

Company Name: Colorado Energy Mgmt.

Phone #: 3234763626 Fax #: 3234763640

Email: kmccormack@coloradoenergy.com

Contact Info:

Name: John E Borsch

Title: Regional Plant Mgr.

Company Name: Colorado Energy Mgmt.

Phone #: 3234763625 Fax #: 3234763640

Email: jborsch@coloradoenergy.com

THIS IS A PUBLIC DOCUMENT

Pursuant to the California Public Records Act, your permit application and any supplemental documentation are public records and may be disclosed to a third party. If you wish to claim certain limited information as exempt from disclosure because it qualifies as a trade secret, as defined in the District's Guidelines for Implementing the California Public Records Act, you must make such claim at the time of submittal to the District.

Check here if you claim that this form or its attachments contain confidential trade secret information: ☐

Highest 5 values Between '11/1/09' and '11/1/10'

U1 Nox RECLAIM LbPerHr	Time
3.36	11/18/09 7:00
3.35	6/10/10 4:00
3.33	12/7/09 14:00
3.33	7/14/10 16:00
3.31	7/14/10 14:00

U2 Nox RECLAIM LbPerHr	Time
5.25	8/2/10 8:00
4.3	7/14/10 9:00
3.5	7/14/10 15:00
3.47	12/6/09 4:00
3.28	3/10/10 7:00

U1 VOC LbPerHr NormalOp	Time
0.84	6/8/10 16:00
0.84	9/12/10 18:00
0.84	9/14/10 18:00
0.84	10/8/10 18:00
0.84	10/25/10 11:00

U2 VOC LbPerHr NormalOp	Time
0.83	12/3/09 17:00
0.83	12/3/09 18:00
0.83	12/3/09 19:00
0.83	12/17/09 19:00
0.83	2/10/10 20:00

U1 CO LbPerHr NormalOp	Time
1.4	12/1/09 16:00
1.4	8/26/10 13:00
1	11/9/09 7:00
1	11/9/09 10:00
1	11/10/09 6:00

U2 CO LbPerHr NormalOp	Time
2.2	8/26/10 13:00
2.1	12/7/09 14:00
1.5	12/5/09 0:00
1.2	3/14/10 12:00
1.1	12/1/09 16:00

U1 PM10 LbPerHr NormalOp	Time
3.83	10/25/10 18:00
3.8	10/8/10 18:00
3.8	10/25/10 11:00
3.8	10/27/10 19:00
3.79	9/12/10 18:00

U2 PM10 LbPerHr NormalOp	Time
3.77	2/22/10 19:00
3.77	4/1/10 19:00
3.75	12/3/09 17:00
3.75	12/3/09 18:00
3.75	12/3/09 19:00

U1 SO2 LbPerHr NormalOp	Time
0.32208	12/3/09 18:00
0.32184	12/3/09 19:00
0.3216	12/17/09 19:00
0.32124	12/3/09 17:00
0.32124	2/11/10 20:00

U2 SO2 LbPerHr NormalOp	Time
0.3213	2/22/10 19:00
0.32112	4/1/10 19:00
0.31974	3/21/10 19:00
0.3195	12/3/09 18:00
0.31944	12/3/09 19:00

Average values Between '11/1/09' and '11/1/10'

U1	In Startup Average
VOC Ppmvdc	104.943
Nox Ppmvdc	14.579
CO Ppmvdc	104.943
PM10 Ppmvdc	N/A
SO2 Ppmvdc	N/A
NH3 Ppmvdc	1.734
VOC LbPerHr	0.381
Nox LbPerHr	0.083
CO LbPerHr	13.134
PM10 LbPerHr	1.731
SO2 LbPerHr	0.145
NH3 LbPerHr	N/A

U1	In Shutdown Average
VOC Ppmvdc	101.705
Nox Ppmvdc	3.141
CO Ppmvdc	101.705
PM10 Ppmvdc	N/A
SO2 Ppmvdc	N/A
NH3 Ppmvdc	1.9
VOC LbPerHr	0.522
Nox LbPerHr	0.016
CO LbPerHr	4.944
PM10 LbPerHr	2.373
SO2 LbPerHr	0.2
NH3 LbPerHr	N/A

U2	In Startup Average
VOC Ppmvdc	163.828
Nox Ppmvdc	11.603
CO Ppmvdc	163.828
PM10 Ppmvdc	N/A
SO2 Ppmvdc	N/A
NH3 Ppmvdc	0.196
VOC LbPerHr	0.438
Nox LbPerHr	0.1
CO LbPerHr	16.114
PM10 LbPerHr	1.99
SO2 LbPerHr	0.167
NH3 LbPerHr	N/A

U2	In Shutdown Average
VOC Ppmvdc	39.971
Nox Ppmvdc	3.445
CO Ppmvdc	39.971
PM10 Ppmvdc	N/A
SO2 Ppmvdc	N/A
NH3 Ppmvdc	0
VOC LbPerHr	0.507
Nox LbPerHr	0.011
CO LbPerHr	5.851
PM10 LbPerHr	2.304
SO2 LbPerHr	0.192
NH3 LbPerHr	N/A

Table 3-1. Component Publications (Cont)

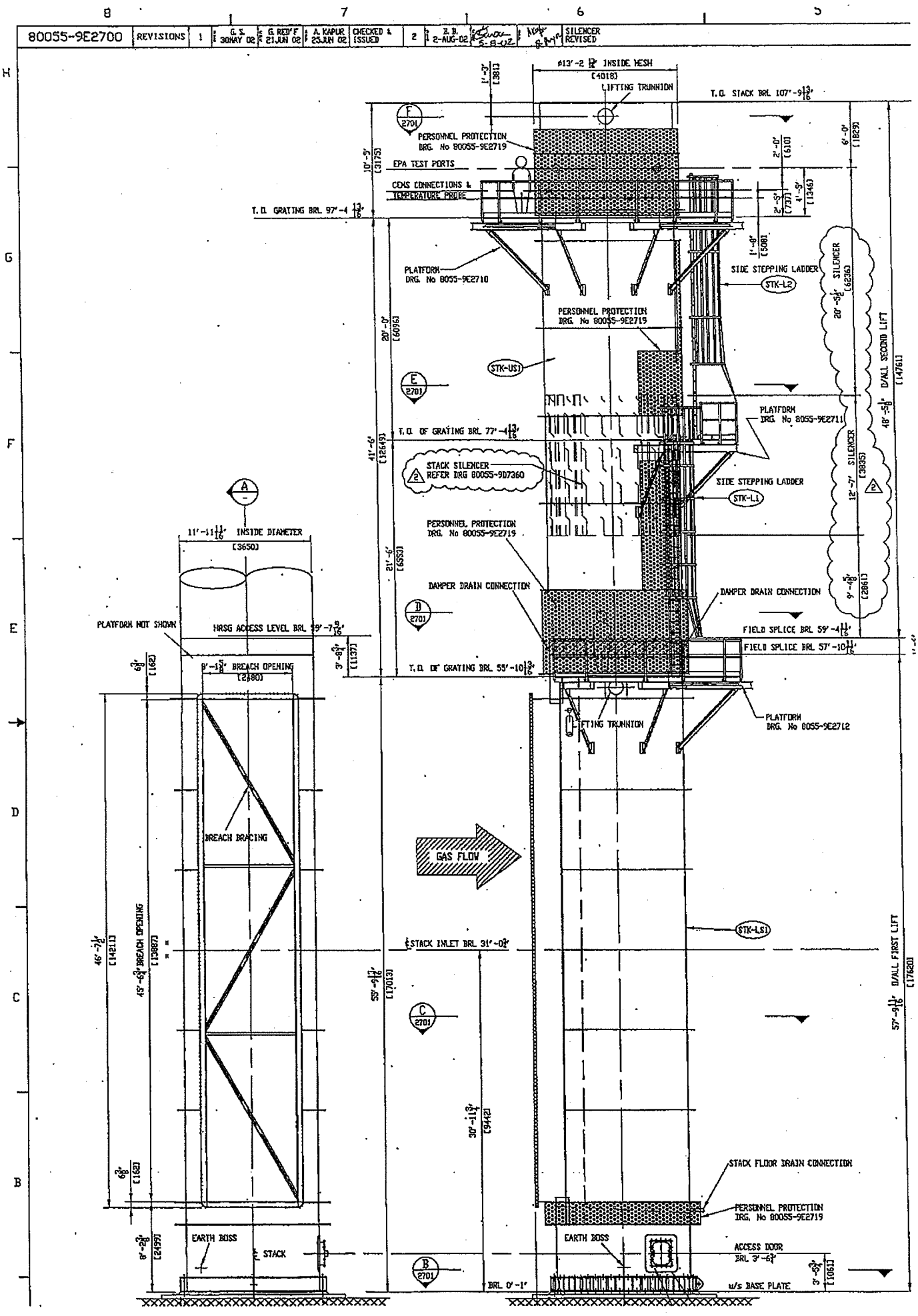
Manufacturer	Component	Publication No./Title
Fisher Controls (Cont)	Filter Regulator, FS67CFR (Part of Forney P/N 74351-03)	Form 5469; Instruction Manual, 67CF Series Filter Regulators
	Pressure Regulator, ¾-Inch NPT, Model 627 (Forney P/N 74704-23)	Form 5252, Instruction Manual, 627 Series Self-Operated Pressure-Reducing Regulators
	Switch, Limit, Type 304 (Part of Forney P/N 74351-03)	Form 2007; Instruction Manual, Type 304 and 304L Electrical Position Switch
	Valve, Rotary Control, 3-Inch, Design V150 (Part of Forney P/N 74351-03)	Form 5290; Instruction Manual; Designs V150, V200, & V300
Forney	HESI, Series 90	384077-02, Service Manual
	MAXFire™ 10 Gas Igniter (Forney P/N 383702-17)	372000-29, Service Manual
Hoffman	Cabinet, Stainless-Steel, 62"H X 60"W X 12"D, NEMA 4X, A-62H6012SSLP (Forney P/N 78868-06)	62405, Enclosure Alterations
	Heater, Cabinet, 120-vac, 400-Watt, P/N D-AH4001B (Forney P/N 91066-06)	64717, Electric Heater
	Light, Cabinet, 120-vac, P/N A-LTMB1 (With Manual Switch and Convenience Outlet) (Forney P/N 70226-10)	51749, Incandescent Lighting Package
Honeywell	Transmitter, Differential Pressure, Model STD120-E1A-000000,MB,SV,1C (With PGI International 5-Valve Manifold, Model M652SCT, ½-Inch NPT) (Forney P/N 91329-04)	34-ST-25-17A, User Manual, ST 3000 Smart Transmitter Release 300 with HART® Communications Option

ANTICIPATED PLANT PERFORMANCE DATA

Case Number		6	7	8	9	10
Case Name		7CIT2	7CIT18	7CIT19	7CIT8	7CIT6
Case Description		100%, 75F, evap, max d.f.	100%, 65F, evap, d.f.	100%, 38F, d.f.	100%, 94F, evap, no d.f.	100%, 92F, evap, no d.f.
Ambient Temperature	°F	75.0	65.0	38.0	94.0	92.0
Relative Humidity	%	50	50	50	50	40
Atmospheric Pressure	psi.a	14.7	14.7	14.7	14.7	14.7
Supplementary Firing Mode		Fired	Fired	Fired	Unfired	Unfired
Gas Turbine Load	%	100	100	100	100	100
Gas Turbine Fuel		NG	NG	NG	NG	NG
Gas Turbine Exhaust Flow	lb/hr	1004293	1024928	1054054	970641	977387
Gas Turbine Exhaust Temperature	°F	1024	1017	1009	1033	1032
	O2	13.250	13.340	13.410	13.130	13.150
Exhaust Gas	N2	74.100	74.460	75.030	73.150	73.540
Constituents	CO2	3.371	3.372	3.416	3.304	3.347
% by Volume	H2O	8.395	7.935	7.251	9.546	9.090
	Ar	0.885	0.890	0.896	0.874	0.879
	SO2	0.000	0.000	0.000	0.000	0.000
Duct Burner Fuel		NG	NG	NG	-	-
Duct Burner Fuel Heating Value	Btu/lb (LHV)	21,055	21,055	21,055	-	-
Duct Burner Heat Input	MBtu/hr (LHV)	57.42	56.35	55.52	0	0
Gas Temperature Entering Duct Burner	°F	983	978	972	-	-
Gas Temperature Leaving Duct Burner	°F	1175	1163	1151	-	-
HP Steam Flow at Terminal Point (1)	lb/hr	181033	180954	181747	130399	130874
HP Steam Temperature (+/- 5°)	°F	961	956	950	970	969
HP Steam Pressure at Terminal Point	psi.a	1243.0	1243.0	1244.4	896.3	899.2
HP Saturated Steam Flow Generated	lb/hr	180081	180477	181747	130399	130874
HP Blowdown Rate	%	0	0	0	0	0
HP Pinch Point	°F	16.7	17.1	17.8	14.2	14.4
HP Approach Temperature	°F	46.8	45.0	42.8	13.5	13.5
HP Desuperheater Spraywater Flow	lb/hr	952	476	0	0	0
HP Feedwater Flow	lb/hr	181033	180954	181747	130399	130874
HP Feedwater Temperature	°F	158.0	154.9	159.3	157.3	154.2
LP Steam Flow at Terminal Point (1)	lb/hr	18730.28	19404.89	20595.37	22619.20	22699.77
LP Steam Temperature (+/- 5°)	°F	388	390	391	379	379
LP Steam Pressure at Terminal Point	psi.a	145.0	146.5	146.5	113.1	113.1
LP Saturated Steam Flow Generated	lb/hr	19048	19683	20794	22619	22700
LP Pegging Steam Flow to Deaerator (4)	lb/hr	317	278	198	0	0
LP Blowdown Rate	%	0	0	0	0	0
LP Pinch Point	°F	18.0	18.7	19.8	21.1	21.1
LP Approach Temperature	°F	29.5	29.3	27.4	11.2	11.7
LP Economizer Extraction Flow to Deaerator	lb/hr	39683	39683	39500	30635	30953
LP Economizer Extraction Temperature	°F	332.4	334.1	337.6	339.9	339.3
LP Feedwater Flow	lb/hr	58731	59365	60293	53254	53652
LP Feedwater Temperature	°F	155.1	152.1	156.4	154.0	151.2
Deaerator Operating Pressure	psi.a	17.5	17.5	17.5	17.5	17.5
Feedwater Flow at Deaerator Outlet	lb/hr	239763	240319	242041	183653	184526
Gas Temperature Leaving HRSG	°F	214.4	214.2	219.8	230.0	228.1
Gas Side Static Pressure Loss (2)	in of water col	12.9	13.4	14.2	11.6	11.7

Notes:
1) Steam production rates based on specified feedwater inlet tempera
2) Static gas side pressure loss from HRSG ductwork inlet to exhaust
   Inlet Duct, Duct Burner, CO Catalyst, SCR Catalyst, Stack Damper
3) Stack Height: 110 ft, Site Elevation: 182 ft.
4) From LP superheated steam line.
(*) These points guaranteed. All others predicted.

