



**DEPARTMENT OF THE AIR FORCE
UNITED STATES SPACE FORCE
SPACE LAUNCH DELTA 30**

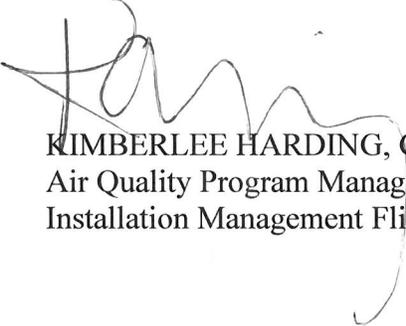
31 March 2022

MEMORANDUM FOR SANTA BARBARA COUNTY
AIR POLLUTION CONTROL DISTRICT
ATTN: MR. WILLIAM SARRAF

FROM: 30 CES/CEIEC
1028 Iceland Avenue
Vandenberg SFB, CA 93437-6010

SUBJECT: PTO 13968-R2/PT 70 Operating Permit 13968 Title V Renewal
Application, FID 0201

1. Vandenberg Space Force Base (VSFB) is submitting the attached Title V Renewal application in accordance with PTO 13968-R2/PT 70 Operating Permit 13968 Condition A.11. Please refer to the enclosure for details of the application.
2. The filing fee of \$431.00 was submitted by OTIE, the VSFB environmental support contractor. If you have any questions, please do not hesitate to contact me at (805) 606-6863.


KIMBERLEE HARDING, GS-12
Air Quality Program Manager
Installation Management Flight

1 Attachment
PTO 13968-R2/PT 70 Operating Permit 13968 Title V Renewal Application

cc:
Cardno
Permit File



AIR QUALITY PROGRAM VANDENBERG SPACE FORCE BASE



South Vandenberg Space Force Base
PTO 13968-R2/PT 70 Operating Permit 13968
Title V Renewal Application
Contract Number: GS07Q16BGA003
Call Order Number: 47QFWA19F0021173

1 April 2022

Prepared for



Office of Primary Responsibility:

30 CES/CEIEC
Air Quality Program Manager
1028 Iceland Avenue
Vandenberg Space Force Base, CA 93437

Prepared by:



In association with:



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1.0 SOURCE IDENTIFICATION

1.1 General Permit Application Form - 01



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

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 or email the completed application to the APCD's Engineering Division at the address listed above or permits@sbcapcd.org.

2. FILING FEE:

A \$431 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 submitting the Credit Card Authorization Form found here <https://www.ourair.org/wp-content/uploads/apcd-01c.pdf> via mail or calling 805-961-8823 to pay via phone.

Do not submit the Credit Card Authorization Form via email.

- 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	201	Permit No.	PT-70 Reeval 13968-R3	Rec'vd 4/5/2022
Project Name	Vandenberg SFB, Space Launch Delta 30			
Filing Fee	\$431	202.E? YES / NO		

CC #0183 ONEIDA/SFB

5. COMPANY/CONTACT INFORMATION:

Owner Info		<input checked="" type="radio"/> Yes <input type="radio"/> No	Use as Billing Contact?
Company Name	The United States Space Force, Vandenberg Space Force Base, Space Launch Delta		
Doing Business As			
Contact Name	Darryl L. York	Position/Title	Chief, Environmental Section
Mailing Address	1028 Iceland Avenue, Building 11146		
City	Vandenberg Space Force Base	State	CA Zip Code 93437
Telephone	(805) 605-2015	Cell	
Email	darryl.york@spaceforce.mil		

Operator Info		<input type="radio"/> Yes <input checked="" type="radio"/> No	Use as Billing Contact?
Company Name	The United States Space Force, Vandenberg Space Force Base, 30 CES/CEIEC		
Doing Business As			
Contact Name	Kimberlee Harding	Position/Title	Air Quality Program Manager
Mailing Address	1028 Iceland Avenue		
City	Vandenberg Space Force Base	State	CA Zip Code 93437
Telephone	(805) 606-6863	Cell	
Email	kimberlee.harding@spaceforce.mil		

Authorized Agent Info*		<input type="radio"/> Yes <input checked="" type="radio"/> No	Use as Billing Contact?
Company Name			
Doing Business As			
Contact Name		Position/Title	
Mailing Address			
City		State	
Zip Code			
Telephone		Cell	
Email			

*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.

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

6. GENERAL NATURE OF BUSINESS OR AGENCY:

National Defense

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	747 Nebraska Avenue		
City	Vandenberg Space Force Base	State	CA
		Zip Code	93437
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):

This application is for the renewal of PTO 13968-R2/PT 70 13968.

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

* 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

NA

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.

HARDING.KIMBERLEE.A.1231723443 Digitally signed by HARDING.KIMBERLEE.A.1231723443 Date: 2022.03.11 12:03:15 -08'00'

Signature of application preparer

Mar 11, 2022

Date

Kimberlee Harding

Print name of application preparer

Vandenberg Space Force Base

Employer name

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

- Application Filing Fee (Fee = \$431. 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 a *Credit Card Form-01C* <https://www.ourair.org/wp-content/uploads/apcd-01c.pdf> and submit it via mail or call 805-961-8823 to pay over the phone. **Do not submit the Credit Card Form-01C via email.**
- 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* (<https://www.ourair.org/wp-content/uploads/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, , am employed by or represent
Type or Print Name of Authorized Company Representative

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: Title:

Date: Phone:

Signature of Authorized Company Representative  Digitally signed by LONG.ROBERT.A.1118187934
DN: cn=LONG.ROBERT.A.1118187934, o=U.S. Government, ou=USSF,
email=unknown, c=US
Date: 2022.03.23T23:11:45-0400

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

1.2 Stationary Source Summary (Form 1302-A1)

STATIONARY SOURCE SUMMARY (Form 1302-A1)

APCD: Santa Barbara County Air Pollution Control District

COMPANY NAME: Space Launch Delta 30, Vandenberg Space Force Base

➤ APCD USE ONLY ◀

APCD IDS Processing ID:

Application #:

Date Application Received:

Application Filing Fee*:

Date Application Deemed Complete:

I. SOURCE IDENTIFICATION

1. Source Name: Vandenberg Space Force Base

2. Four digit SIC Code: 9711

USEPA AIRS Plant ID (for APCD use only):

3. Parent Company (if different than Source Name):

4. Mailing Address of Responsible Official: 747 Nebraska Ave, Ste A200, Vandenberg SFB CA 93437

5. Street Address of Source Location (include Zip Code): Same as above

6. UTM Coordinates (if required) (see instructions):

7. Source located within: 50 miles of the state line Yes No

50 miles of a Native American Nation Yes No Not Applicable

8. Type of Organization: Corporation Sole Ownership Government

Partnership Utility Company

9. Legal Owner's Name: Space Launch Delta 30

10. Owner's Agent Name (if any): Title: Telephone #:

11. Responsible Official: Colonel Robert A. Long Title: Commander, Space Launch Delta 30 Telephone #: (805) 606-3000

12. Plant Site Manager/Contact: Darryl L. York Title: Chief, Environmental Section Telephone #: (805) 605-2015

13. Type of facility: Military Installation

14. General description of processes/products: The Vandenberg Space Force Base stationary source is comprised primarily of internal and external combustion sources, conventional and exotic fuel transfer and storage operations, abrasive blasting and surface coating operations, and processes involving solvent usage.

15. Does your facility store, or otherwise handle, greater than threshold quantities of any substance on the Section 112(r) List of Substances and their Thresholds (see Attachment A)? Yes No

16. Is a Federal Risk Management Plan [pursuant to Section 112(r)] required? Not Applicable Yes No

(If yes, attach verification that Risk Management Plan is registered with appropriate agency or description of status of Risk Management Plan submittal.)

* Applications submitted without a filing fee will be returned to the applicant immediately as "improper" submittals

1.3 Stationary Source Summary (Form 1302-A2)

STATIONARY SOURCE SUMMARY (Form 1302-A2)

APCD: Santa Barbara County Air Pollution Control District	> APCD USE ONLY < APCD IDS Processing ID:
COMPANY NAME: Space Launch Delta 30	SOURCE NAME: Vandenberg Space Force Base

II. TYPE OF PERMIT ACTION

	CURRENT PERMIT (permit number)	EXPIRATION (date)
<input type="checkbox"/> Initial SBCAPCD's Regulation XIII Application		
<input checked="" type="checkbox"/> Permit Renewal	PT 70 13968-R2	01 October 2022
<input type="checkbox"/> Significant Permit Revision*		
<input type="checkbox"/> Minor Permit Revision*		
<input type="checkbox"/> Administrative Amendment		

III. DESCRIPTION OF PERMIT ACTION

1. Does the permit action requested involve:
- a: Portable Source Voluntary Emissions Caps
 Acid Rain Source Alternative Operating Scenarios
 Source Subject to MACT Requirements [Section 112]
- b: None of the options in 1.a. are applicable

2. Is source operating under a Title V Program Compliance Schedule? Yes No

3. For permit modifications, provide a general description of the proposed permit modification:

The application is for the re-evaluation and renewal of Part 70 Permit to Operate 13968.

*Requires APCD-approved NSR permit prior to a permit revision submittal

1.4 Total Stationary Source Emissions (Form 1302-B)

TOTAL STATIONARY SOURCE EMISSIONS (Form 1302-B)

APCD: Santa Barbara County Air Pollution Control District	▶ APCD USE ONLY ◀
COMPANY NAME: Vandenberg Space Force Base	APCD IDS Processing ID: SOURCE NAME: Vandenberg Space Force Base

I. TOTAL STATIONARY SOURCE EMISSIONS

Provide a brief description of operating scenario:

POLLUTANT* (name)	EMISSIONS		PRE-MODIFICATION EMISSIONS		EMISSIONS CHANGE (tons per year)
	(tons per year)		(tons per year)		
NOx	131.70		128.08		3.62
ROC	34.45		47.00		-12.55
PM	18.36		8.63		9.73
PM10	18.36		8.63		9.73
PM2.5	18.36		8.63		9.73
CO	72.38		63.72		8.66
SOx	6.13		5.15		0.98
HAPS (see below)	6.85		6.82		0.03
Acetaldehyde	Turbines	0.01	Turbines	0.01	0.00
	Diesel IC Engines	0.06	Diesel IC Engines	0.05	0.01
	Total	0.06	Total	0.06	0.00
Acrolein					
Acrylonitrile	Landfill Gas	0.03	Landfill Gas	0.03	0.00
Arsenic					
Benzene	Diesel IC Engines	0.01	Diesel IC Engines	0.01	0.00
	Solvent Usage	0.37	Solvent Usage	0.37	0.00
	Landfill Gas	0.07	Landfill Gas	0.07	0.00
	Mobile Vehicle Fueling	0.07	Mobile Vehicle Fueling	0.07	0.00
	Total	0.52	Total	0.52	0.00
Beryllium					
1,3-butadiene	Diesel IC Engines	0.01	Diesel IC Engines	0.01	0.00
Cadmium					
Carbon disulfide					
Carbon tetrachloride					
Carbonyl sulfide					
Chlorobenzene					
Chloroform					
Chromium					
Cobalt					
Dichlorobenzene					
1,1-Dimethyl Hydrazine	Scrubber	0.03	Scrubber	0.03	0.00
Ethylbenzene	Turbines	0.01	Turbines	0.01	0.00
	Coatings	0.08	Coatings	0.08	0.00
	Landfill Gas	0.04	Landfill Gas	0.04	0.00
	Mobile Vehicle Fueling	0.05	Mobile Vehicle Fueling	0.05	0.00
	Total	0.18	Total	0.18	0.00
Ethyl Chloride	Landfill Gas	0.01	Landfill Gas	0.01	0.00
Ethylene Dichloride					
Ethylidene Dichloride	Landfill Gas	0.02	Landfill Gas	0.02	0.00
Formaldehyde	Turbines	0.19	Turbines	0.19	0.00
	Diesel IC Engines	0.12	Diesel IC Engines	0.10	0.02
	Total	0.29	Total	0.29	0.00
Glycol Ethers	Coatings	0.46	Coatings	0.46	0.00
HCL	Diesel IC Engines	0.01	Diesel IC Engines	0.01	0.00

POLLUTANT* (name)	EMISSIONS		PRE-MODIFICATION		EMISSIONS CHANGE (tons per year)
	(tons per year)		EMISSIONS (tons per year)		
Hexane	Landfill Gas	0.05	Landfill Gas	0.05	0.00
	Mobile Vehicle Fueling	0.04	Mobile Vehicle Fueling	0.04	0.00
	Total	0.09	Total	0.09	0.00
Hydrazine	Scrubber	0.03	Scrubber	0.03	0.00
Lead					
Manganese	Turbines	0.01	--	0.01	0.00
Mercury					
Methanol	Coatings	0.09	Coatings	0.09	0.00
Methyl Chloride					
Methyl Chloroform	Landfill Gas	0.01	Landfill Gas	0.01	0.00
Methyl Hydrazine					
Methyl Isobutyl Ketone	Landfill Gas	0.02	Landfill Gas	0.02	0.00
Methylene Chloride	Landfill Gas	0.10	Landfill Gas	0.10	0.00
Naphthalene					
Nickel					
PAHs (excluding naphthalene)					
Propylene Dichloride					
Propylene Oxide	Turbines	0.01	Turbines	0.01	0.00
Selenium					
Styrene	Coatings	0.02	Coatings	0.02	0.00
1,1,2,2-Tetrachloroethane	Landfill Gas	0.02	Landfill Gas	0.02	0.00
Tetrachloroethylene	Landfill Gas	0.05	Landfill Gas	0.05	0.00
2,2,4-Trimethylpentane	Mobile Vehicle Fueling	0.16	Mobile Vehicle Fueling	0.16	0.00
Toluene	Coatings	1.40	Coatings	1.40	0.00
	Solvent Usage	0.37	Solvent Usage	0.37	0.00
	Landfill Gas	1.28	Landfill Gas	1.28	0.00
	Mobile Vehicle Fueling	0.27	Mobile Vehicle Fueling	0.27	0.00
	Boilers	0.01	--	0.01	0.00
	Turbines	0.03	Turbines	0.03	0.00
	Diesel IC Engines	0.01	Diesel IC Engines	0.01	0.00
	Total	3.37	Total	3.37	0.00
Trichloroethylene	Landfill Gas	0.03	Landfill Gas	0.03	0.00
Vinyl Chloride	Landfill Gas	0.04	Landfill Gas	0.04	0.00
Vinylidene Chloride					
Xylene	Turbines	0.02	Turbines	0.02	0.00
	Coatings	0.39	Coatings	0.39	0.00
	Solvent Usage	0.37	Solvent Usage	0.37	0.00
	Landfill Gas	0.10	Landfill Gas	0.10	0.00
	Mobile Vehicle Fueling	0.27	Mobile Vehicle Fueling	0.27	0.00
		Total	1.13	Total	1.13

* Emissions for all pollutants for which the source is major and for all NSPS/MACT-regulated air pollutants must be reported. HAP emissions must be

1.5 Certification Statement (Form 1302-M)

CERTIFICATION STATEMENT (Form 1302-M)

APCD: Santa Barbara County Air Pollution Control District	> APCD USE ONLY <
COMPANY NAME: Space Launch Delta 30	APCD IDS PROCESSING ID: SOURCE NAME: Vandenberg Space Force Base

Identify, by checking off below, the forms and attachments that are part of your application. If the application contains forms or attachments that are not identified below, please identify these attachments in the blank space provided below. Review the instructions if you are unsure of the forms and attachments that need to be included in a complete application.

Forms included with application

Stationary Source Summary Form

Total Stationary Source Emission Form

Compliance Plan Form

Compliance Plan Certification Form

Exempt Equipment Form

Certification Statement Form

List other forms or attachments

[] check here if additional forms listed on back

Attachments included with application

Description of Operating Scenarios

Sample emission calculations

Fugitive emission estimates

List of Applicable requirements

Discussion of units out of compliance with applicable federal requirements and, if required, submit a schedule of Compliance

Facility schematic showing emission points

NSR Permit

PSD Permit

Compliance Assurance monitoring protocols

Risk management verification per 112(r)

I certify under penalty of law, based on information and belief formed after reasonable inquiry, that the information contained in this application, composed of the forms and attachments identified above, are true, accurate, and complete.

I certify that I am the responsible official, as defined in SBCAPCD's Regulation XIII, Rule 1301 or USEPA's 40 CFR Part 70.

Robert A. Long

23 Mar 12

Signature of Responsible Official

Date

Print Name of Responsible Official: Colonel Robert A. Long

Title of Responsible Official and Company Name: Commander, Space Launch Delta 30

CERTIFICATION STATEMENT
(Form 1302-M continued)

APCD: Santa Barbara County Air Pollution Control District	➤ APCD USE ONLY ◀ APCD IDS PROCESSING ID:
COMPANY NAME: Space Launch Delta 30	SOURCE NAME: Vandenberg Space Force Base

List Other Forms or Attachments (cont.)



DEPARTMENT OF THE AIR FORCE
UNITED STATES SPACE FORCE
30TH SPACE WING

Risk Management Plan
Vandenberg Air Force Base

To the best of the undersigned's knowledge, information, and belief formed after reasonable inquiry, the information submitted is true, accurate, and complete. This update certifies that owner/operator has evaluated compliance with the provisions of Title 19, Chapter 4.5, Article 6 of the California Code of Regulation.

DAN ALDRIDGE
Aerospace Support Services Contract Program Manager
United Paradyne Corporation

Dan Aldridge 6-17-20
Operator Signature/Date

BEATRICE L. KEPHART
Chief, Installation Management Flight

Beatrice L. Kephart 6-17-2020
Certifier Signature/Date

1.6 List of Owners and Operators

Owners

- I. United States Space Force
- II. National Aeronautics and Space Administration
- III. Missile Defense Agency
- IV. National Reconnaissance Office
- V. Army Air Force Exchange Service

Operators

- I. United States Space Force
- II. RGNNext
- III. a.i. solutions
- IV. The Boeing Company
- V. EMCOR
- VI. Lockheed Martin Space
- VII. Northrop Grumman
- VIII. Army Air Force Exchange Service
- IX. Call Henry, Inc.
- X. Katmai Technical Services
- XI. United Paradyne Corporation
- XII. Valiant

Table 1-1. Equipment Owners/Operators

Owner	Operator	Operator ID	APCD Device ID	Building Number	Equipment
Army Air Force Exchange Service	Army Air Force Exchange Service	3415	384085	14400	FUEL DISPENSER(S)
Army Air Force Exchange Service	Army Air Force Exchange Service	646769	384082	14400	UNDERGROUND STORAGE TANK, 12000 GAL-GASOLINE
Army Air Force Exchange Service	Army Air Force Exchange Service	646770	384083	14400	UNDERGROUND STORAGE TANK, 12000 GAL-GASOLINE
Army Air Force Exchange Service	Army Air Force Exchange Service	646771	384084	14400	UNDERGROUND STORAGE TANK, 12000 GAL-GASOLINE
Missile Defense Agency	Northrop Grumman	3548	384076	1917	EMERGENCY GENERATOR-DIESEL-680HP
Missile Defense Agency	Northrop Grumman	3791	384077	1916	EMERGENCY GENERATOR-DIESEL-563HP
National Aeronautics and Space Administration	a.i. solutions	3872	111100	836	BOILER-NATURAL GAS-2.16 MMBTU/HR
National Aeronautics and Space Administration	a.i. solutions	3873	111101	836	BOILER-NATURAL GAS-2.16 MMBTU/HR
National Aeronautics and Space Administration	a.i. solutions	4130	384033	831	SPRAY GUN CLEANER
National Aeronautics and Space Administration	a.i. solutions	4174	384032	831	PAINT BOOTH
National Reconnaissance Office	Lockheed Martin Space	3540	384071	764	EMERGENCY GENERATOR-DIESEL-685HP
National Reconnaissance Office	Lockheed Martin Space	3814	384066	2520	EMERGENCY GENERATOR-DIESEL-1490HP
National Reconnaissance Office	Lockheed Martin Space	652248	386176	2520	BOILER-NATURAL GAS-4.6 MMBTU/HR
National Reconnaissance Office	Lockheed Martin Space	652249	386177	2520	BOILER-NATURAL GAS-4.6 MMBTU/HR
National Reconnaissance Office	Lockheed Martin Space	706728	391549	1731	PAINT BOOTH
National Reconnaissance Office	Lockheed Martin Space	708765	391550	1731	PAINT BOOTH HEATER-NATURAL GAS-1.2 MMBTU/HR
National Reconnaissance Office	Lockheed Martin Space	708766	391552	1731	SPRAY GUN CLEANER
National Reconnaissance Office	Lockheed Martin Space	711280	391955	3000	EMERGENCY GENERATOR-1490BHP
National Reconnaissance Office	Lockheed Martin Space	711384	391956	3000	EMERGENCY GENERATOR-1490BHP
National Reconnaissance Office	Lockheed Martin Space	715723	393451	2500	EMERGENCY GENERATOR-DIESEL-1490HP
National Reconnaissance Office	Lockheed Martin Space	715725	393452	2500	EMERGENCY GENERATOR-DIESEL-1490HP
National Reconnaissance Office	Lockheed Martin Space	731313	384072	Various Facilities	SURFACE COATING LINE ITEM
United States Space Force	30 CES/CEOE	3399	115291	9505	LANDFILL GAS
United States Space Force	30 CES/CEOFP	589	107038	10579	EMERGENCY GENERATOR-DIESEL-750HP
United States Space Force	30 CES/CEOFP	655	107143	2305	EMERGENCY PUMP-DIESEL-231HP
United States Space Force	30 CES/CEOFP	698	107004	10660	EMERGENCY GENERATOR-DIESEL-68HP
United States Space Force	30 CES/CEOFP	3050	107006	1559	EMERGENCY GENERATOR-DIESEL-534HP

Table 1-1. Equipment Owners/Operators

Owner	Operator	Operator ID	APCD Device ID	Building Number	Equipment
United States Space Force	30 CES/CEOFP	3183	107007	1762	EMERGENCY GENERATOR-DIESEL-50HP
United States Space Force	30 CES/CEOFP	3329	107088	1937	EMERGENCY GENERATOR-DIESEL-251HP
United States Space Force	30 CES/CEOFP	3397	107000	830	EMERGENCY GENERATOR-DIESEL-685HP
United States Space Force	30 CES/CEOFP	3411	107031	1561	EMERGENCY GENERATOR-DIESEL-449HP
United States Space Force	30 CES/CEOFP	3582	111125	23201	EMERGENCY GENERATOR-DIESEL-99HP
United States Space Force	30 CES/CEOFP	3626	108889	1604	EMERGENCY GENERATOR-DIESEL-490HP
United States Space Force	30 CES/CEOFP	3639	112689	1747	EMERGENCY GENERATOR-DIESEL-755HP
United States Space Force	30 CES/CEOFP	3906	111766	830	EMERGENCY GENERATOR-DIESEL-1490HP
United States Space Force	30 CES/CEOFP	3928	112255	12006	EMERGENCY GENERATOR-DIESEL-2922HP
United States Space Force	30 CES/CEOFP	3929	112256	12006	EMERGENCY GENERATOR-DIESEL-2922HP
United States Space Force	30 CES/CEOFP	4109	113916	1735	EMERGENCY GENERATOR-DIESEL-757HP
United States Space Force	30 CES/CEOFP	4116	113917	8195	EMERGENCY GENERATOR-DIESEL-364HP
United States Space Force	30 CES/CEOFP	4123	114377	8317	EMERGENCY GENERATOR-DIESEL-250HP
United States Space Force	30 CES/CEOFP	4268	114696	12000	EMERGENCY GENERATOR-DIESEL-1141 HP
United States Space Force	30 CES/CEOFP	652220	386257	23243	EMERGENCY GENERATOR-DIESEL-904HP
United States Space Force	30 CES/CEOFP	652224	386258	23243	EMERGENCY GENERATOR-DIESEL-904HP
United States Space Force	30 CES/CEOFP	652232	386166	11439	EMERGENCY GENERATOR-DIESEL-145 HP
United States Space Force	30 CES/CEOFP	652235	386163	661	EMERGENCY GENERATOR-DIESEL-757HP
United States Space Force	30 CES/CEOFP	698283	388931	968	EMERGENCY FIRE PUMP-DIESEL-175HP
United States Space Force	30 CES/CEOFP	698284	388930	968	EMERGENCY FIRE PUMP-DIESEL-175BHP
United States Space Force	30 CES/CEOFP	704948	391670	1581	EMERGENCY GENERATOR-DIESEL-69HP
United States Space Force	30 CES/CEOFP	706693	391526	23209	EMERGENCY FIRE PUMP-DIESEL-86 HP
United States Space Force	30 CES/CEOFP	706879	390424	10525	EMERGENCY GENERATOR-DIESEL-325HP
United States Space Force	30 CES/CEOFP	727237	393196	7000	EMERGENCY PUMP-DIESEL-1141HP
United States Space Force	30 CES/CEOFP	727238	393195	7000	EMERGENCY PUMP-DIESEL-1141HP
United States Space Force	30 CES/CEOFP	727244	393197	7000	EMERGENCY PUMP-DIESEL-1141HP
United States Space Force	30 CES/CEOFP	728205	394717	6601	EMERGENCY GENERATOR-DIESEL-464HP
United States Space Force	30 CES/CEOFP	730106	395011	13730	EMERGENCY GENERATOR-DIESEL-324HP
United States Space Force	30 CES/CEOFP	730454	395036	1748	EMERGENCY GENERATOR-DIESEL-173HP

Table 1-1. Equipment Owners/Operators

Owner	Operator	Operator ID	APCD Device ID	Building Number	Equipment
United States Space Force	30 CES/CEOIH	679373	388149	7015	BOILER-NATURAL GAS-1.5 MMBTU/HR
United States Space Force	30 CES/CEOIH	679380	388150	7015	BOILER-NATURAL GAS-1.5 MMBTU/HR
United States Space Force	30 CES/CEOIH	706477	391691	7000	BOILER-NATURAL GAS-2.5MMBTU/HR
United States Space Force	30 CES/CEOIH	706481	391690	7000	BOILER-NATURAL GAS-2.5MMBTU/HR
United States Space Force	30 LRS/LGRVM	1604	107930	10711	PAINT BOOTH
United States Space Force	30 LRS/LGRVM	3888	111748	10711	PAINT BOOTH HEATER-NATURAL GAS-3.7 MMBTU/HR
United States Space Force	30 LRS/LGRVM	645869	107932	10711	SPRAY GUN CLEANER
United States Space Force	30 OSS/OSOF	1603	105647	8190	PAINT BOOTH
United States Space Force	532 TRS/DOMF	3936	112253	7425	TRAINING GENERATOR-DIESEL-207HP
United States Space Force	583 MMXS/MXDPH	3907	110229	9320	ABRASIVE BLAST BOOTH
United States Space Force	583 MMXS/MXDPH	4096	113676	9327	PAINT BOOTH
United States Space Force	583 MMXS/MXDPH	703426	388390	9360	PAINT BOOTH
United States Space Force	583 MMXS/MXDPH	703427	388395	9360	PROCESS HEATER- NATURAL GAS-4.125MMBTU
United States Space Force	583 MMXS/MXDPH	703428	388392	9360	SPRAY GUN CLEANER
United States Space Force	Call Henry Inc.	564	107135	185	EMERGENCY GENERATOR-DIESEL-314HP
United States Space Force	Call Henry Inc.	567	107136	185	EMERGENCY GENERATOR-DIESEL-314HP
United States Space Force	Call Henry Inc.	643	106939	1764	EMERGENCY GENERATOR-DIESEL-78HP
United States Space Force	Call Henry Inc.	645	107141	1829	EMERGENCY FIRE PUMP-DIESEL-270HP
United States Space Force	Call Henry Inc.	649	107142	1829	EMERGENCY FIRE PUMP-DIESEL-270HP
United States Space Force	Call Henry Inc.	818	104867	525	PONY STARTER ENGINE A-DIESEL-160HP
United States Space Force	Call Henry Inc.	820	104868	525	PONY STARTER ENGINE B-DIESEL-160HP
United States Space Force	Call Henry Inc.	821	104869	525	PONY STARTER ENGINE C-DIESEL-160HP
United States Space Force	Call Henry Inc.	822	104870	525	PONY STARTER ENGINE D-DIESEL-160HP
United States Space Force	Call Henry Inc.	823	104871	525	PONY STARTER ENGINE E-DIESEL-160HP
United States Space Force	Call Henry Inc.	1224	641883	525	ABOVEGROUND STORAGE TANK-2500 GAL-DIESEL
United States Space Force	Call Henry Inc.	1226	641884	525	ABOVEGROUND STORAGE TANK-2500 GAL-DIESEL
United States Space Force	Call Henry Inc.	1228	641885	525	ABOVEGROUND STORAGE TANK-2500 GAL-DIESEL
United States Space Force	Call Henry Inc.	1229	641886	525	ABOVEGROUND STORAGE TANK-2500 GAL-DIESEL
United States Space Force	Call Henry Inc.	1230	641882	525	ABOVEGROUND STORAGE TANK-2500 GAL-DIESEL

