



Santa Barbara County  
Air Pollution Control District

Our Vision  Clean Air

MAR 08 2019

Mr. Doug Pedersen  
Rogers & Pedersen Construction, Inc.  
PO Box 951  
San Luis Obispo, CA 93406

FID: 11664  
Permit: AP 15344  
SSID: 11415

Re: Authority to Construct/Permit to Operate Application 15344

Dear Mr. Pedersen:

We have sent you this letter as the authorized agent acting on behalf of the owner/operator. On March 7, 2019, the Santa Barbara County Air Pollution Control District (District) determined that your application for Authority to Construct/Permit to Operate (ATC/PTO) No. 15344 for an emergency standby diesel engine at 1201 West Chestnut Avenue in Lompoc was complete. The District will make a decision to either issue or deny a permit for the application within 180 days from the completeness date.

Please be advised that proceeding with the construction of your project without an ATC/PTO permit violates District Rule 201 and may result in penalties.

Please include the Facility Identification (FID) and Permit numbers shown above on all correspondence regarding this permit application. If you have any questions, please call me at (805) 961-8877.

Sincerely,

Charlotte Mountain, Air Quality Engineer II  
Engineering Division

cc: Central Coast Agriculture 11664 Project File  
Mr. Thomas Martin  
Engr Chron File

\\sbcapcd.org\shares\Groups\ENGR\WP\IC Engines\ATC-PTO\AP 15344\ATC-PTO 15344 - ATC Completeness - 3-7-2019



Print Form

## General Permit Application Form -01

Santa Barbara County Air Pollution Control District  
 260 N. San Antonio Road, Suite A  
 Santa Barbara, CA 93110-1315

**1. APPLICATION TYPE** (check all that apply):

- Authority to Construct (ATC)
- Permit to Operate (PTO)
- ATC Modification
- PTO Modification
- Other (Specify) \_\_\_\_\_
- Transfer of Owner/Operator (use Form -01T)
- Emission Reduction Credits
- Increase in Production Rate or Throughput
- Decrease in Production Rate or Throughput

Previous ATC/PTO Number (if known) \_\_\_\_\_

Yes  No Are Title 5 Minor Modification Forms Attached? (this applies to Title 5 sources only and applies to all application types except ATCs and Emission Reduction Credits). Complete Title 5 Form -1302 A1/A2, B, and M. Complete Title 5 Form -1302 C1/C2, D1/D2, E1/E2, F1/F2, G1/G2 as appropriate. <http://www.ourair.org/wp-content/uploads/t5-forms.pdf>

Mail the completed application to the APCD's Engineering Division at the address listed above.

**2. FILING FEE:**

A \$406 application filing fee must be included with each application. The application filing fee is COLA-adjusted every July 1st. Please ensure you are remitting the correct current fee (the current fee schedule is available on the APCD's webpage at: <http://www.ourair.org/district-fees>). This filing fee will not be refunded or applied to any subsequent application. Payment may also be made by credit card by using the Credit Card Authorization Form at the end of this application.

**3. IS YOUR PROJECT'S PROPERTY BOUNDARY LOCATED OR PROPOSED TO BE LOCATED WITHIN 1,000 FEET FROM THE OUTER BOUNDARY OF A SCHOOL?** If yes, and the project results in an emissions increase, submit a completed Form -03 (*School Summary Form*) <http://www.ourair.org/wp-content/uploads/apcd-03.pdf>  Yes  No

If yes, provide the name of school(s) \_\_\_\_\_

Address of school(s) \_\_\_\_\_

City \_\_\_\_\_ Zip Code \_\_\_\_\_

**4. DOES YOUR APPLICATION CONTAIN CONFIDENTIAL INFORMATION?**  Yes  No

If yes, please submit with a redacted duplicate application which shall be a public document. In order to be protected from disclosure to the public, all information claimed as confidential shall be submitted in accordance with APCD Policy & Procedure 6100-020 (*Handling of Confidential Information*): <http://www.ourair.org/wp-content/uploads/6100-020.pdf>, and meet the criteria of CA Govt Code Sec 6254.7. Failure to follow required procedures for submitting confidential information, or to declare it as confidential at the time of application, shall be deemed a waiver by the applicant of the right to protect such information from public disclosure. *Note: Part 70 permit applications may contain confidential information in accordance with the above procedures, however, the content of the permit documents must be public (no redactions).*

FOR APCD USE ONLY				DATE STAMP
FID	11664	Permit No.	AIP 15344	RECEIVED MAR 01 SBCAPCD
Project Name	Central Coast Agriculture			
Filing Fee	\$ 406	202.E? YES / NO		

CC# 0206 Doug Pedersen



**ROGERS &  
PEDERSEN**  
CONSTRUCTION, INC.

**DOUG PEDERSEN**

M (805) 354-3325  
D (805) 354-5400  
DOUG@RP-CONSTRUCTION.COM  
WWW.RP-CONSTRUCTION.COM  
CA LICENSE #985518



**5. COMPANY/CONTACT INFORMATION:**

<b>Owner Info</b>		<input checked="" type="radio"/> Yes <input type="radio"/> No	Use as Billing Contact?
Company Name	Central Coast Agriculture		
Doing Business As			
Contact Name	Thomas Martin	Position/Title	COO
Mailing Address	85 West Highway 246, #233		
City	Buellton	State	CA Zip Code 93427
Telephone	(805) 291-2104	Cell	
		Email	

<b>Operator Info</b>		<input type="radio"/> Yes <input checked="" type="radio"/> No	Use as Billing Contact?
Company Name	Central Coast Agriculture		
Doing Business As			
Contact Name	Thomas Martin	Position/Title	COO
Mailing Address	85 West Highway 246, #233		
City	Buellton	State	CA Zip Code 93427
Telephone	(805) 291-2104	Cell	
		Email	

<b>Authorized Agent Info*</b>		<input type="radio"/> Yes <input checked="" type="radio"/> No	Use as Billing Contact?
Company Name	Rogers & Pedersen Construction, Inc.		
Doing Business As			
Contact Name	Doug Pedersen	Position/Title	President
Mailing Address	P.O. Box 951		
City	San Luis Obispo	State	CA Zip Code 93406
Telephone	(805) 354-5400	Cell	
		Email	doug@rp-construction.com

\*Use this section if the application is not submitted by the owner/operator. Complete APCD Form -01A ( <http://www.ourair.org/wp-content/uploads/apcd-01a.pdf> ). Owner/Operator information above is still required.

<b>SEND PERMITTING CORRESPONDENCE TO (check all that apply):</b>			
<input checked="" type="checkbox"/> Owner	<input type="checkbox"/> Operator		
<input checked="" type="checkbox"/> Authorized Agent	<input type="checkbox"/> Other (attach mailing information)		

**6. GENERAL NATURE OF BUSINESS OR AGENCY:**

Manufacturing
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**7. EQUIPMENT LOCATION (Address):**

Specify the street address of the proposed or actual equipment location. If the location does not have a designated address, please specify the location by cross streets, or lease name, UTM coordinates, or township, range, and section.

Equipment Address	1201 W. Chestnut Ave.				
City	Lompoc	State	CA	Zip Code	93436
Work Site Phone					

Incorporated (within city limits)    Unincorporated (outside city limits)    Used at Various Locations

Assessors Parcel No(s):

**8. PROJECT DESCRIPTION:**

(Describe the equipment to be constructed, modified and/or operated or the desired change in the existing permit. Attach a separate page if needed):

(1) New Caterpillar Model C13 Diesel Standby generator set, EPA Certified Tier 3, UL 2200 Listed & IBC Certified Generator Set - Rated at 350 kW
--

**9. DO YOU REQUIRE A LAND USE PERMIT OR OTHER LEAD AGENCY PERMIT FOR THE PROJECT DESCRIBED IN THIS APPLICATION?:**    Yes    No

A. If yes, please provide the following information

Agency Name	Permit #	Phone #	Permit Date
City of Lompoc	B2018-0291	(805) 875-8231	Feb 25, 2019

\* The lead agency is the public agency that has the principal discretionary authority to approve a project. The lead agency is responsible for determining whether the project will have a significant effect on the environment and determines what environmental review and environmental document will be necessary. The lead agency will normally be a city or county planning agency or similar, rather than the Air Pollution Control District.