Ref doc: The data referred from CDS 1.03, Issue 2.


80055-9E2700
REVISIONS
1 G.S. 30MAY 02 G.REIFF 21JUN 02 A.KAPUR 25JUN 02 CHECKED & ISSUED
2 R.B. 2-AUG-02 SILENCER REVISED
8
7
6
5
H
G
F
E
D
C
B
A
#13'-2 1/2" INSIDE MESH
[4018]
LIFTING TRUNNION
T.O. STACK BRL 107'-9 13/16"
PERSONNEL PROTECTION DRG. No 80055-9E2719
EPA TEST PORTS
CEMS CONNECTIONS & TEMPERATURE PROBE
T.O. GRATING BRL 97'-4 13/16"
PLATFORM DRG. No 80055-9E2710
SIDE STEPPING LADDER
STK-L2
SILENCER
D/ALL SECOND LIFT
PERSONNEL PROTECTION DRG. No 80055-9E2719
STK-U1
T.O. OF GRATING BRL 77'-4 13/16"
PLATFORM DRG. No 80055-9E2711
STACK SILENCER REFER DRG 80055-9D7360
SIDE STEPPING LADDER
STK-L1
PERSONNEL PROTECTION DRG. No 80055-9E2719
DAMPER DRAIN CONNECTION
FIELD SPLICE BRL 59'-4 11/16"
FIELD SPLICE BRL 57'-10 11/16"
T.O. OF GRATING BRL 55'-10 13/16"
PLATFORM DRG. No 80055-9E2712
11'-11 11/16" INSIDE DIAMETER
[3650]
PLATFORM NOT SHOWN
HRSG ACCESS LEVEL BRL 59'-7 5/16"
9'-1 1/8" BREACH OPENING
[2180]
BREACH BRACING
GAS FLOW
STK-L51
STACK INLET BRL 31'-0"
D/ALL FIRST LIFT
STACK FLOOR DRAIN CONNECTION
PERSONNEL PROTECTION DRG. No 80055-9E2719
EARTH BOSS
STACK
ACCESS DOOR BRL 3'-6"
BRL 0'-1"
u/s BASE PLATE

FORNEY CORPORATION		**DRAWING # / REV:**	**403825-01 / A**
PROJECT:	**B10102**	**SALES ORDER:**	**917616**
CUSTOMER:	**Alstom Power**	**P.O.# / JOB #:**	**80055506**
	CITY OF VERNON		
	Malburg Generating Station Project		
LOCATION:	**VERNON, CA.**		

S/O LINE(S)	QTY	PART NUMBER	ASSEMBLY / SHIP LOOSE PART DESCRIPTION (QUANTITY PER UNIT DESCRIBED BELOW)	
ITEM / TAG #	COMP QTY	COMPONENT PART NUMBER	COMPONENT DESCRIPTION	MANUFACTURER

PROJECT SCOPE: TWO (2) DUCT BURNER UNITS TOTAL TO BE SUPPLIED

THE FOLLOWING SALES ORDER LINE QUANTITIES REFLECT THE TOTAL QUANTITY TO BE SHIPPED FOR THAT LINE. THE QUANTITY PER UNIT FOR EACH LINE (IF APPLICABLE) IS LISTED IN PARENTHESIS IN THE LINE DESCRIPTION.

FORNEY'S SCOPE OF SUPPLY IS LIMITED TO THE EQUIPMENT AND DRAWINGS LISTED IN THIS BILL OF MATERIAL.

DRAWINGS:

1.	BILL OF MATERIAL	403825-01
2.	P&ID	403826-01
3.	GENERAL ARRANGEMENT – BURNER ASSEMBLY	403827-01
4.	GENERAL ARRANGEMENT – FUEL SKID ASSEMBLY	403828-01
5.	GENERAL ARRANGEMENT – BLOWER SKID ASSEMBLY	403829-01
6.	BMS SCHEMATIC WIRING DIAGRAM	403830-01
7.	BMS CABINET ASSEMBLY	403831-00
8.	BMS SEQUENCE OF OPERATION	403832-01
9.	BMS LOGIC DIAGRAM	403833-01
10.	I/O LIST	403834-01
11.	ISA DATA SHEETS	403835-01
12.	TAGGING DATA SHEETS	403836-01

DESIGN CRITERIA

100	8		**DUCT BURNER ELEMENT INSERT ASSEMBLY** (ONE UNIT COMPRISED OF FOLLOWING COMPONENTS)	
A1	4	9098200	FUEL GAS FUEL MANIFOLD, 3" SCH 40 309 STAINLESS STEEL.	FORNEY CORP.
A1A	56	39848704	STABILIZER, CAST H.H. (309 STAINLESS STEEL COMPOSITION), 3" x 6" LONG, WITH 5" DIFFUSER PLATES, 309 STAINLESS STEEL.	FORNEY CORP.
A1B	8	37192701	PILOT SHIELD, 10 GA. 309 STAINLESS STEEL, 3" x 6" LONG.	FORNEY CORP.
A2	8	39600001	SCANNER SWIVEL MOUNT ASSEMBLY.	FORNEY CORP.
A3	4	35844705	PILOT HESI POWER PACK, NEMA 4, CLASS III, INTERRUPTIBLE, 120 VAC / 60 HZ.	FORNEY CORP.
A4	4	36370217	PILOT ASSEMBLY, MAXFIRE 10, 46".	FORNEY CORP.
A5	4	36186409	HESI POWER CABLE, 60".	FORNEY CORP.
A6	4	37191903	HOSE, PILOT GAS FLEXIBLE HOSE, 1/2"	FORNEY CORP.

Mike Bonfiglio

From: Adriano Marki
Sent: Wednesday, October 13, 2010 10:14 AM
To: Mike Bonfiglio
Cc: Erik Knutson
Subject: SCR and CO catalyst info

- Stack NOx limit: 2.0 ppmv @ 15% O_2 averaged over one hour
- Ammonia Slip limit: 5.0 ppmv @ 15% O_2 averaged over one hour
- Stack CO limit 2.0 ppmv @ 15% O_2 averaged over three hours
- SCR inlet NOx concentration: average 25ppm
- Turbine exhaust CO concentration: see attached document
- Maximum exhaust flow: 1,066,770lb/Hr
- Maximum heat input:
  460MbtuHr during normal operation and 540MbtuHr with duct burners
- Operating temperature range at the SCR/CO catalyst
  SCR inlet temperature range 550F±2°F during normal operation and up to 590°F with Duct firing
  CO inlet temperature range 875F±5°F during normal operation and up to 1030°F with Duct firing
- Total SCR catalyst volume
  Total number of Modules: 22
  Module Width 8'-7 1/8"
  Module Height 8'-7 1/8"
  Module Depth 1'-4"
- Total CO catalyst volume
  Width: 4 Modules
  Height: 19 Modules
  Size of each Module 26"x26"

Adriano Marki

Adriano Marki, P.E.
Plant Engineer
Malburg Generating Station

colorado energy

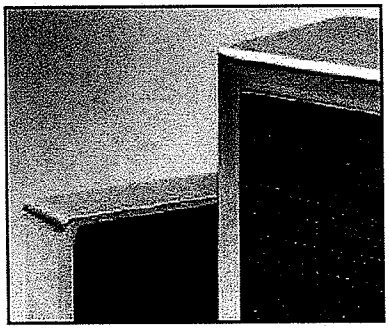
A BICENT POWER COMPANY
Office: +1 323 476 3612
Cell: +1 323 383 2502
Fax: +1 323 476 3640
4963 Soto Street, Vernon, CA 90058

PARAMETER	Units	CASE 1	CASE 2	CASE 3	CASE 4	CASE 5	CASE 6	CASE 7	CASE 8	CASE 9
GENERAL INFORMATION										
Case Label		1	2	3	4	5	6	7	8	9
Load	%	100	100	100	100	100	100	100	100	100
GT Fuel Type		NG	NG	NG	NG	NG	NG	NG	NG	NG
Ambient Temp	°F	75	75	75	94	92	75	65	38	94
Duct Burner		on	off	on	on	on	on	on	on	off
EXHAUST CHARACTERISTICS										
Temp at Catalyst	°F	1,056	885	911	1,043	1,016	1,025	1,017	1,009	889
GT Flow	lb/hr	1,007,787	1,004,303	1,004,795	889,556	979,805	1,007,030	1,027,614	1,056,702	970,651
Gas Composition	% vol									
O2		11.96	13.25	13.07	12.01	12.24	12.24	12.37	12.47	13.13
H2O		9.56	8.4	8.56	10.55	9.9	9.3	8.81	8.1	9.55
N2		73.64	74.1	74.03	72.75	73.22	73.75	74.12	74.7	73.14
CO2		3.96	3.37	3.46	3.82	3.76	3.83	3.82	3.84	3.3
Ar		0.88	0.89	0.89	0.87	0.88	0.88	0.89	0.89	0.87
Total		100.00	100.01	100.01	100.00	100.00	100.00	100.01	100.00	99.99
MW	lb/lb-mole	28.26	28.34	28.33	28.14	28.21	28.28	28.33	28.41	28.20
Flow Rate (wet)	scfh	13,514,850	13,431,438	13,442,192	11,980,446	13,165,127	13,496,866	13,745,234	14,096,799	13,045,367
Flow Rate (dry)	scfh	12,222,830	12,303,197	12,291,541	10,716,509	11,861,779	12,241,657	12,534,279	12,954,958	11,799,534
O2 Concentration Dry	%	13.22	14.47	14.29	13.43	13.58	13.50	13.67	13.57	14.52
CO at COC										
CO Flow (COC)	lb/hr	15.04	5.95	13.02	12.84	13.91	14.53	14.74	15.22	5.66
	scfh	203.54	80.51	176.17	173.75	188.25	196.66	199.46	206.04	76.60
CO as ppmvd (COC)		16.65	6.54	14.33	16.21	15.87	16.07	15.91	15.90	6.49
CO as ppmvd at 15% O2 (COC)		12.80	6.00	12.80	12.80	12.80	12.80	12.80	12.80	6.00
CO REQUIREMENTS										
CO Flow (Required)	lb/hr	1.76	1.49	1.53	1.50	1.63	1.70	1.73	1.78	1.41
	scfh	23.85	20.13	20.65	20.38	22.06	23.05	23.37	24.15	19.15	
CO as ppmvd (Required)		1.95	1.64	1.68	1.90	1.86	1.88	1.86	1.86	1.62
CO as ppmvd at 15% O2 (Required)		1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
CO Destruction Required	%	73.68	75.00	73.68	73.68	73.68	73.68	73.68	73.68	75.00
VOC at COC										
VOC Flow (COC)	lb/hr	2.55	0.68	2.21	2.18	2.36	2.46	2.50	2.58	0.65
	scfh	60.43	16.10	52.30	51.58	55.89	58.38	59.21	61.17	15.32
VOC as ppmvd (COC)		4.94	1.31	4.26	4.81	4.71	4.77	4.72	4.72	1.30
VOC as ppmvd at 15% O2 (COC)		3.8	1.2	3.8	3.8	3.8	3.8	3.8	3.8	1.2
VOC REQUIREMENTS										
VOC Flow (Required)	lb/hr	0.67	0.57	0.58	0.57	0.62	0.65	0.66	0.68	0.54
	scfh	15.90	13.42	13.76	13.57	14.71	15.36	15.58	16.10	12.77
VOC as ppmvd (Required)		1.30	1.09	1.12	1.27	1.24	1.26	1.24	1.24	1.08
VOC as ppmvd at 15% O2 (Required)		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
VOC Destruction Required	%	73.68	16.67	73.68	73.68	73.68	73.68	73.68	73.68	16.67
EXPECTED VOC DATA										
Formaldehyde Destruction Expected	%	89	89	89	89	89	89	89	89	89
Non-Methane/Non-Ethane Destruction Expected	%	79	79	79	79	79	79	79	79	79
ADDITIONAL DATA										
SO2 to SO3 Conversion Expected	%	48	48	48	48	48	48	48	48	48
Expected Pressure Drop	"H_2O	1.52	1.35	1.38	1.34	1.44	1.49	1.51	1.55	1.31
Guaranteed Pressure Drop	"H_2O	1.72	1.55	1.58	1.54	1.64	1.69	1.71	1.75	1.51

EmeraChem

THE POWER OF CATALYSIS

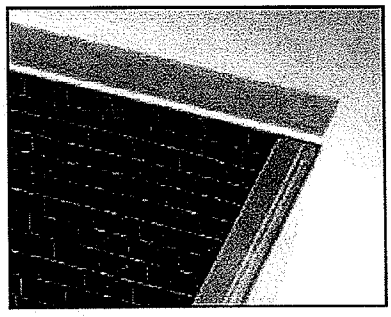
ADCAT™ CO Catalyst



EmeraChem's ADCAT™ CO/VOC oxidation catalyst yields optimal conversion efficiencies with reduced catalyst volume for the lowest capital cost.