Table 1-1. Equipment Owners/Operators

Owner	Operator	Operator ID	APCD Device ID	Building Number	Equipment
United States Space Force	Call Henry Inc.	1286	6080	525	TURBINE GEN A-NATURAL GAS-44.08MMBTU/HR
United States Space Force	Call Henry Inc.	1287	6081	525	TURBINE GEN B-NATURAL GAS-44.08MMBTU/HR
United States Space Force	Call Henry Inc.	1288	6082	525	TURBINE GEN C-NATURAL GAS-44.08MMBTU/HR
United States Space Force	Call Henry Inc.	1289	6083	525	TURBINE GEN D-NATURAL GAS-44.08MMBTU/HR
United States Space Force	Call Henry Inc.	1290	6084	525	TURBINE GEN E-NATURAL GAS-44.08MMBTU/HR
United States Space Force	Call Henry Inc.	3007	106942	425	EMERGENCY GENERATOR-DIESEL-210HP
United States Space Force	Call Henry Inc.	3008	106943	501	EMERGENCY GENERATOR-DIESEL-330HP
United States Space Force	Call Henry Inc.	3012	106944	906	EMERGENCY GENERATOR-DIESEL-750HP
United States Space Force	Call Henry Inc.	3549	384058	1962	EMERGENCY GENERATOR-DIESEL-317HP
United States Space Force	Call Henry Inc.	3550	384057	1964	EMERGENCY GENERATOR-DIESEL-317HP
United States Space Force	Call Henry Inc.	3551	384056	1971	EMERGENCY GENERATOR-DIESEL-317HP
United States Space Force	Call Henry Inc.	3552	384055	1972	EMERGENCY GENERATOR-DIESEL-317HP
United States Space Force	Call Henry Inc.	3573	386330	1768	EMERGENCY GENERATOR-DIESEL-750HP
United States Space Force	Call Henry Inc.	3642	109236	21203	EMERGENCY GENERATOR-DIESEL-755HP
United States Space Force	Call Henry Inc.	3747	110201	8401	EMERGENCY GENERATOR-DIESEL-755HP
United States Space Force	Call Henry Inc.	3790	384060	1965	EMERGENCY GENERATOR-DIESEL-364HP
United States Space Force	Call Henry Inc.	3815	110735	6510	EMERGENCY GENERATOR-DIESEL-399HP
United States Space Force	Call Henry Inc.	3921	111769	1919	EMERGENCY FIRE PUMP-DIESEL-67HP
United States Space Force	Call Henry Inc.	3927	111765	929	EMERGENCY GENERATOR-DIESEL-470HP
United States Space Force	Call Henry Inc.	3976	112688	383	EMERGENCY GENERATOR-DIESEL-364HP
United States Space Force	Call Henry Inc.	3980	386456	64	EMERGENCY GENERATOR-DIESEL-1490HP
United States Space Force	Call Henry Inc.	3996	112964	8510	BOILER-NATURAL GAS-2 MMBTU/HR
United States Space Force	Call Henry Inc.	3997	112965	8510	BOILER-NATURAL GAS-2 MMBTU/HR
United States Space Force	Call Henry Inc.	4005	114491	511	EMERGENCY GENERATOR-DIESEL-755HP
United States Space Force	Call Henry Inc.	4010	113280	Basewide	EMERGENCY GENERATOR-DIESEL-145HP
United States Space Force	Call Henry Inc.	4011	113281	Basewide	EMERGENCY GENERATOR-DIESEL-145HP
United States Space Force	Call Henry Inc.	4012	113282	Basewide	EMERGENCY GENERATOR-DIESEL-145HP
United States Space Force	Call Henry Inc.	4013	113283	Basewide	EMERGENCY GENERATOR-DIESEL-145HP
United States Space Force	Call Henry Inc.	4014	113284	Basewide	EMERGENCY GENERATOR-DIESEL-145HP

Table 1-1. Equipment Owners/Operators

Owner	Operator	Operator ID	APCD Device ID	Building Number	Equipment
United States Space Force	Call Henry Inc.	661867	386557	7025	EMERGENCY GENERATOR-DIESEL-2923HP
United States Space Force	Call Henry Inc.	678120	387721	1819	EMERGENCY GENERATOR-DIESEL-755 HP
United States Space Force	Call Henry Inc.	682870	388091	1819	BOILER-PROPANE-1.5 MMBTU/HR
United States Space Force	Call Henry Inc.	682871	388092	1819	BOILER-PROPANE-1.5 MMBTU/HR
United States Space Force	Call Henry Inc.	711413	391957	8401	EMERGENCY GENERATOR-DIESEL-755 BHP
United States Space Force	Call Henry Inc.	713135	391893	1639	EMERGENCY GENERATOR-DIESEL-768HP
United States Space Force	Call Henry Inc.	713136	391888	21150	EMERGENCY GENERATOR-DIESEL-382HP
United States Space Force	Call Henry Inc.	724465	393543	1959	EMERGENCY GENERATOR-DIESEL-218HP
United States Space Force	Call Henry Inc.	725445	393611	7011	EMERGENCY PUMP-DIESEL-1220HP
United States Space Force	Call Henry Inc.	727887	394799	8510	EMERGENCY GENERATOR-DIESEL-1490HP
United States Space Force	EMCOR	652230	393280	13850	BOILER-NATURAL GAS-2 MMBTU/HR
United States Space Force	EMCOR	652231	386175	13850	BOILER-NATURAL GAS-2 MMBTU/HR
United States Space Force	EMCOR	678768	388045	13850	EMERGENCY GENERATOR-DIESEL-464HP
United States Space Force	EMCOR	678837	388044	10314	EMERGENCY GENERATOR-DIESEL-145 HP
United States Space Force	Katmai Technical Services	434	109369	10726	FUEL DISPENSER - GASOLINE
United States Space Force	Katmai Technical Services	1987	109898	1706	FILL STAND-JETA/JP8
United States Space Force	Katmai Technical Services	3508	387622	10726	FUEL DISPENSER - E85-TANK 15
United States Space Force	Katmai Technical Services	645494	109896	1702	ABOVEGROUND STORAGE TANK-210000 GAL-JETA/JP8
United States Space Force	Katmai Technical Services	646763	109372	10726	UNDERGROUND STORAGE TANK-10000 GAL-GASOLINE
United States Space Force	Katmai Technical Services	646767	386792	10726	UNDERGROUND STORAGE TANK - 10000 GAL-E85-TANK 18
United States Space Force	Katmai Technical Services	646772	115219	10726	UNDERGROUND STORAGE TANK-10000 GAL-E85- TANK 15
United States Space Force	Katmai Technical Services	648578	109899	1706	FILL STAND-JETA/JP8
United States Space Force	Katmai Technical Services	675217	113960	1701	ABOVEGROUND STORAGE TANK-126000 GAL-RP1
United States Space Force	Katmai Technical Services	678228	386791	10726	FUEL DISPENSER-E85-TANK 18
United States Space Force	RGNext	1591	384028	9320	PAINT BOOTH #1
United States Space Force	RGNext	1592	384029	9320	PAINT BOOTH #2
United States Space Force	RGNext	1859	9890	9320	ABRASIVE BLAST BOOTH
United States Space Force	RGNext	4129	384030	9320	SPRAY GUN CLEANER

Table 1-1. Equipment Owners/Operators

Owner	Operator	Operator ID	APCD Device ID	Building Number	Equipment
United States Space Force	The Boeing Company	3417	113616	Basewide	MICROWAVE SCRUBBER-FVSS
United States Space Force	The Boeing Company	3418	113621	Basewide	MICROWAVE SCRUBBER-OVSS
United States Space Force	The Boeing Company	701500	384078	1594	EMERGENCY GENERATOR-DIESEL-293HP
United States Space Force	United Paradyne Corporation	1598	107926	875	PAINT BOOTH
United States Space Force	United Paradyne Corporation	4131	107928	875	SPRAY GUN CLEANER
United States Space Force	United Paradyne Corporation	4172	104655	976/977	FUEL (A-50) SCRUBBER-HSF
United States Space Force	United Paradyne Corporation	4173	104788	974/975	OXIDIZER (N2O4) SCRUBBER-HSF
United States Space Force	United States Space Force	685507	114277	Basewide	MISCELLANEOUS SOLVENT USE
United States Space Force	United States Space Force	685508	110309	Basewide	MISCELLANEOUS SOLVENT USE
United States Space Force	Valiant	1600	108716	2007	PAINT BOOTH
United States Space Force	Valiant	3599	107916	2007	ABRASIVE BLAST BOOTH
United States Space Force	Valiant	4134	108717	2007	SPRAY GUN CLEANER

2.0 IDENTIFICATION OF PERMITTED EMISSION UNITS

Permitted emission units are divided into four sections of this application. These are internal combustion engines, external combustion equipment, spray paint booths, and other permitted emission units. For each permitted internal combustion engine, Table 2-1 presents both emission unit descriptions such as the brake horsepower (bhp) and engine tier as well as operational information such as location and operating schedule. For each permitted external combustion equipment, Table 2-2 presents both emission unit descriptions such as the fuel and heat rating as well as operational information such as location and tune-up schedules. Information for permitted spray paint booths and their associated spray gun cleaners are presented in Table 2-3. Finally, Table 2-4 lists emission unit descriptions and operational information for the remaining permitted emission units that do not fit into the previous three categories.

Table 2-1. Permitted Prime Power/Emergency Standby Internal Combustion Engines

Building Number	Equipment Location	Device No.	Operator ID	Make	Model	Rating (bhp)	Fuel	Tier	EPA Family Name	Daily Hours	Annual Hours	Category	Year of Installation	Current Permit	Historical Permit
Prime Power Internal Combustion Engines															
525	525 Coast Rd	104867	818	Deutz	BF6L913	160	Diesel	0	NA	NA	20	Pony Starter Engine	1983	13968	6117-R7
525	525 Coast Rd	104868	820	Deutz	BF6L913	160	Diesel	0	NA	NA	20	Pony Starter Engine	1983	13968	6117-R7
525	525 Coast Rd	104869	821	Deutz	BF6L913	160	Diesel	0	NA	NA	20	Pony Starter Engine	1983	13968	6117-R7
525	525 Coast Rd	104870	822	Deutz	BF6L913	160	Diesel	0	NA	NA	20	Pony Starter Engine	1983	13968	6117-R7
525	525 Coast Rd	104871	823	Deutz	BF6L913	160	Diesel	0	NA	NA	20	Pony Starter Engine	1983	13968	6117-R7
525	525 Coast Rd	006080	1286	Allison (GM)	501-KB	4090	NG	NA	NA	24	2326.4	Facility Power	1990	13968	6117-R7
525	525 Coast Rd	006081	1287	Allison (GM)	501-KB	4090	NG	NA	NA	24	2326.4	Facility Power	1990	13968	6117-R7
525	525 Coast Rd	006082	1288	Allison (GM)	501-KB	4090	NG	NA	NA	24	2326.4	Facility Power	1990	13968	6117-R7
525	525 Coast Rd	006083	1289	Allison (GM)	501-KB	4090	NG	NA	NA	24	2326.4	Facility Power	1990	13968	6117-R7
525	525 Coast Rd	006084	1290	Allison (GM)	501-KB	4090	NG	NA	NA	24	2326.4	Facility Power	1990	13968	6117-R7
7425	386 10th St	112253	3936	Cummins	6CT8.3-G2	207	Diesel	I	NA	7.5	600	Training Engine	2009	13968	12922
Emergency Standby Internal Combustion Engines															
NA	Various Locations	113280	4010	Cummins	QSB5-G3 NR3	145	Diesel	III	9CEXL0275AAG	8	50	Emergency Stand-by Generator	2011	13968	13376
NA	Various Locations	113281	4011	Cummins	QSB5-G3 NR3	145	Diesel	III	9CEXL0275AAG	8	50	Emergency Stand-by Generator	2011	13968	13376
NA	Various Locations	113282	4012	Cummins	QSB5-G3 NR3	145	Diesel	III	9CEXL0275AAG	8	50	Emergency Stand-by Generator	2011	13968	13376
NA	Various Locations	113283	4013	Cummins	QSB5-G3 NR3	145	Diesel	III	9CEXL0275AAG	8	50	Emergency Stand-by Generator	2011	13968	13376
NA	Various Locations	113284	4014	Cummins	QSB5-G3 NR3	145	Diesel	III	9CEXL0275AAG	8	50	Emergency Stand-by Generator	2011	13968	13376
64	Oak Mountain	386456	3980	Cummins	QST30-G5	1490	Diesel	II	ACEXL030.AAD	8	50	Emergency Stand-by Generator	2010	13968	13271
185	185 Honda Ridge Rd	107135	564	Caterpillar	3306B	314	Diesel	0	NA	24	30	Emergency Stand-by Generator	1989	13968	11673-R1
185	185 Honda Ridge Rd	107136	567	Caterpillar	3306B	314	Diesel	0	NA	24	30	Emergency Stand-by Generator	1989	13968	11673-R1
383	383 Lunar Rd	112688	3976	Cummins	QSL9-G2 NR3	364	Diesel	III	9CEXL0540AAB	24	50	Emergency Stand-by Generator	2009	13968	13223
425	425 Arguello Rd	106942	3007	Detroit Diesel	10437305	210	Diesel	0	NA	20	20	Emergency Stand-by Generator	1994	13968	11672-R1
501	501 Perry Rd	106943	3008	Detroit Diesel	10637305	330	Diesel	0	NA	20	20	Emergency Stand-by Generator	1994	13968	11672-R1
511	511 CDT Access Rd	114491	4005	Cummins	QSX15-G9-NR2	755	Diesel	II	ACEXL015.AAJ	16.5	100	Command Transmitter E/S	2011	13968	13847
661	661 Santa Ynez Rd	386163	4320	Volvo	TAD1641GE	757	Diesel	II	CVPXL16.1ACB	3	50	Emergency Stand-by Generator	2013	13968	14027
764	764 Nappa Rd	384071	3540	Caterpillar	3456 DITA	685	Diesel	II	3CPXL15.8ESK	24	50	Emergency Stand-by Generator	2004	13968	11675-R1
830	830 Lompoc St	107000	3397	Cummins	KTA19-G3	685	Diesel	I	NA	20	20	Emergency Stand-by Generator	2002	13968	11668-R1
830	830 Lompoc St	111766	3906	Cummins	QST30-G5	1490	Diesel	II	8CEXL030.AAD	8	50	Emergency Stand-by Generator	2009	13968	12793

Table 2-1. Permitted Prime Power/Emergency Standby Internal Combustion Engines

Building Number	Equipment Location	Device No.	Operator ID	Make	Model	Rating (bhp)	Fuel	Tier	EPA Family Name	Daily Hours	Annual Hours	Category	Year of Installation	Current Permit	Historical Permit
906	906 Mesa Rd	106944	3012	Detroit Diesel	71237406	750	Diesel	0	NA	20	20	Emergency Stand-by Generator	1993	13968	11672-R1
929	929 Wade Rd	111765	3927	Cummins	QSM11-G4-NR3	470	Diesel	III	8CEXL0661AAH	24	100	Command Transmitter E/S	2009	13968	12843
968	968 Mesa Rd	388931	698283	John Deere	4045HFC28	175	Diesel	III	FJDXL06.8120	24	50	Emergency Fire Water Pump	2016	13968	14782
968	968 Mesa Rd	388930	698284	John Deere	4045HFC28	175	Diesel	III	FJDXL06.8120	24	50	Emergency Fire Water Pump	2016	13968	14782
1559	1559 Tonto Rd	107006	3050	Caterpillar	3406B	534	Diesel	0	NA	20	20	Emergency Stand-by Generator	1991	13968	11668-R1
1561	1561 Tonto Rd	107031	3411	Caterpillar	3406	449	Diesel	0	NA	20	20	Emergency Stand-by Generator	2002	13968	11668-R1
1581	1581 Tangair Rd	391670	704948	Cummins	4BT3.3G5	69	Diesel	III	GCEXL03.3BAA	24	50	Emergency Stand-by Generator	2019	13968	15043
1594	1594 Tangair Rd	384078	4039	John Deere	6068HF485	315	Diesel	III	7JDXL06.8101	8	50	Emergency Stand-by Generator	2011	13968	13405
1604	1604 Tangair Rd	108889	3626	Detroit Diesel	6063-HV35	490	Diesel	III	7DDXL14.0VLD	8	50	Emergency Stand-by Generator	2007	13968	12133-R1
1639	1639 Tangair Rd	391893	713135	Volvo	TAD1641GE	768	Diesel	II	HVPXL16.1ACB	15	50	Emergency Stand-by Generator	2019	15142	15142
1735	325 Airfield Rd	113916	4109	Volvo	TAD1641GE	757	Diesel	II	BVPXL16.1ACB	8	50	Emergency Stand-by Generator	2011	13968	13672
1747	390 Airfield Rd	112689	3639	Cummins	QSX15-G9	755	Diesel	II	7CEXL015.AAB	24	50	Emergency Stand-by Generator	2010	13968	13224
1748	1748 Airfield Rd	395036	730454	Cummins	QSB5-G13	173	Diesel	III	MCEXL0275AAK	23	50	Emergency Stand-by Generator	2021	15632	15632
1762	1762 13th St	107007	3183	Cummins	6A3.4-G1	50	Diesel	0	NA	20	20	Emergency Stand-by Generator	1992	13968	11668-R1
1764	1764 13th St	106939	643	Caterpillar	D330	78	Diesel	0	NA	20	20	Emergency Stand-by Generator	1990	13968	11672-R1
1768	1768 Cross Rd	386330	3573	Cummins	QSX15-G9 NR2	750	Diesel	II	4CEXL015.AAB	24	50	Emergency Stand-by Generator	2004	13968	11678-R1
1819	1819 New South Rd	387721	678120	Cummins	QSX15-G9	755	Diesel	II	ECEXL015.AAJ	16	50	Emergency Stand-by Generator	2015	13968	14574
1829	1829 Rhea Rd	107141	645	Caterpillar	3208	270	Diesel	0	NA	NA	NA	Emergency Fire Water Pump	1993	13968	12810
1829	1829 Rhea Rd	107142	649	Caterpillar	3208	270	Diesel	0	NA	NA	NA	Emergency Fire Water Pump	1993	13968	12810
1916	1916 El Rancho Rd	384077	3791	Caterpillar	C15	563	Diesel	III	7CPXL15.2ESK	24	50	Emergency Stand-by Generator	2008	13968	12419
1917	1917 El Rancho Rd	384076	3548	Caterpillar	3456	680	Diesel	II	4CPXL15.8ESK	24	50	Emergency Stand-by Generator	2004	13968	11680-R1
1919	1919 El Rancho Rd	111769	3921	John Deere	4045DF120	67	Diesel	II	NA	NA	NA	Emergency Fire Water Pump	2008	13968	12820-R1
1937	1937 El Rancho Rd	107088	3329	John Deere	6081AF001C	251	Diesel	I	1JDXL08.1008	24	30	Emergency Stand-by Generator	2001	13968	11674-R1
1959	1959 Globe Road	393543	724465	Volvo	TAD570-72VE	218	Diesel	IV	KVPXL05.1CJA	8	50	Emergency Stand-by Generator	2019	15363	15363
1962	1962 Tow Rd	384058	3549	Cummins	6CTAA8.3G3	317	Diesel	II	4CEXL0505ACB	24	50	Emergency Stand-by Generator	2004	13968	11677-R1
1964	1964 Sercho Rd	384057	3550	Cummins	6CTAA8.3G3	317	Diesel	II	4CEXL0505ACB	24	50	Emergency Stand-by Generator	2004	13968	11677-R1
1965	1965 Parquee Rd	384060	3790	Cummins	QSL9-G2 NR3	364	Diesel	III	7CEXL0540.AAB	8	50	Emergency Stand-by Generator	2008	13968	12356
1971	1971 Mina Rd	384056	3551	Cummins	6CTAA8.3G3	317	Diesel	II	4CEXL0505ACB	24	50	Emergency Stand-by Generator	2004	13968	11677-R1
1972	1972 Mina Rd	384055	3552	Cummins	6CTAA8.3G3	317	Diesel	II	4CEXL0505ACB	24	50	Emergency Stand-by Generator	2004	13968	11677-R1

Table 2-1. Permitted Prime Power/Emergency Standby Internal Combustion Engines

Building Number	Equipment Location	Device No.	Operator ID	Make	Model	Rating (bhp)	Fuel	Tier	EPA Family Name	Daily Hours	Annual Hours	Category	Year of Installation	Current Permit	Historical Permit
2305	2305 33rd St	107143	655	Caterpillar	3306DIT	231	Diesel	0	NA	NA	NA	Emergency Fire Water Pump	1994	13968	11671-R1
2500	2500 Arizona Ave	393451	715723	Cummins	QST30-G5 NR2	1490	Diesel	II	KCEXL030.AAD	8	50	Emergency Stand-by Generator	2019	15325	15325
2500	2500 Arizona Ave	393452	715725	Cummins	QST30-G5 NR2	1490	Diesel	II	KCEXL030.AAD	8	50	Emergency Stand-by Generator	2019	15325	15325
2520	2520 Nevada Ave	384066	3814	Cummins	QST30-G5	1490	Diesel	II	8CEXL030.AAD	8	50	Emergency Stand-by Generator	2008	13968	12455
3000	3000 29th St	391955	711280	Cummins	QST30-G5 NR2	1490	Diesel	II	JCEXL030.AAD	8	50	Emergency Stand-by Generator	2018	13968	15175
3000	3000 29th St	391956	711384	Cummins	QST30-G5 NR2	1490	Diesel	II	JCEXL030.AAD	8	50	Emergency Stand-by Generator	2018	13968	15175
6510	85 13th St	110735	3815	Cummins	QSL9-G3-NR3	399	Diesel	III	8CEXL0540AAB	24	50	Emergency Stand-by Generator	2008	13968	12454
6601	1785 Utah Avenue	394717	728205	Cummins	QSL9-G7	464	Diesel	III	LCEXL0540AAB	24	50	Emergency Stand-by Generator	2020	15434	15434
7000	822 13th St	393196	727237	Caterpillar	C27	1141	Diesel	II	JCPXL27.ONZS	3.5	50	Emergency Stand-by Generator	2019	15222	15222
7000	822 13th St	393195	727238	Caterpillar	C27	1141	Diesel	II	JCPXL27.ONZS	3.5	50	Emergency Stand-by Generator	2019	15222	15222
7000	822 13th St	393197	727244	Caterpillar	C27	1141	Diesel	II	JCPXL27.ONZS	3.5	50	Emergency Stand-by Generator	2019	15222	15222
7011	826 13 th St	393611	725445	Cummins	QSK23-G7	1220	Diesel	II	LCEXL023.AAB	9	50	Emergency Stand-by Generator	2020	15381	15381
7025	1602 California	386557	661867	Mitsubishi	S16R-Y2PTAW2-1	2923	Diesel	II	DMVXL65.4BBB	4	50	Emergency Stand-by Generator	2013	13968	14292
8195	1522 Nevada Ave	113917	4116	Cummins	QSL9-G2 NR3	364	Diesel	III	BCEXL0540AAB	8	50	Emergency Stand-by Generator	2011	13968	13681
8317	344 8th Street	114377	4123	Cummins	QSB7-G3 NR3	250	Diesel	III	BCEXL0409AAB	8.0	50.0	Emergency Stand-by Generator	2012	13968	13754
8401	1521 Utah Ave	110201	3747	Cummins	QSX15-G9	755	Diesel	II	7CEXL015.AAB	3	50	Emergency Stand-by Generator	2007	13968	12330-R1
8401	1521 Utah Ave	391957	711413	Cummins	QSX15-G9	755	Diesel	II	JCEXL015.AAJ	15	50	Emergency Stand-by Generator	2018	13968	15181
8510	1521 Iceland Ave	394799	727887	Cummins	QST30-G5 NR2	1490	Diesel	II	KCEXL030.AAD	8	50	Emergency Stand-by Generator	2020	15490	15490
10314	1206 California Blvd	388044	678837	Cummins	QSB5-G3 NR3	145	Diesel	III	FCEXL0275AAG	8	50	Emergency Stand-by Generator	2015	13968	14653
10525	1819 New South Rd	390424	706879	Cummins	QSB7-G5 NR3	325	Diesel	III	GCEXL0409AAD	24	50	Emergency Stand-by Generator	2017	13968	14926
10579	747 Nebraska Ave	107038	589	Cummins	KTTA19-G2	750	Diesel	0	NA	20	20	Emergency Stand-by Generator	1992	13968	11668-R1
10660	1160 New Mexico Ave	107004	698	Onan	L634T-I/10148C	68	Diesel	0	NA	20	20	Emergency Stand-by Generator	1988	13968	11668-R1
11439	1172 Iceland Ave	386166	4379	Cummins	QSB5-G3 NR3	145	Diesel	III	BCEXL0275AAG	3	50	Emergency Stand-by Generator	2015	13968	14073
12000	867 Washington Ave	114696	4268	Caterpillar	C27	1,141	Diesel	II	CCPXL27.ONZS	8	50	Emergency Stand-by Generator	2012	13968	13886
12006	865 Washington Ave	112255	3928	Cummins	QSK60-G6 NR2	2922	Diesel	II	8CEXL060.AAD	24	50	Emergency Stand-by Generator	2009	13968	12916
12006	865 Washington Ave	112256	3929	Cummins	QSK60-G6 NR2	2922	Diesel	II	8CEXL060.AAD	24	50	Emergency Stand-by Generator	2009	13968	12916
13730	127 Colorado Ave	395011	730106	Cummins	QSB7-G5 NR3	324	Diesel	III	LCEXL0409AAD	12	50	Emergency Stand-by Generator	2021	15599	15599
13850	388 South Dakota Ave	388045	678768	Cummins	QSL9-G7	464	Diesel	III	ECEXL0540AAB	8	50	Emergency Stand-by Generator	2015	13968	14654
21150	150 Cotar Rd	391888	713136	Volvo	TAD1350GE	382	Diesel	III	HVPXL12.8BCA	24	50	Emergency Stand-by Generator	2018	13968	15141

Table 2-1. Permitted Prime Power/Emergency Standby Internal Combustion Engines

Building Number	Equipment Location	Device No.	Operator ID	Make	Model	Rating (bhp)	Fuel	Tier	EPA Family Name	Daily Hours	Annual Hours	Category	Year of Installation	Current Permit	Historical Permit
21203	203 Firefighter Rd	109236	3642	Cummins	QSX15-G9	755	Diesel	II	7CEXL015.AAB	8	100	Command Transmitter E/S	2007	13968	12205
23201	201 Bishop Rd	111125	3582	Cummins	4BT3.9-G4	99	Diesel	I	3CEXL0239AFA	24	30	Emergency Stand-by Generator	2004	13968	11679-R1
23209	209 Bishop Rd	391526	706693	John Deere	4045HF280G	86	Diesel	III	GJDXL04.5141	NA	NA	Emergency Fire Water Pump	2017	13968	14969
23243	23243 Bishop Rd	386257	4375	Volvo	TWD1643GE	904	Diesel	II	DVPXL16.1ACW	6	50	Emergency Stand-by Generator	2013	13968	14104
23243	23243 Bishop Rd	386258	4376	Volvo	TWD1643GE	904	Diesel	II	DVPXL16.1ACW	6	50	Emergency Stand-by Generator	2013	13968	14104