B. If yes, has the lead agency permit application been deemed complete and is a copy of their completeness letter attached?

Yes    No

Please note that the APCD will not deem your application complete until the lead agency application is deemed complete.

C. If the lead agency permit application has not been deemed complete, please explain.

--

D. A copy of the final lead agency permit or other discretionary approval by the lead agency may be requested by the APCD as part of our completeness review process.

**10. PROJECT STATUS:**

A. Date of Equipment Installation

TBD

B. Have you been issued a Notice of Violation (NOV) for not obtaining a permit for this equipment/modification *and/or* have you installed this equipment without the required APCD permit(s)? If yes, the application filing is double per Rule 210.  Yes  No

C. Is this application being submitted due to the loss of a Rule 202 exemption?  Yes  No


D. Will this project be constructed in multiple phases? If yes, attach a separate description of the nature and extent of each project phase, including the associated timing, equipment and emissions.  Yes  No

E. Is this application also for a change of owner/operator? If yes, please also include a completed APCD Form -01T.  Yes  No

**11. APPLICANT/PREPARER STATEMENT:**

The person who prepares the application also must sign the permit application. The preparer may be an employee of the owner/operator or an authorized agent (contractor/consultant) working on behalf of the owner/operator (an *Authorized Agent Form -01A* is required).

I certify pursuant to H&SC Section 42303.5 that all information contained herein and information submitted with this application is true and correct.

  
Signature of application preparer

Feb 27, 2019  
Date

Doug Pedersen  
Print name of application preparer

Rogers & Pedersen Construction, Inc.  
Employer name

**12. APPLICATION CHECKLIST** (*check all that apply*)

- Application Filing Fee (Fee = \$406. The application filing fee is COLA adjusted every July 1st. Please ensure you are remitting the current fee.) As a convenience to applicants, the APCD will accept credit card payments. If you wish to use this payment option, please complete the attached *Credit Card Authorization Form* and submit it with your application.
- Existing permitted sources may request that the filing fee be deducted from their current reimbursable deposits by checking this box. Please deduct the filing fee from my existing reimbursement account.
- Form -01T (*Transfer of Owner/Operator*) attached if this application also addresses a change in owner and/or operator status from what is listed on the current permit. <http://www.ourair.org/wp-content/uploads/apcd-01t.pdf>
- Form -03 (*School Summary Form*) attached if the project's property boundary is within 1,000 feet of the outer boundary of a school (k-12) and the project results in an emissions increase. <http://www.ourair.org/wp-content/uploads/apcd-03.pdf>
- Information required by the APCD for processing the application as identified in APCD Rule 204 (*Applications*), the APCD's *General APCD Information Requirements List* (<http://www.sbcapcd.org/eng/dl/other/gen-info.pdf>), and any of the APCD's Process/Equipment Summary Forms (<http://www.ourair.org/permit-applications>) that apply to the project.
- Form -01A (*Authorized Agent Form*) attached if this application was prepared by and/or if correspondence is requested to be sent to an Authorized Agent (e.g., contractor or consultant). This form must accompany each application. <http://www.ourair.org/wp-content/uploads/apcd-01a.pdf>
- Confidential Information submitted according to APCD Policy & Procedure 6100-020. (*Failure to follow Policy and Procedure 6100-020 is a waiver of right to claim information as confidential.*)

**13. NOTICE OF CERTIFICATION:**

All applicants must complete the following Notice of Certification. This certification must be signed by the Authorized Company Representative representing the owner/operator. Signatures by Authorized Agents will not be accepted.

**NOTICE of CERTIFICATION**

I, Thomas Martin, am employed by or represent  
Type or Print Name of Authorized Company Representative

Central Coast Agriculture  
Type or Print Name of Business, Corporation, Company, Individual, or Agency


(hereinafter referred to as the applicant), and certify pursuant to H&SC Section 42303.5 that all information contained herein and information submitted with this application is true and correct and the equipment listed herein complies or can be expected to comply with said rules and regulations when operated in the manner and under the circumstances proposed. If the project fees are required to be funded by the cost reimbursement basis, as the responsible person, I agree that I will pay the Santa Barbara County Air Pollution Control District the actual recorded cost, plus administrative cost, incurred by the APCD in the processing of the application within 30 days of the billing date. If I withdraw my application, I further understand that I shall inform the APCD in writing and I will be charged for all costs incurred through closure of the APCD files on the project.

For applications submitted for Authority to Construct, modifications to existing Authority to Construct, and Authority to Construct/Permit to Operate permits, I hereby certify that all major stationary sources in the state and all stationary sources in the air basin which are owned or operated by the applicant, or by an entity controlling, controlled by, or under common control with the applicant, are in compliance, or are on approved schedule for compliance with all applicable emission limitations and standards under the Clean Air Act (42 USC 7401 *et seq.*) and all applicable emission limitations and standards which are part of the State Implementation Plan approved by the Environmental Protection Agency.

Completed By: Thomas Martin Title: COO

Date: Feb 22, 2019 Phone: (805) 291-2104

Signature of Authorized Company Representative

  
DocuSigned by:  
5E5EE832348F4F3...

**PLEASE NOTE THAT FAILURE TO COMPLETELY PROVIDE ALL REQUIRED INFORMATION OR FEES WILL RESULT IN YOUR APPLICATION BEING RETURNED OR DEEMED INCOMPLETE.**



# LOMPOC BUILDING DIVISION PERMIT

## 24 HOUR INSPECTION REQUEST LINE 875-8231

PLEASE CALL 24 HR IN ADVANCE FOR REQUESTED BUILDING INSPECTIONS

DATE	LOT	LOM	APN#	PERMIT#
02/25/2019			091-040-061	B2018-0291
JOB ADDRESS				
1201 W CHESTNUT AVE				
NATURE OF WORK				
EXTRACTION FACILITY COMMERCIAL TENANT IMPROVEMENT				
OWNER'S NAME		ADDRESS		PHONE
HAZEN FAMILY TRUST A 1/20/06		PO BOX 291, LOMPOC, CA 93438		
CONTRACTOR'S NAME		ADDRESS		LIC#
ROGERS & PEDERSEN CONSTRUCTION IN		P.O. BOX 951, SAN LUIS OBISPO, CA 93401		985518
APPLICANT'S NAME		ADDRESS		
REESE & ASSOCIATES		1225 WOODMERE RD, SANTA MARIA, CA 93455		
SPECIAL CONDITIONS				

OCC. LOAD	CONST TYPE	BUILDING SQ FT EXIST	LOT SIZE	CITY TREASURER SIGNATURE
		0	0	
OCC GROUP	ADDED SQ FT	BUILDING SQ FT NEW	USE ZONE	JOB VALUE
	0	0		\$ 450,000.00

### FEES

BLDG PC FEE	\$1,919.94	FLAMMABLE AND COMBUSTIBLE LIQUIDS	\$368.00
Building Permit Fee	\$2,953.75	FLAMMABLE LIQUID STORAGE/HANDLING I	\$159.40
COMPRESSED GASES	\$414.00	LPG TANK INSTALL/REMOVAL	\$296.20
ELECTRICAL FEES	\$738.75	MECHANICAL PERMIT FEES	\$250.80
ELECTRICAL PLAN CHECK FEE	\$184.69	MECHANICAL PLAN CHECK FEE	\$62.70
FIRE PLAN CHECK	\$590.75	PERMIT FEES AND ANUAL INSPECTIONS	\$138.00

PC AMOUNT PAID: \$1,919.94	TOTAL FEES DUE: \$8,017.70	TOTAL FEES PAID: \$2,510.69	TOTAL FEES ASSESSED: \$10,528.39
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#### LICENSED CONTRACTORS DECLARATION

I hereby affirm under penalty of perjury that I am licensed under the provisions of Chapter 9 (Commencing with sec. 7000) of Division 3 of the Business & Professions Code, and my license is in full force and effect.