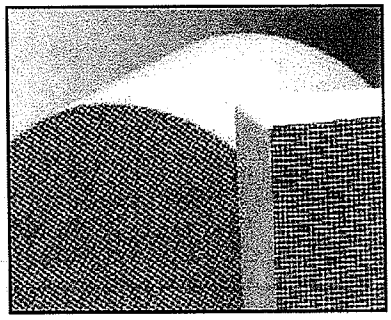
Heavy-duty stainless steel module design:

- High temperature nickel alloy substrate.
- Durable, longest-lasting, highest performance catalyst available.
- Catalyst module cell densities up to 700 cpsi.



Discrete cell substrate construction:

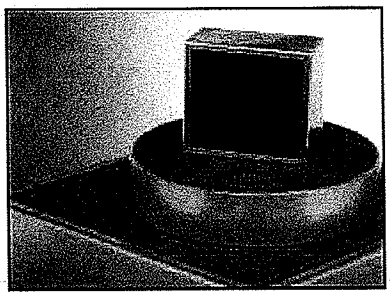
- Ensures maximum durability and extreme module mechanical integrity.
- Yields lowest possible pressure drop for the most surface area.
- Prevents plugging of inter-catalyst channels and sub strate nesting, which cause exhaust bypass and precious metal loss.



Flexibility for meeting future regulations:

- Individually mounted module design, allows for addition and replacement of catalyst modules to existing installations.
- Backed with a three-year warranty and has an expected life of greater than seven years.
- Broad operating temperature range (350 to 1200 °F) allows for simple and seamless integration of CO catalyst systems into all applications.

EmeraChem is a leading, full-service provider of catalysts and catalytic solutions with resources encompassing every aspect required to satisfy customer needs, from analyzing process conditions to delivering the final product.

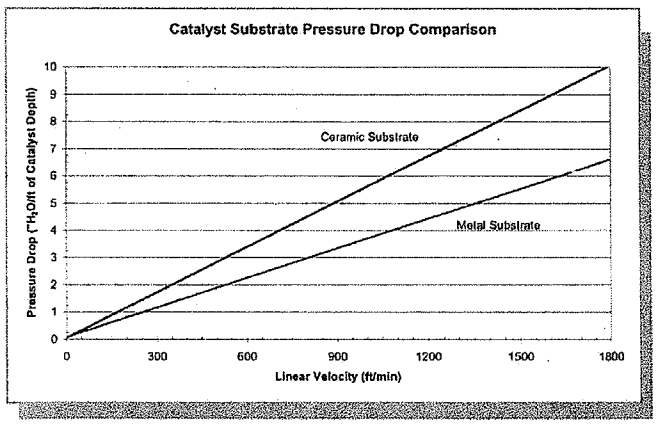


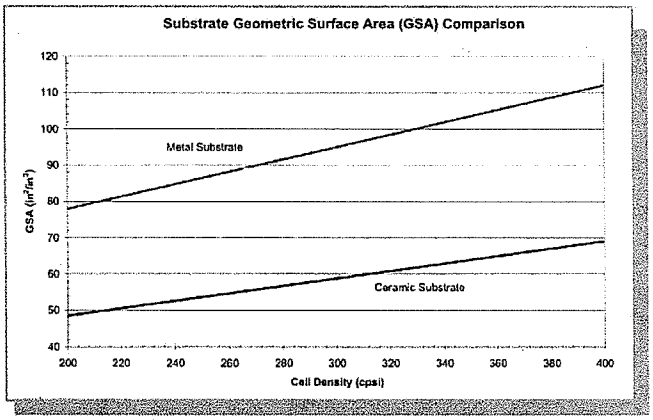
EmeraChem delivers distinctly-focused, customer-specific engineered solutions within budget and on schedule.

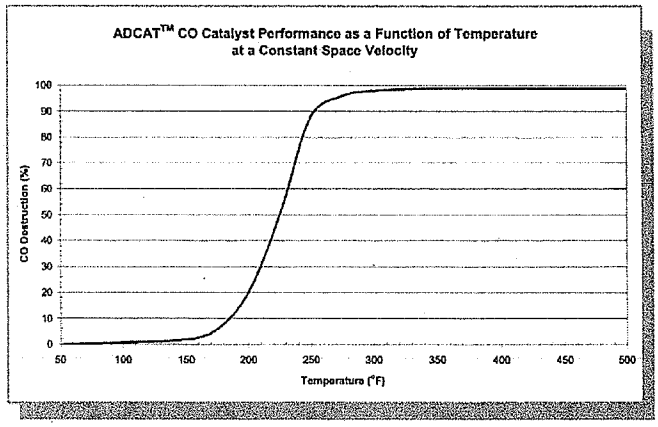
ADCAT™ CO Catalyst: Technical Specifications

Type	Material	Properties			Units	Specifications					
Honeycomb Monolith	Metal Modules	Cell Density			cpsi	200	300	400	500	600	700
		Wall Thickness			in.	0.002	0.002	0.001/0.002	0.001/0.002	0.001/0.002	0.001/0.002
		Geometric Surface Area			in^2/in^3	76.24	97.70	115.10	124.31	145.32	165.55
		Maximum Temperature			°F	1,200	1,200	1,200	1,200	1,200	1,200
		Coefficient of Thermal Expansion			$x10^{-6}in/in/^oF$	5.9-8.0	5.9-8.0	5.9-8.0	5.9-8.0	5.9-8.0	5.9-8.0
		Range of Dimensions	Blocks	Height	in.	≤36	≤36	≤36	≤36	≤36	≤36
				Width	in.	≤36	≤36	≤36	≤36	≤36	≤36
				Depth*	in.	1-6	1-6	1-6	1-6	1-6	1-6
			Round	Diameter	in.	≤36	≤36	≤36	≤36	≤36	≤36
				Depth*	in.	1-6	1-6	1-6	1-6	1-6	1-6
	Ceramic Modules	Wall Thickness			in.	0.0105	0.0080	0.0070	n/a	n/a	n/a
		Geometric Surface Area			in^2/in^3	48.20	59.70	68.80	n/a	n/a	n/a
		Maximum Temperature			°F	1,200	1,200	1,200	n/a	n/a	n/a
		Coefficient of Thermal Expansion			$x10^{-6}in/in/^oF$	3.91	3.91	3.91	n/a	n/a	n/a
		Range of Dimensions	Blocks	Height	in.	≤42	≤42	≤42	n/a	n/a	n/a
				Width	in.	≤42	≤42	≤42	n/a	n/a	n/a
				Depth*	in.	1-7	1-7	1-7	n/a	n/a	n/a
			Round	Diameter	in.	≤42	≤42	≤42	n/a	n/a	n/a
				Depth*	in.	1-7	1-7	1-7	n/a	n/a	n/a

Listed numbers are nominal values. EmeraChem manufactures catalyst modules in various shapes and sizes.
**For greater depths, multiple units may be stacked to obtain desired dimensions.*







Inquiries:
Send us specifications, drawings or gas stream data and we will provide you with a custom-tailored solution to your specific application. EmeraChem also provides analytical and technical services to assist in determining your current emissions and catalytic performance.

EmeraChem is a proven leader in the catalytic control of NOx, SOx, CO, VOCs and PM for manufacturing and industrial applications as well as for the power generation industry.

EmeraChem LLC
2375 Cherahala Boulevard
Knoxville, Tennessee 37931
Toll Free: 888.777.4538
Tel: 865.246.3000
Fax: 865.246.3001
www.emerachem.com

South Coast Air Quality Management District

Form 500-A2

TITLE V Application Certification

Mail Application To:
P.O. Box 4944
Diamond Bar, CA 91765

Tel: (909) 396-3385
www.aqmd.gov

Section I - Facility Information

1. Permit to be issued to (Business name of operator to appear on permit): Bicent (California) Malburg

2. Valid AQMD Facility ID (Available on Permit or Invoice issued by AQMD): 155474

3. This Certification is submitted with a (Check one):
   a. ☒ Title V Application (Initial, Revision or Renewal)
   b. ○ Supplement/Correction to a Title V Application
   c. ○ MACT Part 2

4. Is Form 500-C2 included with this Certification? ○ Yes ☒ No

Section II - Responsible Official Certification Statement

I certify under penalty of law that I am the responsible official for this facility as defined in AQMD Regulation XXX and that based on information and belief formed after reasonable inquiry, the statements and information in this document and in all attached application forms and other materials are true, accurate, and complete.

Read each statement carefully and check each that applies – ***You must check 3a or 3b.***

1. For Initial, Permit Renewal, and Administrative Application Certifications:

a. ○ The facility, including equipment that are exempt from written permit per Rule 219, is currently operating and will continue to operate in compliance with all applicable requirement(s) identified in Section II and Section III of Form 500-C1,

i. ○ except for those requirements that do not specifically pertain to such devices or equipment and that have been identified as "Remove" on Section III of Form 500-C1.

ii. ○ except for those devices or equipment that have been identified on the completed and attached Form 500-C2 that will not be operating in compliance with the specified applicable requirement(s).

b. ○ The facility, including equipment that are exempt from written permit per Rule 219, will meet in a timely manner, all applicable requirements with future effective dates.

2. For Permit Revision Application Certifications:

a. ☒ The equipment or devices to which this permit revision applies, will in a timely manner comply with all applicable requirements identified in Section II and Section III of Form 500-C1.

3. For MACT Hammer Certifications:

a. ☒ The facility is subject to Section 112(j) of the Clean Air Act (Subpart B of 40 CFR part 63), also known as the MACT "hammer." The following information is submitted with a Title V application to comply with the Part 1 requirements of Section 112(j). (If Part 2 has not been submitted, you must submit 500-MACT Part 2 with this form.)

b. ○ The facility is not subject to Section 112(j) of the Clean Air Act (Subpart B of 40 CFR part 63).

D. Halliday

Signature of Responsible Official

October 18, 2006

Date

Douglas Halliday

Type or Print Name of Responsible Official

(410) 770-9500

Phone

Chief Operating Officer

Title of Responsible Official

(410) 770-9705

Fax

103 N. Washington Street	Easton	MD	21601
Address of Responsible Official	City	State	Zip Code

Acid Rain Facilities Only: Turn page over & complete Section III

Acid Rain facilities must certify their compliance status of the devices subject to applicable requirements under Title IV by an individual who meets the definition of Designated (or Alternate) Representative in 40 CFR Part 72.

Section III - Designated Representative Certification Statement

1. *For Acid Rain Facilities Only:* I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

D. Halliday			October 18, 2010
Signature of Designated Representative or Alternate			Date
Douglas Halliday			(410) 770-9500
Type or Print Name of Designated Representative or Alternate			Phone
Chief Operating Officer			(410) 770-9705
Title of Designated Representative or Alternate			Fax
103 N. Washington Street	Easton	MD	21601
Address of Designated Representative or Alternate	City	State	Zip Code

Title V
Form 500-C1

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
Compliance Status Report

To provide the compliance status of your facility with applicable federally enforceable requirements and identify other local-only requirements, complete this form and attach it to a completed compliance certification Form 500-A2. As appropriate, all submittals of Form 500-C2 as appropriate should also be attached to this form.

Section I - General Information

1. Facility Name: Bicent (California) Malburg Facility ID (6-Digit): 155474

PROCEDURES FOR DETERMINING COMPLIANCE STATUS

1. **Equipment verification:** Review the list of pending applications, and either the preliminary Title V facility permit or the list of current permits to operate that the AQMD provided you, to determine if they completely and accurately describe all equipment operating at the facility. Attach a statement to describe any discrepancies.
2. **Identify applicable requirements*:** Use the checklist in Section II to identify all applicable and federally-enforceable local, state, and federal rules and regulations, test methods, and monitoring, recordkeeping and reporting (MRR) requirements that apply to any equipment or process (including equipment exempt from a permit by Rule 219) at your facility.