NA = Not Applicable

NG = Natural Gas

Table 2-2. Permitted External Combustion Equipment

Building Number	Equipment Location	Device No.	Operator ID	Make	Model	Heat Rating (MMBtu/hr)	Fuel	Tune-Up	Fuel Use Monitoring	Low Use Expn	NOx (ppm)	CO (ppm)	Basis (Rule)	Source Test	Anniversary Date	Year of Install	Current Permit	Historical Permit
836	836 Lompoc St	111100	3872	Parker Boiler	T2160L	2.16	NG	Biannual	Shared	No	30	400	361	No	May/Nov	2008	13968	12640
836	836 Lompoc St	111101	3873	Parker Boiler	T2160L	2.16	NG	Biannual	Shared	No	30	400	361	No	May/Nov	2008	13968	12640
1819	1819 New South Rd	388091	682870	Raypak	H7-1503	1.5	LPG	Annual	Shared	No	30	400	360	No	Jun	2015	13968	14566
1819	1819 New South Rd	388092	682871	Raypak	H7-1503	1.5	LPG	Annual	Shared	No	30	400	360	No	Jun	2015	13968	14566
2520	2520 Nevada Ave	386176	4371	Parker Boiler Co.	T-4600LR	4.6	NG	Biannual	Shared	No	30	400	361	No	Mar/Sep	2013	13968	14081
2520	2520 Nevada Ave	386177	4372	Parker Boiler Co.	T-4600LR	4.6	NG	Biannual	Shared	No	30	400	361	No	Mar/Sep	2013	13968	14081
7000	816 13th St	391691	706477	Aerco	BMK 2500	2.5	NG	Biannual	Shared	No	30	400	361	No	Nov	2018	13968	15065
7000	816 13th St	391690	706481	Aerco	BMK 2500	2.5	NG	Biannual	Shared	No	30	400	361	No	Nov	2018	13968	15065
7015	806 13th St	388149	679373	Lochinvar	FBN1500	1.5	NG	Annual	Shared	No	30	400	360	No	Oct	2015	13968	14602
7015	806 13th St	388150	679380	Lochinvar	FBN1500	1.5	NG	Annual	Shared	No	30	400	360	No	Oct	2015	13968	14602
7425	386 10th St	111731	1052	Ajax	WGB-2250-D	2.25	NG	None	Dedicated	No	NA	NA	361	No	NA	1983	13968	12665-R1
8510	1521 Iceland Ave	112964	3996	Patterson-Kelley	N2000-MFD	2.0	NG	Annual	Shared	No	30	400	360	No	Mar	2010	13968	13329
8510	1521 Iceland Ave	112965	3997	Patterson-Kelley	N2000-MFD	2.0	NG	Annual	Shared	No	30	400	360	No	Mar	2010	13968	13329
9360	1318 New Mexico Ave	388395	703427	Midco	HMA-2	4.125	NG	None	Dedicated	No	NA	NA	361	No	NA	2016	13968	14683
10711	433 Herado Ave	111748	3888	Hastings Industries	SBD-227-32-3700	3.7	NG	None	No Meter	No	NA	NA	361	No	NA	1992	13968	12672-R1
13850	338 South Dakota Ave	393280	4369	Patterson-Kelley/Harsco	MACH C2000H	2.0	NG	Annual	Shared	No	30	400	360	No	Jun	2013 Burner 2019	13968	15228
13850	338 South Dakota Ave	386175	4370	Patterson-Kelley/Harsco	MACH C2000H	2.0	NG	Annual	Shared	No	30	400	360	No	Jun	2013	13968	14082

NA = Not Applicable

NG = Natural Gas

LPG = Liquefied Propane Gas

Table 2-3. Permitted Spray Paint Booths

Building Number	Equipment Location	Device No.	Operator ID	Booth Filter Type	Spray Gun Cleaner?	Booth Heater	Emissions		Year of Install	Current Permit	Historical Permit
							lb/day	ton/year			
831	831 Clark St	384032	4174	Overspray Filters	Yes - OID 4130	No	11.2	0.55	1991	13968	8350-R6
875	875 Sweeney Rd	107926	1598	Overspray Filters	Yes - OID 4131	No	5.61	0.73	1991	13968	8580-R5
1731	320 Airfield	391549	706728	Dry Overspray Filters	Yes- OID 708766	Yes- OID 708765	2.3	0.025	2019	13968	14968
2007	2007 Astral Rd	108716	1600	Dry Overspray Filters	Yes - OID 4134	No	7.76	1.01	2013	13968	8630-R7
8190	1580 Nevada Ave	105647	1603	Overspray Filters	No	Yes - OID 4106	9.36	1.21	1993	13968	9088-R4
9320	334 6th St	384028	1591	Water Wash Overspray System	Yes - OID 4129	No	2.4	0.31	1983	13968	8629-R6
9320	334 6th St	384029	1592	Overspray Filters	Yes - OID 4129	No	2.4	0.31	1983	13968	8629-R6
9327	1346 New Mexico Ave	113676	4096	Rear Exhaust Plenum	Yes - OID 4101	Yes	9.36	1.22	2011	13968	13493
9360	1318 New Mexico Ave	388390	703426	Three Stage HEPA Filter	Yes- OID 703428	Yes- OID 703427			2016	13968	14683
10711	433 Herado Ave	107930	1604	Dry Overspray Filters	Yes - OID 4374	Yes - OID 3888	11.26	1.47	1993	13968	8932-R5
Various NRO/Lockheed Martin Facilities	Various Locations	384072	731313	Not Applicable	Not Applicable	Not Applicable	7.6	0.49	Not Applicable	13968	15283

OID = Operator ID

Table 2-4. Other Permitted Operations

Building Number	Equipment Location	Device No.	Operator ID	Device Type	Hourly Limit	Daily Limit	Quarterly Limit	Annual Limit	Units	Year of Installation	Current Permit	Historical Permit
NA	Various Locations	113616	3417	Microwave Reactor System for Hypergolic Fuel Vapors	NA	NA	NA	2	event	2006	13968	13537
NA	Various Locations	113621	3418	Microwave Reactor System for Hypergolic Oxidizer Vapors	NA	NA	NA	2	event	2006	13968	13537
974/975	974 Mesa Rd	104779	4166	28,000 Gallon Nitrogen Tetroxide AST	NA	NA	NA	NA	gallon	2001	13968	7988-R5
974/975	974 Mesa Rd	104780	4167	28,000 Gallon Nitrogen Tetroxide AST	NA	NA	NA	NA	gallon	2001	13968	7988-R5
974/975	974 Mesa Rd	104781	4168	28,000 Gallon Nitrogen Tetroxide AST	NA	NA	NA	NA	gallon	2001	13968	7988-R5
974/975	974 Mesa Rd	104782	4169	28,000 Gallon Nitrogen Tetroxide AST	NA	NA	NA	NA	gallon	2001	13968	7988-R5
974/975	974 Mesa Rd	104783	4170	28,000 Gallon Nitrogen Tetroxide AST	NA	NA	NA	NA	gallon	2001	13968	7988-R5
974/975	974 Mesa Rd	104784	4171	28,000 Gallon Nitrogen Tetroxide AST	NA	NA	NA	NA	gallon	2001	13968	7988-R5
974/975	974 Mesa Rd	104788	4173	Scrubber (OVSS); Nitrogen Tetroxide	NA	62.16	NA	440	lbs.	1991	13968	7988-R5
976/977	976 Mesa Rd	104630	AST01	28,000 Gallon Aerozine50 AST	NA	NA	NA	NA	gallon	2001	13968	7987-R5
976/977	976 Mesa Rd	104631	AST02	28,000 Gallon Aerozine50 AST	NA	NA	NA	NA	gallon	2001	13968	7987-R5
976/977	976 Mesa Rd	104632	AST03	28,000 Gallon Aerozine50 AST	NA	NA	NA	NA	gallon	2001	13968	7987-R5
976/977	976 Mesa Rd	104633	AST04	28,000 Gallon Aerozine50 AST	NA	NA	NA	NA	gallon	2001	13968	7987-R5
976/977	976 Mesa Rd	104634	AST05	28,000 Gallon Aerozine50 AST	NA	NA	NA	NA	gallon	2001	13968	7987-R5
976/977	976 Mesa Rd	104635	AST06	28,000 Gallon Aerozine50 AST	NA	NA	NA	NA	gallon	2001	13968	7987-R5
976/977	976 Mesa Rd	104655	4172	Scrubber (FVSS); Aerozine-50 Fuel	NA	23.04	NA	100	lbs.	1991	13968	7987-R5
1705	173 Airfield Rd	109898	1987	Tanker Truck/Trailer Unloading Equipment; Jet-A, AST#1703	NA	NA	NA	2,040,000	gallon	1992	13656-01	8688-R4
1705	173 Airfield Rd	109899	648578	Tanker Truck/Trailer Loading Equipment; Jet-A, AST#1702	NA	7.20	NA	0.20	lbs.	1992	13656-01	8688-R4
1705	173 Airfield Road	109896	1240	210,000 Gallon JET A AST #1702	NA	NA	NA	NA	gallon	1992	13656-01	8688-R4
1705	173 Airfield Road	109897	1238	420,000 Gallon JET A AST #1703	NA	NA	NA	NA	gallon	1982	13656-01	8688-R4
2007	2007 Astral Rd	107916	3599	Abrasive Blasting Operations	NA	2	NA	500	ton	2008	13968	12155
NA	Various Locations	114277	4384	Miscellaneous Solvent Usage	NA	24	NA	6336	lbs.	<1999	13968	10156-R2
NA	Various Locations	110309	4385	Miscellaneous Solvent Usage	NA	22.73	500	2000	lbs.	2004	13968	11143-R1
9320	334 6th St	009890	1859	Abrasive Blasting Operations	NA	2.4	NA	250	ton	Unknown	13968	10867-R2
9320	334 6th St	110229	3907	Abrasive Blasting Operations	NA	6.64	NA	1726	ton	2008	13968	12346
9505	180 Landfill Rd	115291	3399	Landfill Gas	NA	NA	NA	NA	NA	1941	13968	NA
10726	442 Washington Ave	109369	434	Military Gasoline Dispensing Facility	NA	NA	NA	1,200,000	gallon	Unknown	13968	12233

Table 2-4. Other Permitted Operations

Building Number	Equipment Location	Device No.	Operator ID	Device Type	Hourly Limit	Daily Limit	Quarterly Limit	Annual Limit	Units	Year of Installation	Current Permit	Historical Permit
10726	442 Washington Ave	386791	678228	E-85 GDF with Phase 1 VRS	NA	NA	NA	1,200,000	gallon	2017	13968	14246
10726	442 Washington Ave	387622	3508	E-85 GDF with Phase 1 VRS	NA	NA	NA	1,200,000	gallon	2015	13968	13139
10726	442 Washington Ave	109372	UST01	10,000 Gallon Tank #16 Gasoline UST	NA	NA	NA	NA	gallon	2014	13968	13998
10726	442 Washington Ave	115219	3507	10,000 Gallon Tank #15 E85 UST	NA	NA	NA	NA	gallon	2014	13968	13872
10726	442 Washington Ave	386792	UST04	10,000 Gallon Tank #18 E85 UST	NA	NA	NA	NA	gallon	2017	14246	14246
14400	1107 Utah Ave	384085	3415	AAFES Gasoline Dispensing Facility	NA	NA	NA	4,800,000	gallon	2007	13968	10791
14400	1107 Utah Ave	384082	3412	12,000 Gallon Gasoline UST	NA	NA	NA	NA	gallon	2007	13968	10791
14400	1107 Utah Ave	384083	3413	12,000 Gallon Gasoline UST	NA	NA	NA	NA	gallon	2007	13968	10791
14400	1107 Utah Ave	384084	3414	12,000 Gallon Gasoline UST	NA	NA	NA	NA	gallon	2007	13968	10791

NA = Not Applicable

3.0 IDENTIFICATION OF PERMIT-EXEMPT EMISSION UNITS

Permit-exempt emission units are divided into three sections of this application. These are internal combustion engines, external combustion equipment, and other permit-exempt emission units. For each permit-exempt internal combustion engine, Table 3-1 presents the emission unit descriptions such as the bhp and engine tier, and operational information such as location and operating schedule, and the basis for exemption. For each permit-exempt external combustion equipment Table 3-2 presents emission unit descriptions such as the fuel and heat rating, operational information such as location, and the basis for exemption. Finally, Table 3-3 lists other permit-exempt emission unit descriptions and operational information for the remaining units that do not fit into the previous two categories. Appendix A lists the emissions and corresponding calculations for each permit-exempt emission unit.

Table 3-1. Permit Exempt Internal Combustion Engines

Building Number	Equipment Location	Operator ID	Make	Model	EPA Family Name/Tier	Rating (bhp)	Fuel	Category	Basis for Exemption
Stationary									
51	51 Station Rd	3063	Ford	LSG87516005A	NA	104	LPG	Emergency Stand-by Generator	202.F.1.d
475	475 Comm Ave	3083	Cummins	GTA 28	NA	500	LPG	Emergency Stand-by Generator	202.F.1.d
490	490 Arguello Rd	3914	Kubota	F2803-BG-ES02	0	44.8	Diesel	Emergency Stand-by Generator	202.F.1.e
518	518 CDT Access Rd	3603	Kubota	F2803-BG-ES	4KBXL02.8BCC/II	44.8	Diesel	Emergency Stand-by Generator	202.F.1.e
752	759 Napa Rd	3054	Kubota	F2803	0	42	Diesel	Emergency Stand-by Generator	202.F.1.e
752	759 Napa Rd	3932	Kubota	F2803-BG-ES	5KBXL02.8BCC/II	42	Diesel	Emergency Stand-by Generator	202.F.1.e
799	799 Coast Rd	703337	Kohler	KDI 1903TCR/G18C	NA	49	Diesel	Emergency Stand-by Generator	202.F.1.e
865	865 Arguello Rd	3072	Ford	CSG-6491-6005-A	NA	77	LPG	Emergency Stand-by Generator	202.F.1.d
866	866 Arguello Rd	3278	Lister	LPWG3	NA	20	LPG	Emergency Stand-by Generator	202.F.1.d
964	964 Mesa Rd	677064	John Deere	4024TF281D	DJDXL02.4215/I-IV	45	Diesel	Emergency Stand-by Generator	202.F.1.e
966	966 Mesa Rd	677065	John Deere	4024TF281D	DJDXL02.4215/I-IV	45	Diesel	Emergency Stand-by Generator	202.F.1.e
1501	1501 Tangair Rd	4177	John Deere	3029DF120	0	47	Diesel	Emergency Stand-by Generator	202.F.1.e
1524	Off Tangier and Shuttle Access Rds	3190	Kubota	D1703-BG-ES01	6KBXL02.2FCC	27	Diesel	Emergency Stand-by Generator	202.F.1.e
1530	1530 Rollo Rd	4067	Cummins	GM3.0 L	NA	55	LPG	Emergency Stand-by Generator	202.F.1.d
1577	1577 May Rd	632	Ford	CSG-6491-6005A	NA	77	LPG	Emergency Stand-by Generator	202.F.1.d
1579	1579 June Rd	635	Hercules	D2300X308	0	45	Diesel	Emergency Stand-by Generator	202.F.1.e
1591	1591 Tangair	677066	Yanmar	4TNE84-EK	2YDXL2.00F4N	13	Diesel	Emergency Stand-by Generator	202.F.1.e
1592	1031 California	677067	Yanmar	4TNE84-EK	2YDXL2.00F4N	13	Diesel	Emergency Stand-by Generator	202.F.1.e
1737	340 Airfield Rd	3804	Lister Petter	LPW4	0	18	Diesel	Emergency Stand-by Generator	202.F.1.e
1740	359 Airfield Rd	4003	Ford	ESG642	NA	77	LPG	Emergency Stand-by Generator	202.F.1.d
1743	355 Airfield Rd	3567	Ford	LSG-8751-6005-A	NA	173	LPG	Emergency Stand-by Generator	202.F.1.d
1810	1810 El Rancho	4113	Kubota	D1703-M-BG-ET01	AKBXL02.2FCD/I-IV	25	Diesel	Emergency Stand-by Generator	202.F.1.e
1905	1905 Orion Rd	3019	Perkins	CM-335	NA	38	Diesel	Emergency Stand-by Generator	202.F.1.e
6670	1655 Utah Ave	3068	Generac	7.4 L	NA	173	NG	Emergency Stand-by Generator	202.F.1.d
6819	1031 California	3597	Kubota	F2803-BG-ES	4KBXL02.8BCC/I	45	Diesel	Emergency Stand-by Generator	202.F.1.d
8310	351 8th St	869	Ford	LSG-4231-6005F	NA	50	LPG	Emergency Stand-by Generator	202.F.1.d
11477	1273 Utah Ave	3187	Yanmar	4TNV84T-BGKL	0	27	Diesel	Emergency Stand-by Generator	202.F.1.e
13675	108 Colorado Ave	766	Ford	CSG-6491-6005-F	NA	90	LPG	Emergency Stand-by Generator	202.F.1.d

Table 3-1. Permit Exempt Internal Combustion Engines

Building Number	Equipment Location	Operator ID	Make	Model	EPA Family Name/Tier	Rating (bhp)	Fuel	Category	Basis for Exemption
14300	135 Wyoming	765	Ford	LSG-4231-6005-F	NA	57	LPG	Emergency Stand-by Generator	202.F.1.d
23160	160 Grant Rd	3605	Kubota	F2803	4KBXL02.8BCC/II	44.8	Diesel	Emergency Stand-by Generator	202.F.1.e
23215	215 Bishop Rd	770	Waukesha	L7042GL	NA	1466	NG	Emergency Stand-by Generator	202.F.1.d
23215	215 Bishop Rd	771	Waukesha	L7042GL	NA	1466	NG	Emergency Stand-by Generator	202.F.1.d
Portable									
Basewide	Various Locations	4293	John Deere	4045HF285	BJDXL06.8117/III	115	Diesel	Chipper Engine, PERP RN 157630	202.F.2
Basewide	Various Locations	667306	Cummins	QSB3.3	ECEXL03.3ADA/I-IV	100	Diesel	Auxiliary Power, PERP RN 165532	202.F.2
Basewide	Various Locations	4368	John Deere	4045HF285	BJDXL06.8117/III	140	Diesel	Vacuum Pump, PERP RN 160694	202.F.2
Basewide	Various Locations	4015	John Deere	4045TF280	9JDXL04.5112/III	80	Diesel	Water Pump, PERP RN 149555	202.F.2
Basewide	Various Locations	4017	John Deere	4045TF280	9JDXL04.5112/III	80	Diesel	Water Pump, PERP RN 149557	202.F.2
Basewide	Various Locations	4307	Cummins	QSC	ACEXL0505AAE/III	260	Diesel	Air Compressor, PERP RN 158388	202.F.2
Basewide	Various Locations	3903	John Deere	3029TF270D	4JDXL02.9050/II	64	Diesel	Generator, TSE RN 101091	202.F.2
Basewide	Various Locations	695013	Honda	GX620	Unknown	20	Gasoline	Pressure Washer	202.F.1.e
Basewide	Various Locations	700047	Kohler	KDI 2504TCR/G18A	FKHXL2.48TCR/IV	74	Diesel	Generator, PERP RN 173572	202.F.1.e
Basewide	Various Locations	700099	Kohler	KDI 2504TCR/G18A	FKHXL2.48TCR/IV	74	Diesel	Generator, PERP RN 173573	202.F.1.e
Basewide	Various Locations	700100	Volvo Penta	TAD1170VE	GVPXL10.8CJA/IV	320	Diesel	Generator, PERP RN 173574	202.F.1.e
Basewide	Various Locations	709118	Onan	12DJC L343410	Unknown	22	Diesel	Emergency Stand-by Generator	202.F.1.e
Basewide	Various Locations	709119	Onan	12DJC L343410	Unknown	22	Diesel	Emergency Stand-by Generator	202.F.1.e
Basewide	Various Locations	709120	Onan	12DJC L343410	Unknown	22	Diesel	Emergency Stand-by Generator	202.F.1.e
Basewide	Various Locations	717151	Cummins	QSB6.7	GCEXL06.7AAK/IV	260	Diesel	Air Compressor, PERP RN 179153	202.F.1.e
Basewide	Various Locations	717152	Cummins	QSB6.7 260	GCEXL06.7AAK/IV	260	Diesel	Air Compressor PERP RN 179154	202.F.1.e
Basewide	Various Locations	698117	Caterpillar	3738/2500	EFPXL03.4ADC/I-IV	115	Diesel	Generator, PERP RN 172855	202.F.2
Basewide	Various Locations	728052	Cummins	QSB4.5	GCEXL04.5AAH/IV	155	Diesel	Generator, PERP RN 174907	202.F.2
Basewide	Various Locations	732845	Isuzu	3LD1	0	39	Diesel	Generator, TSE RN 101091	202.F.2
Basewide	Various Locations	732846	Isuzu	3LD1	0	39	Diesel	Generator, TSE RN 101091	202.F.2
Basewide	Various Locations	732843	Isuzu	3LD1	0	39	Diesel	Generator, TSE RN 101091	202.F.2
Basewide	Various Locations	732844	Perkins	GJ71018N	0	39	Diesel	Generator, TSE RN 101091	202.F.2
Basewide	Various Locations	732847	Isuzu	3LD1	0	39	Diesel	Generator, TSE RN 101091	202.F.2
Basewide	Various Locations	732848	Isuzu	3LD1	0	39	Diesel	Generator, TSE RN 101091	202.F.2

Table 3-1. Permit Exempt Internal Combustion Engines

Building Number	Equipment Location	Operator ID	Make	Model	EPA Family Name/Tier	Rating (bhp)	Fuel	Category	Basis for Exemption
Basewide	Various Locations	732849	Isuzu	3LD1	0	39	Diesel	Generator, TSE RN 101091	202.F.2
Basewide	Various Locations	732850	Isuzu	3LD1	0	39	Diesel	Generator, TSE RN 101091	202.F.2
Basewide	Various Locations	732838	Isuzu	3LD1	0	39	Diesel	Generator, TSE RN 101091	202.F.2
Basewide	Various Locations	732841	Isuzu	3LD1	0	39	Diesel	Generator, TSE RN 101091	202.F.2
Basewide	Various Locations	NA	Various	Various	NA	<2.5	Gasoline	12 Trimmers < 2.5 Hp	202.F.1.f
Basewide	Various Locations	NA	Various	Various	NA	<13	Gasoline	9 Pressure Washers <13 Hp	202.F.1.f
Basewide	Various Locations	NA	Various	Various	NA	<8	Gasoline	4 Generators < 8 Hp	202.F.1.f
Basewide	Various Locations	NA	Various	Various	NA	<4	Gasoline	3 Chainsaw < 4 Hp	202.F.1.f
Basewide	Various Locations	NA	Various	Various	NA	<8	Gasoline	5 Blowers < 8 Hp	202.F.1.f
Basewide	Various Locations	726553	Yanmar	L100W6-G	GYDXL0.44H1N	9	Diesel	Generator	202.F.1.e
Basewide	Various Locations	675480	DuroPower	KM380BD1	0	30	Diesel	Generator	202.F.1.e
Basewide	Various Locations	675288	Honda	GX620	Unknown	28	Gasoline	Generator	202.F.1.f
Basewide	Various Locations	675355	Briggs & Stratton	DT01350	NA	5.5	Gasoline	Thatcher	202.F.1.f
Basewide	Various Locations	675362	Tecumseh	HM100	NA	10	Gasoline	Chipper	202.F.1.f
Basewide	Various Locations	726554	DuroPower	KM380BD1	Unknown		Diesel	Generator	202.F.1.e
Flightline	Various Locations	3613	Detroit Diesel	10435000	0	148	Diesel	Generator, TSE RN 101091	202.F.2
Flightline	Various Locations	3614	Detroit Diesel	10435000	0	148	Diesel	Generator, TSE RN 101091	202.F.2
Flightline	Various Locations	3615	Detroit Diesel	10435000	0	148	Diesel	Generator, TSE RN 101091	202.F.2
Flightline	Various Locations	3617	Detroit Diesel	10435000	0	148	Diesel	Generator, TSE RN 101091	202.F.2
Flightline	Various Locations	3618	Detroit Diesel	10435000	0	148	Diesel	Generator, TSE RN 101091	202.F.2
75	75 Station Rd	3946	Isuzu	A-6BG1T	0	155	Diesel	Generator, TSE RN 101091	202.F.2
525	525 Coast Rd	3992	John Deere	4024TF281	8JDXL02.4074/IV	49	Diesel	Air Compressor	202.F.1.e
525	525 Coast Rd	3993	John Deere	4024TF281	8JDXL02.4074/IV	49	Diesel	Air Compressor	202.F.1.e
525	525 Coast Rd	3994	John Deere	4024TF281	8JDXL02.4074/IV	49	Diesel	Air Compressor	202.F.1.e
525	525 Coast Rd	3995	John Deere	4024TF281	8JDXL02.4074/IV	49	Diesel	Air Compressor	202.F.1.e
525	525 Coast Rd	4021	John Deere	4024TF281	8JDXL02.4074/IV	49	Diesel	Air Compressor	202.F.1.e
525	525 Coast Rd	4022	John Deere	4024TF281	8JDXL02.4074/IV	49	Diesel	Air Compressor	202.F.1.e
525	525 Coast Rd	4023	John Deere	4024TF281	8JDXL02.4074/IV	49	Diesel	Air Compressor	202.F.1.e
525	525 Coast Rd	4024	John Deere	4024TF281	8JDXL02.4074/IV	49	Diesel	Air Compressor	202.F.1.e

Table 3-1. Permit Exempt Internal Combustion Engines

Building Number	Equipment Location	Operator ID	Make	Model	EPA Family Name/Tier	Rating (bhp)	Fuel	Category	Basis for Exemption
525	525 Coast Rd	4296	Perkins	GR65815U	AH3XL2.22TCC/I-IV	49	Diesel	Emergency Stand-by Generator	202.F.1.e
542	542 Coast Rd	707871	Deutz	D2.9 L4	GDZXL02.9021	49	Diesel	Air Compressor	202.F.1.e
542	542 Coast Rd	707880	Deutz	D2.9 L4	GDZXL02.9021	49	Diesel	Air Compressor	202.F.1.e
809	809 Santa Ynez Ridge	722066	Generac	A2400T-GEN1	KKMCL2.39A45/IV	49	Diesel	Generator	202.F.1.e
831	831 Clark St	732760	Kubota	D1105	Unknown/IV	25	Diesel	Trailer Mounted Floodlight	202.F.1.e
831	831 Clark St	732761	Kubota	D1105	Unknown/IV	25	Diesel	Trailer Mounted Floodlight	202.F.1.e
831	831 Clark St	732762	Kubota	D1105	Unknown/IV	25	Diesel	Trailer Mounted Floodlight	202.F.1.e
1704	173 Airfield Rd	718068	Cummins	QSB5-G11	JCEXL04.5AAJ/IV	169	Diesel	Generator, PERP RN 182216	202.F.2
1704	173 Airfield Rd	718669	Cummins	QSB5-G11	JCEXL04.5AAJ/IV	169	Diesel	Generator, PERP RN 182217	202.F.2
1705	173 Airfield Rd	3421	Isuzu	4LEI	0	49	Diesel	Self Generating Nitrogen Cart, TSE RN 101091	202.F.1.e and 202.F.4.a
1731	320 Airfield Rd	727890	John Deere	4024TF281A	CJDXL02.4074/IV	49	Diesel	Air Compressor	202.F.1.e
1731	320 Airfield Rd	732815	John Deere	4045HFC04	JJDXL04.5315/IV	147	Diesel	Air Compressor, PERP RN 191767	202.F.2
1735	325 Airfield Rd	4298	Cummins	4BT3.9G4	I	99	Diesel	Generator, TSE RN 101091	202.F.2
1735	325 Airfield Rd	4299	Cummins	4BT3.9G4	I	99	Diesel	Generator, TSE RN 101091	202.F.2
1735	325 Airfield Rd	4300	Cummins	4BT3.9G4	I	93	Diesel	Generator, TSE RN 101091	202.F.2
1735	325 Airfield Rd	4301	Cummins	4BT3.9G4	I	93	Diesel	Generator, TSE RN 101091	202.F.2
1735	325 Airfield Rd	4310	Deutz	BF4M1008	I	38.8	Diesel	Generator, TSE RN 101091	202.F.1.e and 202.F.4.a
1735	325 Airfield Rd	4311	Deutz	BF4M1008	I	38.8	Diesel	Generator, TSE RN 101091	202.F.1.e and 202.F.4.a
1735	325 Airfield Rd	653788	Perkins	GP65664N	Unknown	38.8	JP-8	Start cart, TSE RN 101091	202.F.1.f and 202.D.2
1735	325 Airfield Rd	653789	Perkins	NJ70787	Unknown	38.8	JP-8	Start cart, TSE RN 101091	202.F.1.f and 202.D.2
1735	325 Airfield Rd	677068	Caterpillar	XQ350	Unknown	569	Diesel	Auxiliary Power, TSE RN 101091	202.F.2
1749	373 Airfield Rd	ICE02	Garrett	GTCP85-180C	NA	100	JP-8	Turbine Compressor - Aircraft Engine Starting, TSE RN 101091	202.D.2
1746 and Flightline	Various Locations	2055	Garrett	GTCP85-180C	NA	100	JP-8	Turbine Compressor - Aircraft Engine Starting, TSE RN 101091	202.F.1.d
1755	400 Flightline	728017	Kubota	D905 V1305-EBG	NA	19	Diesel	Trailer Mounted Floodlight	202.F.1.e
1755	400 Flightline	728018	Kubota	D905 V1305-EBG	NA	19	Diesel	Trailer Mounted Floodlight	202.F.1.e