License Class B-GENERAL License # 285518 Date \_\_\_\_\_

**DIVISION OF INDUSTRIAL SAFETY PERMITS CERTIFICATION.** The California Health and Safety Code Requires a Division of Industrial Safety Permit as a prerequisite to permit issuance unless the applicant signs one of the certificates below.

I certify that no excavation 5 feet or more feet in depth, into which a person is required to descend will be made in connection with work authorized by this permit, and that no building, structure, scaffolding, false work, or demolition or dismantling thereof will be more than 30 feet high.

As owner/builder I will not employ anyone to do work which would require a permit from the Division of Industrial Safety, as noted above unless such person has a permit from that division.  
Department of Industrial Relations Phone # (80) 654-4581, 1655 MESA Verde, Suite 150, Ca 93003.

**HAZARDOUS MATERIALS QUESTIONNAIRE.** Health and Safety Code Section 19827.5 and Assembly Bill 3205 requires that the permit applicant provide certain information to the Building Division before a permit is issued.

I. **DEMOLITION PERMITS:** Before a demolition permit is issued for any building or structure, a copy of asbestos notification by the local environment protection agency must be received by the Building Division.

I declare that the notification is not required nor applicable to the project or the work to be performed.

II. A permit issued by the local air quality district may be required with certain types of occupancies, if the applicant has any of the following conditions:

- Does your facility use any internal combustion engines greater than 50-HP?
- Does your facility involve mixing, blending, or processing any solvents, adhesives, paints, or coatings?
- Does your facility refine any liquids or solids?
- Does your facility have any combustion equipment rated greater than 2,000,000 BTU/hr?

#### WORKERS' COMPENSATION DECLARATION

I hereby affirm under perjury one of the following declarations:

I have and will maintain a workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:  
Carrier: STATE COMPENSATION INSURANCE FUND  
Policy No.: 9099815

I have and will maintain a certificate of consent to self-insure for workers' compensation, as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Signature \_\_\_\_\_ Date \_\_\_\_\_

**Warning:** Failure to secure workers' compensation coverage is unlawful, and shall subject an employer to criminal penalties and civil fines up to one hundred thousand dollars (\$100,000), in addition to the cost of compensation, damages as provided for in Section 3706 of the Labor Code, interest, and attorney's fees.

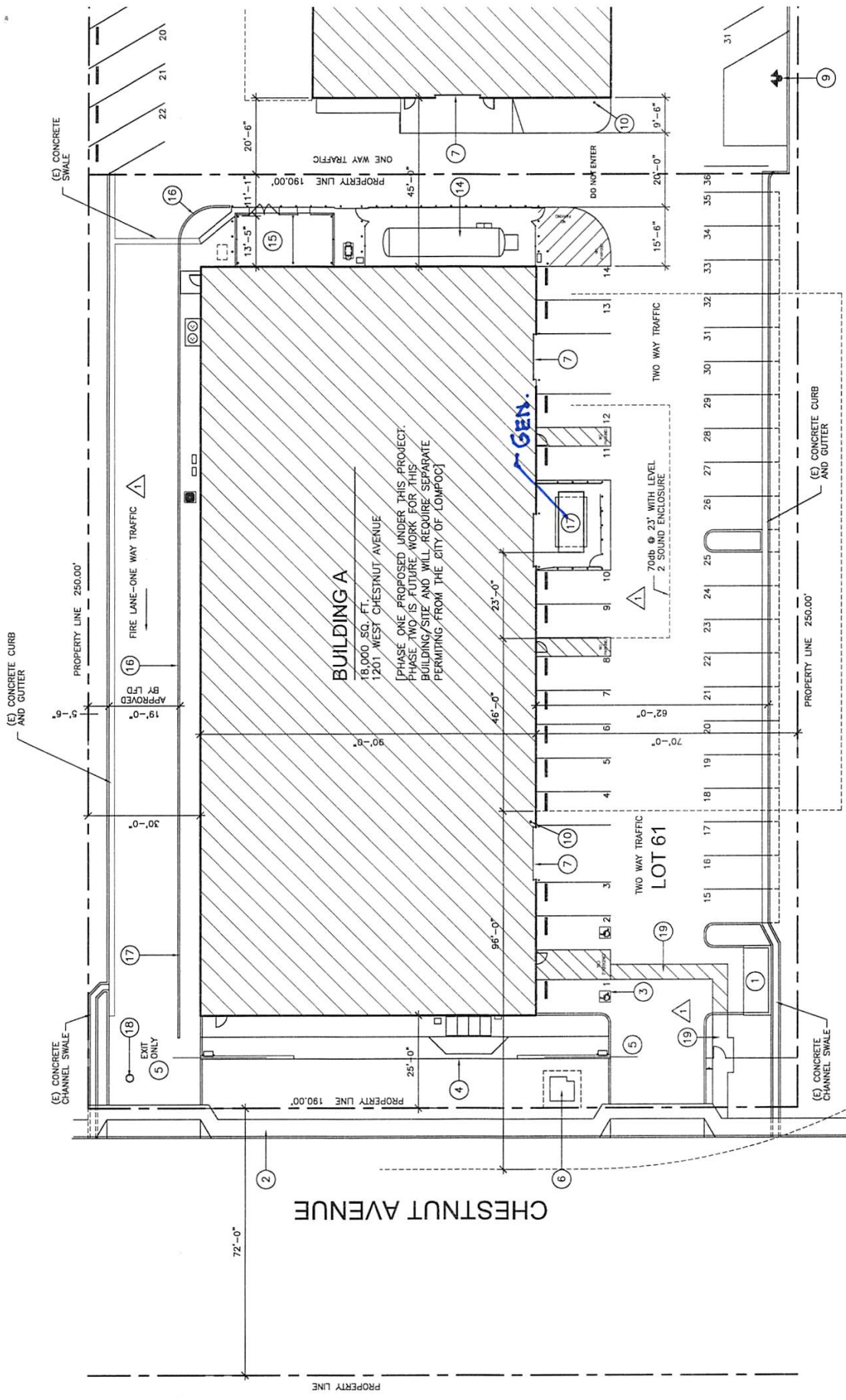
#### OWNER/BUILDER DECLARATION

I hereby affirm that I am the legal owner of the property mentioned above.

I hereby affirm that I am exempt from the Contractor's License Law (CLL) for the following reasons (Sec. 7031.5, B. & P.C.): Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he/she is licensed pursuant to the provisions of the CLL (Ch.9 (commencing with Sec.7000) of Div. 3 of the B. & P.C.) or that he/she is exempt therefrom and the basis for the alleged exemption. Any violation of Sec 7031.5 by an applicant for permit subjects the applicant to a civil penalty of not more than five hundred dollars (\$500.).







# OVERALL SITE PLAN

SCALE: 1" = 20'-0"



Print Form

## Diesel-Fired Emergency/Standby (E/S) Engine Application Form -34E

Santa Barbara County Air Pollution Control District  
260 N. San Antonio Road, Suite A  
Santa Barbara, CA 93110-1315

Complete a separate APCD Form -34E for each emergency/standby engine along with an APCD Form -01 (*General Permit Application*). Only one Form -01 is required if multiple engines are being applied for at the same facility. Mail the completed form(s) and appropriate filing fees to the Air Pollution Control District (APCD) at the above address. Additional assistance can be obtained by referencing to the APCD's Diesel Internal Combustion Engine webpage at <http://www.ourair.org/dice-atcm>.