   The potential applicable requirements, test methods and MRR requirements are identified and listed adjacent to each given equipment/process description. Check off each box adjacent to the corresponding requirement as it applies to your particular equipment/process.

   Note: Even if there is only one piece of equipment that is subject to a particular requirement, the appropriate box should be checked.
3. **Identify additional applicable requirements*:** Use Section III to identify any additional requirements not found in Section II. Section II is not a complete list of all applicable requirements. It does not include recently adopted NESHAP regulations by EPA or recent amendments to AQMD rules. Do not add rules listed in Section V here.
4. **Identify any requirements that do not apply to a specific piece of equipment or process:** Also use Section III to identify any requirements that are listed in Section II but that do not apply to a specific piece of equipment or process. Fill out Section III of this form and attach a separate sheet to explain the reason(s) why the identified rules do not apply. Note: Listing any requirement that does not apply to a specific piece of equipment will not provide the facility with a permit shield unless one is specifically requested by completing Form 500-D and is approved by AQMD.
5. **Identify SIP-approved rules that are not current AQMD rules:** Use Section IV to identify older versions of current AQMD rules that are the EPA-approved versions in the State Implementation Plan (SIP), and that are still applicable requirements as defined by EPA. The facility is not required to certify compliance with the items checked in Section IV provided that the non-SIP approved rule in Section II is at least as stringent as the older SIP-approved version in Section IV. **
6. **Identify Local-Only Enforceable Regulatory Requirements:** Use Section V to identify AQMD rules that are not SIP-approved and are not federally enforceable.
7. **Determine compliance:** Determine if all equipment and processes are complying with all requirements identified in Sections II and III. If each piece of equipment complies with all applicable requirements, complete and attach Form 500-A2 to certify the compliance status of the facility. If any piece of equipment is not in compliance with any of the applicable requirements, complete and attach Form 500-C2 in addition to Form 500-A2.

* The following AQMD rules and regulations are not required to be included in Section II and do not have to be added to Section III: Regulation I, List and Criteria in Regulation II, Rule 201, Rule 201.1, Rule 202, Rule 203, Rule 205, Rule 206, Rule 207, Rule 208, Rule 209, Rule 210, Rule 212, Rule 214, Rule 215, Rule 216, Rule 217, Rule 219, Rule 220, Rule 221, Regulation III, Regulation V, Regulation VIII, Regulation XII, Regulation XV, Regulation XVI, Regulation XIX, Regulation XXI, Regulation XXII, and Regulation XXX.

** Emission units adversely affected by the gap between current and SIP-approved versions of rules may initially be placed in a non-Title V portion of the permit

Section II - Applicable Requirements, Test Methods, & MRR Requirements

EQUIPMENT/PROCESS	APPLICABLE REQUIREMENT	TEST METHOD	MRR REQUIREMENT
☒ All Air Pollution Control Equipment Using Combustion (RECLAIM & non-RECLAIM sources)	☐ Rule 480 (10/07/77)	N/A	N/A
☐ All Coating Operations	☐ Rule 442 (12/15/00)	☐ Rule 442(f)	☐ Rule 442(g)
☐ All Combustion Equipment, ≥ 555 Mmbtu/Hr (except for NOx RECLAIM sources)	☐ Rule 474 (12/04/81)	☐ AQMD TM 7.1 or 100.1	
☒ All Combustion Equipment Except Internal Combustion Engines (RECLAIM & non-RECLAIM sources)	☐ Rule 407 (04/02/82) ☐ Rule 409 (08/07/81)	☐ AQMD TM 100.1 or 10.1, 307-91 ☐ AQMD TM 5.1, 5.2, or 5.3	
☒ All Combustion Equipment Using Gaseous Fuel (except SOx RECLAIM sources)	☐ Rule 431.1 (06/12/98)	☐ Rule 431.1(f)	☐ Rule 431.1(d) & (e)
☐ All Combustion Equipment Using Liquid Fuel (except SOx RECLAIM sources)	☐ Rule 431.2 (09/15/00)	☐ Rule 431.2(g)	☐ Rule 431.2(f)
☐ All Combustion Equipment Using Fossil Fuel (except SOx RECLAIM sources)	☐ Rule 431.3 (05/07/76)		
☒ All Equipment	☐ Rule 401 (11/09/01) ☐ Rule 405 (02/07/86) ☐ Rule 408 (05/07/76) ☐ Rule 430 (07/12/96) ☐ Rule 701 (06/13/97) ☐ New Source Review, BACT ☐ Rule 1703 (10/07/88) ☐ 40 CFR68 - Accidental Release Prevention	☐ California Air Resources Board Visible Emission Evaluation ☐ AQMD TM 5.1, 5.2, or 5.3 N/A See Applicable Subpart	 ☐ Rule 430(b) See Applicable Subpart
☐ All Equipment Processing Solid Materials	☐ Rule 403 (04/02/04)	☐ Rule 403(d)(4)	☐ Rule 403(f)
☒ All Equipment With Exhaust Stack (except cement kilns subject to Rule 1112.1)	☐ Rule 404 (02/07/86)	☐ AQMD TM 5.1, 5.2, or 5.3	
☐ All Facilities Using Solvents to Clean Various Items or Equipment	☐ Rule 109 (05/02/03) ☐ Rule 1171 (11/07/03) ☐ 40 CFR63 SUBPART T	☐ Rule 109(g) ☐ Rule 1171(f) See Applicable Subpart	☐ Rule 109(c) ☐ Rule 1171(c)(6) See Applicable Subpart
☒ All RECLAIM Equipment (NOx & SOx)	☐ Reg. XX - RECLAIM	☐ Rule 2011, App. A (12/05/03) ☐ Rule 2012, App. A (12/05/03)	☐ Rule 2011, App. A (12/05/03) ☐ Rule 2012, App. A (12/05/03)
☐ Abrasive Blasting	☐ Rule 1140 (08/02/85)	☐ Rule 1140(d) & (e), AQMD Visible Emission Method	
☐ Aggregate and Related Operations	☐ Rule 1157 (01/07/05)	☐ Rule 1157(f)	☐ Rule 1157(e)
☐ Appliances Containing Ozone Depleting Substances (except Motor Vehicle Air Conditioners): Manufacturing, Repair, Maintenance, Service, & Disposal	☐ 40 CFR82 SUBPART F	See Applicable Subpart	See Applicable Subpart

Section II - Applicable Requirements, Test Methods, & MRR Requirements

EQUIPMENT/PROCESS	APPLICABLE REQUIREMENT	TEST METHOD	MRR REQUIREMENT
☐ Asphalt	See Manufacturing, Asphalt Processing & Asphalt Roofing		
☐ Asphalt Concrete/Batch Plants	☐ 40 CFR60 SUBPART I	See Applicable Subpart	See Applicable Subpart
☐ Benzene Emissions, Maleic Anhydride Plants, Ethylbenzene/Styrene Plants, Benzene Storage Vessels, Benzene Equipment Leaks, & Coke By-Product Recovery Plants	☐ Rule 1173 (12/06/02) ☐ Rule 1176 (09/13/96) ☐ 40 CFR61 SUBPART L ☐ 40 CFR61 SUBPART Y ☐ 40 CFR63 SUBPART R ☐ 40 CFR63 SUBPART CC	☐ Rule 1173(j) ☐ Rule 1176(h) See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart	☐ Rule 1173(i) ☐ Rule 1176(f) & (g) See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart
☐ Benzene Transfer Operations	☐ Rule 1142 (07/19/91) ☐ 40 CFR61 SUBPART BB ☐ 40 CFR63 SUBPART Y	☐ Rule 1142(e) See Applicable Subpart See Applicable Subpart	☐ Rule 1142(h) See Applicable Subpart See Applicable Subpart
☐ Benzene Waste Operations	☐ Rule 1176 (09/13/96) ☐ 40 CFR61 SUBPART FF ☐ 40 CFR63 SUBPART CC	☐ Rule 1176(h) See Applicable Subpart See Applicable Subpart	☐ Rule 1176(f) & (g) See Applicable Subpart See Applicable Subpart
☐ Beryllium Emissions	☐ 40 CFR61 SUBPART C	See Applicable Subpart	See Applicable Subpart
☐ Beryllium Emissions, Rocket Motor Firing	☐ 40 CFR61 SUBPART D	See Applicable Subpart	See Applicable Subpart
☐ Boiler, < 5 Mmbtu/Hr (non-RECLAIM sources)	☐ Rule 1146.1 (05/13/94) ☐ Rule 1146.2 (01/07/05) ☐ 40 CFR63 SUBPART DDDDD	☐ Rule 1146.1(d) N/A See Applicable Subpart	☐ Rule 1146.1(c)(2) & (c)(3) N/A See Applicable Subpart
☐ Boiler, < 5 Mmbtu/Hr (RECLAIM sources)	☐ Rule 1146.1 (05/13/94) - excluding NOx requirements ☐ 40 CFR63 SUBPART DDDDD	☐ Rule 1146.1(d) See Applicable Subpart	☐ Rule 1146.1(c)(2) & (c)(3) See Applicable Subpart
☐ Boiler, ≥ 5 Mmbtu/Hr (non-RECLAIM sources)	☐ Rule 218 (05/14/99) ☐ Rule 429 (12/21/90) ☐ Rule 475 (08/07/78) ☐ Rule 476 (10/08/76) ☐ Rule 1146 (11/17/00) ☐ 40 CFR60 SUBPART D ☐ 40 CFR60 SUBPART Da ☐ 40 CFR60 SUBPART Dc ☐ 40 CFR63 SUBPART DDDDD	☐ AQMD TM 100.1 N/A ☐ AQMD TM 5.1, 5.2, or 5.3 ☐ AQMD TM 7.1, 100.1, 5.1, 5.2, or 5.3 ☐ Rule 1146(d) See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart	☐ Rule 218(e) & (f) ☐ Rule 429(d) ☐ Rule 1146(c)(6) & (c)(7) See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart
☐ Boiler, ≥ 5 Mmbtu/Hr (RECLAIM sources)	☐ Rule 475 (08/07/78) ☐ Rule 476 (10/08/76) - excluding NOx requirements ☐ Rule 1146 (11/17/00) - excluding NOx requirements ☐ Rule 2011 (12/05/03) or Rule 2012 (12/05/03) ☐ 40 CFR60 SUBPART D ☐ 40 CFR60 SUBPART Da ☐ 40 CFR60 SUBPART Dc ☐ 40 CFR63 SUBPART DDDDD	☐ AQMD TM 5.1, 5.2, or 5.3 ☐ AQMD TM 7.1, 100.1, 5.1, 5.2, or 5.3 ☐ Rule 1146(d) ☐ Rule 2011, App. A (12/05/03) or Rule 2012, App. A (12/05/03) See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart	☐ Rule 1146(c)(6) & (c)(7) ☐ Rule 2011, App. A (12/05/03) or Rule 2012, App. A (12/05/03) See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart

Section II - Applicable Requirements, Test Methods, & MRR Requirements

EQUIPMENT/PROCESS	APPLICABLE REQUIREMENT	TEST METHOD	MRR REQUIREMENT
			See Applicable Subpart
☐ Boiler, Petroleum Refining (non-RECLAIM sources)	☐ Rule 218 (05/14/99) ☐ Rule 429 (12/21/90) ☐ Rule 431.1 (06/12/98) ☐ Rule 475 (08/07/78) ☐ Rule 1146 (11/17/00) ☐ 40 CFR60 SUBBPART J ☐ 40 CFR63 SUBPART DDDDD	☐ AQMD TM 100.1 N/A ☐ Rule 431.1(f) ☐ AQMD TM 5.1, 5.2, or 5.3 ☐ Rule 1146(d) See Applicable Subpart See Applicable Subpart	☐ Rule 218(e) & (f) ☐ Rule 429(d) ☐ Rule 431.1(d) & (e) ☐ Rule 1146(c)(6) & (c)(7) See Applicable Subpart See Applicable Subpart
☐ Boiler, Petroleum Refining (RECLAIM sources)	☐ Rule 1146 (11/17/00) - excluding NOx requirements ☐ Rule 2011 (12/05/03) or Rule 2012 (12/05/03) ☐ 40 CFR60 SUBPART J ☐ 40 CFR63 SUBPART DDDDD	☐ Rule 1146(d) ☐ Rule 2011, App. A (12/05/03) or Rule 2012, App. A (12/05/03) See Applicable Subpart See Applicable Subpart	☐ Rule 1146(c)(6) & (c)(7) ☐ Rule 2011, App. A (12/05/03) or Rule 2012, App. A (12/05/03) See Applicable Subpart See Applicable Subpart
☐ Boilers, Electric Utility (non-RECLAIM sources)	☐ Rule 218 (05/14/99) ☐ Rule 429 (12/21/90) ☐ Rule 1135 (07/19/91) ☐ 40 CFR60 SUBPART Db ☐ 40 CFR63 SUBPART DDDDD	☐ AQMD TM 100.1 N/A ☐ Rule 1135(e) See Applicable Subpart See Applicable Subpart	☐ Rule 218(e) & (f) ☐ Rule 429(d) ☐ Rule 1135(e) See Applicable Subpart See Applicable Subpart
☐ Boilers, Electric Utility (RECLAIM sources)	☐ Rule 2012 (12/05/03) ☐ 40 CFR60 SUBPART Db ☐ 40 CFR63 SUBPART DDDDD	☐ Rule 2012, App. A (12/05/03) See Applicable Subpart See Applicable Subpart	☐ Rule 2012, App. A (12/05/03) See Applicable Subpart See Applicable Subpart
☐ Bulk Loading Of Organic Liquids	☐ Rule 462 (05/14/99) ☐ 40 CFR60 SUBPART XX ☐ 40 CFR63 SUBPART R ☐ 40 CFR63 SUBPART EEEE ☐ 40 CFR63 SUBPART GGGGG	☐ Rule 462(f) See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart	☐ Rule 462(g) See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart
☐ Cadmium Electroplating Operation	☐ Rule 1426 (05/02/03)		☐ Rule 1426(e)
☐ Calciner, Mineral Industries	☐ 40 CFR60 SUBPART UUU	See Applicable Subpart	See Applicable Subpart
☐ Calciner, Petroleum Coke	☐ Rule 477 (04/03/81) ☐ Rule 1119 (03/02/79) ☐ 40 CFR63 SUBPART L	☐ AQMD Visible Emissions, AQMD TM 5.1, 5.2, or 5.3 ☐ AQMD TM 6.1 or 100.1 See Applicable Subpart	 See Applicable Subpart
☐ Charbroilers	☐ Rule 1174 (10/05/90) ☐ Rule 1138 (11/14/97)	☐ AQMD Test Protocol ☐ Rule 1138(g)	 ☐ Rule 1138(d)
☐ Chrome Plating & Chromic Acid Anodizing Operation	☐ Rule 1426 (05/02/03) ☐ Rule 1469 (05/02/03)	 ☐ Rule 1469(e)	☐ Rule 1426(e) ☐ Rule 1469(g), (j) & (k)
☐ Coating Operation, Adhesive Application Operation	☐ Rule 109 (05/02/03) ☐ Rule 481 (01/11/02) ☐ Rule 1132 (05/07/04) ☐ Rule 1168 (01/07/05)	☐ Rule 109(g) ☐ Rule 481(d) ☐ Rule 1132(f) ☐ Rule 1168(f) & (g)	☐ Rule 109(c) ☐ Rule 1132(g) ☐ Rule 1168(e)

Section II - Applicable Requirements, Test Methods, & MRR Requirements

EQUIPMENT/PROCESS	APPLICABLE REQUIREMENT	TEST METHOD	MRR REQUIREMENT
	☐ Rule 1171 (11/07/03) ☐ 40 CFR60 SUBPART RR	☐ Rule 1171(f) See Applicable Subpart	☐ Rule 1171(c)(6) See Applicable Subpart
☐ Coating Operation, Aerospace Assembly & Component Manufacturing	☐ Rule 109 (05/02/03) ☐ Rule 481 (01/11/02) ☐ Rule 1124 (09/21/01) ☐ Rule 1132 (05/07/04) ☐ Rule 1171 (11/07/03) ☐ 40 CFR63 SUBPART GG	☐ Rule 109(g) ☐ Rule 481(d) ☐ Rule 1124(e) & (f) ☐ Rule 1132(f) ☐ Rule 1171(f) See Applicable Subpart	☐ Rule 109(c) ☐ Rule 1124(j) ☐ Rule 1132(g) ☐ Rule 1171(c)(6) See Applicable Subpart
☐ Coating Operation, Graphic Arts (Gravure, Letter Press, Flexographic & Lithographic Printing Process, Etc.)	☐ Rule 109 (05/02/03) ☐ Rule 481 (01/11/02) ☐ Rule 1130 (10/08/99) ☐ Rule 1132 (05/07/04) ☐ Rule 1171 (11/07/03) ☐ 40 CFR60 SUBPART QQ ☐ 40 CFR60 SUBPART RR ☐ 40 CFR60 SUBPART FFF ☐ 40 CFR60 SUBPART VVV ☐ 40 CFR63 SUBPART KK ☐ 40 CFR63 SUBPART JJJJ	☐ Rule 109(g) ☐ Rule 481(d) ☐ Rule 1130(h) ☐ Rule 1132(f) ☐ Rule 1171(f) See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart	☐ Rule 109(c) ☐ Rule 1130(e) ☐ Rule 1132(g) ☐ Rule 1171(c)(6) See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart
☐ Coating Operation, Magnet Wire Coating	☐ Rule 109 (05/02/03) ☐ Rule 481 (01/11/02) ☐ Rule 1126 (01/13/95) ☐ Rule 1132 (05/07/04) ☐ Rule 1171 (11/07/03)	☐ Rule 109(g) ☐ Rule 481(d) ☐ Rule 1126(d) ☐ Rule 1132(f) ☐ Rule 1171(f)	☐ Rule 109(c) ☐ Rule 1126(c)(4) ☐ Rule 1132(g) ☐ Rule 1171(c)(6)
☐ Coating Operation, Marine Coating (Except for recreational equipment)	☐ Rule 109 (05/02/03) ☐ Rule 481 (01/11/02) ☐ Rule 1106 (01/13/95) ☐ Rule 1132 (05/07/04) ☐ Rule 1171 (11/07/03) ☐ 40 CFR63 SUBPART II	☐ Rule 109(g) ☐ Rule 481(d) ☐ Rule 1106(e) ☐ Rule 1132(f) ☐ Rule 1171(f) See Applicable Subpart	☐ Rule 109(c) ☐ Rule 1106(c)(5) ☐ Rule 1132(g) ☐ Rule 1171(c)(6) See Applicable Subpart
☐ Coating Operation, Metal Coating	☐ Rule 109 (05/02/03) ☐ Rule 481 (01/11/02) ☐ Rule 1107 (11/09/01) ☐ Rule 1132 (05/07/04) ☐ Rule 1171 (11/07/03) ☐ 40 CFR60 SUBPART EE ☐ 40 CFR60 SUBPART SS ☐ 40 CFR63 SUBPART NNNN ☐ 40 CFR63 SUBPART MMMM ☐ 40 CFR63 SUBPART RRRR	☐ Rule 109(g) ☐ Rule 481(d) ☐ Rule 1107(f) ☐ Rule 1132(f) ☐ Rule 1171(f) See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart	☐ Rule 109(c) ☐ Rule 1107(k) ☐ Rule 1132(g) ☐ Rule 1171(c)(6) See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart
☐ Coating Operation, Metal Containers, Closure, & Coil Coating Operations	☐ Rule 109 (05/02/03) ☐ Rule 481 (01/11/02) ☐ Rule 1125 (01/13/95)	☐ Rule 109(g) ☐ Rule 481(d) ☐ Rule 1125(e)	☐ Rule 109(c) ☐ Rule 1125(c)(6)

Section II - Applicable Requirements, Test Methods, & MRR Requirements

EQUIPMENT/PROCESS	APPLICABLE REQUIREMENT	TEST METHOD	MRR REQUIREMENT
	☐ Rule 1132 (05/07/04) ☐ Rule 1171 (11/07/03) ☐ 40 CFR60 SUBPART TT ☐ 40 CFR60 SUBPART WW ☐ 40 CFR63 SUBPART SSSS	☐ Rule 1132(f) ☐ Rule 1171(f) See Applicable Subpart See Applicable Subpart See Applicable Subpart	☐ Rule 1132(g) ☐ Rule 1171(c)(6) See Applicable Subpart See Applicable Subpart See Applicable Subpart
☐ Coating Operation, Motor Vehicle & Mobile Equipment Non-Assembly Line Coating Operation	☐ Rule 109 (05/02/03) ☐ Rule 481 (01/11/02) ☐ Rule 1132 (05/07/04) ☐ Rule 1151 (12/11/98) ☐ Rule 1171 (11/07/03)	☐ Rule 109(g) ☐ Rule 481(d) ☐ Rule 1132(f) ☐ Rule 1151(g) ☐ Rule 1171(f)	☐ Rule 109(c) ☐ Rule 1132(g) ☐ Rule 1151(f) ☐ Rule 1171(c)(6)
☐ Coating Operation, Motor Vehicle Assembly Line	☐ Rule 109 (05/02/03) ☐ Rule 481 (01/11/02) ☐ Rule 1115 (05/12/95) ☐ Rule 1132 (05/07/04) ☐ Rule 1171 (11/07/03) ☐ 40 CFR60 SUBPART MM ☐ 40 CFR63 SUBPART IIII	☐ Rule 109(g) ☐ Rule 481(d) ☐ Rule 1115(e) ☐ Rule 1132(f) ☐ Rule 1171(f) See Applicable Subpart See Applicable Subpart	☐ Rule 109(c) ☐ Rule 1115(g) ☐ Rule 1132(g) ☐ Rule 1171(c)(6) See Applicable Subpart See Applicable Subpart
☐ Coating Operation, Paper, Fabric, & Film Coating Operations	☐ Rule 109 (05/02/03) ☐ Rule 481 (01/11/02) ☐ Rule 1128 (03/08/96) ☐ Rule 1132 (05/07/04) ☐ Rule 1171 (11/07/03) ☐ 40 CFR60 SUBPART VVV ☐ 40 CFR63 SUBPART OOOO	☐ Rule 109(g) ☐ Rule 481(d) ☐ Rule 1128(f) ☐ Rule 1132(f) ☐ Rule 1171(f) See Applicable Subpart See Applicable Subpart	☐ Rule 109(c) ☐ Rule 1128(e) ☐ Rule 1132(g) ☐ Rule 1171(c)(6) See Applicable Subpart See Applicable Subpart
☐ Coating Operation, Plastic, Rubber, & Glass	☐ Rule 109 (05/02/03) ☐ Rule 481 (01/11/02) ☐ Rule 1145 (12/03/04) ☐ Rule 1132 (05/07/04) ☐ Rule 1171 (11/07/03) ☐ 40 CFR60 SUBPART TTT ☐ 40 CFR63 SUBPART NNNN ☐ 40 CFR63 SUBPART PPPP	☐ Rule 109(g) ☐ Rule 481(d) ☐ Rule 1145(e) ☐ Rule 1132(f) ☐ Rule 1171(f) See Applicable Subpart See Applicable Subpart See Applicable Subpart	☐ Rule 109(c) ☐ Rule 1145(d) ☐ Rule 1132(g) ☐ Rule 1171(c)(6) See Applicable Subpart See Applicable Subpart See Applicable Subpart
☐ Coating Operation, Pleasure Craft	☐ Rule 109 (05/02/03) ☐ Rule 481 (01/11/02) ☐ Rule 1106.1 (02/12/99) ☐ Rule 1132 (05/07/04) ☐ Rule 1171 (11/07/03) ☐ 40 CFR63 SUBPART II	☐ Rule 109(g) ☐ Rule 481(d) ☐ Rule 1106.1(e) ☐ Rule 1132(f) ☐ Rule 1171(f) See Applicable Subpart	☐ Rule 109(c) ☐ Rule 1106.1(d) ☐ Rule 1132(g) ☐ Rule 1171(c)(6) See Applicable Subpart
☐ Coating Operation, Screen Printing	☐ Rule 109 (05/02/03) ☐ Rule 481 (01/11/02) ☐ Rule 1130.1 (12/13/96) ☐ Rule 1132 (05/07/04) ☐ Rule 1171 (11/07/03)	☐ Rule 109(g) ☐ Rule 481(d) ☐ Rule 1130.1(g) ☐ Rule 1132(f) ☐ Rule 1171(f)	☐ Rule 109(c) ☐ Rule 1130.1(c)(5) ☐ Rule 1132(g) ☐ Rule 1171(c)(6)