Table 3-1. Permit Exempt Internal Combustion Engines

Building Number	Equipment Location	Operator ID	Make	Model	EPA Family Name/Tier	Rating (bhp)	Fuel	Category	Basis for Exemption
1755	400 Flightline	728019	Kubota	D905 V1305-EBG	NA	19	Diesel	Trailer Mounted Floodlight	202.F.1.e
1755	400 Flightline	728020	Kubota	D905 V1305-EBG	NA	19	Diesel	Trailer Mounted Floodlight	202.F.1.e
1755	400 Flightline	728021	Kubota	D905 V1305-EBG	NA	19	Diesel	Trailer Mounted Floodlight	202.F.1.e
1755	400 Flightline	728022	Kubota	D905 V1305-EBG	NA	19	Diesel	Trailer Mounted Floodlight	202.F.1.e
1755	400 Flightline	728023	Kubota	D905 V1305-EBG	NA	19	Diesel	Trailer Mounted Floodlight	202.F.1.e
1755	400 Flightline	728024	Kubota	D905 V1305-EBG	NA	19	Diesel	Trailer Mounted Floodlight	202.F.1.e
1755	400 Flightline	728025	Kubota	D1105-ES02	3KBXL01.5BCD	26	Diesel	Air Compressor	202.F.1.e
1755	400 Flightline	728026	Yanmar	L70ABE-DEGMTAYC	Unknown	6.7	Diesel	Heater New Generation	202.F.1.e
1755	400 Flightline	728027	Yanmar	L70ABE-DEGMTAYC	Unknown	6.7	Diesel	Heater New Generation	202.F.1.e
1905	1905 Orion St	719092	Kubota	D1703-M-BG-ET01	GKBL02.2FCC/IV	20.2	Diesel	Generator	202.F.1.e
3000	3000 29 th St	4072	Kubota	D1503 M BG ET02e	9KBXL01.5FCC/IV	24	Diesel	Generator	202.F.1.e
3000	3000 29 th St	4073	Kubota	D1503 M BG ET02e	9KBXL01.5FCC/IV	24	Diesel	Generator	202.F.1.e
5425	2010 20th St	3602	Kawaski	BWT 200	0	23	Gasoline	Grounds Maintenance Equipment	202.F.1.f
5425	2010 20th St	703351	Kohler	PS-CH740-3330	Unknown	25	Gasoline	Blower	202.F.1.f
6523	137 13th St	723469	Kubota	D1803-T	KKBL01.8EMD/IV	49	Diesel	Air Compressor	202.F.1.e
6523	137 13th St	723470	Kubota	D1803-T	KKBL01.8EMD/IV	49	Diesel	Air Compressor	202.F.1.e
7425	386 10th St	3735	John Deere	3029TF270D	4JDXL02.9050/II	64	Diesel	Air Compressor, TSE RN 101091	202.F.2
7501	172 10th St	3419	John Deere	4045DF150	2JDXL06.8016/I	80	Diesel	Air Compressor, TSE RN 101091	202.F.2
8310	351 8 TH St	730034	Kohler	LT6K	FKHL1.37SF1/IV	25.5	Diesel	Trailer Mounted Floodlight	202.F.1.e
8310	351 8 TH St	730035	Kohler	LT6K	FKHL1.37SF1/IV	25.5	Diesel	Trailer Mounted Floodlight	202.F.1.e
8310	351 8 TH St	730036	Kohler	LT6K	FKHL1.37SF1/IV	25.5	Diesel	Trailer Mounted Floodlight	202.F.1.e
8310	351 8 TH St	730037	Kohler	LT6K	FKHL1.37SF1/IV	25.5	Diesel	Trailer Mounted Floodlight	202.F.1.e
8314	374 8th St	3820	John Deere	3029TF270D	II	64	Diesel	Generator, TSE RN 101091	202.F.2
8314	374 8th St	3821	John Deere	3029TF270D	II	64	Diesel	Generator, TSE RN 101091	202.F.2
8425	1411 Utah Ave	4124	Isuzu	BH-6UZ1X	ASZXL09.8HXB/III	349	Diesel	Generator, PERP RN 154640	202.F.2
8425	1411 Utah Ave	696	Cummins	NT855G3	0	390	Diesel	Generator, TSE RN 101091	202.F.2
8425	1411 Utah Ave	708	Caterpillar	3306	0	235	Diesel	Generator, TSE RN 101091	202.F.2
8425	1411 Utah Ave	3027	Cummins	NT-855-G3	0	390	Diesel	Generator, TSE RN 101091	202.F.2
8425	1411 Utah Ave	3035	John Deere	6059T	0	80	Diesel	Generator, TSE RN 101091	202.F.2

Table 3-1. Permit Exempt Internal Combustion Engines

Building Number	Equipment Location	Operator ID	Make	Model	EPA Family Name/Tier	Rating (bhp)	Fuel	Category	Basis for Exemption
8425	1411 Utah Ave	3037	John Deere	6059TF002	0	80	Diesel	Generator, TSE RN 101091	202.F.2
8425	1411 Utah Ave	3038	John Deere	6059TF002	0	80	Diesel	Generator, TSE RN 101091	202.F.2
8425	1411 Utah Ave	3193	Isuzu	C240	0	30	Diesel	Generator, TSE RN 101091	202.F.1.e and 202.F.4.a
8425	1411 Utah Ave	3194	Isuzu	C240	0	30	Diesel	Generator, TSE RN 101091	202.F.1.e and 202.F.4.a
8425	1411 Utah Ave	3817	Caterpillar	3126	III	216	Diesel	Generator, TSE RN 101091	202.F.2
8425	1411 Utah Ave	3818	Caterpillar	3126	III	216	Diesel	Generator, TSE RN 101091	202.F.2
8425	1411 Utah Ave	4034	Onan	DN4M	0	24.1	Diesel	Generator, TSE RN 101091	202.F.1.e and 202.F.4.a
8425	1411 Utah Ave	4035	Onan	DN4M	0	24.1	Diesel	Generator, TSE RN 101091	202.F.1.e and 202.F.4.a
8425	1411 Utah Ave	4143	John Deere	4045TF151	2JDXL06.8014/I	92	Diesel	Generator, TSE RN 101091	202.F.2
8425	1411 Utah Ave	E-35	John Deere	4045TF151	2JDXL06.8014	92	Diesel	Generator, TSE RN 101091	202.F.2
8425	1411 Utah Ave	730542	Kubota	Z482-D2-ES02	7KBXL.719KCC/II	10.9	Diesel	Trailer Mounted Floodlight	202.F.1.e
8425	1411 Utah Ave	730543	Kubota	Z482-D2-ES02	7KBXL.719KCC/II	10.9	Diesel	Trailer Mounted Floodlight	202.F.1.e
8425	1411 Utah Ave	730544	Lombardini	LDW 1003	9LBDL1.37SF1/II	12	Diesel	Trailer Mounted Floodlight	202.F.1.e
8425	1411 Utah Ave	730545	Lombardini	LDW 1003	9LBDL1.37SF1/II	12	Diesel	Trailer Mounted Floodlight	202.F.1.e
8425	1411 Utah Ave	730546	Kubota	Z482-D2-ES02	7KBXL.719KCC/II	10.9	Diesel	Trailer Mounted Floodlight	202.F.1.e
8425	1411 Utah Ave	730547	Kubota	D1005	JKBXL01.0BCC/IV	26	Diesel	Trailer Mounted Floodlight	202.F.1.e
8425	1411 Utah Ave	730548	Kubota	D1005	JKBXL01.0BCC/IV	25	Diesel	Trailer Mounted Floodlight	202.F.1.e
8425	1411 Utah Ave	E-42	Cummins	QSB4.5	JCEXL0275AAG	139	Diesel	Generator, TSE RN 101091	202.F.2
8425	1411 Utah Ave	E-45	Kohler	KDI1903TCR/G18C	KKHXL2.48TCR/IV	49	Diesel	Generator, TSE RN 101091	202.F.2
8425	1411 Utah Ave	E-43	Cummins	QSB4.5	JCEXL0275AAG	139	Diesel	Generator, TSE RN 101091	202.F.2
8425	1411 Utah Ave	722304	Kohler	KDI1903TCR/G18C	KKHXL2.48TCR/IV	49	Diesel	Generator, TSE RN 101091	202.F.2
9320	334 6th St	4095	Caterpillar	C4.4	APKXL04.4NJ1/III	130	Diesel	Air Compressor, PERP RN 153516	202.F.2
9320	334 6th St	4097	Caterpillar	C4.4	APKXL04.4NJ1/III	130	Diesel	Air Compressor, PERP RN 153517	202.F.2
9320	334 6th St	703411	Kubota	ZB600E	NA	12	Diesel	Pressure Washer	202.F.1.e
10711	433 Herado Ave	762	Teledyne Continental	TMD-20	0	32.5	Diesel	Generator	202.F.1.e
10711	433 Herado Ave	653776	Lister Petter	4100548LPWS3A90	Unknown	15	Diesel	Air Compressor	202.F.1.e
10715	416 Washington Ave	4294	Caterpillar	C2.2	BH3XL2.22N4T/I-IV	60	Diesel	Other, PERP RN 157631	202.F.2

Table 3-1. Permit Exempt Internal Combustion Engines

Building Number	Equipment Location	Operator ID	Make	Model	EPA Family Name/Tier	Rating (bhp)	Fuel	Category	Basis for Exemption
10715	416 Washington Ave	3902	John Deere	4045DF150	3JDXL04.8046/I	78	Diesel	Air Compressor, TSE RN 101091	202.F.2
10715	416 Washington Ave	703412	John Deere	4045TF275	6JDXL06.8082	110	Diesel	Generator, TSE RN 101091	202.F.2
10715	416 Washington Ave	730530	John Deere	4045TF275	6JDXL06.8082	110	Diesel	Sweeper, TSE RN 101091	202.F.2
10717	430 Washington Ave	3892	John Deere	4045DF150B	2JDXL06.8046/I	78	Diesel	Air Compressor, TSE RN 101091	202.F.2
10717	430 Washington Ave	3894	John Deere	4045TF270	5JDXL04.5083/II	99	Diesel	Sweeper, 2nd Engine, TSE RN 101091	202.F.2
10715	430 Washington Ave	4288	John Deere	4045HF280	AJDXL04.5111/III	50	Diesel	Generator, TSE RN 101091	202.F.2
10717	430 Washington Ave	4364	Kubota	V3600-T-ETO2	Unknown	63	Diesel	Water Pump, TSE RN 101091	202.F.2
10717	430 Washington Ave	4365	Kubota	V3600-T-ETO2	Unknown	63	Diesel	Water Pump, TSE RN 101091	202.F.2
10717	430 Washington Ave	723759	Kohler	KDI1903TCR/26B	IV	49	Diesel	Air Compressor	202.F.1.e
12000	867 Washington Ave	3558	Onan	DNAE 4493833	0	27.5	Diesel	Generator, TSE RN 101091	202.F.1.e and 202.F.4.a
12000	867 Washington Ave	3559	Onan	DNAE 4493833	0	37.5	Diesel	Generator, TSE RN 101091	202.F.1.e and 202.F.4.a
12000	867 Washington Ave	3808	Yanmar	40E0RZD	0	82	Diesel	Generator, TSE RN 101091	202.F.2
12000	867 Washington Ave	3809	Yanmar	40E0RZD	0	82	Diesel	Generator, TSE RN 101091	202.F.2
12000	867 Washington Ave	4008	John Deere	6068TF151 (MEP-806B)	0	134	Diesel	Generator, TSE RN 101091	202.F.2
12000	867 Washington Ave	3394	Onan	DNAE 4493833	0	27.5	Diesel	Generator, TSE RN 101091	202.F.1.e and 202.F.4.a
12000	867 Washington Ave	727959	Cummins	QSB3.3	BCEXL0275AAH/III	99	Diesel	Generator, TSE RN 101091	202.F.2
12000	867 Washington Ave	727960	Cummins	QSB3.3	BCEXL0275AAH/III	99	Diesel	Generator, TSE RN 101091	202.F.2
12000	867 Washington Ave	727963	Cummins	QSB3.3	BCEXL0275AAH/III	99	Diesel	Generator, TSE RN 101091	202.F.2
12000	867 Washington Ave	727961	Cummins	QSB3.3	BCEXL0275AAH/III	99	Diesel	Generator, TSE RN 101091	202.F.2
12000	867 Washington Ave	727958	Cummins	QSB3.3	BCEXL0275AAH/III	99	Diesel	Generator, TSE RN 101091	202.F.2
12000	867 Washington Ave	718452	Cummins	QSB3.3	BCEXL0275AAH/III	99	Diesel	Generator, TSE RN 101091	202.F.2
12000	867 Washington Ave	718453	Cummins	QSB3.3	BCEXL0275AAH/III	99	Diesel	Generator, TSE RN 101091	202.F.2
12000	867 Washington Ave	718454	Cummins	QSB3.3	BCEXL0275AAH/III	99	Diesel	Generator, TSE RN 101091	202.F.2

NA = Not Applicable

NG = Natural Gas

LPG = Liquefied Propane Gas

RN = Registration Number

Table 3-2. Permit Exempt External Combustion Equipment

Building Number	Equipment Location	Operator ID	Make	Model	Model Year	Rating (MMBtu/hr)	Fuel	Type of Unit	Basis for Exemption	Notes
75	75 Station Rd	732823	Cleaver Brooks	CFC-E	NA	0.75	LPG	Boiler	202.G.1	
475	475 Comm Ave	705824	Cleaver Brooks	CFC-700-1500-125HW	NA	1.5	LPG	Boiler	202.G.1	
490	490 Arguello Rd	4156	Takagi	T-K3	NA	0.199	LPG	Water Heater	202.G.1	
490	490 Arguello Rd	704772	York	TG9S120D16MP11A	NA	0.12	LPG	Boiler	202.G.1	
542	542 Coast Rd	704775	Duncane	FPBB100A5	NA	0.1	NG	Furnace	202.G.1	
542	542 Coast Rd	704778	American Water Heater Co	BFG6140T403NO	NA	0.04	NG	Water Heater	202.G.1	
657	657 VHF Rd	981	Lennox	G1404-60-13	NA	0.06	LPG	Furnace	202.G.1	
657	657 VHF Rd	676394	Dayton	GF9S060B12UP11J	NA	0.06	LPG	Furnace	202.G.1	
660	660 Santa Ynez Ridge Rd	707832	Lochinvar	CHL0502	NA	0.5	NG	Boiler	202.G.1	
764	764 Napa St	723353	Rbi	DB600	NA	0.51	NG	Boiler	202.G.1	
765	765 Napa Rd	1007	Sterling-Alton	GMIF-50	NA	0.625	NG	Furnace	202.G.1	
789	Napa Rd	4333	Rheem	22DV50F	NA	0.038	NG	Water Heater	202.G.1	
789	Napa Rd	707833	Lennox	G50UH-60C-110X-05	NA	0.5	NG	Furnace	202.G.1	
799	799 Coast Rd	694968	A.O. Smith	BT 100 300	NA	0.075	NG	Water Heater	202.G.1	
799	799 Coast Rd	707834	Lochinvar	KBN106	NA	0.105	NG	Boiler	202.G.1	
799	799 Coast Rd	707835	Lochinvar	KBN106	NA	0.106	NG	Boiler	202.G.1	
840	840 Clark St	4001	Lochinvar	KBN285	NA	0.285	NG	Boiler	202.G.1	
840	840 Clark St	727966	Lochinvar	KHB285N	NA	0.264	NG	Boiler	202.G.1	
848	848 Clark St	727968	Goodman	6M55961005CNAA	NA	0.96	NG	Boiler	202.G.1	
860	860 Clark St	3228	Bryant	376CAV060115	NA	0.115	NG	Furnace	202.G.1	
860	860 Clark St	3229	Bryant	376CAV060115	NA	0.115	NG	Furnace	202.G.1	
861	891 Clark St	3646	Hydrotherm	KN-6	NA	0.6	NG	Boiler	202.G.1	
870	870 Stroop Rd	694919	Lochinvar	KBN400	NA	0.399	NG	Boiler	202.G.1	
871	871 Tuttle St	698766	Raypak	H7-0700A	NA	0.7	NG	Boiler	202.G.1	
875	875 Sweeney Rd	4040	Ajax Boiler	WPG-1050	NA	1.05	NG	Boiler	202.G.1	
875	875 Sweeney Rd	676461	Vangaurd	SA469	NA	0.038	NG	Boiler	202.G.1	
1335	1335 Koa Rd	3171	Day & Nite	383KAV048111	NA	0.11	LPG	Furnace	202.G.1	
1335	1335 Koa Rd	3172	Day & Nite	383KAV048111	NA	0.11	LPG	Furnace	202.G.1	
1335	1335 Koa Rd	3173	Day & Nite	383KAV36070	NA	0.11	LPG	Furnace	202.G.1	

Table 3-2. Permit Exempt External Combustion Equipment

Building Number	Equipment Location	Operator ID	Make	Model	Model Year	Rating (MMBtu/hr)	Fuel	Type of Unit	Basis for Exemption	Notes
1335	1335 Koa Rd	3368	Day & Nite	383KAV060111	NA	0.11	LPG	Furnace	202.G.1	
1335	1335 Koa Rd	3850	Rheem	RCD156-82-1	NA	0.156	NG	Water Heater	202.G.1	
1338	1338 Koa Rd	3216	Markel	HFSF	NA	0.1	LPG	Furnace	202.G.1	
1350	Koa Rd	4337	Rheem	42VR40-34PF	NA	0.034	LPG	Water Heater	202.G.1	
1350	Koa Rd	4347	York	P4HUB12L08001B	NA	0.1	LPG	Furnace	202.G.1	
1506	1559 Tonto Rd	4086	Raypak	H7-0753	NA	0.75	NG	Boiler	202.G.1	
1506	1559 Tonto Rd	4087	Raypak	H7-0753	NA	0.75	NG	Boiler	202.G.1	
1521	1521 Taco Rd	3116	Lennox	G23Q5/6-125-1	NA	0.125	LPG	Furnace	202.G.1	
1521	1521 Taco Rd	3117	Lennox	G23Q5/6-125-1	NA	0.125	LPG	Furnace	202.G.1	
1530	1530 Rollo Rd	727969	Payne	PG8UAA0365	NA	0.53	NG	Furnace	202.G.1	
1545	1545 35th St	3224	Teledyne Laars	HH0320MN20CCAAXX	NA	0.32	NG	Boiler	202.G.1	
1545	1545 35th St	3225	Teledyne Laars	HH0320MN20CCAAXX	NA	0.32	NG	Boiler	202.G.1	
1546A	1546A Talo Rd	3986	Patterson-Kelley	N2000-MFD	NA	2	NG	Boiler	202.G.1	
1546B	1546B Talo Rd	3987	Patterson-Kelley	N2000-MFD	NA	2	NG	Boiler	202.G.1	
1555	1555 Talo Rd	3652	Raypak	H8-0992A	NA	0.99	NG	Boiler	202.G.1	
1555	1555 Talo Rd	3653	Raypak	H3-0652A	NA	0.65	NG	Boiler	202.G.1	
1555	1555 Talo Rd	4179	American Proline	FG6140T403N0	NA	0.036	NG	Water Heater	202.G.1	
1555	1555 Talo Rd	732164	Bradford White	URG140T6N	NA	0.034	NG	Water Heater	202.G.1	
1555	1555 Talo Rd	732165	Bradford White	URG150T6N	NA	0.034	NG	Water Heater	202.G.1	
1559	1559 Tonto Rd	697049	Rbi-Dominator	DB400	NA	0.399	NG	Boiler	202.G.1	
1577	1577 May Rd	910	Lennox	G14Q4-5-100-6	NA	0.1	LPG	Furnace	202.G.1	
1579	1579 June Rd	707836	Lennox	G61MP-60C-111-09	NA	0.1	LPG	Furnace	202.G.1	
1610	1610 Tangair Rd	727971	Raypak	458495	NA	0.54	NG	Boiler	202.G.1	
1610	1610 Tangair Rd	727972	Raypak	458495	NA	0.54	NG	Boiler	202.G.1	
1628	1628 Aero Rd	676538	Carrier	CNRVT4821ACAABAA	NA	0.08	LPG	Furnace	202.G.1	
1628	1628 Aero Rd	676539	Carrier	CNRVT4821ACAABAA	NA	0.08	LPG	Furnace	202.G.1	
1628	1628 Aero Rd	676540	Carrier	CNRVT6024ACAABAA	NA	0.1	LPG	Furnace	202.G.1	
1628	1628 Aero Rd	676712	York	DH036N014N2AAA1A	NA	0.05	LPG	Furnace	202.G.1	
1628	1628 Aero Rd	676719	York	DHUC-TO36N100A	NA	0.1	LPG	Furnace	202.G.1	

Table 3-2. Permit Exempt External Combustion Equipment

Building Number	Equipment Location	Operator ID	Make	Model	Model Year	Rating (MMBtu/hr)	Fuel	Type of Unit	Basis for Exemption	Notes
1628	1628 Aero Rd	676722	York	DHUC-TO36N100A	NA	0.1	LPG	Furnace	202.G.1	
1628	1628 Aero Rd	707800	Bradford White	U440T6FRN	NA	0.04	LPG	Water Heater	202.G.1	
1628	1628 Aero Rd	707998	York	CNRVT4821ACAAAAA	NA	0.08	LPG	Furnace	202.G.1	
1628	1628 Aero Rd	707999	York	DH036N014N2AAA1A	NA	0.1	LPG	Furnace	202.G.1	
1632	1632 Tangair Rd	3120	Reznor	TR125	NA	0.125	LPG	Furnace	202.G.1	
1632	1632 Tangair Rd	3203	Reznor	TR125	NA	0.125	LPG	Furnace	202.G.1	
1659	1659 Mono Rd	3235	Lennox	G23Q5/6-150-4	NA	0.15	LPG	Furnace	202.G.1	
1705	173 Airfield Rd	700460	Carrier	58STX135-16	NA	0.132	NG	Furnace	202.G.1	
1705	173 Airfield Rd	701731	American Water Heater Co	G62-40T34-3N	NA	0.034	NG	Water Heater	202.G.1	
1707	185 Airfield Rd	701732	Bradford White	M440T6FBN	NA	0.04	NG	Water Heater	202.G.1	
1707	185 Airfield Rd	727973	American Standard	TUX080C960D2	NA	0.8	NG	Furnace	202.G.1	
1728	302 Airfield Rd	3833	A.O. Smith	FCG-100 300	NA	0.075	NG	Water Heater	202.G.1	
1731	320 Airfield Rd	3654	Raypak	H3-0752A	NA	0.75	NG	Boiler	202.G.1	
1731	320 Airfield Rd	708767	Rheem	40T06EN38U0	NA	0.038	NG	Water Heater	202.G.1	
1735	325 Airfield Rd	720648	Bradford White	50T65FB3N	NA	0.065	NG	Water Heater	202.G.1	
1737	340 Airfield Rd	929	American Standard	GSI-40T34-3N	NA	0.034	NG	Water Heater	202.G.1	
1737	340 Airfield Rd	4056	A.O. Smith	FGR 40 248E	NA	0.038	NG	Water Heater	202.G.1	
1737	340 Airfield Rd	694920	Patterson-Kelley	N1000-MFD	NA	1	NG	Boiler	202.G.1	
1737	340 Airfield Rd	694969	Patterson-Kelley	N1000-MFD	NA	1	NG	Boiler	202.G.1	
1740	359 Airfield Rd	3236	Day & Nite	376C	NA	0.074	NG	Furnace	202.G.1	
1740	359 Airfield Rd	3281	Reznor	HCRGB175-S	NA	0.15	NG	Furnace	202.G.1	
1740	359 Airfield Rd	3282	Reznor	TR75	NA	0.075	NG	Furnace	202.G.1	
1740	359 Airfield Rd	3988	A.O. Smith	FCG 100 300	NA	0.751	NG	Water Heater	202.G.1	
1743	355 Airfield Rd	3923	Raypak	H3-0302B	NA	0.3	NG	Boiler	202.G.1	
1743	355 Airfield Rd	3924	Raypak	H3-0302B	NA	0.3	NG	Boiler	202.G.1	
1743	355 Airfield Rd	732133	Bradford White	URG240T6N	NA	0.04	NG	Water Heater	202.G.1	
1746	373 Airfield Rd	727974	Rheem	GN75-125	NA	0.125	NG	Water Heater	202.G.1	
1749	391 Airfield Rd	947	Lennox	GS11D2100	NA	0.1	NG	Furnace	202.G.1	
1749	391 Airfield Rd	3238	Lennox	GS11D2100	NA	0.08	NG	Furnace	202.G.1	

Table 3-2. Permit Exempt External Combustion Equipment

Building Number	Equipment Location	Operator ID	Make	Model	Model Year	Rating (MMBtu/hr)	Fuel	Type of Unit	Basis for Exemption	Notes
1749	391 Airfield Rd	658417	Bradford White	U140T6FRN	NA	0.04	NG	Water Heater	202.G.1	
1749	391 Airfield Rd	698205	Reznor	UDAS-75	NA	0.075	NG	Furnace	202.G.1	
1749	391 Airfield Rd	698206	Reznor	UDAS-75	NA	0.075	NG	Furnace	202.G.1	
1749	391 Airfield Rd	698207	Reznor	UDAS-75	NA	0.075	NG	Furnace	202.G.1	
1749	391 Airfield Rd	698208	Reznor	UDAS-75	NA	0.075	NG	Furnace	202.G.1	
1785	1785 13th St	950	Lennox	G14Q3-80-2	NA	0.85	LPG	Furnace	202.G.1	
1785	1785 13th St	3239	Payne	395CAV048091	NA	0.088	LPG	Furnace	202.G.1	
1800	150 Taurus Rd	3942	Patterson-Kelley	N2000-MFD	NA	1.999	LPG	Boiler	202.G.1	
1806	1806 Taurus Rd	4289	Parker Boiler Co.	G672RL	NA	0.672	LPG	Boiler	202.G.1	
1810	1810 El Rancho Rd	656947	Dayton	3E407D	NA	0.06	LPG	Furnace	202.G.1	
1810	1810 El Rancho Rd	657188	Dayton	3E407D	NA	0.06	LPG	Furnace	202.G.1	
1824	1824 Brio Rd	3659	Hydrotherm	AM-150	NA	0.135	LPG	Boiler	202.G.1	
1833	1833 Tethys Rd	3660	Hydrotherm	AM-150	NA	0.135	LPG	Boiler	202.G.1	
1871	1871 Star Rd	3851	Polaris	PG10501302PV	NA	0.13	NG	Boiler	202.G.1	
1871	1871 Star Rd	3852	Polaris	PG10501302PV	NA	0.13	NG	Boiler	202.G.1	
1871	1871 Star Rd	3853	Polaris	PG10501302PV	NA	0.13	NG	Boiler	202.G.1	
1930	1930 Astral Rd	963	American Standard	G52-40T60-4PLPW	NA	0.06	LPG	Water Heater	202.G.1	
1930	1930 Astral Rd	4356	Lennox	TGLS100C20MP11A	NA	0.1	LPG	Furnace	202.G.1	
1930	1930 Astral Rd	714341	Airtemp	VG 7SA 108C- 35C1	NA	1	LPG	Furnace	202.G.1	
1930	1930 Astral Rd	714343	Airtemp	VG 7SA 108C- 35C1	NA	1	LPG	Furnace	202.G.1	
2500	2500 Arizona Ave	731776	Lochinvar	FTX400N	NA	0.399	NG	Boiler	202.G.1	
2505	2505 32nd St	3375	Trane	TUD100C945H4	NA	0.1	NG	Furnace	202.G.1	
2510	2510 Nevada	723354	Lochinvar	FTX400N	NA	0.399	NG	Boiler	202.G.1	
2510	2510 Nevada	723355	Lochinvar	FTX400N	NA	0.399	NG	Boiler	202.G.1	
2530	2530 Arizona	731907	Rheem	PROG40-38U RH62 EC1-1	NA	0.038	NG	Water Heater	202.G.1	
3000	3000 29th St	703338	Parker Boiler Co.	TC600L	NA	2	NG	Boiler	202.G.1	
3000	3000 29th St	703339	Parker Boiler Co.	TC600L	NA	2	NG	Boiler	202.G.1	
5002	Santa Barbara Ave	676740	American	GVF443TV	NA	0.04	NG	Water Heater	202.G.1	
5002	Santa Barbara Ave	707837	Dayton	FG9B08012UP11C	NA	0.08	NG	Furnace	202.G.1	