### I. Purpose of Application

- |  |  |  |
|--|--|--|
| <input checked="" type="checkbox"/> New Engine | <input type="checkbox"/> Reconstructed Engine  | <input type="checkbox"/> Replacement of an Existing Engine |
| <input type="checkbox"/> Add-On Controls       | <input type="checkbox"/> Enrolling in a Demand Response Program (DRP) / Interruptible Service Contract (ISC) |  |
| <input type="checkbox"/> Existing Engine       | Installation Date of Existing Engine   | <input style="width: 150px;" type="text"/>                 |

### II. Engine Location (Physical Address of Engine)

Street Address or Nearest Cross Streets or Lease Name	1201 West Chestnut Ave.		
City	Lompoc	State	CA
Zip Code	93436		

### III. Exemptions (Check all that apply)

- |  |   |
|--|---|
| <input type="checkbox"/> C.16 In-Use Firewater Pump Per NFPA 25/13 | <input type="checkbox"/> C.8 DoD Training Engine      |
| <input type="checkbox"/> C.10 OCS Engine                           | <input type="checkbox"/> C.19 Fuel Delay Requirements |

### IV. General Information (Please fill in completely)

- Stationary     Portable    Is the engine stationary or portable for purposes of compliance with the applicable state Air Toxic Control Measure (ATCM)? See the definition of "Portable CI Engine" in the ATCM. <http://www.ourair.org/wp-content/uploads/finalreg2011.pdf>
- Yes     No    Does the company own four or more diesel engines rated over 50 bhp in Santa Barbara County?
- Yes     No    Is the facility/engine part of a Utility Company Demand Response (DRP) Program using an Interruptible Service Contract (ISC)?
- Yes     No    Is the engine used to provide an essential public service? If yes, identify the public service provided by this engine:
- Yes     No    Is your project's property boundary located or proposed to be located within 500 feet from the school grounds (k-12) as defined in Section 93115.4(a)(67) of the ATCM?

APCD - 34E (07/2018)

For APCD use only. FID #

App. #

**Diesel-Fired  
Emergency/Standby (E/S) Engine  
Application Form -34E**

**V. Fuel Type** *(Use CARB Diesel as a default fuel type, if unknown)*

- CARB Diesel  
 Other (specify):

--

**VI. Engine Operations**

Maintenance and Testing Schedule *(maximum per year. new engines use 31 ≤ 50 hrs/year):*

- 21 ≤ 30 hrs/year       31 ≤ 50 hrs/year       51 < 100 hrs/year

- Yes    No      Is the engine equipped with a 4-digit Non-Resettable Hour Meter?  
 Yes    No      If the engine is equipped with a 4-digit Non-Resettable Hour Meter, is the meter integral to the engine?  
 If no, then provide the following engine hour meter information:

<b>Manufacturer</b>	
<b>Model Name</b>	
<b>Serial Number</b>	

**VII. Engine Information** *(Please fill in completely. Use a separate form for each engine)*

**Engine Use** (check all that apply)

- Electrical Power       Fire Water Pump       Mechanical Work       Pumping Flood Water  
 Pumping Sewage       Runway Lights       Water Distribution System  
 Other (Describe)

--

**Engine Data**

- Yes    No      Do you have the engine manufacturer's engine specification sheet? If so, please attach it to this application form.  
*(This information is required for new engines.)*

<b>Manufacturer</b>	Caterpillar		
<b>Model Name</b>	C13		
<b>Year of Manufacture</b>	2019	<b>Model Year</b>	2019
<b>Maximum Rated Brake Horsepower</b>	539		bhp
<b>Serial Number</b>	TBD		
<b>EPA 12-Character Family Name*</b>	KCPXL12.5NYS		
<b>ARB Engine Certification Executive Order*</b>			
<b>Owner/Operator ID for Engine (if any)</b>	CE14326		

\*Only applicable to certified engines. Check engine nameplate or engine manufacturer.



## Diesel-Fired Emergency/Standby (E/S) Engine Application Form -34E

### VIII. Emission Factors

Emission factors form the basis for calculating the mass emissions from the engine. The APCD will use default emission factors based on the engine's Tier standard. Older engines are assigned the current EPA AP-42 emission factors. If Other is selected, provide the specific basis, fill in the box below and attach detailed supporting emissions documentation. Emissions testing may be required to verify the use of Other emission factors.

Use APCD default USEPA Tier Standard for Compression Ignition Engines for this engine

Other (specify basis):

Value (in g/bhp-hr)	
Nitrogen Oxides (NOx as NO2)	2.65
Reactive Organic Compounds (ROC)	0.14
Carbon Monoxide (CO)	2.01
Particulate Matter (PM)	0.12

### IX. Applicant/Preparer Statement

The person who prepares the application also must sign this form. The preparer may be an employee of the owner/operator or an authorized agent (contractor/consultant) working on behalf of the owner/operator (an *Authorized Agent Form -01A* is required).

I certify pursuant to H&SC Section 42303.5 that all information contained herein and information submitted with this application is true and correct.

Completed By  Company

Signature  Date

#### Application Checklist (Have you submitted all the required information? Please check off the boxes)

- Form -01 (*Permit Application Form*) attach one Form-01 for all diesel engines within the same facility.
- Form -01A (*Authorized Agent Form*) attach if this application was prepared by and/or if correspondence is requested to be sent to an Agent Authorized (e.g., contractor or consultant). This form must accompany each Form -01 application.
- Form -34R (*Stationary Diesel ATCM Emission Inventory Reporting Form*) attached (*required*)
- Engine manufacturer specification sheets (*Required for new engines*).
- Permit application filing fee of \$406 for new engines. Permit application filing fee of \$812 for engines installed prior to January 1, 2005.
- Emissions documentation from the manufacturer (*if the Other emission factor box is checked*).

**PLEASE NOTE THAT FAILURE TO COMPLETELY PROVIDE ALL REQUIRED INFORMATION OR FEES WILL RESULT IN YOUR APPLICATION BEING RETURNED OR DEEMED INCOMPLETE.**

\\sbcapcd.org\shares\Groups\ENGR\LIBRARY\Permitting\Application Forms\aped-34E.doc

CONFIDENTIAL  
[Illegible text]

[Illegible text]

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[Illegible text]

[Illegible text]

[Illegible text]

91-385



[Illegible text]

[Illegible text]

[Illegible text]

[Illegible text]

[Illegible text]



Print Form

# Diesel-Fired Engine Emissions Inventory Form -34R

Santa Barbara County Air Pollution Control District  
 260 N. San Antonio Road, Suite A  
 Santa Barbara, CA 93110-1315

This Form -34R is provided for use by owners/operators subject to the ARB's Stationary Diesel Airborne Toxic Control Measure (ATCM). Specifically, the information required in Section 93115.10(a)(3) on page 42 of the ATCM must be submitted to the APCD prior to installation of any new engine installed after January 1, 2005, or for any in-use engine. Complete a separate APCD Form -34R for each engine. Mail the completed form(s) to the APCD at the above address. Refer to the ATCM for the definitions of all terms.

I. Owner/Operator Contact Information					
Company Name	Central Coast Agriculture				
Contact Name	Thomas Martin	Position/Title	COO		
Mailing Address	85 West Highway 246, #233				
City	Buellton	State	CA	Zip Code	93427
Telephone	(805) 291-2104	Email			
Address of Engine	1201 W. Chestnut Ave. Lompoc, CA 93436				

II. Engine Information			
Manufacturer	Caterpillar		
Model Name	C13		
Year of Manufacture	2019	Model Year	2019
Maximum Rated Brake Horsepower	539	bhp	
Serial Number	TBD		
EPA 12-Character Family Name*	KCPXL12.5NYS		
ARB Engine Certification Executive Order*			
Owner/Operator ID for Engine (if any)	CE14326		

*\*Only applicable to certified engines. Check engine nameplate or engine manufacturer.*

III. Engine Control Equipment		
<input checked="" type="checkbox"/> Turbocharger	<input checked="" type="checkbox"/> Aftercooler	<input type="checkbox"/> Injection Timing Retard
<input type="checkbox"/> Oxidation Catalyst (provide specs)	<input type="checkbox"/> Diesel Particulate Filter (provide specs)	
<input type="checkbox"/> Other (Describe)		

IV. Fuel Used		
<input checked="" type="checkbox"/> CARB Diesel	<input type="checkbox"/> Jet Fuel	<input type="checkbox"/> Diesel
<input type="checkbox"/> Alternative Diesel Fuel (specify)		
<input type="checkbox"/> Alternative Fuel (specify)		
<input type="checkbox"/> Combination (Dual Fuel) (specify)		
<input type="checkbox"/> Other (Describe)		

APCD - 34R (07/2016)

For APCD use only. FID #

App. #



## Diesel-Fired Engine Emissions Inventory Form -34R

V. Operation Information	
Describe general use of engine	Backup power when utility is down
Typical annual hours of operation	Only when utility is down
If seasonal, months of year operated	
If seasonal, typical hours per month operated	
Typical Load (percent of maximum bhp rating)	50 %
Fuel usage rate (if available)	24.6 Gallons/ hour

### VI. Health Risk Modeling Information

**Receptor Distances** : Application cannot be deemed completed without passing a health risk evaluation. Please fill in information below completely.