Section II - Applicable Requirements, Test Methods, & MRR Requirements

EQUIPMENT/PROCESS	APPLICABLE REQUIREMENT	TEST METHOD	MRR REQUIREMENT
	☐ 40 CFR63 SUBPART KK	See Applicable Subpart	See Applicable Subpart
☐ Coating Operation, Use Of Architectural Coating (Stationary Structures)	☐ Rule 109 (05/02/03) ☐ Rule 481 (01/11/02) ☐ Rule 1113 (07/09/04) ☐ Rule 1132 (05/07/04) ☐ Rule 1171 (11/07/03)	☐ Rule 109(g) ☐ Rule 481(d) ☐ Rule 1113(e) ☐ Rule 1132(f) ☐ Rule 1171(f)	☐ Rule 109(c) ☐ Rule 1132(g) ☐ Rule 1171(c)(6)
☐ Coating Operation, Wood Flat Stock	☐ Rule 109 (05/02/03) ☐ Rule 481 (01/11/02) ☐ Rule 1104 (08/13/99) ☐ Rule 1132 (05/07/04) ☐ Rule 1171 (11/07/03) ☐ 40 CFR63 SUBPART II	☐ Rule 109(g) ☐ Rule 481(d) ☐ Rule 1104(e) ☐ Rule 1132(f) ☐ Rule 1171(f) See Applicable Subpart	☐ Rule 109(c) ☐ Rule 1104(d) ☐ Rule 1132(g) ☐ Rule 1171(c)(6) See Applicable Subpart
☐ Coating Operation, Wood Products (Commercial Furniture, Cabinets, Shutters, Frames, Toys)	☐ Rule 109 (05/02/03) ☐ Rule 481 (01/11/02) ☐ Rule 1132 (05/07/04) ☐ Rule 1136 (06/14/96) ☐ Rule 1171 (11/07/03) ☐ 40 CFR63 SUBPART JJ	☐ Rule 109(g) ☐ Rule 481(d) ☐ Rule 1132(f) ☐ Rule 1136(f) ☐ Rule 1171(f) See Applicable Subpart	☐ Rule 109(c) ☐ Rule 1132(g) ☐ Rule 1136(d) & (g) ☐ Rule 1171(c)(6) See Applicable Subpart
☐ Coater	See Coating Operations		
☐ Columns	See Petroleum Refineries, Fugitive Emissions		
☐ Composting Operation	☐ Rule 1133 (01/10/03) ☐ Rule 1133.1 (01/10/03) ☐ Rule 1133.2 (01/10/03)	☐ Rule 1133.1(e) ☐ Rule 1133.2(g)	☐ Rule 1133.1(d) ☐ Rule 1133.2(h)
☐ Compressors	See Fugitive Emissions or Petroleum Refineries, Fugitive Emissions		
☐ Concrete Batch Plants	See Nonmetallic Mineral Processing Plants		
☐ Consumer Product Manufacturing	See Manufacturing, Consumer Product		
☐ Cooling Tower, Hexavalent Chromium	☐ 40 CFR63 SUBPART Q	See Applicable Subpart	See Applicable Subpart
☐ Copper Electroplating Operation	☐ Rule 1426 (05/02/03)		☐ Rule 1426(e)
☐ Crude Oil Production	See Oil Well Operations		
☐ Crusher	See Nonmetallic Mineral Processing Plants		
☐ Dairy Farms and Related Operations	☐ Rule 1127	☐ Rule 1127(h)	☐ Rule 1127(g)
☐ Degreasers	☐ Rule 109 (05/02/03) ☐ Rule 1122 (10/01/04) ☐ Rule 1171 (11/07/03) ☐ 40 CFR63 SUBPART T	☐ Rule 109(g) ☐ Rule 1122(h) ☐ Rule 1171(f) See Applicable Subpart	☐ Rule 109(c) ☐ Rule 1122(i) ☐ Rule 1171(c)(6) See Applicable Subpart
☐ Dry Cleaning, Perchloroethlyene	☐ Rule 1421 (12/06/02)	☐ Rule 1421(e) & (i)	☐ Rule 1421(g) & (h)
☐ Dry Cleaning, Petroleum Solvent	☐ Rule 109 (05/02/03) ☐ Rule 1102 (11/17/00) ☐ 40 CFR60 SUBPART JJJ	☐ Rule 109(g) ☐ Rule 1102(g) See Applicable Subpart	☐ Rule 109(c) ☐ Rule 1102(f) See Applicable Subpart
☐ Dryers, Mineral Industries	☐ 40 CFR60 SUBPART UUU	See Applicable Subpart	See Applicable Subpart
☐ Ethylene Oxide Sterilizer	See Sterilizer, Ethylene Oxide		
☐ Flanges	See Fugitive Emissions or Petroleum Refineries, Fugitive Emissions		

Section II - Applicable Requirements, Test Methods, & MRR Requirements

EQUIPMENT/PROCESS	APPLICABLE REQUIREMENT	TEST METHOD	MRR REQUIREMENT
☐ Fluid Catalytic Cracking Unit	☐ Rule 218 (05/14/99) ☐ Rule 1105 (09/01/84) ☐ Rule 1105.1 (11/07/03)	☐ AQMD TM 100.1 ☐ Rule 1105(c)(1) ☐ Rule 1105.1(f)	☐ Rule 218(e) & (f) ☐ Rule 1105(c)(2) ☐ Rule 1105.1(e)
☐ Foundries, Iron and Steel	☐ 40 CFR63 SUBPART EEEEE	See Applicable Subpart	See Applicable Subpart
☐ Friction Materials Manufacturing	See Manufacturing, Friction Materials		
☐ Fugitive Emissions, Benzene	☐ Rule 1173 (12/06/02) ☐ 40 CFR61 SUBPART L ☐ 40 CFR61 SUBPART V ☐ 40 CFR63 SUBPART R ☐ 40 CFR63 SUBPART CC	☐ Rule 1173(j) See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart	☐ Rule 1173(i) See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart
☐ Fugitive Emissions, Chemical Plant	☐ Rule 466 (10/07/83) ☐ Rule 466.1 (03/16/84) ☐ Rule 467 (03/05/82) ☐ Rule 1173 (12/06/02) ☐ 40 CFR60 SUBPART VV ☐ 40 CFR61 SUBPART V ☐ 40 CFR63 SUBPART F ☐ 40 CFR63 SUBPART G ☐ 40 CFR63 SUBPART H ☐ 40 CFR63 SUBPART I ☐ 40 CFR63 SUBPART R ☐ 40 CFR63 SUBPART CC	☐ Rule 466(f) ☐ Rule 466.1(g) ☐ Rule 467(f) ☐ Rule 1173(j) See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart	☐ Rule 466(e) ☐ Rule 466.1(h) ☐ Rule 467(e) ☐ Rule 1173(i) See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart
☐ Fugitive Emissions, Natural Gas Processing Plant	☐ Rule 466 (10/07/83) ☐ Rule 466.1 (03/16/84) ☐ Rule 467 (03/05/82) ☐ Rule (12/06/02) ☐ 40 CFR60 SUBPART KKK ☐ 40 CFR61 SUBPART V ☐ 40 CFR63 SUBPART F ☐ 40 CFR63 SUBPART G ☐ 40 CFR63 SUBPART H ☐ 40 CFR63 SUBPART I ☐ 40 CFR63 SUBPART R ☐ 40 CFR63 SUBPART CC	☐ Rule 466(f) ☐ Rule 466.1(g) ☐ Rule 467(f) ☐ Rule 1173(j) See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart	☐ Rule 466(e) ☐ Rule 466.1(h) ☐ Rule 467(e) ☐ Rule 1173(i) See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart
☐ Fugitive Emissions, Oil & Gas Production Facility	☐ Rule 466 (10/07/83) ☐ Rule 466.1 (03/16/84) ☐ Rule 467 (03/05/82) ☐ Rule 1173 (12/06/02) ☐ 40 CFR61 SUBPART V ☐ 40 CFR63 SUBPART F ☐ 40 CFR63 SUBPART G ☐ 40 CFR63 SUBPART H ☐ 40 CFR63 SUBPART I	☐ Rule 466(f) ☐ Rule 466.1(g) ☐ Rule 467(f) ☐ Rule 1173(j) See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart	☐ Rule 466(e) ☐ Rule 466.1(h) ☐ Rule 467(e) ☐ Rule 1173(i) See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart

Section II - Applicable Requirements, Test Methods, & MRR Requirements

EQUIPMENT/PROCESS	APPLICABLE REQUIREMENT	TEST METHOD	MRR REQUIREMENT
	☐ 40 CFR63 SUBPART R ☐ 40 CFR63 SUBPART CC	See Applicable Subpart See Applicable Subpart	See Applicable Subpart See Applicable Subpart
☐ Fugitive Emissions, Pipeline Transfer Station	☐ Rule 466 (10/07/83) ☐ Rule 466.1 (03/16/84) ☐ Rule 467 (03/05/82) ☐ Rule 1173 (12/06/02) ☐ 40 CFR61 SUBPART V ☐ 40 CFR63 SUBPART F ☐ 40 CFR63 SUBPART G ☐ 40 CFR63 SUBPART H ☐ 40 CFR63 SUBPART I ☐ 40 CFR63 SUBPART R ☐ 40 CFR63 SUBPART CC	☐ Rule 466(f) ☐ Rule 466.1(g) ☐ Rule 467(f) ☐ Rule 1173(j) See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart	☐ Rule 466(e) ☐ Rule 466.1(h) ☐ Rule 467(e) ☐ Rule 1173(i) See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart
☐ Furnace, Basic Oxygen Process	☐ 40 CFR60 SUBPART Na	See Applicable Subpart	See Applicable Subpart
☐ Furnace, Electric Arc, For Steel Plants Constructed After August 17, 1983	☐ 40 CFR60 SUBPART AAa	See Applicable Subpart	See Applicable Subpart
☐ Furnace, Electric Arc, For Steel Plants: Constructed After Oct. 21, 1974, & On Or Before Aug. 17, 1983	☐ 40 CFR60 SUBPART AA	See Applicable Subpart	See Applicable Subpart
☐ Furnace, Glass Melting	☐ Rule 1117 (01/06/84) ☐ 40 CFR60 SUBPART CC	☐ Rule 1117(c), AQMD TM 7.1 or 100.1 See Applicable Subpart	See Applicable Subpart
☐ Furnace, Lead Melting, Automotive Batteries	☐ Rule 1101 (10/07/77) ☐ 40 CFR63 SUBPART X	☐ AQMD TM 6.1 See Applicable Subpart	See Applicable Subpart
☐ Gasoline Transfer & Dispensing Operation	☐ Rule 461 (01/09/04)	☐ Rule 461(f)	☐ Rule 461(e)(6) & (e)(7)
☐ Glass Manufacturing	See Manufacturing, Glass		
☐ Grain Elevators	☐ 40 CFR60 SUBPART DD	See Applicable Subpart	See Applicable Subpart
☐ Halon-containing Equipment, Use for Technician Training, Testing, Maintenance, Service, Repair, or Disposal	☐ 40 CFR82 SUBPART H	See Applicable Subpart	See Applicable Subpart
☐ Heater, Asphalt Pavement	☐ Rule 1120 (08/04/78)	☐ AQMD Visible Emissions, AQMD TM 6.2	☐ Rule 1120(f)
☐ Heaters, Petroleum Refinery Process	☐ Rule 429 (12/21/90) ☐ Rule 431.1 (06/12/98) ☐ Rule 1146 (11/17/00) ☐ 40 CFR60 SUBPART J ☐ 40 CFR63 SUBPART DDDDD	N/A ☐ Rule 431.1(f) ☐ Rule 1146(d) See Applicable Subpart See Applicable Subpart	☐ Rule 429(d) ☐ Rule 431.1(d) & (e) ☐ Rule 1146(c)(6) & (c)(7) See Applicable Subpart See Applicable Subpart
☐ Heaters, Process	See Boilers		
☐ Incinerators	☐ 40 CFR60 SUBPART E	See Applicable Subpart	See Applicable Subpart
☐ Inorganic Arsenic Emissions, Arsenic Trioxide & Metallic Arsenic Production Facilities	☐ 40 CFR61 SUBPART P	See Applicable Subpart	See Applicable Subpart

Section II - Applicable Requirements, Test Methods, & MRR Requirements

EQUIPMENT/PROCESS	APPLICABLE REQUIREMENT	TEST METHOD	MRR REQUIREMENT
☐ Internal Combustion Engines, Reciprocating	☐ 40 CFR63 SUBPART ZZZZ	See Applicable Subpart	See Applicable Subpart
☐ Kiln, Cement Plant	☐ Rule 1112 (01/06/86) ☐ Rule 1112.1 (02/07/86) ☐ 40 CFR60 SUBPART F	N/A N/A See Applicable Subpart	N/A N/A See Applicable Subpart
☐ Landfills	☐ Rule 1150 (10/15/82) ☐ Rule 1150.1 (03/17/00) ☐ 40 CFR60 SUBPART WWW ☐ 40 CFR63 SUBPART AAAA	☐ Rule 1150.1(j) See Applicable Subpart See Applicable Subpart	☐ Rule 1150.1(e) & (f) See Applicable Subpart See Applicable Subpart
☐ Lead Acid Battery Manufacturing Plants	See Manufacturing, Lead Acid Battery		
☐ Lead Electroplating Operation	☐ Rule 1426 (05/02/03)		☐ Rule 1426(e)
☐ Manufacturing, Asphalt Processing & Asphalt Roofing	☐ Rule 470 (05/07/76) ☐ Rule 1108 (02/01/85) ☐ Rule 1108.1 (11/04/83) ☐ 40 CFR60 SUBPART UU ☐ 40 CFR63 SUBPART LLLLL	N/A ☐ Rule 1108(b) ☐ Rule 1108.1 (b) See Applicable Subpart See Applicable Subpart	See Applicable Subpart See Applicable Subpart
☐ Manufacturing, Brick & Structural Clay Products	☐ 40 CFR63 SUBPART JJJJJ	See Applicable Subpart	See Applicable Subpart
☐ Manufacturing, Clay Ceramics	☐ 40 CFR63 SUBPART KKKKK	See Applicable Subpart	See Applicable Subpart
☐ Manufacturing, Coatings & Ink (SIC Code 2851)	☐ Rule 1141.1 (11/17/00) ☐ 40 CFR63 SUBPART HHHHH	N/A See Applicable Subpart	☐ Rule 1141.1(c) See Applicable Subpart
☐ Manufacturing, Consumer Product	☐ Title 17 CCR 94500		
☐ Manufacturing, Food Product	☐ Rule 1131 (06/06/03)	☐ Rule 1131(e)	☐ Rule 1131(d)
☐ Manufacturing, Friction Materials	☐ 40 CFR63 SUBPART QQQQQ	See Applicable Subpart	See Applicable Subpart
☐ Manufacturing, Glass	☐ Rule 1117 (01/06/84) ☐ 40 CFR60 SUBPART CC ☐ 40 CFR61 SUBPART N	☐ Rule 1117(c), AQMD TM 7.1 or 100.1 See Applicable Subpart See Applicable Subpart	See Applicable Subpart See Applicable Subpart
☐ Manufacturing, Hydrochloric Acid	☐ 40 CFR63 SUBPART NNNNN	See Applicable Subpart	See Applicable Subpart
☐ Manufacturing, Lead-Acid Battery	☐ 40 CFR60 SUBPART KK	See Applicable Subpart	See Applicable Subpart
☐ Manufacturing, Lime	☐ 40 CFR63 SUBPART AAAAA	See Applicable Subpart	See Applicable Subpart
☐ Manufacturing, Magnetic Tape Industry	☐ 40 CFR60 SUBPART SSS ☐ 40 CFR63 SUBPART EE	See Applicable Subpart See Applicable Subpart	See Applicable Subpart See Applicable Subpart
☐ Manufacturing, Miscellaneous Organic Chemical	☐ 40 CFR63 SUBPART FFFF	See Applicable Subpart	See Applicable Subpart
☐ Manufacturing, Nitric Acid	☐ Rule 218 (05/14/99) ☐ Rule 1159 (12/06/85) ☐ 40 CFR60 SUBPART G	☐ AQMD TM 100.1 ☐ AQMD TM 7.1 or 100.1 See Applicable Subpart	☐ Rule 218(e) & (f) See Applicable Subpart
☐ Manufacturing, Plywood & Composite Wood Products	☐ Rule 1137 (02/01/02) ☐ 40 CFR63 SUBPART DDDD	N/A See Applicable Subpart	☐ Rule 1137(e) See Applicable Subpart
☐ Manufacturing, Polymer Industry	☐ 40 CFR60 SUBPART DDD ☐ 40 CFR63 SUBPART W ☐ 40 CFR63 SUBPART J	See Applicable Subpart See Applicable Subpart See Applicable Subpart	See Applicable Subpart See Applicable Subpart See Applicable Subpart