Table 3-2. Permit Exempt External Combustion Equipment

Building Number	Equipment Location	Operator ID	Make	Model	Model Year	Rating (MMBtu/hr)	Fuel	Type of Unit	Basis for Exemption	Notes
5010	Santa Barbara Ave	676752	Carrier	58MSA080---1--20	NA	0.08	NG	Furnace	202.G.1	
5010	Santa Barbara Ave	707838	A.O. Smith	BTN 200 108	NA	0.2	NG	Water Heater	202.G.1	
6005	6005 Santa Barbara Ave	3219	Rheem	RGDD-08NE-GR	NA	0.08	NG	Furnace	202.G.1	
6005	6005 Santa Barbara Ave	4290	American Water Heater Co	CG32-75T75-4NOV	NA	0.075	NG	Water Heater	202.G.1	
6015	6015 Santa Barbara Ave	4221	Dayton	FG9B08012UP11C	NA	0.075	NG	Furnace	202.G.1	
6015	6015 Santa Barbara Ave	4338	Bradford White	M4403T6EN12	NA	0.04	NG	Water Heater	202.G.1	
6444	351 14th St	3244	Tempstar	GNJ075M16C1	NA	0.075	NG	Furnace	202.G.1	
6447	6447 14th St	4222	Payne	PG8JAA048090ADJA	NA	0.088	NG	Furnace	202.G.1	
6447	6447 14th St	676761	Munching Contender	MC-50	NA	0.05	NG	Water Heater	202.G.1	
6510	85 13th St	4058	Raypak	H3-0752B	NA	0.75	NG	Boiler	202.G.1	
6523	137 13th St	707930	Raypak	H7-850A	NA	0.85	NG	Boiler	202.G.1	
6523	137 13th St	708039	Raypak	H7-850A	NA	0.85	NG	Boiler	202.G.1	
6523	137 13th St	714348	Raypak	H7-108AR-PS	NA	0.11	NG	Boiler	202.G.1	
6523	137 13th St	714349	Bradford White	URG140T6N	NA	0.034	NG	Water Heater	202.G.1	
6523	137 13th St	732806	Bradford White	URG240T6N	NA	0.04	NG	Water Heater	202.G.1	
6525	105 13th St	676800	American Appliance Mfg Co	DSID250-100-1	NA	0.25	NG	Water Heater	202.G.1	
6527	65 13th St	3810	Raypak	H3-0652B	NA	0.65	NG	Boiler	202.G.1	
6601	1785 Utah Ave	3376	Lennox	G14Q4-80-6	NA	0.088	NG	Furnace	202.G.1	
6601	1785 Utah Ave	3667	American Water Heater Co	CG32-75T75-4NV	NA	0.0751	NG	Water Heater	202.G.1	
6601	1785 Utah Ave	661827	Raypak	H7-0500A	NA	0.5	NG	Boiler	202.G.1	
6601	1785 Utah Ave	664578	Raypak	H7-2004A	NA	1.99	NG	Boiler	202.G.1	
6601	1785 Utah Ave	727976	Bradford White	UGL275H763N	NA	0.76	NG	Water Heater	202.G.1	
6607	1761 Utah Ave	704767	Rheem	RGD05NAUER	NA	0.05	NG	Water Heater	202.G.1	
6607	1761 Utah Ave	704769	American Water Heater Co	BFG6140T403N0	NA	0.04	NG	Water Heater	202.G.1	
6670	1655 Utah Ave	4121	Patterson-Kelley	N2000-MFD	NA	2	NG	Boiler	202.G.1	
6670	1655 Utah Ave	4122	Patterson-Kelley	N2000-MFD	NA	2	NG	Boiler	202.G.1	
6670	1655 Utah Ave	657189	Rheem	GNU100-250	NA	0.25	NG	Water Heater	202.G.1	

Table 3-2. Permit Exempt External Combustion Equipment

Building Number	Equipment Location	Operator ID	Make	Model	Model Year	Rating (MMBtu/hr)	Fuel	Type of Unit	Basis for Exemption	Notes
6710	32 13th St	3989	Raypak	H3-0401	NA	0.375	NG	Boiler	202.G.1	
6710	32 13th St	4182	American	G62 40T34-3N	NA	0.034	NG	Water Heater	202.G.1	
6816	6816 Igloo Rd	2619	Air-Fan	KE3-112	NA	0.2	NG	Furnace	202.G.1	
6816	6816 Igloo Rd	720649	Trane	TUD1C100A9601AB	NA	0.1	NG	Furnace	202.G.1	
6816	6816 Igloo Rd	720650	Trane	TUD1C100A9601AB	NA	0.1	NG	Furnace	202.G.1	
6817	50 13th St	4339	Lochinvar	CHN0502	NA	0.5	NG	Boiler	202.G.1	
7011	826 13th St	4068	Cleaver Brooks	CFC-700-750-60HW	NA	0.75	NG	Boiler	202.G.1	
7015	806 13th Street	698107	Bradford White	D100L199E3N	NA	0.199	NG	Water Heater	202.G.1	
7025	1602 California	708770	Patterson-Kelley	C1050	NA	1.05	NG	Boiler	202.G.1	
7025	1602 California	708771	Patterson-Kelley	C1050	NA	1.05	NG	Boiler	202.G.1	
7050	818 13th St	3627	Ajax Boiler	WPG1050	NA	1	NG	Boiler	202.G.1	
7050	818 13th St	3628	Ajax Boiler	WPG1050	NA	1	NG	Boiler	202.G.1	
7403	393 10th St	676807	Bradford White	58MSA080-2-20	NA	0.08	NG	Water Heater	202.G.1	
7403	393 10th St	698034	Raypak	D1150600292	NA	0.6	NG	Boiler	202.G.1	
7403	393 10th St	701733	Bradford White	M4403T6EN12	NA	0.04	NG	Water Heater	202.G.1	
7420	340 10th St	676815	York	P4HUC20L08001A	NA	0.1	NG	Furnace	202.G.1	
7420	340 10th St	676816	York	P4HUC20L08001A	NA	0.1	NG	Furnace	202.G.1	
7420	340 10th St	676817	Bradford White	MI40T6EN12	NA	0.04	NG	Water Heater	202.G.1	
7425	386 10th St	676818	Bradford White	M4403T6EN12	NA	0.04	NG	Water Heater	202.G.1	
7425	836 10th Street	698138	Raypak	H7-0500A	NA	0.5	NG	Boiler	202.G.1	
7425	836 10th Street	698139	Raypak	H7-0500A	NA	0.5	NG	Boiler	202.G.1	
7425	836 10th Street	724495	Bradford White	URG240T6N	NA	0.04	NG	Water Heater	202.G.1	
7430	348 8th St	3379	Carrier	58SXC120-LG	NA	0.135	NG	Furnace	202.G.1	
7437	1556 New Mexico Ave	1053	Ajax Boiler	WG-350	NA	0.35	NG	Boiler	202.G.1	
7437	1556 New Mexico Ave	3941	Ajax Boiler	WRFG-840	NA	0.84	NG	Boiler	202.G.1	
7437	1556 New Mexico Ave	676819	Bradford White	M440T6FBN	NA	0.04	NG	Water Heater	202.G.1	
7501	172 10th St	3812	Lochinvar	CHN651	NA	0.65	NG	Boiler	202.G.1	
7501	172 10th St	3813	Lochinvar	CHN651	NA	0.65	NG	Boiler	202.G.1	

Table 3-2. Permit Exempt External Combustion Equipment

Building Number	Equipment Location	Operator ID	Make	Model	Model Year	Rating (MMBtu/hr)	Fuel	Type of Unit	Basis for Exemption	Notes
7501	172 10th St	3855	American Water Heater Company	G52-40T34-3N	NA	0.034	NG	Water Heater	202.G.1	
7523	156th 10th Street	4060	Raypak	H7-2003	NA	1.999	NG	Boiler	202.G.1	
7523	156 10th Street	732807	Raypak	H7-2003A	NA	2	NG	Boiler	202.G.1	
7525	1579 Utah Ave	3919	American Water Heater Co	PG1034-100-2NV	NA	0.1	NG	Water Heater	202.G.1	
8173	1524 Nevada Ave	4319	Raypak	H7-2003	NA	1.999	NG	Boiler	202.G.1	
8173	1524 Nevada Ave	657191	Dristeam	GTS99-400-DI	NA	0.4	NG	Steam Humidifier	202.G.1	
8173	1524 Nevada Ave	659960	Dristeam	GTS99-400-DI	NA	0.4	NG	Steam Humidifier	202.G.1	
8173	1524 Nevada Ave	698745	Bradford White	ULG275H763N	NA	0.076	NG	Water Heater	202.G.1	
8175	1520 Nevada Ave	3677	Hydrotherm	AM-300	NA	0.299	NG	Boiler	202.G.1	
8175	1520 Nevada Ave	701734	Rheem	G75-75N-2	NA	0.0751	NG	Water Heater	202.G.1	
8175	1520 Nevada Ave	704761	Raypak	WH1-0402	NA	0.399	NG	Boiler	202.G.1	
8190	1580 Nevada St	4106	Weather Rite	TOT-215HHI	NA	1.2	NG	Heater	202.G.1	
8195	1522 Nevada Ave	4020	Laars Heating Systems	PNCH1000NACN2CXN	NA	0.99996	NG	Boiler	202.G.1	
8195	1522 Nevada Ave	698399	Bradford White	URG140T6N	NA	0.034	NG	Water Heater	202.G.1	
8250	1529 California Blvd	3680	Hydrotherm	AM-300	NA	0.299	NG	Boiler	202.G.1	
8250	1529 California Blvd	3826	Hydrotherm	AM-300	NA	0.299	NG	Boiler	202.G.1	
8290	1472 Nevada Ave	3682	American Appliance Mfg Co	DSID199-85-1	NA	0.199	NG	Water Heater	202.G.1	
8290	1472 Nevada Ave	4184	Raypak	H9-1262B	NA	1.262	NG	Boiler	202.G.1	
8305	385 8th St	3683	Ajax Boiler	WNG-350	NA	0.35	NG	Boiler	202.G.1	
8305	385 8th St	676821	American	ESG 41	NA	0.033	NG	Water Heater	202.G.1	
8305	385 8th St	701735	Bradford White	U140T6FRN	NA	0.04	NG	Water Heater	202.G.1	
8310	351 8th St	2627	Fulton Pulse Combust	PHW1000	NA	1	NG	Boiler	202.G.1	
8310	351 8th St	3684	A.O. Smith	BTR200 104	NA	0.199	NG	Water Heater	202.G.1	
8310	351 8th St	731904	Parker Boiler Co.	T970LR	NA	0.97	NG	Boiler	202.G.1	
8310	351 8th St	731906	Parker Boiler Co.	T970LR	NA	0.97	NG	Boiler	202.G.1	
8312	376 8th St	4219	A.O. Smith	FGR40240	NA	0.038	NG	Water Heater	202.G.1	
8312	376 8th St	4308	Comfort Aire	GMUH125-E5A	NA	0.125	NG	Furnace	202.G.1	

Table 3-2. Permit Exempt External Combustion Equipment

Building Number	Equipment Location	Operator ID	Make	Model	Model Year	Rating (MMBtu/hr)	Fuel	Type of Unit	Basis for Exemption	Notes
8312	376 8th St	4309	Comfort Aire	GMUH125-E5A	NA	0.125	NG	Furnace	202.G.1	
8314	374 8th St	3857	American Water Heater Co	G62-40T34-3N	NA	0.034	NG	Water Heater	202.G.1	
8314	374 8th St	4025	Patterson-Kelley	N750-MFD	NA	0.75	NG	Boiler	202.G.1	
8314	374 8th St	4026	Patterson-Kelley	N750-MFD	NA	0.75	NG	Boiler	202.G.1	
8317	344 8th Street	701736	American Water Heater Co	G52-40T34-3N	NA	0.034	NG	Water Heater	202.G.1	
8337	321 6th St	1066	Raypak	H0824A CCCRCBX	NA	0.825	NG	Boiler	202.G.1	
8337	321 6th St	3630	Patterson-Kelley	N-700	NA	0.7	NG	Boiler	202.G.1	
8337	321 6th St	3631	Patterson-Kelley	N-700	NA	0.7	NG	Boiler	202.G.1	
8337	321 6th St	676822	Bradford White	M440T6FBN	NA	0.04	NG	Water Heater	202.G.1	
8339	308 8th St	4185	American Water Heater Co	G61-40T34-3N	NA	0.034	NG	Water Heater	202.G.1	
8401	1521 Utah Ave	4043	Raypak	H7-1503	NA	1.5	NG	Boiler	202.G.1	
8401	1521 Utah Ave	4044	Raypak	H7-1503	NA	1.5	NG	Boiler	202.G.1	
8401	1521 Utah Ave	648903	Raypak	H7-0300A	NA	0.3	NG	Boiler	202.G.1	
8401	1521 Utah Ave	648927	Raypak	H7-0300A	NA	0.3	NG	Boiler	202.G.1	
8415	178 8th St	1073	Ajax Boiler	WGB-1750	NA	1.75	NG	Boiler	202.G.1	
8425	1411 Utah Ave	3382	Lennox	G20Q5/6X-100-7	NA	0.08	NG	Furnace	202.G.1	
8425	1411 Utah Ave	3383	Lennox	G20Q5/6X-100-7	NA	0.1	NG	Furnace	202.G.1	
8500	1515 Iceland Ave	3745	Bradford White	D100L1993N	NA	0.199	NG	Water Heater	202.G.1	
8500	1515 Iceland Ave	3858	American Water Heater Co	DCG31100S1996N	NA	0.199	NG	Water Heater	202.G.1	
8500	1515 Iceland Ave	4088	Raypak	H7-2003	NA	1.999	NG	Boiler	202.G.1	
8500	1515 Iceland Ave	732808	Raypak	H7-2003A	NA	2	NG	Boiler	202.G.1	
8505	1539 Iceland Ave	3688	American Appliance Mfg Co	DSID250-100	NA	0.25	NG	Water Heater	202.G.1	
8510	1521 Iceland Ave	724497	Rheem Sales Co.	XG40T06EN38U0	NA	0.038	NG	Water Heater	202.G.1	
8510	1521 Iceland Ave	727882	Cleaver Brooks	CFC-E	NA	0.5	NG	Boiler	202.G.1	
8510	1521 Iceland Ave	727883	Cleaver Brooks	CFC-E	NA	0.5	NG	Boiler	202.G.1	
8510	1521 Iceland Ave	732819	Rheem	XG40T09EN38U1	NA	0.038	NG	Water Heater	202.G.1	
9005	725 Washington Ave	3859	Lochinvar	CBN0745	NA	0.745	NG	Boiler	202.G.1	
9005	725 Washington Ave	3860	Lochinvar	CBN0745	NA	0.745	NG	Boiler	202.G.1	

Table 3-2. Permit Exempt External Combustion Equipment

Building Number	Equipment Location	Operator ID	Make	Model	Model Year	Rating (MMBtu/hr)	Fuel	Type of Unit	Basis for Exemption	Notes
9005	725 Washington Ave	3861	Lochinvar	EWN150PM	NA	0.15	NG	Boiler	202.G.1	
9005	725 Washington Ave	3862	Lochinvar	EWN150PM	NA	0.15	NG	Boiler	202.G.1	
9190	1382 Nevada Ave	4186	Patterson-Kelley	C-300LNX	NA	0.3	NG	Boiler	202.G.1	
9190	1382 Nevada Ave	676823	Patterson-Kelley	C-300LNX	NA	0.3	NG	Boiler	202.G.1	
9190	1382 Nevada Ave	709144	AO Smith	BTH-400A300	NA	0.399	NG	Boiler	202.G.1	
9192	1390 Nevada Ave	676358	Raypak	WH7-0300A	NA	0.3	NG	Boiler	202.G.1	
9307	356 6th St	676824	Bradford White	U15036FRN	NA	0.04	NG	Water Heater	202.G.1	
9320	334 6th St	3636	Lochinvar	CBN1796	NA	1.79	NG	Boiler	202.G.1	
9320	334 6th St	676825	Modine	HFG400AMRHN23F2	NA	0.2	NG	Furnace	202.G.1	
9320	344 6th St	694974	Bradford White	U140T6FRN	NA	0.04	NG	Water Heater	202.G.1	
9334	360 6th St	3698	Raypak	WH3-0502	NA	0.5	NG	Boiler	202.G.1	
9334	360 6th St	4190	American Water Heater Co	FG140T403NO	NA	0.04	NG	Water Heater	202.G.1	
9340	372 6th St	3247	Reznor	HCRGB75-5-2	NA	0.75	NG	Furnace	202.G.1	
9340	372 6th St	3621	Trane	YCD150D4L0AA	NA	0.15	NG	Furnace	202.G.1	
9340	372 6th St	3622	Trane	BYC130G4H0DA	NA	0.3	NG	Furnace	202.G.1	
9340	372 6th St	3623	Trane	YCD150C4L0BB	NA	0.15	NG	Furnace	202.G.1	
9340	372 6th St	3624	Trane	YCH180BN4L0DE	NA	0.25	NG	Furnace	202.G.1	
9340	372 6th St	3625	Trane	BYC060F4L0BB	NA	0.875	NG	Furnace	202.G.1	
9340	372 6th St	3863	A.O. Smith	FCG 100 270	NA	0.075	NG	Water Heater	202.G.1	
9340	372 6th St	4191	American Water Heater Co	GVF433TN	NA	0.033	NG	Water Heater	202.G.1	
9340	372 6th St	4192	Rheem	82V40-2	NA	0.033	NG	Water Heater	202.G.1	
9340	372 6th St	4193	A.O. Smith	FCG100270	NA	0.04	NG	Water Heater	202.G.1	
9340	372 6th St	694975	Trane	Y1AC060A4RLA	NA	0.06	NG	Furnace	202.G.1	
9340	372 6th St	701725	Trane	YHC060A4RLAIM	NA	0.6	NG	Furnace	202.G.1	
9360	1318 New Mexico Ave	698360	Raypak	H3-HD301	NA	0.299	NG	Boiler	202.G.1	
9360	1318 New Mexico Ave	727980	Bradford White	URG240T6N	NA	0.4	NG	Water Heater	202.G.1	
10122	706 Washington Ave	3250	Lennox	G20Q5/6X-100-7	NA	0.1	NG	Furnace	202.G.1	

Table 3-2. Permit Exempt External Combustion Equipment

Building Number	Equipment Location	Operator ID	Make	Model	Model Year	Rating (MMBtu/hr)	Fuel	Type of Unit	Basis for Exemption	Notes
10122	706 Washington Ave	676827	Reznor	SCE175-6	NA	0.175	NG	Furnace	202.G.1	
10122	706 Washington Ave	676828	Reznor	SSCBL400-6-S-2	NA	0.4	NG	Furnace	202.G.1	
10122	706 Washington Ave	694976	Trane	TUE1D140A9601AD	NA	0.14	NG	Furnace	202.G.1	
10122	706 Washington Ave	724648	Bradford White	URG140T6N	NA	0.04	NG	Water Heater	202.G.1	
10130	737 Washington Ave	4295	Riverside Hydronics	2000W	NA	2	NG	Water Heater	202.G.1	
10130	737 Washington Ave	676829	Green Heck	IGX-110-H12-HZ	NA	0.1	NG	Furnace	202.G.1	
10130	737 Washington Ave	676830	Green Heck	IGX-112-H22-HZ	NA	0.2	NG	Furnace	202.G.1	
10130	737 Washington Ave	676831	Green Heck	IG-109-H10-HZ	NA	0.075	NG	Furnace	202.G.1	
10130	737 Washington Ave	676832	Green Heck	IG-112-H20-HZ	NA	0.2	NG	Furnace	202.G.1	
10130	737 Washington Ave	676833	Green Heck	IG-112-H20-HZ	NA	0.2	NG	Furnace	202.G.1	
10130	737 Washington Ave	676834	Trane	YHC092A4RZA2YD1B0A0A20600	NA	0.2	NG	Furnace	202.G.1	
10130	737 Washington Ave	676835	Trane	YHC092A4RZA2YD1B0A0A20600	NA	0.12	NG	Furnace	202.G.1	
10130	737 Washington Ave	676836	Trane	YHC072A4RYA2TD1B0A0A20600	NA	0.12	NG	Furnace	202.G.1	
10130	737 Washington Ave	676837	Trane	YHC072A4RYA2TD1B0A0A20600	NA	0.12	NG	Furnace	202.G.1	
10130	737 Washington Ave	694977	Trane	YHC092A4RZA2YD1B0A0A20600	NA	0.2	NG	Furnace	202.G.1	
10144	712 Washington Ave	656862	Raypak	P-2005	NA	1.5	NG	Boiler	202.G.1	
10144	712 Washington Ave	656863	Raypak	P-2005	NA	1.5	NG	Boiler	202.G.1	
10144	712 Washington Ave	658898	Takag	T-M50-N	NA	0.38	NG	Water Heater	202.G.1	
10144	712 Washington Ave	658900	Bradford White	T65693N	NA	0.065	NG	Water Heater	202.G.1	

Table 3-2. Permit Exempt External Combustion Equipment

Building Number	Equipment Location	Operator ID	Make	Model	Model Year	Rating (MMBtu/hr)	Fuel	Type of Unit	Basis for Exemption	Notes
10250	100 Alaska	694980	Reznor	FE50	NA	0.5	NG	Furnace	202.G.1	
10250	100 Alaska	694981	Reznor	FE50	NA	0.5	NG	Furnace	202.G.1	
10250	100 Alaska	694982	Reznor	FE50	NA	0.5	NG	Furnace	202.G.1	
10260	101 Community Loop	727981	Intertek	RDF-2-80	NA	0.8	NG	Furnace	202.G.1	
10314	1206 California Blvd	656935	Bradford White	M2XR75S6BN	NA	0.07645	NG	Water Heater	202.G.1	
10317	1204 California Blvd	676839	Trane	TUD1C100A9601AB	NA	0.01	NG	Furnace	202.G.1	
10317	1204 California Blvd	694984	Trane	TUD1C100A9601AB	NA	0.1	NG	Furnace	202.G.1	
10317	1204 California Blvd	711980	Bradford White	URG240T6N	NA	0.04	NG	Water Heater	202.G.1	
10343	718 Community Loop	2614	Modine	DFG300SFRNN10A1	NA	0.3	NG	Furnace	202.G.1	
10343	718 Community Loop	2615	Modine	DFG300SFRNN10A1	NA	0.3	NG	Furnace	202.G.1	
10343	718 Community Loop	3252	Lennox	G50UH-60C-110X-07	NA	0.11	NG	Furnace	202.G.1	
10343	718 Community Loop	3253	Lennox	G50UH-60C-110X-07	NA	0.11	NG	Furnace	202.G.1	
10343	718 Community Loop	706526	Bradford White	URG240T6N	NA	0.04	NG	Water Heater	202.G.1	
10363	720 Community Loop	3355	Lennox	G20Q3/4X-125-3	NA	0.125	NG	Furnace	202.G.1	
10363	720 Community Loop	3356	Lennox	G20Q3/4X-125-3	NA	0.125	NG	Furnace	202.G.1	
10363	720 Community Loop	676841	Lennox	G20Q3/4X-125-7	NA	0.125	NG	Furnace	202.G.1	
10363	720 Community Loop	676842	Lennox	G50UH-60C-110X-05	NA	0.11	NG	Furnace	202.G.1	
10364	722 Community Loop	4197	Vangaurd	5AU69	NA	0.038	NG	Water Heater	202.G.1	
10366	730 Community Loop	3287	Bryant	395CAV060111	NA	0.11	NG	Furnace	202.G.1	
10366	730 Community Loop	3353	Lennox	G16Q5X-100-5	NA	0.1	NG	Furnace	202.G.1	

Table 3-2. Permit Exempt External Combustion Equipment

Building Number	Equipment Location	Operator ID	Make	Model	Model Year	Rating (MMBtu/hr)	Fuel	Type of Unit	Basis for Exemption	Notes
10366	730 Community Loop	3354	Lennox	G16Q5X-100-5	NA	0.1	NG	Furnace	202.G.1	
10366	730 Community Loop	3865	A.O. Smith	FCG 100 270	NA	0.075	NG	Water Heater	202.G.1	
10366	730 Community Loop	694985	Bryant	395CAV060111	NA	0.11	NG	Furnace	202.G.1	
10366	730 Community Loop	694986	Bryant	395CAV060111	NA	0.11	NG	Furnace	202.G.1	
10366	730 Community Loop	694987	Bradford White	U140T6FRN	NA	0.04	NG	Water Heater	202.G.1	
10373	724 Community Loop	3357	Lennox	G20Q5/6X-100-2	NA	0.1	NG	Furnace	202.G.1	
10373	724 Community Loop	4202	A.O. Smith	40248E	NA	0.038	NG	Water Heater	202.G.1	
10375	CoastHills Credit Union	676843	Lennox	TGA090H2B	NA	0.13	NG	Furnace	202.G.1	
10375	CoastHills Credit Union	676844	Lennox	TGA090H2B	NA	0.13	NG	Furnace	202.G.1	
10375	CoastHills Credit Union	676846	Lennox	TGA090H2B	NA	0.13	NG	Furnace	202.G.1	
10375	CoastHills Credit Union	676849	Carrier	48GSN036060511--	NA	0.06	NG	Furnace	202.G.1	
10400	728 Community Loop	3701	Ajax Boiler	WFG-800-LN	NA	0.8	NG	Boiler	202.G.1	
10503	711 Nebraska Ave	4000	Raypak	WH1-0402	NA	0.399	NG	Boiler	202.G.1	
10503	711 Nebraska Ave	4203	Bradford White	M4403T6EN12	NA	0.04	NG	Water Heater	202.G.1	
10510	1142 California Blvd	4090	American Standard	BCG380T1506NOX	NA	0.154	NG	Water Heater	202.G.1	
10525	723 Nebraska Ave	4340	Vangaurd	5AU69	NA	0.038	NG	Water Heater	202.G.1	
10525	723 Nebraska Ave	676854	Bradford White	M440T6FBN	NA	0.04	NG	Water Heater	202.G.1	
10525	723 Nebraska Ave	727982	Raypak	HB-0752B	NA	0.75	NG	Boiler	202.G.1	
10577	747 Nebraska Ave	4276	Raypak	H7-0500	NA	0.5	NG	Boiler	202.G.1	
10577	747 Nebraska Ave	4277	Raypak	H7-0500	NA	0.5	NG	Boiler	202.G.1	
10577	747 Nebraska Ave	4278	Raypak	H7-0500	NA	0.5	NG	Boiler	202.G.1	
10577	747 Nebraska Ave	4279	Raypak	H7-0500	NA	0.5	NG	Boiler	202.G.1	

Table 3-2. Permit Exempt External Combustion Equipment

Building Number	Equipment Location	Operator ID	Make	Model	Model Year	Rating (MMBtu/hr)	Fuel	Type of Unit	Basis for Exemption	Notes
10577	747 Nebraska Ave	724479	Raypak	H7-500	NA	0.5	NG	Boiler	202.G.1	
10577	747 Nebraska Ave	727983	Raypak	H7-0500A	NA	0.5	NG	Boiler	202.G.1	
10660	1160 New Mexico Ave	707839	American Water Heater Co	BCL3100T1996NOX	NA	0.199	NG	Water Heater	202.G.1	
10660	1160 New Mexico Ave	707840	Raypak	H3-HD401	NA	0.399	NG	Boiler	202.G.1	
10711	433 Herado Ave	3134	Reznor	HXE350-6	NA	0.35	NG	Furnace	202.G.1	
10711	433 Herado Ave	4304	American Water Heater Co	CG32-75T75-4NOV	NA	0.075	NG	Water Heater	202.G.1	
10711	433 Herado Ave	676857	Weater Rite	ARTT218HHL	NA	0.855	NG	Furnace	202.G.1	
10711	433 Herado Ave	676860	Reznor	PDH400A-2	NA	0.4	NG	Furnace	202.G.1	
10711	433 Herado Ave	676862	Reznor	PDH350-2	NA	0.35	NG	Furnace	202.G.1	
10711	433 Herado Ave	694989	Weater Rite	TOT-221-HHR	NA	1.6	NG	Furnace	202.G.1	
10711	433 Herado Ave	695630	Weater Rite	TOT-215-HH	NA	0.612	NG	Furnace	202.G.1	
10711	433 Herado Ave	727984	Rheem	G75-75N-3	NA	0.75	NG	Water Heater	202.G.1	
10711	433 Herado Ave	727985	Trande	DFIA120HLS	NA	0.58	NG	Boiler	202.G.1	
10713	431 Herado Ave	4205	Bradford White	M4403T6EN12	NA	0.04	NG	Water Heater	202.G.1	
10713	431 Herado Ave	657197	Bryant	311JAV066110ADJA	NA	0.11	NG	Furnace	202.G.1	
10713	431 Herado Ave	727986	Bradford White	URG140T6N	NA	0.034	NG	Water Heater	202.G.1	
10715	416 Washington Ave	694990	Nortek	Unknown	NA	0.1	NG	Furnace	202.G.1	
10715	416 Washington Ave	700461	York	LY8S100C20UH11C	NA	0.1	NG	Furnace	202.G.1	
10717	430 Washington Ave	3359	Gaffers-Sattler	U80-3	NA	0.08	NG	Furnace	202.G.1	
10717	430 Washington Ave	4206	Bradford White	M4403T6EN12	NA	0.04	NG	Water Heater	202.G.1	
10717	430 Washington Ave	713405	Bradford White	URG240T6N	NA	0.04	NG	Water Heater	202.G.1	
10728	1251 California Blvd	4321	American	HCG3100T1993N	NA	0.1999	NG	Water Heater	202.G.1	
11013	1036 California Blvd	706417	Bradford White	URG140T6N	NA	0.034	NG	Water Heater	202.G.1	
11013	1036 California Blvd	727987	Raypak	456334	NA	0.239	NG	Boiler	202.G.1	