Distance from engine to nearest residential receptor	250	ft						
Distance from engine to nearest worker receptor*	135	ft						
Distance to nearest school grounds	2295	ft						
Distance from engine to nearest building	130	ft						
Building Width	90	ft	Building Height	20	ft	Building Length	200	ft

\*Nearest worker receptor includes any offsite worker receptors (business) or any onsite non-affiliated worker receptor who is not employed by or monetarily tied to the facility being evaluated.

Yes  No Is a site plan or map showing the location of the engine, stack exhaust point and relative distances of all nearby buildings attached to the form? Application cannot be deemed complete without a detailed site plan or map.

#### Stack Information

Stack Height from Ground	9.48	ft	Diameter of Stack Outlet	8	inches
Direction of Outlet (horz. or vert)	Vertical		End of Stack (open or capped)	Capped	
Stack Exhaust Gas Temperature	1060.1	°F	Exhaust Gas Flow Rate	2591.3	scfm

Yes  No Will the manufacturer provided stack configuration and dimensions be modified in any way? If yes, attach a diagram showing the proposed stack configuration and relative dimensions.

### VII. AB2588 Inventory

Is the engine included in an existing AB2588 inventory?  Yes  No

### VIII. Applicant/Preparer Statement

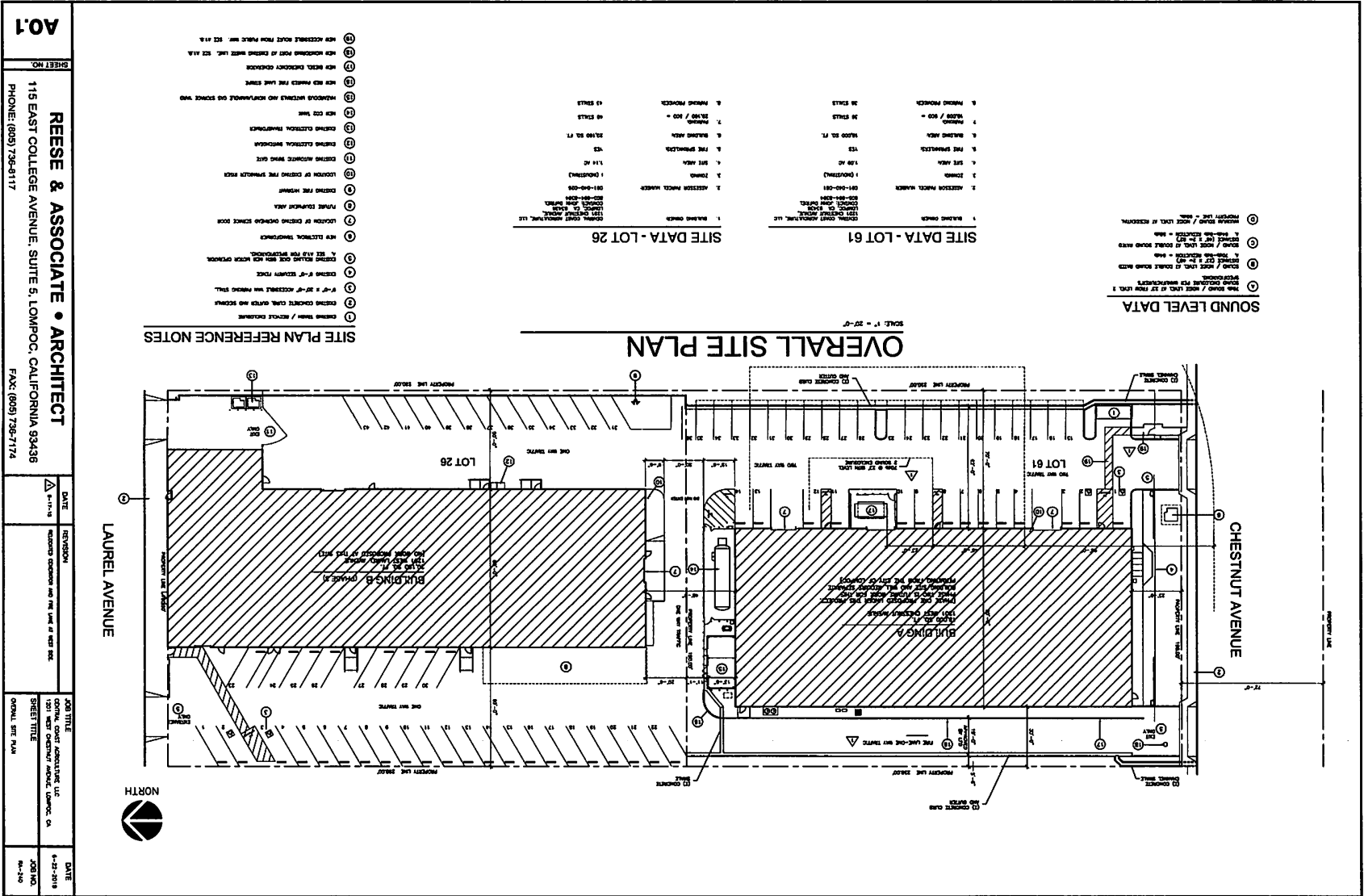
The person who prepares the application also must sign this form. The preparer may be an employee of the owner/operator or an authorized agent (contractor/consultant) working on behalf of the owner/operator (an *Authorized Agent Form -01A* is required).

I certify pursuant to H&SC Section 42303.5 that all information contained herein and information submitted with this application is true and correct.

Completed By  Company

Signature  Date

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**REESE & ASSOCIATE • ARCHITECT**  
 115 EAST COLLEGE AVENUE, SUITE 5, LOMPOC, CALIFORNIA 93436  
 PHONE: (805) 736-9117 FAX: (805) 736-7174

DATE	REVISION	JOB TITLE	DATE
6-22-2018	1001 WEST CHESTNUT AVENUE, LOMPOC, CA	OVERALL SITE PLAN	6-22-2018
6-22-2018			6-22-2018

A0.1

**PERFORMANCE DATA[EM1692]**

Performance Number: EM1692

Change Level: 02

SALES MODEL:	C13	COMBUSTION:	DI
BRAND:	CAT	ENGINE SPEED (RPM):	1,800
ENGINE POWER (BHP):	539	HERTZ:	60
GEN POWER WITH FAN (EKW):	350.0	FAN POWER (HP):	20.1
COMPRESSION RATIO:	18.3	ADDITIONAL PARASITICS (HP):	9.3
RATING LEVEL:	STANDBY	ASPIRATION:	TA
PUMP QUANTITY:	1	AFTERCOOLER TYPE:	ATAAC
FUEL TYPE:	DIESEL	AFTERCOOLER CIRCUIT TYPE:	JW+OC, ATAAC
MANIFOLD TYPE:	DRY	INLET MANIFOLD AIR TEMP (F):	120
GOVERNOR TYPE:	ELEC	JACKET WATER TEMP (F):	192.2
ELECTRONICS TYPE:	ADEM4	TURBO CONFIGURATION:	SINGLE
CAMSHAFT TYPE:	STANDARD	TURBO QUANTITY:	1
IGNITION TYPE:	CI	TURBOCHARGER MODEL:	GTA5002BS 1.60A/R
INJECTOR TYPE:	ELI	CERTIFICATION YEAR:	2015
REF EXH STACK DIAMETER (IN):	5	PISTON SPD @ RATED ENG SPD (FT/MIN):	1,854.3
MAX OPERATING ALTITUDE (FT):	1,640		