Section II - Applicable Requirements, Test Methods, & MRR Requirements

EQUIPMENT/PROCESS	APPLICABLE REQUIREMENT	TEST METHOD	MRR REQUIREMENT
☐ Manufacturing, Polymeric Cellular Foam	☐ Rule 1175 (05/13/94) ☐ 40 CFR63 SUBPART UUUU	☐ Rule 1175(f) See Applicable Subpart	☐ Rule 1175(e) See Applicable Subpart
☐ Manufacturing, Products Containing Halon Blends	☐ 40 CFR82 SUBPART H	See Applicable Subpart	See Applicable Subpart
☐ Manufacturing, Products Containing Organic Solvents	☐ Rule 443.1 (12/05/86)	N/A	N/A
☐ Manufacturing, Products Containing Ozone Depleting Substances (ODS)	☐ 40 CFR82 SUBPART A ☐ 40 CFR82 SUBPART E	See Applicable Subpart See Applicable Subpart	See Applicable Subpart See Applicable Subpart
☐ Manufacturing, Reinforced Plastic Composites	☐ 40 CFR63 SUBPART WWWW	See Applicable Subpart	See Applicable Subpart
☐ Manufacturing, Refractory Products	☐ 40 CFR63 SUBPART SSSSS	See Applicable Subpart	See Applicable Subpart
☐ Manufacturing, Resin	☐ Rule 1141 (11/17/00) ☐ 40 CFR63 SUBPART W	☐ Rule 1141(d) See Applicable Subpart	☐ Rule 1141(c) See Applicable Subpart
☐ Manufacturing, Rubber Tire	☐ 40 CFR63 SUBPART XXXX	See Applicable Subpart	See Applicable Subpart
☐ Manufacturing, Semiconductors	☐ Rule 109 (05/02/03) ☐ Rule 1164 (01/13/95) ☐ Rule 1171 (11/07/03) ☐ 40 CFR63 SUBPART BBBBB	☐ Rule 109(g) ☐ Rule 1164(e) ☐ Rule 1171(f) See Applicable Subpart	☐ Rule 109(c) ☐ Rule 1164(c)(5) ☐ Rule 1171(c)(6) See Applicable Subpart
☐ Manufacturing, Solvent	☐ Rule 443 (05/07/76)	N/A	N/A
☐ Manufacturing, Sulfuric Acid	☐ Rule 469 (02/13/81) ☐ 40 CFR60 SUBPART H ☐ 40 CFR60 SUBPART Cd	☐ AQMD TM 6.1 or 6.2 See Applicable Subpart See Applicable Subpart	See Applicable Subpart See Applicable Subpart
☐ Manufacturing, Surfactant	☐ Rule 1141.2 (01/11/02)	☐ AQMD TM 25.1	
☐ Manufacturing, Synthetic Organic Chemical Manufacturing Industry (SOCMI) Air Oxidation Unit Processes	☐ 40 CFR60 SUBPART III ☐ 40 CFR60 SUBPART NNN	See Applicable Subpart See Applicable Subpart	See Applicable Subpart See Applicable Subpart
☐ Manufacturing, Synthetic Organic Chemical Manufacturing Industry (SOCMI) Reactor Processes	☐ 40 CFR60 SUBPART RRR	See Applicable Subpart	See Applicable Subpart
☐ Manufacturing, Vinyl Chloride	☐ 40 CFR61 SUBPART F	See Applicable Subpart	See Applicable Subpart
☐ Manufacturing, Water Heaters	☐ Rule 1121 (09/03/04)	N/A	N/A
☐ Manufacturing, Wool Fiberglass Insulation	☐ 40 CFR60 SUBPART PPP	See Applicable Subpart	See Applicable Subpart
☐ Manure Processing Operations	☐ Rule 1127	☐ Rule 1127(h)	☐ Rule 1127(g)
☐ Marine Tank Vessel Operations	☐ Rule 1142 (07/19/91) ☐ 40 CFR63 SUBPART Y	☐ Rule 1142(e) See Applicable Subpart	☐ Rule 1142(h) See Applicable Subpart
☐ Mercury Emissions	☐ 40 CFR61 SUBPART E ☐ 40 CFR63 SUBPART IIII	See Applicable Subpart See Applicable Subpart	See Applicable Subpart See Applicable Subpart
☐ Motor Vehicle Air Conditioners with Ozone Depleting Substances (ODS): Repair, Service, Manufacturing, Maintenance, or Disposal	☐ 40 CFR82 SUBPART B ☐ 40 CFR82 SUBPART F	See Applicable Subpart See Applicable Subpart	See Applicable Subpart See Applicable Subpart
☐ Municipal Waste Combustors	☐ 40 CFR60 SUBPART Cb	See Applicable Subpart	See Applicable Subpart

Section II - Applicable Requirements, Test Methods, & MRR Requirements

EQUIPMENT/PROCESS	APPLICABLE REQUIREMENT	TEST METHOD	MRR REQUIREMENT
	☐ 40 CFR60 SUBPART Ea	See Applicable Subpart	See Applicable Subpart
	☐ 40 CFR60 SUBPART Eb	See Applicable Subpart	See Applicable Subpart
☐ Negative Air Machines/HEPA, Asbestos	☐ 40 CFR61 SUBPART M	See Applicable Subpart	See Applicable Subpart
☐ Nickel Electroplating Operation	☐ Rule 1426 (05/02/03)		☐ Rule 1426(e)
☐ Nonmetallic Mineral Processing Plants	☐ Rule 404 (02/07/86)	☐ AQMD TM 5.1, 5.2, or 5.3	
	☐ Rule 405 (02/07/86)	☐ AQMD TM 5.1, 5.2, or 5.3	
	☐ 40 CFR60 SUBPART OOO	See Applicable Subpart	See Applicable Subpart
☐ Off-site Waste and Recovery Operation	☐ 40 CFR63 SUBPART DD	See Applicable Subpart	See Applicable Subpart
☐ Oil and Gas Well Operation	☐ Rule 1148 (11/05/82)	☐ AQMD TM 25.1	
	☐ Rule 1148.1 (03/05/04)	☐ Rule 1148.1 (g)	☐ Rule 1148.1 (f)
☐ Onshore Natural Gas Processing, SO_2 Emissions	☐ 40 CFR60 SUBPART LLL	See Applicable Subpart	See Applicable Subpart
☐ Open Fires	☐ Rule 444 (12/21/01)		
☐ Open Storage, Petroleum Coke	☐ Rule 403 (04/02/04)	☐ Rule 403(d)(4)	☐ Rule 403(f)
	☐ Rule 403.1 (04/02/04)		☐ Rule 403.1(f)
	☐ Rule 1158 (06/11/99)	☐ Rule 1158(h)	☐ Rule 1158(j)
☐ Open Storage	☐ Rule 403 (04/02/04)	☐ Rule 403(d)(4)	☐ Rule 403(f)
	☐ Rule 403.1 (04/02/04)		☐ Rule 403.1(f)
☐ Outer Continental Shelf Platform	☐ Rule 1183 (03/12/93)	☐ 40 CFR55	☐ 40 CFR55
	☐ 40 CFR55	See Applicable Subpart	See Applicable Subpart
☐ Oven, Commercial Bakery	☐ Rule 1153 (01/13/95)	☐ Rule 1153(h)	☐ Rule 1153(g)
☐ Oven, Petroleum Coke	☐ Rule 477 (04/03/81)	☐ AQMD Visible Emissions, AQMD TM 5.1, 5.2, or 5.3	
	☐ 40 CFR63 SUBPART L	See Applicable Subpart	See Applicable Subpart
☐ Ozone Depleting Substances (ODS) or Alternative ODS, Use	☐ 40 CFR82 Subpart G	See Applicable Subpart	See Applicable Subpart
☐ Petroleum Refineries	☐ Rule 218 (05/14/99)	☐ AQMD TM 100.1	☐ Rule 218(e) & (f)
	☐ Rule 465 (08/13/99)		
	☐ Rule 468 (10/08/76)	☐ AQMD TM 6.1 or 6.2	
	☐ Rule 469 (02/13/81)	☐ AQMD TM 6.1 or 6.2	
	☐ Rule 1123 (12/07/90)	N/A	☐ Rule 1123(c)
	☐ Rule 1189 (01/21/00)	☐ Rule 1189(f)	☐ Rule 1189(e)
	☐ 40 CFR60 SUBPART J	See Applicable Subpart	See Applicable Subpart
	☐ 40 CFR63 SUBPART F	See Applicable Subpart	See Applicable Subpart
	☐ 40 CFR63 SUBPART G	See Applicable Subpart	See Applicable Subpart
	☐ 40 CFR63 SUBPART H	See Applicable Subpart	See Applicable Subpart
	☐ 40 CFR63 SUBPART I	See Applicable Subpart	See Applicable Subpart
	☐ 40 CFR63 SUBPART CC	See Applicable Subpart	See Applicable Subpart
	☐ 40 CFR63 SUBPART EEEE	See Applicable Subpart	See Applicable Subpart
	☐ 40 CFR63 SUBPART GGGGG	See Applicable Subpart	See Applicable Subpart
	☐ Title 13 CCR 2250		
☐ Petroleum Refineries, Fugitive Emissions	☐ Rule 1173 (12/06/02)	☐ Rule 1173(j)	☐ Rule 1173(i)