Table 3-2. Permit Exempt External Combustion Equipment

Building Number	Equipment Location	Operator ID	Make	Model	Model Year	Rating (MMBtu/hr)	Fuel	Type of Unit	Basis for Exemption	Notes
11025	964 Utah Ave	4220	American Water Heater Co	BFG6140T403NO	NA	0.04	NG	Water Heater	202.G.1	
11040	41 Santa Inez Ave	727988	Trane	TZ80MSS050A30XA	NA	0.5	NG	Furnace	202.G.1	
11040	41 Santa Inez Ave	727989	Trane	TZ80MSS050A30XA	NA	0.5	NG	Furnace	202.G.1	
11041	41 Santa Inez Ave	4315	Bradford White	M440T6FBN	NA	0.04	NG	Water Heater	202.G.1	
11041	71 Santa Inez Ave	676865	Heat Transfer Products	PH199-55	NA	0.199	NG	Water Heater	202.G.1	
11041	71 Santa Inez Ave	676866	Heat Transfer Products	PH199-55	NA	0.199	NG	Water Heater	202.G.1	
11041	71 Santa Inez Ave	676868	Raypak	H7-0500A	NA	0.5	NG	Boiler	202.G.1	
11042	91 Santa Inez Ave	676875	Heat Transfer Products	PH199-55	NA	0.199	NG	Water Heater	202.G.1	
11042	91 Santa Inez Ave	676878	Heat Transfer Products	PH199-55	NA	0.199	NG	Water Heater	202.G.1	
11042	91 Santa Inez Ave	676881	Raypak	H7-0500A	NA	0.5	NG	Boiler	202.G.1	
11042	91 Santa Inez Ave	676882	Raypak	H7-0500A	NA	0.5	NG	Boiler	202.G.1	
11070	758 Nebraska Ave	3141	Raypak	W1-0263B-BEDHDAA	NA	0.21648	NG	Boiler	202.G.1	
11070	758 Nebraska Ave	657204	Raypak	WH1-HD301	NA	0.299	NG	Boiler	202.G.1	
11070	758 Nebraska Ave	694991	Reznor	RPB175-8-S	NA	0.175	NG	Furnace	202.G.1	
11070	758 Nebraska Ave	694992	Reznor	RPB125-8-S	NA	0.125	NG	Furnace	202.G.1	
11070	758 Nebraska Ave	694993	Reznor	RPB125-8-S-2-H	NA	0.125	NG	Furnace	202.G.1	
11070	758 Nebraska Ave	694994	Reznor	RPB175-8-S	NA	0.175	NG	Furnace	202.G.1	
11070	758 Nebraska Ave	694995	Reznor	RPB175-8-S	NA	0.175	NG	Furnace	202.G.1	
11070	758 Nebraska Ave	694996	Reznor	RPB225-8-S	NA	0.25	NG	Furnace	202.G.1	
11070	758 Nebraska Ave	694997	Reznor	RPB125-8-S-2-H	NA	0.125	NG	Furnace	202.G.1	
11070	758 Nebraska Ave	694998	Reznor	RPB225-8-S	NA	0.25	NG	Furnace	202.G.1	
11070	758 Nebraska Ave	694999	Reznor	RPB225-8-S	NA	0.25	NG	Furnace	202.G.1	
11070	758 Nebraska Ave	695000	Reznor	RPB175-8-S	NA	0.175	NG	Furnace	202.G.1	
11070	758 Nebraska Ave	695001	Reznor	RPB225-8-S	NA	0.225	NG	Furnace	202.G.1	
11070	758 Nebraska Ave	695002	Reznor	RPB350-8-S	NA	0.35	NG	Furnace	202.G.1	
11070	758 Nebraska Ave	695003	Reznor	RPB350-8-S	NA	0.35	NG	Furnace	202.G.1	
11070	758 Nebraska Ave	695004	Reznor	RPBL500-8	NA	0.5	NG	Furnace	202.G.1	
11070	758 Nebraska Ave	695005	Reznor	RPBL500-8	NA	0.5	NG	Furnace	202.G.1	
11070	758 Nebraska Ave	695006	Reznor	RPBL500-8	NA	0.5	NG	Furnace	202.G.1	

Table 3-2. Permit Exempt External Combustion Equipment

Building Number	Equipment Location	Operator ID	Make	Model	Model Year	Rating (MMBtu/hr)	Fuel	Type of Unit	Basis for Exemption	Notes
11070	758 Nebraska Ave	695007	Reznor	RPB175-8-S	NA	0.175	NG	Furnace	202.G.1	
11070	758 Nebraska Ave	695008	Reznor	RPB125-8-S-2-H	NA	0.125	NG	Furnace	202.G.1	
11070	758 Nebraska Ave	695009	Reznor	RPB175-8-S	NA	0.175	NG	Furnace	202.G.1	
11070	758 Nebraska Ave	695010	Reznor	RPB175-8-S	NA	0.175	NG	Furnace	202.G.1	
11070	758 Nebraska Ave	695011	Reznor	RPB175-8-S	NA	0.175	NG	Furnace	202.G.1	
11070	758 Nebraska Ave	704759	Parker Boiler Co.	20L	NA	0.86	NG	Boiler	202.G.1	
11146	1028 Iceland Ave	659343	York	LY8S100C20UH11C	NA	0.1	NG	Furnace	202.G.1	
11146	1028 Iceland Ave	659346	York	GY8S160E30UH21C	NA	0.16	NG	Furnace	202.G.1	
11146	1028 Iceland Ave	659365	York	GY8S160E30UH21C	NA	0.16	NG	Furnace	202.G.1	
11152	301 Guam Ave	3260	Carrier	PG8UAA060111	NA	0.11	NG	Furnace	202.G.1	
11165	1207 New Mexico Ave	3360	Bryant	376CAV060115	NA	0.115	NG	Furnace	202.G.1	
11165	1207 New Mexico Ave	727990	Bradford White	URG240T6N	NA	0.04	NG	Water Heater	202.G.1	
11177	Iceland Ave	704017	Bradford White	URG140T6N	NA	0.034	NG	Water Heater	202.G.1	
11248	869 Iceland Ave	3361	Raypak	H1-0263	NA	0.264	NG	Boiler	202.G.1	
11248	869 Iceland Ave	4343	American Proline	FG6140T403N0	NA	0.04	NG	Water Heater	202.G.1	
11248	869 Iceland Ave	727991	Takagi	AT-H3M-DV-N	NA	0.12	NG	Water Heater	202.G.1	
11352	247 Nebraska Ave	4344	Bradford White	M4403T6EN12	NA	0.04	NG	Water Heater	202.G.1	
11352	247 Nebraska Ave	676888	Raypak	H4-0042R	NA	0.042	NG	Boiler	202.G.1	
11352	247 Nebraska Ave	676890	Payne	PG8UAA066111	NA	0.11	NG	Furnace	202.G.1	
11352	247 Nebraska Ave	676892	Payne	PG8UAA066111	NA	0.11	NG	Furnace	202.G.1	
11352	247 Nebraska Ave	676894	Lennox	ML180UH110XP60C-01	NA	0.11	NG	Furnace	202.G.1	
11432	1114 Iceland Ave	730209	Mestek, Inc.	RT10	NA	0.1	NG	Furnace	202.G.1	
11432	1114 Iceland Ave	730211	Mestek, Inc.	RT10	NA	0.1	NG	Furnace	202.G.1	
11432	1114 Iceland Ave	730216	Mestek, Inc.	RT10	NA	0.1	NG	Furnace	202.G.1	
11433	1130 Iceland Ave	4350	Reznor	HCRG75-7	NA	0.075	NG	Furnace	202.G.1	
11433	1130 Iceland Ave	4351	Reznor	HCRG75-7	NA	0.075	NG	Furnace	202.G.1	
11433	1130 Iceland Ave	4352	Reznor	HCRG75-7	NA	0.075	NG	Furnace	202.G.1	
11433	1130 Iceland Ave	4353	Reznor	HCRG75-7	NA	0.075	NG	Furnace	202.G.1	

Table 3-2. Permit Exempt External Combustion Equipment

Building Number	Equipment Location	Operator ID	Make	Model	Model Year	Rating (MMBtu/hr)	Fuel	Type of Unit	Basis for Exemption	Notes
11433	1130 Iceland Ave	4354	Reznor	HCRG75-7	NA	0.075	NG	Furnace	202.G.1	
11433	1130 Iceland Ave	4355	Reznor	HCRG75-7	NA	0.075	NG	Furnace	202.G.1	
11433	1130 Iceland Ave	648941	Bradford White	U140T6FRN	NA	0.04	NG	Water Heater	202.G.1	
11439	1172 Iceland Ave	3637	Parker Boiler Co.	T760LR	NA	0.76	NG	Boiler	202.G.1	
11439	1172 Iceland Ave	676903	Trane	YCP036F3LOAD	NA	0.04	NG	Furnace	202.G.1	
11439	1172 Iceland Ave	676904	Trane	YCP036F3LOAD	NA	0.04	NG	Furnace	202.G.1	
11439	1172 Iceland Ave	730223	Carrier Corp	48ES-A6009050	NA	0.09	NG	Furnace	202.G.1	
11442	1115 Iceland Ave	701737	Trane	4Y CZ6060A1120AB	NA	0.12	NG	Furnace	202.G.1	
11442	1115 Iceland Ave	701738	Trane	4Y CZ6060A1120AB	NA	0.12	NG	Furnace	202.G.1	
11477	1273 Utah Ave	656889	Raypak	WH1-HD251	NA	0.25	NG	Boiler	202.G.1	
11477	1273 Utah Ave	727992	Bradford White	URG150T6N	NA	0.034	NG	Water Heater	202.G.1	
11510	1209 Utah Ave	676911	York	P4HUC20L09201A	NA	0.115	NG	Furnace	202.G.1	
11510	1209 Utah Ave	706527	Bradford White	U130T6FRN	NA	0.032	NG	Water Heater	202.G.1	
11777	California Blvd and Utah Ave	3713	Bradford White	M4403T6EN12	NA	0.04	NG	Water Heater	202.G.1	
12000	867 Washington Ave	4110	Hydrotherm	KN-10	NA	1	NG	Boiler	202.G.1	
12000	867 Washington Ave	4111	Hydrotherm	KN-10	NA	1	NG	Boiler	202.G.1	
12006	865 Washington Ave	4346	Pvi	250P125A-TPL	NA	0.199	NG	Water Heater	202.G.1	
12006	865 Washington Ave	721569	Patterson-Kelley	N2000-MFD	NA	2	NG	Boiler	202.G.1	
12006	865 Washington Ave	721570	Patterson-Kelley	N2000-MFD	NA	2	NG	Boiler	202.G.1	
12901	1102 Buellton Drive	3371	Lennox	G20Q3X-75-7	NA	0.075	NG	Furnace	202.G.1	
12901	1102 Buellton Drive	4224	Lennox	G20Q3X-75-7	NA	0.075	NG	Furnace	202.G.1	
12901	1102 Buellton Drive	658409	A.O. Smith	BTL 199 104	NA	0.199	NG	Boiler	202.G.1	
12903	1104 Buellton Drive	4210	Bradford White	D100L1993N	NA	0.199999	NG	Water Heater	202.G.1	

Table 3-2. Permit Exempt External Combustion Equipment

Building Number	Equipment Location	Operator ID	Make	Model	Model Year	Rating (MMBtu/hr)	Fuel	Type of Unit	Basis for Exemption	Notes
12903	1104 Buellton Drive	4225	Lennox	G20Q3X-75-7	NA	0.075	NG	Furnace	202.G.1	
12903	1104 Buellton Drive	4226	Lennox	G20Q3X-75-7	NA	0.075	NG	Furnace	202.G.1	
12905	1106 Buellton Drive	4227	Lennox	G20Q3X-75-7	NA	0.075	NG	Furnace	202.G.1	
12905	1106 Buellton Drive	4228	Lennox	G20Q3X-75-7	NA	0.075	NG	Furnace	202.G.1	
12905	1106 Buellton Drive	676921	American Water Heater Co	CG32-75T75-4NOV	NA	0.0751	NG	Water Heater	202.G.1	
12907	1108 Buellton Drive	4229	Lennox	G20Q3X-75-7	NA	0.075	NG	Furnace	202.G.1	
12907	1108 Buellton Drive	707841	Bradford White	URG140T6N	NA	0.034	NG	Water Heater	202.G.1	
12911	1103 Buellton Drive	4213	American Appliance	DSID2501001	NA	0.25	NG	Water Heater	202.G.1	
12911	1103 Buellton Drive	4230	Lennox	G20Q3X-75-7	NA	0.075	NG	Furnace	202.G.1	
12911	1103 Buellton Drive	4231	Lennox	G20Q3X-75-7	NA	0.075	NG	Furnace	202.G.1	
12913	1105 Buellton Drive	4214	Bradford White	M475S6CN12	NA	0.075	NG	Water Heater	202.G.1	
12913	1105 Buellton Drive	4232	Lennox	G20Q3X-75-7	NA	0.075	NG	Furnace	202.G.1	
12913	1105 Buellton Drive	4233	Lennox	G20Q3X-75-7	NA	0.075	NG	Furnace	202.G.1	
12915	1107 Buellton Drive	4234	Lennox	G20Q3X-75-7	NA	0.075	NG	Furnace	202.G.1	
12915	1107 Buellton Drive	4235	Lennox	G20Q3X-75-7	NA	0.075	NG	Furnace	202.G.1	
12915	1107 Buellton Drive	713407	Bradford White	UCG100H2703N	NA	0.27	NG	Water Heater	202.G.1	
13001	181 Oregon Ave	3262	Carrier	58WAV091-16	NA	0.088	NG	Furnace	202.G.1	
13001	181 Oregon Ave	3263	Carrier	58WAV091-16	NA	0.088	NG	Furnace	202.G.1	
13001	181 Oregon Ave	3264	Carrier	58WAV091-16	NA	0.088	NG	Furnace	202.G.1	
13001	181 Oregon Ave	3265	Carrier	58WAV091-16	NA	0.088	NG	Furnace	202.G.1	

Table 3-2. Permit Exempt External Combustion Equipment

Building Number	Equipment Location	Operator ID	Make	Model	Model Year	Rating (MMBtu/hr)	Fuel	Type of Unit	Basis for Exemption	Notes
13005	189 Oregon Ave	4314	Reznor	CAUA250-S	NA	0.25	NG	Furnace	202.G.1	
13005	189 Oregon Ave	676922	Frazer-Johnson	250-C-33	NA	0.75	NG	Furnace	202.G.1	
13007	251 Oregon Ave	1114	Raypak	H1-0624	NA	0.627	NG	Boiler	202.G.1	
13007	251 Oregon Ave	3718	A.O. Smith	BTR198100	NA	0.199	NG	Water Heater	202.G.1	
13007	251 Oregon Ave	3719	Bradford White	D100L1993N	NA	0.19999	NG	Water Heater	202.G.1	
13007	251 Oregon Ave	3720	Bradford White	D100L1993N	NA	0.19999	NG	Water Heater	202.G.1	
13022	285 Kansas Ave	3143	Reznor	XE400-8-S-E	NA	0.4	NG	Furnace	202.G.1	
13022	285 Kansas Ave	707842	Bradford White	M4403T6EN12	NA	0.036	NG	Water Heater	202.G.1	
13121	377 South Dakota Ave	2661	Raypak	W1-0514A-DEDRDAA	NA	0.5119	NG	Boiler	202.G.1	
13121	377 South Dakota Ave	2679	Hydrotherm	AM-300	NA	0.299	NG	Boiler	202.G.1	
13121	377 South Dakota Ave	3916	Hydrotherm	AM-300	NA	0.299	NG	Boiler	202.G.1	
13121	377 South Dakota Ave	3917	Hydrotherm	AM-300	NA	0.299	NG	Boiler	202.G.1	
13123	2151 South Dakota Ave	2660	Raypak	W1-0514A-DEDRDAA	NA	0.512	NG	Boiler	202.G.1	
13123	2151 South Dakota Ave	730224	Raypak	H7-0300A	NA	0.3	NG	Boiler	202.G.1	
13123	2151 South Dakota Ave	730225	Raypak	H7-0300A	NA	0.3	NG	Boiler	202.G.1	
13137	1031 California	703917	Raypak	H7-0500A	NA	0.5	NG	Boiler	202.G.1	
13137	1031 California	703918	Raypak	H7-0500A	NA	0.5	NG	Boiler	202.G.1	
13137	1031 California	703919	Raypak	WH7-0500A	NA	0.5	NG	Boiler	202.G.1	
13137	1031 California	703920	Raypak	WH7-0500A	NA	0.5	NG	Boiler	202.G.1	
13143	"O" St and Kansas Ave	1119	Raypak	H3-0624A-CCCRCAA	NA	0.627	NG	Boiler	202.G.1	
13143	"O" St and Kansas Ave	1120	Raypak	H3-0624A-CCCRCAA	NA	0.627	NG	Boiler	202.G.1	
13321	261 South Dakota Ave	703942	Raypak	H7-0300A	NA	0.3	NG	Boiler	202.G.1	
13321	261 South Dakota Ave	704757	Raypak	H7-0300A	NA	0.3	NG	Boiler	202.G.1	

Table 3-2. Permit Exempt External Combustion Equipment

Building Number	Equipment Location	Operator ID	Make	Model	Model Year	Rating (MMBtu/hr)	Fuel	Type of Unit	Basis for Exemption	Notes
13321	261 South Dakota Ave	704758	Raypak	H7-0300A	NA	0.3	NG	Boiler	202.G.1	
13321	261 South Dakota Ave	732809	Raypak	H7-0500B	NA	0.5	NG	Boiler	202.G.1	
13323	215 South Dakota Ave	4198	Raypak	H7-0300	NA	0.3	NG	Boiler	202.G.1	
13323	215 South Dakota Ave	4199	Raypak	H7-0300	NA	0.3	NG	Boiler	202.G.1	
13323	215 South Dakota Ave	4200	Raypak	H7-0300	NA	0.3	NG	Boiler	202.G.1	
13323	215 South Dakota Ave	656895	Raypak	WH3-0752B	NA	0.75	NG	Boiler	202.G.1	
13330	781 "N" St	4100	Parker Boiler Co.	40L	NA	1.68	NG	Boiler	202.G.1	
13330	781 "N" St	701726	Trane	GFAA10GDA	NA	0.1	NG	Furnace	202.G.1	
13330	781 "N" St	701727	Trane	GLND035	NA	0.35	NG	Furnace	202.G.1	
13330	781 "N" St	701728	Trane	GLND035	NA	0.35	NG	Furnace	202.G.1	
13330	781 "N" St	701729	Trane	GLND035	NA	0.35	NG	Furnace	202.G.1	
13330	781 "N" St	701730	Trane	GLND035	NA	0.35	NG	Furnace	202.G.1	
13640	641 Utah Ave	707843	Lochinvar	CHN0992	NA	0.99	NG	Boiler	202.G.1	
13640	641 Utah Ave	707844	A.O. Smith	BTN 199C 108	NA	0.199	NG	Water Heater	202.G.1	
13675	108 Colorado Ave	3727	A.O. Smith	BTC 200 920	NA	0.199	NG	Water Heater	202.G.1	
13675	108 Colorado Ave	704072	Raypak	H7-0300A	NA	0.3	NG	Boiler	202.G.1	
13700	124 South Dakota Ave	3868	Bradford White	D100L1993N	NA	0.199999	NG	Water Heater	202.G.1	
13848	278 South Dakota Ave	707845	American Standard	HE100-199 AS	NA	0.199	NG	Water Heater	202.G.1	
13848	278 South Dakota Ave	707846	Raypak	H3-HD401	NA	0.399	NG	Boiler	202.G.1	
13850	338 South Dakota Ave	732816	Bradford White	EF100T399E3NA2	NA	0.399	NG	Water Heater	202.G.1	
13850	338 South Dakota Ave	732817	Bradford White	EF100T399E3NA2	NA	0.399	NG	Water Heater	202.G.1	
13851	1200 Santa Maria Ave	4270	Heat Transfer Products	PH199-55	NA	0.199	NG	Boiler	202.G.1	

Table 3-2. Permit Exempt External Combustion Equipment

Building Number	Equipment Location	Operator ID	Make	Model	Model Year	Rating (MMBtu/hr)	Fuel	Type of Unit	Basis for Exemption	Notes
13852	1201 Santa Maria Ave	4041	Heat Transfer Products	PH199-55	NA	0.199	NG	Boiler	202.G.1	
13852	1201 Santa Maria Ave	4092	Heat Transfer Products	PH199-55	NA	0.199	NG	Boiler	202.G.1	
13852	1201 Santa Maria Ave	710165	Heat Transfer Products	PH199-55	NA	0.199	NG	Boiler	202.G.1	
13853	1101 Santa Maria Ave	4271	Heat Transfer Products	PH199-55	NA	0.199	NG	Boiler	202.G.1	
13853	1101 Santa Maria Ave	4272	Heat Transfer Products	PH199-55	NA	0.199	NG	Boiler	202.G.1	
13854	1103 Santa Maria Ave	658408	Heat Transfer Products	PH199-55	NA	0.199	NG	Boiler	202.G.1	
13854	1103 Santa Maria Ave	658411	Heat Transfer Products	PH199-55	NA	0.199	NG	Boiler	202.G.1	
13855	1001 Santa Maria Ave	707847	Heat Transfer Products	PH199-55	NA	0.199	NG	Boiler	202.G.1	
13855	1001 Santa Maria Ave	707848	Heat Transfer Products	PH199-55	NA	0.199	NG	Boiler	202.G.1	
13856	1002 Santa Maria Ave	707849	Heat Transfer Products	PH199-55	NA	0.199	NG	Boiler	202.G.1	
13856	1002 Santa Maria Ave	707850	Heat Transfer Products	PH199-55	NA	0.199	NG	Boiler	202.G.1	
13857	1104 Guadalupe Ave	676923	Heat Transfer Products	PH199-55	NA	0.199	NG	Boiler	202.G.1	
13857	1104 Guadalupe Ave	676924	Heat Transfer Products	PH199-55	NA	0.199	NG	Boiler	202.G.1	
13858	1102 Guadalupe Ave	4274	Heat Transfer Products	PH199-55	NA	0.199	NG	Boiler	202.G.1	
13858	1102 Guadalupe Ave	728031	Heat Transfer Products	PH199-55	NA	0.199	NG	Boiler	202.G.1	
13859	1202 Guadalupe Ave	658410	Heat Transfer Products	PH199-55	NA	0.199	NG	Boiler	202.G.1	
13859	1202 Guadalupe Ave	676925	Heat Transfer Products	PH199-55	NA	0.199	NG	Boiler	202.G.1	
13860	1200 Guadalupe Ave	659473	Heat Transfer Products	PH199-55	NA	0.199	NG	Boiler	202.G.1	
13860	1200 Guadalupe Ave	728032	Heat Transfer Products	PH199-55	NA	0.199	NG	Boiler	202.G.1	

Table 3-2. Permit Exempt External Combustion Equipment

Building Number	Equipment Location	Operator ID	Make	Model	Model Year	Rating (MMBtu/hr)	Fuel	Type of Unit	Basis for Exemption	Notes
13861	1201 Guadalupe Ave	676926	Heat Transfer Products	PH199-55	NA	0.199	NG	Boiler	202.G.1	
13861	1201 Guadalupe Ave	676927	Heat Transfer Products	PH199-55	NA	0.199	NG	Boiler	202.G.1	
13862	1101 Guadalupe Ave	3779	Lennox	HM30-100-1	NA	0.1	NG	Boiler	202.G.1	
13862	1101 Guadalupe Ave	4303	Heat Transfer Products	PH199-55	NA	0.199	NG	Boiler	202.G.1	
13863	1103 Guadalupe Ave	3918	Heat Transfer Products	SSVH-130-45SB	NA	0.13	NG	Boiler	202.G.1	
13863	1103 Guadalupe Ave	704088	Heat Transfer Products	PH199-55	NA	0.199	NG	Boiler	202.G.1	
13864	1105 Guadalupe Ave	707851	Heat Transfer Products	PH199-55	NA	0.199	NG	Boiler	202.G.1	
13864	1105 Guadalupe Ave	707852	Heat Transfer Products	PH199-55	NA	0.199	NG	Boiler	202.G.1	
13865	1001 Guadalupe Ave	707853	Heat Transfer Products	PH199-55	NA	0.199	NG	Boiler	202.G.1	
13865	1001 Guadalupe Ave	707854	Heat Transfer Products	PH199-55	NA	0.199	NG	Boiler	202.G.1	
13866	1103 Guadalupe Ave	707855	Heat Transfer Products	PH199-55	NA	0.199	NG	Boiler	202.G.1	
13866	1103 Guadalupe Ave	707856	Heat Transfer Products	PH199-55	NA	0.199	NG	Boiler	202.G.1	
14300	135 Wyoming Ave	3732	A.O. Smith	BTH 300A 970	NA	0.3	NG	Water Heater	202.G.1	
14300	135 Wyoming Ave	732805	A.O. smith	BTR 275 118	NA	0.275	NG	Water Heater	202.G.1	
14400	1107 Utah Ave	4348	York	PS8A12L040UH11A	NA	0.04	NG	Furnace	202.G.1	
14400	1107 Utah Ave	4349	York	P58C20L100UH11A	NA	0.1	NG	Furnace	202.G.1	
16130	201 Korina Ave	3299	York	P3HUD20L10401A	NA	0.13	NG	Furnace	202.G.1	
16135	203 Korina Ave	3300	York	P3HUD20L10401A	NA	0.13	NG	Furnace	202.G.1	
16140	205 Korina Ave	3301	York	P3HUD20L10401A	NA	0.13	NG	Furnace	202.G.1	
16140	205 Korina Ave	3302	York	P3HUD20L10401A	NA	0.13	NG	Furnace	202.G.1	
16170	100 Montana Ave	3154	Raypak	H6-1468A-CEBRCDB	NA	1.467	NG	Boiler	202.G.1	
16170	100 Montana Ave	3155	Raypak	W2-0333C-BEAHDAA	NA	0.333	NG	Boiler	202.G.1	

Table 3-2. Permit Exempt External Combustion Equipment

Building Number	Equipment Location	Operator ID	Make	Model	Model Year	Rating (MMBtu/hr)	Fuel	Type of Unit	Basis for Exemption	Notes
16200	587 Summersill Ave	707858	Raypak	H9-1262B	NA	1.26	NG	Boiler	202.G.1	
17595	900 California	727994	Carrier	CKSAXT042004A4A	NA	0.8	NG	Furnace	202.G.1	
21150	150 Cotar Rd	3258	Hydrotherm	MR-1200BPV	NA	0.3	LPG	Boiler	202.G.1	
21150	150 Cotar Rd	4359	Hydrotherm	MR-1200BPV	NA	0.3	LPG	Boiler	202.G.1	
21150	150 Cotar Rd	4360	Hydrotherm	MR-1200BPV	NA	0.3	LPG	Boiler	202.G.1	
21150	150 Cotar Rd	4361	Hydrotherm	MR-1200BPV	NA	0.3	LPG	Boiler	202.G.1	
21308	End of Gun Rd	3273	Raypak	H1-0183	NA	0.186	LPG	Boiler	202.G.1	
21308	End of Gun Rd	714346	Bradford White	RG240T6X	NA	0.036	LPG	Water Heater	202.G.1	
23201	201 Bishop Rd	4059	Raypak	H3-0181	NA	0.181	NG	Boiler	202.G.1	
23225	225 Bishop Rd	708772	Camus	DRNH-2000-MSI	NA	2	NG	Boiler	202.G.1	
23225	225 Bishop Rd	708773	Camus	DRNH-2000-MSI	NA	2	NG	Boiler	202.G.1	
23228	228 Bishop Rd	4266	Lennox	G51MP-60C-110-07	NA	0.11	NG	Furnace	202.G.1	
23228	228 Bishop Rd	4267	Lennox	G51MP-60C-110-01	NA	0.11	NG	Furnace	202.G.1	
23235	235 Bishop Rd	2683	Hydrotherm	AM-100	NA	0.1	NG	Boiler	202.G.1	