INDUSTRY	SUBINDUSTRY	APPLICATION
ELECTRIC POWER	STANDARD	PACKAGED GENSET

**General Performance Data**

GENSET POWER WITH FAN	PERCENT LOAD	ENGINE POWER	BRAKE MEAN EFF. PRES (BMEP)	BRAKE SPEC FUEL CONSUMPTN (BSEC)	VOL FUEL CONSUMPTN (WFC)	INLET MFLD PRES	INLET MFLD TEMP	EXH MFLD TEMP	EXH MFLD PRES	ENGINE OUTLET TEMP
EKW	%	BHP	PSI	LB/BHP-HR	GAL/HR	IN-HG	DEG F	DEG F	IN-HG	DEG F
350.0	100	539	311	0.328	25.3	47.8	120.5	1,271.9	31.8	1,062.6
315.0	90	484	279	0.337	23.3	44.8	120.8	1,258.4	29.9	1,046.0
280.0	80	431	248	0.363	22.3	46.4	123.8	1,254.4	31.2	1,031.0
262.5	75	405	234	0.374	21.6	46.1	123.3	1,248.8	31.0	1,021.9
245.0	70	380	219	0.380	20.6	43.8	120.1	1,236.3	29.3	1,010.2
210.0	60	330	190	0.389	18.4	38.2	113.7	1,198.6	25.6	980.6
175.0	50	281	162	0.396	15.9	31.3	107.2	1,144.4	21.4	942.7
140.0	40	233	134	0.397	13.2	22.4	100.5	1,073.3	18.3	897.1
105.0	30	184	106	0.397	10.4	13.7	93.7	976.6	11.3	834.1
87.5	25	160	92	0.398	9.1	9.7	90.2	917.7	9.1	795.4
70.0	20	134	78	0.403	7.7	6.4	86.8	850.2	7.3	749.4
35.0	10	83.0	48	0.443	5.3	2.6	83.6	670.2	5.3	599.4

GENSET POWER WITH FAN	PERCENT LOAD	ENGINE POWER	COMPRESSOR OUTLET PRES	COMPRESSOR OUTLET TEMP	WET INLET AIR VOL FLOW RATE	ENGINE OUTLET WET EXH GAS VOL FLOW RATE	WET INLET AIR MASS FLOW RATE	WET EXH GAS MASS FLOW RATE	WET EXH VOL FLOW RATE (32 DEG F AND 29.92 IN HG)	DRY EXH VOL FLOW RATE (32 DEG F AND 29.92 IN HG)
EKW	%	BHP	IN-HG	DEG F	CFM	CFM	LB/HR	LB/HR	FT3/MIN	FT3/MIN
350.0	100	539	53	328.0	881.1	2,619.7	3,862.0	4,038.9	846.1	761.4
315.0	90	484	49	313.8	855.8	2,508.3	3,729.7	3,893.1	819.1	739.9
280.0	80	431	51	320.2	878.5	2,549.2	3,839.9	3,996.2	840.8	764.1
262.5	75	405	51	319.5	878.6	2,530.2	3,841.4	3,992.9	839.7	765.1
245.0	70	380	48	311.2	857.9	2,439.7	3,742.1	3,886.3	816.0	744.9
210.0	60	330	42	288.4	801.9	2,220.3	3,481.1	3,609.6	758.0	694.1
175.0	50	281	35	257.7	727.0	1,950.9	3,138.9	3,250.2	684.0	628.2
140.0	40	233	25	214.8	622.6	1,616.8	2,672.7	2,765.1	585.9	540.0
105.0	30	184	16	170.6	517.7	1,277.3	2,206.8	2,279.9	485.4	449.0
87.5	25	160	12	150.2	470.9	1,117.8	1,999.7	2,063.2	437.9	405.9
70.0	20	134	8	132.3	431.9	973.5	1,827.1	1,881.3	395.9	367.9
35.0	10	83.0	4	109.2	390.5	759.0	1,643.9	1,680.7	352.4	332.1

**Heat Rejection Data**

GENSET POWER WITH FAN	PERCENT LOAD	ENGINE POWER	REJECTION TO JACKET WATER	REJECTION TO ATMOSPHERE	REJECTION TO EXH	EXHAUST RECOVERY TO 350F	FROM OIL COOLER	FROM AFTERCOOLER	WORK ENERGY	LOW HEAT VALUE ENERGY	HIGH HEAT VALUE ENERGY
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**PERFORMANCE DATA[EM1692]**

EKW	%	BHP	BTU/MIN	BTU/MIN	BTU/MIN	BTU/MIN	BTU/MIN	BTU/MIN	BTU/MIN	BTU/MIN	BTU/MIN
350.0	100	539	8,221	2,747	20,731	12,456	2,987	3,178	22,859	54,199	57,735
315.0	90	484	7,677	2,692	19,528	11,690	2,665	2,883	20,512	50,027	53,291
280.0	80	431	7,354	2,887	19,493	11,693	2,551	3,019	18,269	47,897	51,023
262.5	75	405	7,140	2,948	19,197	11,505	2,474	3,018	17,180	46,452	49,483
245.0	70	380	6,842	2,890	18,397	10,985	2,355	2,864	16,104	44,213	47,098
210.0	60	330	6,231	2,840	16,468	9,709	2,099	2,436	13,997	39,401	41,972
175.0	50	281	5,608	2,763	14,165	8,183	1,818	1,892	11,926	34,126	36,352
140.0	40	233	5,098	2,565	11,424	6,365	1,509	1,223	9,874	28,335	30,184
105.0	30	184	4,540	2,136	8,708	4,636	1,194	679	7,809	22,410	23,872
87.5	25	160	4,185	1,844	7,473	3,846	1,037	480	6,765	19,475	20,746
70.0	20	134	3,761	1,539	6,355	3,130	885	333	5,703	16,607	17,691
35.0	10	83.0	2,657	1,328	4,333	1,713	600	168	3,518	11,270	12,005

**Emissions Data**

**RATED SPEED POTENTIAL SITE VARIATION: 1800 RPM**

GENSET POWER WITH FAN	EKW	350.0	262.5	175.0	87.5	35.0
PERCENT LOAD	%	100	75	50	25	10
ENGINE POWER	BHP	539	405	281	160	83.0
TOTAL NOX (AS NO2)	G/HR	2,622	929	521	537	363
TOTAL CO	G/HR	1,341	1,037	1,009	1,039	764
TOTAL HC	G/HR	15	28	41	48	79
PART MATTER	G/HR	102.3	100.4	101.1	54.5	37.3
TOTAL NOX (AS NO2)	(CORR 5% O2) MG/NM3	2,456.7	991.6	766.7	1,466.5	1,550.9
TOTAL CO	(CORR 5% O2) MG/NM3	1,247.2	1,104.7	1,479.3	2,911.7	3,253.4
TOTAL HC	(CORR 5% O2) MG/NM3	11.7	26.0	51.8	110.6	347.1
PART MATTER	(CORR 5% O2) MG/NM3	76.8	90.9	126.6	114.8	157.0
TOTAL NOX (AS NO2)	(CORR 5% O2) PPM	1,197	483	373	714	755
TOTAL CO	(CORR 5% O2) PPM	998	884	1,183	2,329	2,603
TOTAL HC	(CORR 5% O2) PPM	22	48	97	206	648
TOTAL NOX (AS NO2)	G/HP-HR	4.95	2.31	1.86	3.38	4.39
TOTAL CO	G/HP-HR	2.53	2.58	3.61	6.54	9.23
TOTAL HC	G/HP-HR	0.03	0.07	0.15	0.30	0.95
PART MATTER	G/HP-HR	0.19	0.25	0.36	0.34	0.45
TOTAL NOX (AS NO2)	LB/HR	5.78	2.05	1.15	1.18	0.80
TOTAL CO	LB/HR	2.96	2.29	2.22	2.29	1.68
TOTAL HC	LB/HR	0.03	0.06	0.09	0.11	0.17
PART MATTER	LB/HR	0.23	0.22	0.22	0.12	0.08