Section II - Applicable Requirements, Test Methods, & MRR Requirements

EQUIPMENT/PROCESS	APPLICABLE REQUIREMENT	TEST METHOD	MRR REQUIREMENT
	☐ Rule 466 (10/07/83)	☐ Rule 466(f)	☐ Rule 466(e)
	☐ Rule 466.1 (03/16/84)	☐ Rule 466.1(g)	☐ Rule 466.1(h)
	☐ Rule 467 (03/05/82)	☐ Rule 467(f)	☐ Rule 467(e)
	☐ 40 CFR60 SUBPART GGG	See Applicable Subpart	See Applicable Subpart
	☐ 40 CFR61 SUBPART V	See Applicable Subpart	See Applicable Subpart
	☐ 40 CFR63 SUBPART F	See Applicable Subpart	See Applicable Subpart
	☐ 40 CFR63 SUBPART G	See Applicable Subpart	See Applicable Subpart
	☐ 40 CFR63 SUBPART H	See Applicable Subpart	See Applicable Subpart
	☐ 40 CFR63 SUBPART I	See Applicable Subpart	See Applicable Subpart
	☐ 40 CFR63 SUBPART R	See Applicable Subpart	See Applicable Subpart
	☐ 40 CFR63 SUBPART CC	See Applicable Subpart	See Applicable Subpart
☐ Petroleum Refineries, Storage Tanks	☐ Rule 463 (05/06/05)	☐ Rule 463(g)	☐ Rule 463(e)(5)
	☐ Rule 1178 (12/11/01)	☐ Rule 1178(i)	☐ Rule 1178(f) & (h)
	☐ 40 CFR60 SUBPART K	See Applicable Subpart	See Applicable Subpart
	☐ 40 CFR60 SUBPART Ka	See Applicable Subpart	See Applicable Subpart
	☐ 40 CFR60 SUBPART Kb	See Applicable Subpart	See Applicable Subpart
	☐ 40 CFR63 SUBPART F	See Applicable Subpart	See Applicable Subpart
	☐ 40 CFR63 SUBPART G	See Applicable Subpart	See Applicable Subpart
	☐ 40 CFR63 SUBPART H	See Applicable Subpart	See Applicable Subpart
	☐ 40 CFR63 SUBPART I	See Applicable Subpart	See Applicable Subpart
	☐ 40 CFR63 SUBPART R	See Applicable Subpart	See Applicable Subpart
	☐ 40 CFR63 SUBPART CC	See Applicable Subpart	See Applicable Subpart
	☐ 40 CFR63 SUBPART EEEE	See Applicable Subpart	See Applicable Subpart
☐ Petroleum Refineries, Wastewater Systems	☐ Rule 1176 (09/13/96)	☐ Rule 1176(h)	☐ Rule 1176(f) & (g)
	☐ Rule 464 (12/07/90)	N/A	
	☐ 40 CFR60 SUBPART QQQ	See Applicable Subpart	See Applicable Subpart
	☐ 40 CFR63 SUBPART CC	See Applicable Subpart	See Applicable Subpart
☐ Pharmaceuticals & Cosmetics Manufacturing	☐ Rule 1103 (03/12/99)	☐ Rule 1103(f)	☐ Rule 1103(e)
☐ Polyester Resin Operation	☐ Rule 109 (05/02/03)	☐ Rule 109(g)	☐ Rule 109(c)
	☐ Rule 1162 (07/09/04)	☐ Rule 1162(f)	☐ Rule 1162(e)
	☐ Rule 1171 (11/07/03)	☐ Rule 1171(f)	☐ Rule 1171(c)(6)
☐ Primary Magnesium Refining	☐ 40 CFR63 SUBPART TTTTT	See Applicable Subpart	See Applicable Subpart
☐ Printing Press	See Coating Operations		
☐ Publicly Owned Treatment Works Operations	☐ Rule 1179 (03/06/92)	☐ Rule 1179(e)	☐ Rule 1179(c) & (d)
	☐ 40 CFR60 SUBPART O	See Applicable Subpart	See Applicable Subpart
☐ Pumps	See Fugitive Emissions or Petroleum Refineries, Fugitive Emissions		
☐ Recycling & Recovery Equipment for Ozone Depleting Substances (ODS),	☐ 40 CFR82 SUBPART F	See Applicable Subpart	See Applicable Subpart
☐ Refrigerant Reclaimers for Ozone Depleting Substances (ODS)	☐ 40 CFR82 SUBPART F	See Applicable Subpart	See Applicable Subpart
☐ Rendering Plant	☐ Rule 472 (05/07/76)	N/A	☐ Rule 472(b)
☐ Rock Crushing	See Nonmetallic Mineral Processing Plants		

Section II - Applicable Requirements, Test Methods, & MRR Requirements

EQUIPMENT/PROCESS	APPLICABLE REQUIREMENT	TEST METHOD	MRR REQUIREMENT
☐ Semiconductor Manufacturing	See Manufacturing, Semiconductors		
☐ Sewage Treatment Plants	See Publicly Owned Treatment Works Operation		
☐ Site Remediation	☐ 40 CFR63 SUBPART GGGGG	See Applicable Subpart	See Applicable Subpart
☐ Smelting, Primary Copper	☐ 40 CFR63 SUBPART QQQ	See Applicable Subpart	See Applicable Subpart
☐ Smelting, Secondary Lead	☐ 40 CFR60 SUBPART L ☐ 40 CFR63 SUBPART X	See Applicable Subpart See Applicable Subpart	See Applicable Subpart See Applicable Subpart
☐ Soil Decontamination	☐ Rule 1166 (05/11/01) ☐ 40 CFR63 SUBPART GGGGG	☐ Rule 1166(e) See Applicable Subpart	☐ Rule 1166(c)(1)(C) See Applicable Subpart
☐ Spray Booth	See Coating Operations		
☐ Sterilizer, Ethylene Oxide	☐ 40 CFR63 SUBPART O	See Applicable Subpart	See Applicable Subpart
☐ Storage Tank, Degassing Operation	☐ Rule 1149 (07/14/95) ☐ 40 CFR63 SUBPART CC	See Applicable Subpart	See Applicable Subpart
☐ Storage Tank, Greater Than 19,815 Gallon Capacity	☐ Rule 463 (05/06/05) ☐ 40 CFR63 SUBPART F ☐ 40 CFR63 SUBPART G ☐ 40 CFR63 SUBPART H ☐ 40 CFR63 SUBPART I ☐ 40 CFR60 SUBPART K ☐ 40 CFR60 SUBPART Ka ☐ 40 CFR60 SUBPART Kb ☐ 40 CFR63 SUBPART R ☐ 40 CFR63 SUBPART CC	☐ Rule 463(g) See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart	☐ Rule 463(e)(5) See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart
☐ Synthetic Fiber Production Facilities	☐ 40 CFR60 SUBPART HHH	See Applicable Subpart	See Applicable Subpart
☐ Taconite Iron Ore Processing Facilities	☐ 40 CFR63 SUBPART RRRRR	See Applicable Subpart	See Applicable Subpart
☒ Turbine, Stationary Gas-Fired	☐ Rule 1134 (08/08/97) ☐ Rule 475 (08/07/78) ☐ 40 CFR60 SUBPART GG ☐ 40 CFR63 SUBPART YYYY	☐ CEMS Rule 1134(e) & (g) ☐ AQMD TM 5.1, 5.2, or 5.3 See Applicable Subpart See Applicable Subpart	☐ Rule 1134(d) & (f) See Applicable Subpart See Applicable Subpart
☐ Turbine, Stationary Oil-Fired	☐ 40 CFR63 SUBPART YYYY	See Applicable Subpart	See Applicable Subpart
☐ Valves	See Fugitive Emissions or Petroleum Refineries, Fugitive Emissions		
☐ Vessel, Refinery Process	☐ Rule 1123 (12/07/90)	N/A	☐ Rule 1123(c)
☐ Vessels	See Petroleum Refineries, Fugitive Emissions		
☐ Wastewater, Chemical Plant	☐ Rule 464 (12/07/90) ☐ Rule 1176 (09/13/96) ☐ 40 CFR63 SUBPART F ☐ 40 CFR63 SUBPART G ☐ 40 CFR63 SUBPART H ☐ 40 CFR63 SUBPART I ☐ 40 CFR63 SUBPART CC	N/A ☐ Rule 1176(h) See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart	☐ Rule 1176(f) & (g) See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart See Applicable Subpart
☐ Wastewater Treatment, Other	☐ Rule 464 (12/07/90) ☐ Rule 1176 (09/13/96)	N/A ☐ Rule 1176(h)	☐ Rule 1176(f) & (g)
☐ Woodworking Operations	☐ Rule 1137 (02/01/02)	N/A	☐ Rule 1137(e)

Section III – Supplemental Identification of Specific Requirements

Complete this section only if there is a specific requirement (i.e., rule reference, test method, or MRR requirement) that is:

1. Listed for a specific type of equipment or process in Section II of this form & **DOES NOT** pertain to a specific device at your facility*; OR,
2. Is **NOT** Listed for a specific type of equipment or process in Section II of this form but it **IS** applicable to a specific device at your facility.

NOTES:

1. For any specific requirement, test method, or MRR requirement that is identified as "Remove," attach additional sheets to explain the reasons why the specific requirement does not pertain to the device listed.
2. All boxes that are checked in Section II and any additional requirements identified in this section as "Add" will be used to determine the facility's compliance status. This information will be used to verify the certification statements made on Form 500-A2.
3. Do not use this section to identify equipment that is exempt from specific rule requirements. Your equipment is automatically considered to be in compliance with the rule that specifically exempts the equipment from those requirements.
4. Listing any requirement that does not apply to a specific piece of equipment in this section will not provide the facility with a permit shield unless one is specifically requested by completing Form 500-D and approved by the AQMD.

* If this section is completed as part of the initial Title V application & there is no device number assigned, refer to the existing permit or application number in this column.

Device No.*	Specific Requirement (Rule Number & Date)	Add (A) or Remove (R) (Check one)	Test Method	Add (A) or Remove (R) (Check one)	MRR Requirement	Add (A) or Remove (R) (Check one)
		☐A ☐R		☐A ☐R		☐A ☐R
		☐A ☐R		☐A ☐R		☐A ☐R
		☐A ☐R		☐A ☐R		☐A ☐R
		☐A ☐R		☐A ☐R		☐A ☐R
		☐A ☐R		☐A ☐R		☐A ☐R
		☐A ☐R		☐A ☐R		☐A ☐R
		☐A ☐R		☐A ☐R		☐A ☐R
		☐A ☐R		☐A ☐R		☐A ☐R
		☐A ☐R		☐A ☐R		☐A ☐R
		☐A ☐R		☐A ☐R		☐A ☐R
		☐A ☐R		☐A ☐R		☐A ☐R
		☐A ☐R		☐A ☐R		☐A ☐R
		☐A ☐R		☐A ☐R		☐A ☐R
		☐A ☐R		☐A ☐R		☐A ☐R
		☐A ☐R		☐A ☐R		☐A ☐R
		☐A ☐R		☐A ☐R		☐A ☐R
		☐A ☐R		☐A ☐R		☐A ☐R
		☐A ☐R		☐A ☐R		☐A ☐R
		☐A ☐R		☐A ☐R		☐A ☐R
		☐A ☐R		☐A ☐R		☐A ☐R
		☐A ☐R		☐A ☐R		☐A ☐R

Section IV – SIP-Approved Rules That Are Not The Most Current AQMD Rules

Check off each SIP-Approved Rule as it applies to the facility. Use the blanks at the end of this form to fill-in new items.

SIP-Approved Rule	Adoption/ Amendment Date	Check (✓) if Applies	SIP-Approved Rule	Adoption/ Amendment Date	Check (✓) if Applies
218	08/07/81	☐	1146.2	01/09/98	☐
401	03/02/84	☐	1162	11/17/00	☐
403	12/11/98	☐	1166	07/14/95	☐
403.1	01/15/93	☐	1168	10/03/03	☐
431.2	05/04/90	☐	1171	11/07/03	☐
463	03/11/94	☐	1173	05/13/94	☐
466.1	05/02/80	☐	1186	09/10/99	☐
469	05/07/76	☐	2000	05/11/01	☐
475	10/08/76	☐	2001	05/11/01	☐
1112	01/06/84	☐	2002	05/11/01	☐
1113	11/08/96	☐	2005	04/20/01	☐
1121	12/10/99	☐	2007	12/05/03	☐
1122	07/11/97	☐	2010	05/11/01	☐
1132	03/05/04	☐	2011	12/05/03	☐
1140	02/01/80	☐	2012	12/05/03	☐
1145	02/14/97	☐			☐
		☐			☐
		☐			☐
		☐			☐
		☐			☐
		☐			☐

Section V – AQMD Rules That Are Not SIP-Approved (Continued on Following Page)

Check off each AQMD Rule as it applies to the facility. Use the blanks at the end of this form to fill-in new items.

Non SIP-Approved Rule	Adoption/ Amendment Date	Check (✓) if Applies	Non SIP-Approved Rule	Adoption/ Amendment Date	Check (✓) if Applies
53 Los Angeles Co.	N/A	☐	1170	05/06/88	☐
53 Orange Co.	N/A	☐	1183	03/12/93	☐
53 Riverside Co.	N/A	☐	1186.1	06/04/04	☐
53 San Bernardino Co.	N/A	☐	1191	06/16/00	☐
53A San Bernardino Co.	N/A	☐	1192	06/16/00	☐
218.1	05/14/99	☐	1193	06/06/03	☐
402	05/07/76	☐	1194	10/20/00	☐
429	12/21/90	☐	1195	04/20/01	☐
430	07/12/96	☐	1196	06/04/04	☐
441	05/07/76	☐	1401	03/04/05	☐
473	05/07/76	☐	1402	03/04/05	☐
477	04/03/81	☐	1403	04/08/94	☐
480	10/07/77	☐	1404	04/06/90	☐
1105.1	11/07/03	☐	1405	01/04/91	☐
1109	08/05/88	☐	1406	07/08/94	☐
1110.1	10/04/85	☐	1407	07/08/94	☐
1110.2	11/14/97	☐	1411	03/01/91	☐
1116.1	10/20/78	☐	1414	05/03/91	☐
1118	02/13/98	☐	1415	10/14/94	☐
1127	08/06/04	☐	1418	09/10/99	☐
1148.1	03/05/04	☐	1420	09/11/92	☐
1150	10/15/82	☐	1421	12/06/02	☐
1157	01/07/05	☐	1425	03/16/01	☐
1163	06/07/85	☐	1426	05/02/03	☐

Section V – AQMD Rules That Are Not SIP Approved (Continued on Following Page)					
1469	05/02/03	☐	2009.1	05/11/01	☐
1469.1	03/04/05	☐	2020	05/11/01	☐
1470	03/04/05	☐	2501	05/09/97	☐
2009	01/07/05	☐	2506	12/10/99	☐
		☐			☐
		☐			☐
		☐			☐
		☐			☐
		☐			☐
		☐			☐