NA = Not Available

NG = Natural Gas

LPG = Liquefied Propane Gas

Table 3-3. Other Permit Exempt Operations

Building Number	Equip. Location	Operator ID	Device Type	Hourly Limit	Daily Limit	Quarterly Limit	Annual Limit	Units	Basis for Exemption
NA	Mira and Tangier Rds	648635	EOD Range	NA	500	NA	8000	lbs C-4 donor charge	202.P.13
		3568		NA		8.5	lbs TNT	202.P.13	
		648634		NA		440	lbs ANFO(a)	202.P.13	
		648636		NA		756	lbs dynamite	202.P.13	
NA	Various Locations	650037	Wood Chipper	NA	24	NA	8760	Hr	202
Various	Entire Base	NA	Architectural Coating	NA	NA	NA	NA	NA	202.D.14
Various	Various Locations	NA	AST; Diesel; >55 Gallons and <250 Gallons (67 Tanks)	NA	NA	NA	NA	NA	202.V.2
Various	Various Locations	NA	AST; Gasoline ; >55 Gallons and <250 Gallons (3 Tanks)	NA	NA	NA	NA	NA	202.V.7
64	Oak Mountain	1297	AST; Diesel; 4000 Gallons	NA	24	NA	8760	Hr	202.V.2
75	75 Station Rd	696917	AST; Diesel; 264 Gallons	NA	24	NA	8760	Hr	202.V.2
185	185 Honda ridge Rd	3114	AST; Diesel; 500 Gallons	NA	24	NA	8760	Hr	202.V.2
383	383 Lunar Rd	3977	AST; Diesel; 500 Gallons	NA	24	NA	8760	Hr	202.V.2
511	511 Cdt Rd	3431	AST; Diesel; 425 Gallons	NA	24	NA	8760	Hr	202.V.2
525	525 Coast Rd	1224	AST; Diesel; 2500 Gallons	NA	24	NA	8760	Hr	202.V.2
525	525 Coast Rd	1226	AST; Diesel; 2500 Gallons	NA	24	NA	8760	Hr	202.V.2
525	525 Coast Rd	1228	AST; Diesel; 2500 Gallons	NA	24	NA	8760	Hr	202.V.2
525	525 Coast Rd	1229	AST; Diesel; 2500 Gallons	NA	24	NA	8760	Hr	202.V.2
525	525 Coast Rd	1230	AST; Diesel; 2500 Gallons	NA	24	NA	8760	Hr	202.V.2
542	542 Coast Rd	729315	AST; Diesel; 250 Gallons	NA	24	NA	8760	Hr	202.V.2
661	661 Santa ynez ridge Rd	U-99900	AST; Diesel; 250 Gallons	NA	24	NA	8760	Hr	202.V.2
661	661 Santa ynez ridge Rd	24851-0	AST; Diesel; 5000 Gallons	NA	24	NA	8760	Hr	202.V.2
753	853 Arguello Rd	4054	Scrubber; Fuel (FVSS)	NA	NA	NA	NA	NA	202.D.6
753	853 Arguello Rd	4055	Scrubber; Oxidizer (OVSS)	NA	NA	NA	NA	NA	202.D.6
753	853 Arguello Rd	630173	Scrubber; Fuel (FVSS)	NA	NA	NA	NA	NA	202.D.6
753	853 Arguello Rd	630174	Scrubber; Oxidizer (OVSS)	NA	NA	NA	NA	NA	202.D.6
764	764 Napa Rd	3541	AST; Diesel; 660 Gallons	NA	24	NA	8760	Hr	202.V.2
809	809 Santa ynez ridge Rd	722067	AST; Diesel; 400 Gallons	NA	24	NA	8760	Hr	202.V.2
830	830 Lompoc St	3542	AST; Diesel; 425 Gallons	NA	24	NA	8760	Hr	202.V.2

Table 3-3. Other Permit Exempt Operations

Building Number	Equip. Location	Operator ID	Device Type	Hourly Limit	Daily Limit	Quarterly Limit	Annual Limit	Units	Basis for Exemption
830	830 Lompoc St	4362	AST; Diesel; 480 Gallons	NA	24	NA	8760	Hr	202.V.2
831	831 Clark St	4130	Spray Gun Washer	NA	8	NA	2080	Hr	202.U.2-c
854	864 Arguello Rd	3533	Solvent Cleaning Machine	NA	8	NA	2080	Hr	202.U.2-c
875	875 Sweeney Rd	4131	Spray Gun Washer	NA	8	NA	2080	Hr	202.U.2-c
875	875 Sweeney Rd	4157	Solvent Cleaning Machine	NA	8	NA	2080	Hr	202.U.2-c
875	875 Sweeney Rd	726223	Abrasive Blasting Operations	NA	NA	NA	416	Hr	202.H.1
906	906 Mesa Rd	3094	AST; Diesel; 350 Gallons	NA	24	NA	8760	Hr	202.V.2
929	929 Wade St	3959	AST; Diesel; 500 Gallons	NA	24	NA	8760	Hr	202.V.2
964	964 Mesa rd	675092	AST; Diesel; 253 Gallons	NA	24	NA	8760	Hr	202.V.2
966	966 Mesa rd	674105	AST; Diesel; 253 Gallons	NA	24	NA	8760	Hr	202.V.2
968	986 Mesa Rd	3308	AST; Diesel; 300 Gallons	NA	24	NA	8760	Hr	202.V.2
968	986 Mesa Rd	3309	AST; Diesel; 300 Gallons	NA	24	NA	8760	Hr	202.V.2
1345	1350 Koa Rd	3277	AST; Diesel; 1,000 Gallons	NA	24	NA	8760	Hr	202.V.2
1559	1559 Tonto Rd	3446	AST; Diesel; 250 Gallons	NA	24	NA	8760	Hr	202.V.2
1561	1561 Tonto Rd	3096	AST; Diesel; 280 Gallons	NA	24	NA	8760	Hr	202.V.2
1583	1583 Tangair	3741	Fire Training	NA	NA	NA	NA	NA	202.P.11
1604	1604 Tangair Rd	3098	AST; Diesel; 550 Gallons	NA	24	NA	8760	Hr	202.V.2
1639	1639 Tangair Rd	725374	AST; Diesel; 1800 Gallons	NA	24	NA	8760	Hr	202.V.2
1699	1699 Airfield Rd	1250	AST; Diesel; 20,000 Gallons	NA	24	NA	8760	Hr	202.V.2
1704	173 Airfield Rd	1249	AST; Diesel; 20,000 Gallons	NA	24	NA	8760	Hr	202.V.2
1705	173 Airfield Rd	685497	AST; Jet A; 6000 Gallons	NA	24	NA	8760	Hr	202.V.2
1705	173 Airfield Rd	685498	AST; Jet A; 6000 Gallons	NA	24	NA	8760	Hr	202.V.2
1705	173 Airfield Rd	685499	AST; Jet A; 6000 Gallons	NA	24	NA	8760	Hr	202.V.2
1705	173 Airfield Rd	685500	AST; Jet A; 6000 Gallons	NA	24	NA	8760	Hr	202.V.2
1705	173 Airfield Rd	685501	AST; Diesel; 1200 Gallons	NA	24	NA	8760	Hr	202.V.2
1705	173 Airfield Rd	685503	AST; Diesel; 1200 Gallons	NA	24	NA	8760	Hr	202.V.2
1728	302 Airfield Rd	4137	Solvent Cleaning Machine	NA	8	NA	2080	Hr	202.U.2-c
1731	320 Airfield Rd	4139	AST; Diesel; 500 Gallons	NA	24	NA	8760	Hr	202.V.2
1731	320 Airfield Rd	4322	Solvent Cleaning Machine	NA	8	NA	2080	Hr	202.U.2-c

Table 3-3. Other Permit Exempt Operations

Building Number	Equip. Location	Operator ID	Device Type	Hourly Limit	Daily Limit	Quarterly Limit	Annual Limit	Units	Basis for Exemption
1731	320 Airfield Rd	716263	AST; Diesel; 528 Gallons	NA	24	NA	8760	Hr	202.V.2
1735	325 Airfield Rd	U-99900	AST; JP8; 600 Gallons	NA	24	NA	8760	Hr	202.V.2
1735	325 Airfield Rd	4280	AST; Diesel; 500 Gallons	NA	24	NA	8760	Hr	202.V.2
1737	340 Airfield Rd	3521	Abrasive Blasting Operations	NA	NA	NA	416	Hr	202.H.1
1747	390 Airfield Rd	4050	AST; Diesel; 500 Gallons	NA	24	NA	8760	Hr	202.V.2
1749	391 Airfield Rd	4158	Solvent Cleaning Machine	NA	8	NA	2080	Hr	202.U.2-c
1749	391 Airfield Rd	728028	Abrasive Blasting Operations	NA	NA	NA	416	Hr	202.H.1
1768	1768 Cross Rd	3574	AST; Diesel; 700 Gallons	NA	24	NA	8760	Hr	202.V.2
1788	Site 13C/ABRES	698263	Soil Vapor Extraction System	NA	NA	NA	NA	Hr	FFSRA
1819	1819 New south Rd	U-99900	AST; Diesel; 1000 Gallons	NA	24	NA	8760	Hr	202.V.2
1829	1031 California Blvd	3104	AST; Diesel; 325 Gallons	NA	24	NA	8760	Hr	202.V.2
1829	1031 California Blvd	3402	AST; Diesel; 325 Gallons	NA	24	NA	8760	Hr	202.V.2
1916	1916 EL Rancho Rd	3909	AST; Diesel; 500 Gallons	NA	24	NA	8760	Hr	202.V.2
1917	1917 El Rancho Rd	3561	AST; Diesel; 500 Gallons	NA	24	NA	8760	Hr	202.V.2
1937	1937 El rancho Rd	3499	AST; Diesel; 514 Gallons	NA	24	NA	8760	Hr	202.V.2
1959	1959 Globe Rd	727885	AST; Diesel; 250 Gallons	NA	24	NA	8760	Hr	202.V.2
1962	1962 Tow Rd	3562	AST; Diesel; 388 Gallons	NA	24	NA	8760	Hr	202.V.2
1964	1964 Sercho Rd	3563	AST; Diesel; 388 Gallons	NA	24	NA	8760	Hr	202.V.2
1965	1965 Parquee Rd	3908	AST; Diesel; 350 Gallons	NA	24	NA	8760	Hr	202.V.2
1971	1971 Mina Rd	3564	AST; Diesel; 388 Gallons	NA	24	NA	8760	Hr	202.V.2
1972	1972 Mina Rd	3565	AST; Diesel; 388 Gallons	NA	24	NA	8760	Hr	202.V.2
2305	2305 33rd St	3107	AST; Diesel; 300 Gallons	NA	24	NA	8760	Hr	202.V.2
2500	320 Airfield Rd	3443	AST; Diesel; 528 Gallons	NA	24	NA	8760	Hr	202.V.2
2500	320 Airfield Rd	725372	AST; Diesel; 2000 Gallons	NA	24	NA	8760	Hr	202.V.2
2500	320 Airfield Rd	725373	AST; Diesel; 2000 Gallons	NA	24	NA	8760	Hr	202.V.2
2520	2520 Nevada Ave	3911	AST; Diesel; 1000 Gallons	NA	24	NA	8760	Hr	202.V.2
3000	3000 29th St	4358	Solvent Cleaning Machine	NA	8	NA	2080	Hr	202.U.2-c
3000	3000 29th St	641872	AST; Diesel; 2000 Gallons	NA	24	NA	8760	Hr	202.V.2
3000	3000 29th St	644530	AST; Diesel; 2000 Gallons	NA	24	NA	8760	Hr	202.V.2

Table 3-3. Other Permit Exempt Operations

Building Number	Equip. Location	Operator ID	Device Type	Hourly Limit	Daily Limit	Quarterly Limit	Annual Limit	Units	Basis for Exemption
3000	3000 29th St	702075	AST; Diesel; 528 Gallons	NA	24	NA	8760	Hr	202.V.2
6510	85 13th St	3816	AST; Diesel; 500 Gallons	NA	24	NA	8760	Hr	202.V.2
6601	1785 Utah Ave	728206	AST; Diesel; 500 Gallons	NA	24	NA	8760	Hr	202.V.2
7000	816 13th St	725658	AST; Diesel; 2074 Gallons	NA	24	NA	8760	Hr	202.V.2
7000	816 13th St	725663	AST; Diesel; 2074 Gallons	NA	24	NA	8760	Hr	202.V.2
7000	816 13th St	725664	AST; Diesel; 2074 Gallons	NA	24	NA	8760	Hr	202.V.2
7011	826 13th St	D-58201	AST; Diesel; 1530 Gallons	NA	24	NA	8760	Hr	202.V.2
7025	1602 California Blvd	U-16334	AST; Diesel; 1500 Gallons	NA	24	NA	8760	Hr	202.V.2
7425	386 10th St	3108	AST; Diesel; 250 Gallons	NA	24	NA	8760	Hr	202.V.2
7437	1556 New Mexico Ave	SK002	Spray Gun Washer	NA	8	NA	2080	Hr	202.U.2-c
8190	1580 Nevada Ave	3978	Abrasive Blasting Operations	NA	NA	NA	416	Hr	202.H.1
8310	351 8th St	4138	Solvent Cleaning Machine - Vapor	NA	NA	NA	NA	NA	202.U.2-c
8310	351 8 th St	723357	Solvent Cleaning Machine – Vapor	NA	NA	NA	NA	NA	202.U.2-3
8317	344 8th St	675249	AST; Diesel; 320 Gallons	NA	24	NA	8760	Hr	202.V.2
8401	1521 Utah Ave	3807	AST; Diesel; 850 Gallons	NA	24	NA	8760	Hr	202.V.2
8401	1521 Utah Ave	727934	AST; Diesel; 850 Gallons	NA	24	NA	8760	Hr	202.V.2
8415	178 8th St	4153	Solvent Cleaning Machine	NA	8	NA	2080	Hr	202.U.2-c
8415	178 8th St	4164	Abrasive Blasting Operations	NA	NA	NA	416	NA	202.H.1
8415	178 8th St	723563	Solvent Cleaning Machine	NA	8	NA	2080	Hr	202.U.2-c
8510	1521 Iceland Ave	727888	AST; Diesel; 500 Gallons	NA	24	NA	8760	Hr	202.V.2
9320	334 6th St	4129	Spray Gun Washer	NA	8	NA	2080	Hr	202.U.2-c
9320	334 6th St	4152	Solvent Cleaning Machine	NA	8	NA	2080	Hr	202.U.2-c
9320	334 6th St	4318	Abrasive Blasting Operations	NA	NA	NA	416	NA	202.H.1
9320	334 6th St	705831	Abrasive Blasting Operations	NA	NA	NA	416	NA	202.H.1
9360	1318 New Mexico Ave	4165	Solvent Cleaning Machine	NA	8	NA	2080	Hr	202.U.2-c
9360	1318 New Mexico Ave	4283	Abrasive Blasting Operations	NA	NA	NA	416	NA	202.H.1
9505	180 Landfill Rd	3164	AST; Diesel; 500 Gallons	NA	24	NA	8760	Hr	202.V.2
10579	1031 California Blvd	3314	AST; Diesel; 400 Gallons	NA	24	NA	8760	Hr	202.V.2
10711	433 Herado Ave	4126	Solvent Cleaning Machine	NA	8	NA	2080	Hr	202.U.2-c

Table 3-3. Other Permit Exempt Operations

Building Number	Equip. Location	Operator ID	Device Type	Hourly Limit	Daily Limit	Quarterly Limit	Annual Limit	Units	Basis for Exemption
10711	433 Herado Ave	4374	Spray Gun Washer	NA	8	NA	2080	Hr	202.U.2-c
10711	433 Herado Ave	703462	Abrasive Blasting Operations	NA	NA	NA	416	NA	202.H.1
10713	431 Herado Ave	3954	Solvent Cleaning Machine	NA	8	NA	2080	Hr	202.U.2-c
10723	Nevada Ave	1214	AST; Diesel; 4,000 Gallons	NA	24	NA	8760	Hr	202.V.2
10726	442 Washington Ave	UST04	UST; Biodiesel; 10,000 gallons	NA	24	NA	8760	Hr	202.V.2
10726	442 Washington Ave	695365	AST; Diesel; 5000 Gallons	NA	24	NA	8760	Hr	202.V.2
11439	1172 Iceland Ave	1217	AST; Diesel; 550 Gallons	NA	24	NA	8760	Hr	202.V.2
11520	1205 Utah	718011	Soil Vapor Extraction System	NA	NA	NA	NA	Hr	FFSRA
12000	867 Washington Ave	682748	AST; Unknown; 1555 Gallons	NA	24	NA	8760	Hr	202.V.2
12008	825 Washington Ave	25122	AST; Diesel; 10000 Gallons	NA	24	NA	8760	Hr	202.V.2
13730	127 Colorado Ave	730107	AST; Diesel; 250 Gallons	NA	24	NA	8760	Hr	202.V.2
13850	338 South dakota Ave	695361	AST; Diesel; 550 Gallons	NA	24	NA	8760	Hr	202.V.2
21150	150 Cotar Rd	1317	AST; Diesel; 1500 Gallons	NA	24	NA	8760	Hr	202.V.2
21203	203 Firefighter Rd	3743	AST; Diesel; 425 Gallons	NA	24	NA	8760	Hr	202.V.2
22312	312 San antonio Rd	711744	AST; Unknown; 500 Gallons	NA	24	NA	8760	Hr	202.V.2
23209	209 Bishop Rd	3434	AST; Diesel; 290 Gallons	NA	24	NA	8760	Hr	202.V.2
23243	23243 Bishop Rd	K012312	AST; Diesel; 2000 Gallons	NA	24	NA	8760	Hr	202.V.2
21330	End of Gun Road	3493	Small Arms Range	NA	NA	NA	NA	NA	202.D.10
		636301							
		641666							
		636300							
		636302							

NA = Not Available

RN = Registered Number

FFSRA = Federal Facility Site Remediation Agreement

4.0 COMPLIANCE PLAN

4.1 Federally Enforceable District Rules

Table 4-1. Federally Enforceable District Rules
Part 70 Permit 13968 Renewal Application, Vandenberg Space Force Base

Rule Number	Rule Name	Affected Emission Units	In Compliance? (Yes/ No/ Exempt/ NA)
101	Title: Compliance by Existing Installation; Conflicts	VSFB	Yes
102	Definitions	VSFB	Yes
103	Severability	VSFB	Yes
104	Agricultural Burning	None	NA
105	Applicability	VSFB	Yes
201	Permits Required	VSFB	Yes
202	Exemptions to Rule 201, General	VSFB	Yes
203	Transfer	VSFB	Yes
205	Standards for Granting Applications	VSFB	Yes
206	Conditional Approval of Authority to Construct or Permit to Operate	VSFB	Yes
212	Emission Statements	VSFB	Yes
301	Circumvention	VSFB	Yes
302	Visible Emissions	VSFB	Yes
303	Nuisance	VSFB	Yes
304	Particulate Matter - Northern Zone	VSFB	Yes
305	Particulate Matter Concentration - Southern Zone	None	NA
306	Dust and Fumes - Northern Zone	VSFB	Yes
307	Particulate Matter Emission Weight Rate - Southern Zone	None	NA
308	Incinerator Burning	VSFB	Yes
309	Specific Contaminants	VSFB	Yes
311	Sulfur Contents of Fuel	Combustion Units	Yes
312	Open Fires	VSFB	Yes
313	Fires Set Under Public Authority	VSFB	Yes

Table 4-1. Federally Enforceable District Rules
Part 70 Permit 13968 Renewal Application, Vandenberg Space Force Base

Rule Number	Rule Name	Affected Emission Units	In Compliance? (Yes/ No/ Exempt/ NA)
314	Reduction of Animal Matter	None	NA
315	Gasoline Specifications	Gasoline distributors, and sellers on VSFB	Yes
316	Storage and Transfer of Gasoline	Gasoline distributors, and sellers on VSFB	Yes
317	Organic Solvents	VSFB	Yes
319	Asphalt Air Blowing - Southern Zone	None	NA
320	Petroleum Solvent Dry Cleaners	None	NA
321	Solvent Cleaning Operations	VSFB	Yes
322	Metal Surface Coating Thinner and Reducer	VSFB	Yes
323	Architectural Coatings	VSFB	Yes
323.1	Architectural Coatings	VSFB	Yes
324	Disposal and Evaporation of Solvents	VSFB	Yes
325	Crude Oil Production and Separation Rule	None	NA
326	Storage of Reactive Organic Compound Liquids	None	NA
327	Organic Liquid Cargo Vessel Loading	None	NA
328	Continuous Emission Monitoring	South Vandenberg Power Plant	Yes
329	Cutback Asphalt Paving Materials	VSFB	Yes
330	Surface Coating of Manufactured Metal Parts	VSFB	Yes
331	Refinery Valves and Flanges	None	NA
332	Petroleum Refinery Vacuum Producing Systems Wastewater Separators and Process Turnarounds	None	NA
333	Control of Emissions from Reciprocating Internal Combustion Engines	Stationary reciprocating ICE \geq 50 bhp	Yes
337	Surface Coating of Aircraft or Aerospace Vehicle Parts and Products	VSFB	Yes
339	Motor Vehicle and Mobile Equipment Coating Operations	Spray Paints Booths	Yes
342	Boilers, Steam Generators, and Process Heaters	Heat input capacity \geq 5 mmbtu/hr	NA

Table 4-1. Federally Enforceable District Rules
Part 70 Permit 13968 Renewal Application, Vandenberg Space Force Base

Rule Number	Rule Name	Affected Emission Units	In Compliance? (Yes/ No/ Exempt/ NA)
343	Petroleum Storage Tank Degassing	Gasoline UST greater than 500 gallons	Yes
344	Petroleum Sumps, Pits & Well Cellars	None	NA
346	Loading of Organic Cargo Vessels	Trucks and trailers used to transfer organic liquids	Yes
349	Polyester Resin Operations	VSFB	Yes
351	Surface Coating of Wood Products	VSFB	Yes
352	Natural-Gas Fired Fan-Type Central Furnaces and Residential Water Heaters	Natural Gas fired fan type central furnaces and residential water heaters	Yes
353	Adhesives and Sealants	VSFB	Yes
354	Graphic Arts	VSFB	Yes
359	Flares and Thermal Oxidizers	None	NA
360	Boilers, Water Heaters, and Process Heaters	Heat input capacity ≥ 0.075 mmbtu/hr and ≤ 2 mmbtu/hr	Yes
361	Boilers, Steam Generators, and Process Heaters	Heat input capacity > 2 mmbtu/hr and < 5 mmbtu/hr	Yes
370	Potential to Emit-Limitation for Part 70 Sources	VSFB	Yes
401	Agricultural and Prescribed Burning	VSFB	Yes
403	Burning Permit for Non-Burning Days: Report Requirements	VSFB	Yes
505	Breakdown Conditions	VSFB	Yes
603	Emergency Episode Plans	VSFB	Yes
609	Interdistrict Coordination	NA	NA
702	General Conformity	VSFB	Yes
801	New Source Review	Not Enforceable	NA
802	Nonattainment Review	Not Enforceable	NA
803	Prevention of Significant Deterioration	Not Enforceable	NA
804	Emission Offsets	Not Enforceable	NA
805	Air Quality Impact Analysis and Modeling	Not Enforceable	NA

Table 4-1. Federally Enforceable District Rules
Part 70 Permit 13968 Renewal Application, Vandenberg Space Force Base

Rule Number	Rule Name	Affected Emission Units	In Compliance? (Yes/ No/ Exempt/ NA)
806	Emission Reduction Credits	Not Enforceable	NA
808	New Source Review for Major Sources of Hazardous Air Pollutants	Not Enforceable	NA
810	Federal Prevention of Significant Deterioration (PSD)	Not Enforceable	NA
1301	General Information	VSFB	Yes
1302	Permit Application	Not Enforceable	NA
1303	Permits	Not Enforceable	NA
1304	Issuance, Renewal, Modification and Reopening	Not Enforceable	NA
1305	Enforcement	Not Enforceable	NA

4.2 Federally Enforceable Federal Regulations

Table 4-2. Federally Enforceable Federal Regulations
Part 70 Permit 13968 Renewal Application, Vandenberg Space Force Base

Rule Number	Rule Name	Affected Emission Units	In Compliance? (Yes/ No/ Exempt/ NA)	Effective Date
NSPS Subpart Cc	Emissions Guidelines and Compliance Times for Municipal Solid Waste Landfills [60.30c]	Landfills modified before May 30, 1991 and design capacity greater than 2.5 million Mg or 2.5 million meters ³	NA - <2.5 Mg design capacity	
NSPS Subpart GG	Standards of Performance for Stationary Gas Turbines [60.330]	Turbines with ≥ 10 MMBtu/hr heat input capacity, based on LHV	Yes	
NSPS Subpart Dc	Standards of Performance for Small Industrial- Commercial- Institutional Steam Generating Units [60.40c]	Steam generating units with $10 < x \leq 100$ MMBtu/hr heat input capacity	NA	
NSPS Subpart IIII	Standards of Performance for Stationary Compression Ignition Internal Combustion Engines [60.4200]	CI engines that commence construction after July 11, 2005	Yes	
NSPS Subpart JJJJ	Standards of Performance for Stationary Spark Ignition Internal Combustion Engines [60.4230]	SI engines that commence construction after June 12, 2006	Yes	
NSPS Subpart KKKK	Standards of Performance for Stationary Combustion Turbines [60.4300]	Turbines constructed after February 18, 2005 with a heat input ≥ 10 MMBtu/hr	NA	
NESHAP Subpart ZZZZ	NESHAP: for Stationary Reciprocating Internal Combustion Engines [63.6580]	Stationary RICE at a major or area source of HAP emissions	Yes	3 May 2013
NESHAP Subpart CCCCCC	NESHAP: for Source Category: Gasoline Dispensing Facilities	Gasoline distributors, and sellers on VSFB	Yes	
NESHAP Subpart HHHHHH	NESHAP: Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources [63.11169]	Paint stripping or coating at an area source of HAP emissions	Exempt per 40 § 63.11169.(d)(1)	

5.0 APPLICATION CHECKLIST

- Attach a copy of each current District Permit to Operate.
- Attach calculations of the potential to emit for each permit-exempt unit. Base the calculations on the uncontrolled potential to emit of each unit based on the maximum physical and operational capacity of the unit. Physical or operational limits on each unit cannot be considered, unless the limit is federally enforceable.
- Provide all assumptions used for calculations, including process rate, fuel use, hours of operations, and emission factors. Provide data to support the emission factors used.
- Attach a compliance plan schedule for each applicable requirement with which the source does not comply.
- Application Filing Fee (Fee = \$431. The application filing fee is COLA adjusted every July 1st. Please ensure you are remitting the current fee.) As a convenience to applicants, the District 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.
- Signature of the Responsible Official for the stationary source.

APPENDIX A – EMISSION CALCULATIONS

Emission Calculations for Permit-Exempt Emission Units – Other Operations

Abrasive Blasting Operations

The internal dimensions of the listed devices are less than 50 cubic feet. Please see the ABS tab in Vanderberg Space Force Base (VSFB) T-V Emissions Calcs spreadsheet for estimated emissions.

Architectural Coatings

The 2020 permit exempt questionnaire includes 0.49 tons of ROCs emitted from architectural coatings.

AST/UST – Diesel/Biodiesel/Used Oil

The emissions from the diesel, or biodiesel tanks were assumed to be negligible and were not estimated. Belly and day tanks for generators were not included after discussion with the APCD which they stated, “Since diesel storage tanks have a negligible PTE, we do not need to include them in their exempt equipment list.”

AST – Gasoline

The APCD spreadsheet GDF Emissions Ver 1.0 was used to generate the emissions in the Storage Tanks tab in VSFB T-V Emissions Calcs spreadsheet.

Explosive Ordinance Disposal (EOD) Range

Emissions were estimated using information from AP-42 and are shown in the EOD tab in VSFB T-V Emissions Calcs spreadsheet.

Scrubbers, Fuel Vapor/Oxidizer Vapor

Two fuel vapor and two oxidizer vapor scrubbers were granted an exemption by SBCAPCD on 26 October 2021, E15788. Emissions of NO_x and ROC are based on the application submitted for the exemption.

Small Arms Range

Emissions were estimated using information from AP-42 and are shown in the Small Arms Range tab in VSFB T-V Emissions Calcs spreadsheet.

Solvent Cleaning Machines

With implementation of Rule 321, the emissions from these sources are assumed to be de minimis and were not estimated.

Solvent Cleaning Machines – Vapor

From usage records, an estimated 57 pounds per year of HFE-7100 – a zero volatile organic compound (VOC) solvent, would be used.

Wood Chipper

Emissions were estimated using information from previous PERP Registration 123540 and are shown in the Wood Chipper tab in VSFB T-V Emissions Calcs spreadsheet.

Soil Vapor Extraction Systems

Building 1788/Site 13C/ABRES – This system is under regulatory review for deactivation. The system has reduced soil concentrations of trichloroethene to below the treatment target goal and may be shut down in the near future. Estimated emissions are shown in the Site 13C tab in VSFB T-V Emissions Calcs spreadsheet.

Building 11520- This system reduces soil concentrations of VOC's to below the treatment target goal. The amount of emissions per year is less than 0.002 tons.