**RATED SPEED NOMINAL DATA: 1800 RPM**

GENSET POWER WITH FAN	EKW	350.0	262.5	175.0	87.5	35.0
PERCENT LOAD	%	100	75	50	25	10
ENGINE POWER	BHP	539	405	281	160	83.0
TOTAL NOX (AS NO2)	G/HR	2,428	860	482	497	337
TOTAL CO	G/HR	717	555	540	556	408
TOTAL HC	G/HR	8	15	21	25	42
TOTAL CO2	KG/HR	263	216	158	90	52
PART MATTER	G/HR	52.4	51.5	51.9	27.9	19.1
TOTAL NOX (AS NO2)	(CORR 5% O2) MG/NM3	2,274.7	918.1	709.9	1,357.9	1,436.0
TOTAL CO	(CORR 5% O2) MG/NM3	666.9	590.8	791.1	1,557.0	1,739.8
TOTAL HC	(CORR 5% O2) MG/NM3	6.2	13.7	27.4	58.5	183.6
PART MATTER	(CORR 5% O2) MG/NM3	39.4	46.6	64.9	58.9	80.5
TOTAL NOX (AS NO2)	(CORR 5% O2) PPM	1,108	447	346	661	699
TOTAL CO	(CORR 5% O2) PPM	534	473	633	1,246	1,392
TOTAL HC	(CORR 5% O2) PPM	12	26	51	109	343
TOTAL NOX (AS NO2)	G/HP-HR	4.58	2.14	1.73	3.13	4.07
TOTAL CO	G/HP-HR	1.35	1.38	1.93	3.50	4.93
TOTAL HC	G/HP-HR	0.01	0.04	0.08	0.16	0.50
PART MATTER	G/HP-HR	0.10	0.13	0.19	0.18	0.23
TOTAL NOX (AS NO2)	LB/HR	5.35	1.90	1.06	1.10	0.74
TOTAL CO	LB/HR	1.58	1.22	1.19	1.22	0.90
TOTAL HC	LB/HR	0.02	0.03	0.05	0.06	0.09
TOTAL CO2	LB/HR	559	476	348	198	115
PART MATTER	LB/HR	0.12	0.11	0.11	0.06	0.04
OXYGEN IN EXH	%	7.5	9.4	10.6	12.0	14.5
DRY SMOKE OPACITY	%	2.1	1.9	1.6	3.7	2.2
BOSCH SMOKE NUMBER		1.33	1.27	1.05	1.98	1.39

**PERFORMANCE DATA[EM1692]**

**Regulatory Information**

EPA EMERGENCY STATIONARY				
2011 - ----				
GASEOUS EMISSIONS DATA MEASUREMENTS PROVIDED TO THE EPA ARE CONSISTENT WITH THOSE DESCRIBED IN EPA 40 CFR PART 60 SUBPART III AND ISO 8178 FOR MEASURING HC, CO, PM, AND NOX. THE "MAX LIMITS" SHOWN BELOW ARE WEIGHTED CYCLE AVERAGES AND ARE IN COMPLIANCE WITH THE EMERGENCY STATIONARY REGULATIONS.				
Locality	Agency	Regulation	Tier/Stage	Max Limits - G/BKW - HR
U.S. (INCL CALIF)	EPA	STATIONARY	EMERGENCY STATIONARY	CO: 3.5 NOx + HC: 4.0 PM: 0.20

**Altitude Derate Data**

**ALTITUDE CORRECTED POWER CAPABILITY (BHP)**

AMBIENT OPERATING TEMP (F)	30	40	50	60	70	80	90	100	110	120	130	140	NORMAL
ALTITUDE (FT)													
0	539	539	539	539	539	539	539	539	539	531	522	513	539
1,000	539	539	539	539	539	539	539	530	520	511	503	494	539
2,000	539	539	539	539	539	529	519	510	501	492	484	476	537
3,000	539	539	539	528	518	509	500	491	482	474	466	458	521
4,000	539	529	518	508	499	490	481	472	464	456	448	441	504
5,000	519	508	499	489	480	471	462	454	446	438	431	424	488
6,000	499	489	479	470	461	453	444	436	429	421	414	407	473
7,000	479	470	461	452	443	435	427	419	412	405	398	391	457
8,000	461	451	443	434	426	418	410	403	396	389	383	376	442
9,000	442	434	425	417	409	401	394	387	380	374	367	361	428
10,000	425	416	408	400	393	385	378	372	365	359	353	347	414
11,000	408	399	392	384	377	370	363	357	350	344	338	333	400
12,000	391	383	376	368	361	355	348	342	336	330	325	319	386
13,000	375	367	360	353	347	340	334	328	322	317	311	306	373
14,000	359	352	345	339	332	326	320	314	309	303	298	293	360
15,000	344	337	331	324	318	312	307	301	296	291	286	281	348

**Cross Reference**

Test Spec	Setting	Engine Arrangement	Engineering Model	Engineering Model Version	Start Effective Serial Number	End Effective Serial Number
OK9331	PP7708	4343726	PG045	LS	PW300001	
OK9331	PP7708	5066872	PG045	LS	PW300001	

**Performance Parameter Reference**

<b>Parameters Reference:DM9600-11</b>
<b>PERFORMANCE DEFINITIONS</b>

PERFORMANCE DEFINITIONS DM9600  
 APPLICATION:  
 Engine performance tolerance values below are representative of a typical production engine tested in a calibrated dynamometer test cell at SAE J1995 standard reference conditions. Caterpillar maintains ISO9001:2000 certified quality management systems for engine test Facilities to assure accurate calibration of test equipment. Engine test data is corrected in accordance with SAE J1995. Additional reference material SAE J1228, J1349, ISO 8665, 3046-1:2002E, 3046-3:1989, 1585, 2534, 2288, and 9249 may apply in part or are similar to SAE J1995. Special engine rating request (SERR) test data shall be noted.  
 PERFORMANCE PARAMETER TOLERANCE FACTORS:  
 Power +/- 3%  
 Torque +/- 3%  
 Exhaust stack temperature +/- 8%  
 Inlet airflow +/- 5%

## PERFORMANCE DATA[EM1692]

Intake manifold pressure-gage +/- 10%

Exhaust flow +/- 6%

Specific fuel consumption +/- 3%

Fuel rate +/- 5%

Specific DEF consumption +/- 3%

DEF rate +/- 5%

Heat rejection +/- 5%

Heat rejection exhaust only +/- 10%

Heat rejection CEM only +/- 10%

Heat Rejection values based on using treated water.

Torque is included for truck and industrial applications, do not use for Gen Set or steady state applications.

On C7 - C18 engines, at speeds of 1100 RPM and under these values are provided for reference only, and may not meet the tolerance listed.

These values do not apply to C280/3600. For these models, see the tolerances listed below.

C280/3600 HEAT REJECTION TOLERANCE FACTORS:

Heat rejection +/- 10%

Heat rejection to Atmosphere +/- 50%

Heat rejection to Lube Oil +/- 20%

Heat rejection to Aftercooler +/- 5%

TEST CELL TRANSDUCER TOLERANCE FACTORS:

Torque +/- 0.5%

Speed +/- 0.2%

Fuel flow +/- 1.0%

Temperature +/- 2.0 C degrees

Intake manifold pressure +/- 0.1 kPa

OBSERVED ENGINE PERFORMANCE IS CORRECTED TO SAE J1995 REFERENCE AIR AND FUEL CONDITIONS.

REFERENCE ATMOSPHERIC INLET AIR

FOR 3500 ENGINES AND SMALLER

SAE J1228 AUG2002 for marine engines, and J1995 JAN2014 for other engines, reference atmospheric pressure is 100 KPA (29.61 in hg), and standard temperature is 25deg C (77 deg F) at 30% relative humidity at the stated aftercooler water temp, or inlet manifold temp.

FOR 3600 ENGINES

Engine rating obtained and presented in accordance with ISO 3046/1 and SAE J1995 JAN2014 reference atmospheric pressure is 100 KPA (29.61 in hg), and standard temperature is 25deg C (77 deg F) at 30% relative humidity and 150M altitude at the stated aftercooler water temperature.

MEASUREMENT LOCATION FOR INLET AIR TEMPERATURE

Location for air temperature measurement air cleaner inlet at stabilized operating conditions.

REFERENCE EXHAUST STACK DIAMETER

The Reference Exhaust Stack Diameter published with this dataset is only used for the calculation of Smoke Opacity values displayed in this dataset. This value does not necessarily represent the actual stack diameter of the engine due to the variety of exhaust stack adapter options available. Consult the price list, engine order or general dimension drawings for the actual stack diameter size ordered or options available.

REFERENCE FUEL

DIESEL

Reference fuel is #2 distillate diesel with a 35API gravity;

A lower heating value is 42,780 KJ/KG (18,390 BTU/LB) when used at 29 deg C (84.2 deg F), where the density is 838.9 G/Liter (7,001 Lbs/Gal).

GAS

Reference natural gas fuel has a lower heating value of 33.74 KJ/L (905 BTU/CU Ft). Low BTU ratings are based on 18.64 KJ/L (500 BTU/CU FT) lower heating value gas. Propane ratings are based on 87.56 KJ/L (2350 BTU/CU Ft) lower heating value gas.

ENGINE POWER (NET) IS THE CORRECTED FLYWHEEL POWER (GROSS) LESS

EXTERNAL AUXILIARY LOAD

Engine corrected gross output includes the power required to drive standard equipment: lube oil, scavenge lube oil, fuel transfer, common rail fuel, separate circuit aftercooler and jacket water pumps. Engine net power available for the external (flywheel) load is calculated by subtracting the sum of auxiliary load from the corrected gross flywheel out put power. Typical auxiliary loads are radiator cooling fans, hydraulic pumps, air compressors and battery charging alternators. For Tier 4 ratings additional Parasitic losses would also include Intake, and Exhaust Restrictions.

ALTITUDE CAPABILITY

Altitude capability is the maximum altitude above sea level at standard temperature and standard pressure at which the engine could develop full rated output power on the current performance data set

Standard temperature values versus altitude could be seen on TM2001.

When viewing the altitude capability chart the ambient temperature is the inlet air temp at the compressor inlet.

Engines with ADEM MEUI and HEUI fuel systems operating at conditions above the defined altitude capability derate for

## PERFORMANCE DATA[EM1692]

atmospheric pressure and temperature conditions outside the values defined, see TM2001.

Mechanical governor controlled unit injector engines require a setting change for operation at conditions above the altitude defined on the engine performance sheet. See your Caterpillar technical representative for non standard ratings.

### REGULATIONS AND PRODUCT COMPLIANCE

TMI Emissions information is presented at 'nominal' and 'Potential Site Variation' values for standard ratings. No tolerances are applied to the emissions data. These values are subject to change at any time. The controlling federal and local emission requirements need to be verified by your Caterpillar technical representative.

Customer's may have special emission site requirements that need to be verified by the Caterpillar Product Group engineer.

### EMISSIONS DEFINITIONS:

Emissions : DM1176

### EMISSION CYCLE DEFINITIONS

1. For constant-speed marine engines for ship main propulsion, including diesel-electric drive, test cycle E2 shall be applied, for controllable-pitch propeller sets test cycle E2 shall be applied.

2. For propeller-law-operated main and propeller-law-operated auxiliary engines the test cycle E3 shall be applied.

3. For constant-speed auxiliary engines test cycle D2 shall be applied.

4. For variable-speed, variable-load auxiliary engines, not included above, test cycle C1 shall be applied.

### HEAT REJECTION DEFINITIONS:

Diesel Circuit Type and HHV Balance : DM9500

### HIGH DISPLACEMENT (HD) DEFINITIONS:

3500: EM1500

### RATING DEFINITIONS:

Agriculture : TM6008

Fire Pump : TM6009

Generator Set : TM6035

Generator (Gas) : TM6041

Industrial Diesel : TM6010

Industrial (Gas) : TM6040

Irrigation : TM5749

Locomotive : TM6037

Marine Auxiliary : TM6036

Marine Prop (Except 3600) : TM5747

Marine Prop (3600 only) : TM5748

MSHA : TM6042

Oil Field (Petroleum) : TM6011

Off-Highway Truck : TM6039

On-Highway Truck : TM6038

### SOUND DEFINITIONS:

Sound Power : DM8702

Sound Pressure : TM7080

Date Released : 11/29/18






**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
2019 MODEL YEAR  
CERTIFICATE OF CONFORMITY  
WITH THE CLEAN AIR ACT**

**OFFICE OF TRANSPORTATION  
AND AIR QUALITY  
ANN ARBOR, MICHIGAN 48105**

**Certificate Issued To:** Caterpillar Inc.  
(U.S. Manufacturer or Importer)  
**Certificate Number:** KCPXL12.5NYS-006

**Effective Date:**  
07/24/2018  
**Expiration Date:**  
12/31/2019

  
Byron J. Bunker, Division Director  
Compliance Division

**Issue Date:**  
07/24/2018  
**Revision Date:**  
N/A

**Model Year:** 2019  
**Manufacturer Type:** Original Engine Manufacturer  
**Engine Family:** KCPXL12.5NYS

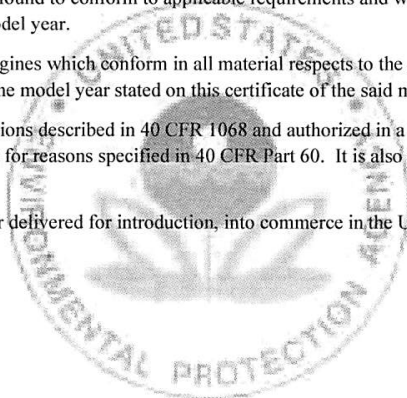
**Mobile/Stationary Indicator:** Stationary  
**Emissions Power Category:** 225<=kW<450  
**Fuel Type:** Diesel  
**After Treatment Devices:** No After Treatment Devices Installed  
**Non-after Treatment Devices:** Electronic Control, Smoke Puff Limiter, Engine Design Modification

Pursuant to Section 111 and Section 213 of the Clean Air Act (42 U.S.C. sections 7411 and 7547) and 40 CFR Part 60, and subject to the terms and conditions prescribed in those provisions, this certificate of conformity is hereby issued with respect to the test engines which have been found to conform to applicable requirements and which represent the following engines, by engine family, more fully described in the documentation required by 40 CFR Part 60 and produced in the stated model year.

This certificate of conformity covers only those new compression-ignition engines which conform in all material respects to the design specifications that applied to those engines described in the documentation required by 40 CFR Part 60 and which are produced during the model year stated on this certificate of the said manufacturer, as defined in 40 CFR Part 60.

It is a term of this certificate that the manufacturer shall consent to all inspections described in 40 CFR 1068 and authorized in a warrant or court order. Failure to comply with the requirements of such a warrant or court order may lead to revocation or suspension of this certificate for reasons specified in 40 CFR Part 60. It is also a term of this certificate that this certificate may be revoked or suspended or rendered void *ab initio* for other reasons specified in 40 CFR Part 60.

This certificate does not cover engines sold, offered for sale, or introduced, or delivered for introduction, into commerce in the U.S. prior to the effective date of the certificate.





Print Form

**Authorized Agent Form  
Application Form -01A**

Santa Barbara County Air Pollution Control District  
260 N. San Antonio Road, Suite A  
Santa Barbara, CA 93110-1315

I hereby designate:

Agent's Name (print)	Doug Pedersen
Agent's Business Name	Rogers & Pedersen Construction, Inc.
Agent's Phone Number	(805) 354-5400
Agent's Email	doug@rp-construction.com
Agent's Address	P.O. Box 951
City, State, Zip	San Luis Obispo, CA 93406

to serve as the Authorized Agent for my company:   
(applicant or permitted company's name - print)

at   
(facility name(s) - print)

in dealing with the Santa Barbara County Air Pollution Control District (APCD) in matters regarding (check as appropriate):

- Permitting
- Air Toxics/HRA
- Inspections and Permit Compliance
- Other (state purpose):
- Billing
- Source Testing
- All of the above



This Designation included written correspondence, telephone discussions and meetings and shall remain in effect until it is suspended in writing by my company or the following date:  whichever is earlier.

As a designated Responsible Official, I hereby authorize the above mentioned agent to represent my company in the matters identified above:

Name (print)	Thomas Martin
Title	COO
Phone	(805) 291-2104
Email	thomas@ccagriculture.com
Address	85 West Highway 246, #233
City, State, Zip	Buellton, CA 93427
Signature	