Table A-1. Summary of Emissions from Permit Exempt Sources

Category	Emissions (Lbs/Yr)			Emissions (TPY)		
	NOx	PM	ROC	NOx	PM	ROC
Permit Exempt ICE	31,137	1,650	6,688	15.57	0.82	3.34
PERP Registered ICE	6,072	332	776	3.04	0.17	0.39
Tactical Support Equipment	79,442	5,679	6,954	39.72	2.84	3.48
External Combustion	38,751	4,039	2,908	19.38	2.02	1.45
Abrasive Blasting	NA	2,710	NA	NA	1.36	NA
Architectural Coatings	NA	NA	980	NA	NA	0.49
Fuel Storage Tanks	NA	NA	90	NA	NA	0.04
EOD Range	67	NE	4	0	NE	0
Scrubbers Fuel/Oxidizer	0	NA	0	0.33	NA	0.00
Small Arms Range	35	NE	NE	0	NE	NE
Soil Vapor Extraction Systems	NE	NE	13	NE	NE	0
Wood Chipper	NA	8,528	NA	NA	4	NA
Total	155,505	22,939	18,415	78.08	11.47	9.21

Notes:

NE = Not Estimated

NA = Not Applicable

Table A-2. Estimated Emissions from Permit Exempt Internal Combustion Engines

Description	Location	Pri_ID	Fuel	Equation	Hours	Size	Emission Factors*			Emissions (Lbs/Yr)		
					PTE	(BHP)	NOx	PM	ROC	NOx	PM	ROC
Stationary												
Facility Power	1577	632	LPG	HP HRS*EF/1000	199.9	77	24.20		1.90	372.49	0.00	29.25
Facility Power	1579	635	Diesel	HP HRS*EF/1000	500	45	35.70	2.51	2.79	803.25	56.48	62.78
Facility Power	14300	765	LPG	HP HRS*EF/1000	199.9	57	24.20		1.90	275.74	0.00	21.65
Facility Power	13675	766	LPG	HP HRS*EF/1000	199.9	90	24.20		1.90	435.38	0.00	34.18
Facility Power	23215	770	NG	HP HRS*EF/1000	199.9	1466	17.80	0.07	0.23	5216.35	21.89	68.28
Facility Power	23215	771	NG	HP HRS*EF/1000	199.9	1466	17.80	0.07	0.23	5216.35	21.89	68.28
Facility Power	8310	869	LPG	HP HRS*EF/1000	199.9	50	24.20		1.90	241.88	0.00	18.99
Facility Power	1905	3019	Diesel	HP HRS*EF/1000	500	38	35.70	2.51	2.79	678.30	47.69	53.01
Facility Power	752	3054	Diesel	HP HRS*EF/1000	500	42	11.50	0.49	0.90	241.50	10.19	18.88
Facility Power	51	3063	LPG	HP HRS*EF/1000	199.9	104	24.20		1.90	503.11	0.00	39.50
Facility Power	6670	3068	NG	HP HRS*EF/1000	199.9	173	17.80	0.07	0.23	615.57	2.58	8.06
Facility Power	865	3072	LPG	HP HRS*EF/1000	199.9	77	24.20		1.90	372.49	0.00	29.25
Facility Power	475	3083	LPG	HP HRS*EF/1000	199.9	500	24.20		1.90	2418.79	0.00	189.91
Facility Power	11477	3187	Diesel	HP HRS*EF/1000	500	12	35.70	2.51	2.79	214.20	15.06	16.74
Facility Power	1524	3190	Diesel	HP HRS*EF/1000	500	19	35.70	2.51	2.79	339.15	23.85	26.51
Facility Power	866	3278	LPG	HP HRS*EF/1000	199.9	27	24.20		1.90	130.61	0.00	10.25
Facility Power	1743	3567	LPG	HP HRS*EF/1000	199.9	173	24.20		1.90	836.90	0.00	65.71
Facility Power	6819	3597	Diesel	HP HRS*EF/1000	500	45	35.70	2.51	2.79	803.25	56.48	62.78
Facility Power	518	3603	Diesel	HP HRS*EF/1000	500	44.8	35.70	2.51	2.79	799.68	56.22	62.50
Facility Power	23160	3605	Diesel	HP HRS*EF/1000	500	44.8	35.70	2.51	2.79	799.68	56.22	62.50
Facility Power	1737	3804	Diesel	HP HRS*EF/1000	500	18	35.70	2.51	2.79	321.30	22.59	25.11
Facility Power	490	3914	Diesel	HP HRS*EF/1000	500	44.8	35.70	2.51	2.79	799.68	56.22	62.50
Facility Power	752	3932	Diesel	HP HRS*EF/1000	500	42	11.50	0.49	0.90	241.50	10.19	18.88
Facility Power	1740	4003	LPG	HP HRS*EF/1000	199.9	77	24.20		1.90	372.49	0.00	29.25
Facility Power	1530	4067	LPG	HP HRS*EF/1000	199.9	55	24.20		1.90	266.07	0.00	20.89
Facility Power	1841	4113	Diesel	HP HRS*EF/1000	500	25	11.50	0.49	0.90	143.75	6.06	11.24
Facility Power	1501	4177	Diesel	HP HRS*EF/1000	500	47	35.70	2.51	2.79	838.95	58.99	65.57
Facility Power	7	4296	Diesel	HP HRS*EF/1000	500	49	35.70	2.51	2.79	874.65	61.50	68.36
Facility Power	1591	677066	Diesel	HP HRS*EF/1000	500	13	11.50	0.66	0.90	74.75	4.30	5.84
Facility Power	1592	677067	Diesel	HP HRS*EF/1000	500	13	11.50	0.66	0.90	74.75	4.30	5.84
Facility Power	799	703337	Diesel	HP HRS*EF/1000	500	49	11.50	0.49	0.90	281.75	11.88	22.03
Portable												
Welding	10711	762	Diesel	HP HRS*EF/1000	500	32.5	35.70	2.51	2.79	580.13	40.79	45.34
Leaf Blower ^(a)	5425	3602	Gasoline	HP HRS*EF/1000	500	23	4.36	18.42	113.58	50.11	211.81	1306.12
Air Compressor	525	3992	Diesel	HP HRS*EF/1000	500	49	5.73	0.36	0.53	140.41	8.87	13.01
Air Compressor	525	3993	Diesel	HP HRS*EF/1000	500	49	5.73	0.36	0.53	140.41	8.87	13.01
Air Compressor	525	3994	Diesel	HP HRS*EF/1000	500	49	5.73	0.36	0.53	140.41	8.87	13.01
Air Compressor	525	3995	Diesel	HP HRS*EF/1000	500	49	5.73	0.36	0.53	140.41	8.87	13.01
Air Compressor	525	4021	Diesel	HP HRS*EF/1000	500	49	5.73	0.36	0.53	140.41	8.87	13.01

Table A-2. Estimated Emissions from Permit Exempt Internal Combustion Engines

Description	Location	Pri_ID	Fuel	Equation	Hours	Size	Emission Factors*			Emissions (Lbs/Yr)		
					PTE	(BHP)	NOx	PM	ROC	NOx	PM	ROC
Air Compressor	525	4022	Diesel	HP HRS*EF/1000	500	49	5.73	0.36	0.53	140.41	8.87	13.01
Air Compressor	525	4023	Diesel	HP HRS*EF/1000	500	49	5.73	0.36	0.53	140.41	8.87	13.01
Air Compressor	525	4024	Diesel	HP HRS*EF/1000	500	49	5.73	0.36	0.53	140.41	8.87	13.01
Auxiliary Power	3000	4072	Diesel	HP HRS*EF/1000	500	49	4.09	0.19	0.42	100.25	4.70	10.36
Auxiliary Power	3000	4073	Diesel	HP HRS*EF/1000	500	49	4.09	0.19	0.42	100.25	4.70	10.36
Air Compressor	10711	653776	Diesel	HP HRS*EF/1000	500	15	5.73	0.36	0.53	42.98	2.72	3.98
Generator	Basewide	675288	Gasoline	HP HRS*EF/1000	500	28	11.00	0.72	13.40	154.00	10.09	187.60
Thatcher	Basewide	675355	Gasoline	HP HRS*EF/1000	500	5.5	5.25	17.57	113.75	14.44	48.33	312.80
Chipper	Basewide	675362	Gasoline	HP HRS*EF/1000	500	10	5.25	17.57	113.75	26.25	87.87	568.73
Generator	Basewide	675480	Diesel	HP HRS*EF/1000	500	15	11.50	0.66	0.90	86.25	4.96	6.74
Pressuer Washer ^(a)	Basewide	695013	Gasoline	HP HRS*EF/1000	500	20	11.00	0.72	13.40	110.00	7.21	134.00
Blower	5425	703351	Gasoline	HP HRS*EF/1000	500	25	4.36	18.42	113.58	54.46	230.23	1419.70
Pressuer Washer ^(a)	9320	703411	Diesel	HP HRS*EF/1000	500	12	35.70	2.51	2.79	214.20	15.06	16.74
Air Compressor	525	707871	Diesel	HP HRS*EF/1000	500	49	5.73	0.36	0.53	140.41	8.87	13.01
Air Compressor	525	707880	Diesel	HP HRS*EF/1000	500	49	5.73	0.36	0.53	140.41	8.87	13.01
Auxiliary Power	Basewide	709118	Diesel	HP HRS*EF/1000	500	22	11.50	0.66	0.90	126.50	7.27	9.89
Auxiliary Power	Basewide	709119	Diesel	HP HRS*EF/1000	500	22	11.50	0.66	0.90	126.50	7.27	9.89
Auxiliary Power	Basewide	709120	Diesel	HP HRS*EF/1000	500	22	11.50	0.66	0.90	126.50	7.27	9.89
Generator	1905	719092	Diesel	HP HRS*EF/1000	500	20.2	11.50	0.66	0.90	116.15	6.68	9.08
Generator	809	722066	Diesel	HP HRS*EF/1000	500	49	7.19	0.04	0.56	176.16	1.08	13.77
Air Compressor	6523	723469	Diesel	HP HRS*EF/1000	500	49	5.73	0.36	0.53	140.41	8.87	13.01
Air Compressor	6523	723470	Diesel	HP HRS*EF/1000	500	49	5.73	0.36	0.53	140.41	8.87	13.01
Air Compressor	10717	723759	Diesel	HP HRS*EF/1000	500	49	5.73	0.36	0.53	140.41	8.87	13.01
Generator	Basewide	726553	Diesel	HP HRS*EF/1000	500	9	35.70	2.51	2.79	160.65	11.30	12.56
Generator	Basewide	726554	Diesel	HP HRS*EF/1000	500	30	7.19	0.04	0.56	107.85	0.66	8.43
Air Compressor	1731	727890	Diesel	HP HRS*EF/1000	500	49	5.73	0.36	0.53	140.41	8.87	13.01
Trailer Mounted Floodlight	1755	728017	Diesel	HP HRS*EF/1000	500	19	4.05	0.29	0.43	38.45	2.74	4.06
Trailer Mounted Floodlight	1755	728018	Diesel	HP HRS*EF/1000	500	19	4.05	0.29	0.43	38.45	2.74	4.06
Trailer Mounted Floodlight	1755	728019	Diesel	HP HRS*EF/1000	500	19	4.05	0.29	0.43	38.45	2.74	4.06
Trailer Mounted Floodlight	1755	728020	Diesel	HP HRS*EF/1000	500	19	4.05	0.29	0.43	38.45	2.74	4.06
Trailer Mounted Floodlight	1755	728021	Diesel	HP HRS*EF/1000	500	19	4.05	0.29	0.43	38.45	2.74	4.06
Trailer Mounted Floodlight	1755	728022	Diesel	HP HRS*EF/1000	500	19	4.05	0.29	0.43	38.45	2.74	4.06
Trailer Mounted Floodlight	1755	728023	Diesel	HP HRS*EF/1000	500	19	4.05	0.29	0.43	38.45	2.74	4.06
Trailer Mounted Floodlight	1755	728024	Diesel	HP HRS*EF/1000	500	19	4.05	0.29	0.43	38.45	2.74	4.06
Air Compressor	1755	728025	Diesel	HP HRS*EF/1000	500	26	5.73	0.36	0.53	74.50	4.71	6.90
Heater New Generation	1755	728026	Diesel	HP HRS*EF/1000	500	6.7	4.05	0.29	0.43	13.56	0.96	1.43
Heater New Generation	1755	728027	Diesel	HP HRS*EF/1000	500	6.7	4.05	0.29	0.43	13.56	0.96	1.43
Trailer Mounted Floodlight	8310	730034	Diesel	HP HRS*EF/1000	500	25.5	4.05	0.29	0.43	51.60	3.67	5.44
Trailer Mounted Floodlight	8310	730035	Diesel	HP HRS*EF/1000	500	25.5	4.05	0.29	0.43	51.60	3.67	5.44

Table A-2. Estimated Emissions from Permit Exempt Internal Combustion Engines

Description	Location	Pri_ID	Fuel	Equation	Hours	Size	Emission Factors*			Emissions (Lbs/Yr)		
					PTE	(BHP)	NOx	PM	ROC	NOx	PM	ROC
Trailer Mounted Floodlight	8310	730036	Diesel	HP HRS*EF/1000	500	25.5	4.05	0.29	0.43	51.60	3.67	5.44
Trailer Mounted Floodlight	8310	730037	Diesel	HP HRS*EF/1000	500	25.5	4.05	0.29	0.43	51.60	3.67	5.44
Trailer Mounted Floodlight	8425	730542	Diesel	HP HRS*EF/1000	500	10.9	4.05	0.29	0.43	22.06	1.57	2.33
Trailer Mounted Floodlight	8425	730543	Diesel	HP HRS*EF/1000	500	10.9	4.05	0.29	0.43	22.06	1.57	2.33
Trailer Mounted Floodlight	8425	730544	Diesel	HP HRS*EF/1000	500	12	4.05	0.29	0.43	24.28	1.73	2.56
Trailer Mounted Floodlight	8425	730545	Diesel	HP HRS*EF/1000	500	12	4.05	0.29	0.43	24.28	1.73	2.56
Trailer Mounted Floodlight	8425	730546	Diesel	HP HRS*EF/1000	500	10.9	4.05	0.29	0.43	22.06	1.57	2.33
Trailer Mounted Floodlight	8425	730547	Diesel	HP HRS*EF/1000	500	26	4.05	0.29	0.43	52.61	3.74	5.55
Trailer Mounted Floodlight	8425	730548	Diesel	HP HRS*EF/1000	500	25	4.05	0.29	0.43	50.59	3.60	5.34
Trailer Mounted Floodlight	831	732760	Diesel	HP HRS*EF/1000	500	25	4.05	0.29	0.43	50.59	3.60	5.34
Trailer Mounted Floodlight	831	732761	Diesel	HP HRS*EF/1000	500	25	4.05	0.29	0.43	50.59	3.60	5.34
Trailer Mounted Floodlight	831	732762	Diesel	HP HRS*EF/1000	500	25	4.05	0.29	0.43	50.59	3.60	5.34
12 Trimmers < 2.5 Hp	Basewide	NA	Gasoline	HP HRS*EF/1000	500	2.5	5.26	16.41	125.78	6.58	20.52	157.23
3 Chainsaw < 4 Hp	Basewide	NA	Gasoline	HP HRS*EF/1000	500	4	3.62	20.97	133.47	7.24	41.94	266.94
4 Generators < 8 Hp	Basewide	NA	Gasoline	HP HRS*EF/1000	500	8	11.00	0.72	13.40	44.00	2.88	53.60
5 Blowers < 8 Hp	Basewide	NA	Gasoline	HP HRS*EF/1000	500	8	4.36	18.42	113.58	17.43	73.67	454.30
9 Pressure Washers <13 Hp	Basewide	NA	Gasoline	HP HRS*EF/1000	500	13	5.03	0.42	13.96	32.72	2.70	90.71
Total (Lbs/yr)										31,137	1,650	6,688
Total (TPY)										15.57	0.82	3.34

Notes:

For spark ignited engines, hours for PTE is 199.9 hours; Emission Factors Units are lbs/1000 Bhp-Hr

For compression ignition engines, hours for PTE is 500 hours; Emission Factors are in lbs/1000 Bhp-Hr

Table A-3. Estimated Emissions from PERP Internal Combustion Engines

Description	Registration #	Location	Pri_ID	Fuel	Engine Tier	Equation	Hours	Size	Emission Factors			Emissions (Lbs/Yr)		
							PTE	(BHP)	NOx	PM	ROC	NOx	PM	ROC
Wastewater Pump	149555	Basewide	4015	Diesel	OFF-RD TIER 3 75-100 HP	HP HRS*EF/1000	500	80	7.19	0.66	0.56	287.60	26.44	22.48
Wastewater Pump	149557	Basewide	4017	Diesel	OFF-RD TIER 3 75-100 HP	HP HRS*EF/1000	500	80	7.19	0.66	0.56	287.60	26.44	22.48
Air Compressor	153516	9320	4095	Diesel	OFF-RD TIER 3 100-175 HP	HP HRS*EF/1000	500	130	6.16	0.49	0.48	400.40	31.53	31.27
Air Compressor	153517	9320	4097	Diesel	OFF-RD TIER 3 100-175 HP	HP HRS*EF/1000	500	130	6.16	0.49	0.48	400.40	31.53	31.27
Auxiliary Power	154640	8425	4124	Diesel	OFF-RD TIER 3 175-600 HP	HP HRS*EF/1000	500	349	6.16	0.02	0.48	1074.92	3.84	83.93
Chipper Engine	157630	Basewide	4293	Diesel	OFF-RD TIER 3 100-175 HP	HP HRS*EF/1000	500	115	6.16	0.49	0.48	354.20	27.89	27.66
Other	157631	10715	4294	Diesel	OFF-RD TIER 4 50-75 HP INTERIM	HP HRS*EF/1000	500	60	7.19	0.04	0.56	215.70	1.32	16.86
Air Compressor	158388	Basewide	4307	Diesel	OFF-RD TIER 3 175-600 HP	HP HRS*EF/1000	500	260	6.16	0.02	0.48	800.80	2.86	62.53
APU on Vacuum Truck	160694	Basewide	4368	Diesel	OFF-RD TIER 3 100-175 HP	HP HRS*EF/1000	500	140	6.16	0.49	0.48	431.20	33.95	33.67
Auxiliary Power	165532	Basewide	667306	Diesel	OFF-RD TIER 1 100-175 HP	HP HRS*EF/1000	500	100	15.20	2.51	2.79	760.00	125.50	139.50
Auxiliary Power	172855	Basewide	698117	Diesel	OFF-RD TIER 4 100-175 HP	HP HRS*EF/1000	500	115	0.66	0.02	0.33	38.01	1.27	18.98
Auxiliary Power	173572	Basewide	700047	Diesel	OFF-RD TIER 4 50-75 HP	HP HRS*EF/1000	500	74	7.19	0.04	0.56	266.03	1.63	20.79
Auxiliary Power	173573	Basewide	700099	Diesel	OFF-RD TIER 4 50-75 HP	HP HRS*EF/1000	500	74	7.19	0.04	0.56	266.03	1.63	20.79
Auxiliary Power	173574	Basewide	700100	Diesel	OFF-RD TIER 4 300-600 HP	HP HRS*EF/1000	500	320	0.66	0.02	0.33	105.76	3.52	52.80
Air Compressor	179153	Basewide	717151	Diesel	OFF-RD TIER 4 175-300 HP	HP HRS*EF/1000	500	260	0.66	0.02	0.33	85.93	2.86	42.90
Air Compressor	179154	Basewide	717152	Diesel	OFF-RD TIER 4 175-300 HP	HP HRS*EF/1000	500	260	0.66	0.02	0.33	85.93	2.86	42.90
Auxiliary Power	182216	1704	718068	Diesel	OFF-RD TIER 4 100-175 HP	HP HRS*EF/1000	500	169	0.66	0.02	0.33	55.85	1.86	27.89
Generator	182217	1703	718669	Diesel	OFF-RD TIER 4 100-175 HP	HP HRS*EF/1000	500	169	0.66	0.02	0.33	55.85	1.86	27.89
Auxiliary Power	174907	Basewide	728052	Diesel	OFF-RD TIER 4 100-175 HP	HP HRS*EF/1000	500	155	0.66	0.02	0.33	51.23	1.71	25.58
Air Compressor	191767	1731	732815	Diesel	OFF-RD TIER 4 100-175 HP	HP HRS*EF/1000	500	147	0.66	0.02	0.33	48.58	1.62	24.26
Total (Lbs/yr)											6,072	332	776	
Total (TPY)											3.04	0.17	0.39	

Notes:
 Emission factors are in lbs/1000 Bhp-Hr
 PTE Usage is estimated at 500 hours/yr

Table A-4. Estimated Emissions from TSE Internal Combustion Engines

Description	Location	Pri_ID	Fuel	Engine Tier	Equation	Hours	Size	Emission Factors			Emissions (Lbs/Yr)		
						PTE	(BHP)	NOx	PM	ROC	NOx	PM	ROC
Auxiliary Power	8425	696	Diesel	OFF-RD TIER 0	HP HRS*EF/1000	500	390	35.7	2.51	2.79	6961.50	489.45	544.05
Auxiliary Power	8425	708	Diesel	OFF-RD TIER 0	HP HRS*EF/1000	500	148	35.7	2.51	2.79	2641.80	185.74	206.46
Aircraft Engine Starting ^(a)	1746 and Flightline	2055	JP-8	JP-8/PTO 8585	HP HRS*EF/1000	500	100	35.7	2.51	2.79	1785.00	125.50	139.50
Auxiliary Power	8425	3027	Diesel	OFF-RD TIER 0	HP HRS*EF/1000	500	390	35.7	2.51	2.79	6961.50	489.45	544.05
Generator	8426	3035	Diesel	OFF-RD TIER 1 75-100 HP	HP HRS*EF/1000	500	79	15.2	2.51	2.79	600.40	99.15	110.21
Auxiliary Power	8425	3037	Diesel	OFF-RD TIER 0	HP HRS*EF/1000	500	80	35.7	2.51	2.79	1428.00	100.40	111.60
Auxiliary Power	8425	3038	Diesel	OFF-RD TIER 0	HP HRS*EF/1000	500	80	35.7	2.51	2.79	1428.00	100.40	111.60
Auxiliary Power	8425	3193	Diesel	OFF-RD TIER 0	HP HRS*EF/1000	500	30	35.7	2.51	2.79	535.50	37.65	41.85
Auxiliary Power	8425	3194	Diesel	OFF-RD TIER 0	HP HRS*EF/1000	500	30	35.7	2.51	2.79	535.50	37.65	41.85
Optical Tracking	12000	3394	Diesel	OFF-RD TIER 0	HP HRS*EF/1000	500	16	35.7	2.51	2.79	285.60	20.08	22.32
Pumping Operations	7501	3419	Diesel	OFF-RD TIER 1 75-100 HP	HP HRS*EF/1000	500	80	15.2	2.51	2.79	608.00	100.40	111.60
Aircraft Support	1755	3421	Diesel	OFF-RD TIER 0	HP HRS*EF/1000	250	49	35.7	2.51	2.79	437.33	30.75	34.18
Optical Tracking	12000	3558	Diesel	OFF-RD TIER 0	HP HRS*EF/1000	500	16	35.7	2.51	2.79	285.60	20.08	22.32
Optical Tracking	12000	3559	Diesel	OFF-RD TIER 0	HP HRS*EF/1000	500	16	35.7	2.51	2.79	285.60	20.08	22.32
Transient Maintenance	Flightline	3613	Diesel	OFF-RD TIER 0	HP HRS*EF/1000	500	148	35.7	2.51	2.79	2641.80	185.74	206.46
Transient Maintenance	Flightline	3614	Diesel	OFF-RD TIER 0	HP HRS*EF/1000	500	148	35.7	2.51	2.79	2641.80	185.74	206.46
Transient Maintenance	Flightline	3615	Diesel	OFF-RD TIER 0	HP HRS*EF/1000	500	148	35.7	2.51	2.79	2641.80	185.74	206.46
Transient Maintenance	Flightline	3617	Diesel	OFF-RD TIER 0	HP HRS*EF/1000	500	148	35.7	2.51	2.79	2641.80	185.74	206.46
Transient Maintenance	Flightline	3618	Diesel	OFF-RD TIER 0	HP HRS*EF/1000	500	148	35.7	2.51	2.79	2641.80	185.74	206.46
Auxiliary Power	7425	3735	Diesel	OFF-RD TIER 0	HP HRS*EF/1000	500	64	35.7	2.51	2.79	1142.40	80.32	89.28
Optical Tracking	12000	3808	Diesel	OFF-RD TIER 0	HP HRS*EF/1000	500	82	35.7	2.51	2.79	1463.70	102.91	114.39
Optical Tracking	12000	3809	Diesel	OFF-RD TIER 0	HP HRS*EF/1000	500	82	35.7	2.51	2.79	1463.70	102.91	114.39
Auxiliary Power	8425	3817	Diesel	OFF-RD TIER 3 175-300 HP	HP HRS*EF/1000	500	216	6.16	0.022	0.481	665.28	2.38	51.95
Auxiliary Power	8425	3818	Diesel	OFF-RD TIER 3 175-300 HP	HP HRS*EF/1000	500	216	6.16	0.022	0.481	665.28	2.38	51.95
Trailer/Van APU	8314	3820	Diesel	OFF-RD TIER 0	HP HRS*EF/1000	500	56	35.7	2.51	2.79	999.60	70.28	78.12
Trailer/Van APU	8314	3821	Diesel	OFF-RD TIER 0	HP HRS*EF/1000	500	56	35.7	2.51	2.79	999.60	70.28	78.12
Compressor	10717	3892	Diesel	OFF-RD TIER 1 75-100 HP	HP HRS*EF/1000	500	78	15.2	2.51	2.79	592.80	97.89	108.81
Pump & Blower	10717	3894	Diesel	OFF-RD TIER 2 75-100 HP	HP HRS*EF/1000	500	99	7.19	0.661	0.562	355.91	32.72	27.82
Compressor	10715	3902	Diesel	OFF-RD TIER 0	HP HRS*EF/1000	500	78	35.7	2.51	2.79	1392.30	97.89	108.81
Auxiliary Power	Basewide	3903	Diesel	OFF-RD TIER 2 50-75 HP	HP HRS*EF/1000	500	64	11.5	0.661	0.899	368.00	21.15	28.77
TRS Support	81	3946	Diesel	OFF-RD TIER 0	HP HRS*EF/1000	500	155	35.7	2.51	2.79	2766.75	194.53	216.23
Optical Tracking	12000	4008	Diesel	OFF-RD TIER 0	HP HRS*EF/1000	500	134	35.7	2.51	2.79	2391.90	168.17	186.93
Generator	8425	4034	Diesel	OFF-RD TIER 1	HP HRS*EF/1000	500	24.1	14.6	1.32	1.14	175.93	15.91	13.74
Generator	8425	4035	Diesel	OFF-RD TIER 2	HP HRS*EF/1000	500	24.1	11.5	1.32	0.899	138.58	15.91	10.83
Auxiliary Power	8425	4143	Diesel	OFF-RD TIER 1 175-300 HP	HP HRS*EF/1000	500	215	15.2	0.882	2.36	1634.00	94.82	253.70
Sweeper ^(b)	10717	4288	Diesel	OFF-RD TIER 4 50-75 HP INTERIM	HP HRS*EF/1000	500	50	7.19	0.661	0.562	179.75	16.53	14.05
Generator	1735	4298	Diesel	OFF-RD TIER 1 75-100 HP	HP HRS*EF/1000	500	99	15.2	2.51	2.79	752.40	124.25	138.11
Generator	1735	4299	Diesel	OFF-RD TIER 1 75-100 HP	HP HRS*EF/1000	500	99	15.2	2.51	2.79	752.40	124.25	138.11
Generator	1735	4300	Diesel	OFF-RD TIER 1 75-100 HP	HP HRS*EF/1000	500	99	15.2	2.51	2.79	752.40	124.25	138.11
Generator	1735	4301	Diesel	OFF-RD TIER 1 75-100 HP	HP HRS*EF/1000	500	99	15.2	2.51	2.79	752.40	124.25	138.11
Start Cart ^(c)	1735	4310	JP-8	JP-8/PTO 8585	HP HRS*EF/1000	500	38.8	35.7	2.51	2.79	692.58	48.69	54.13
Start Cart ^(c)	1735	4311	JP-8	JP-8/PTO 8585	HP HRS*EF/1000	500	38.8	35.7	2.51	2.79	692.58	48.69	54.13
Aircraft Engine Starting ^(a)	1746 and Flightline	630175	JP-8	JP-8	HP HRS*EF/1000	500	100	35.7	2.51	2.79	1785.00	125.50	139.50
Water Pump	10717	644515	Diesel	OFF-RD TIER 2 50-75 HP	HP HRS*EF/1000	500	63	11.5	0.661	0.899	362.25	20.82	28.32
Water Pump	10717	644516	Diesel	OFF-RD TIER 0	HP HRS*EF/1000	500	63	35.7	2.51	2.79	1124.55	79.07	87.89
Start Cart ^(c)	1735	653788	JP-8	JP-8	HP HRS*EF/1000	500	38.8	35.7	2.51	2.79	692.58	48.69	54.13
Start Cart ^(c)	1735	653789	JP-8	JP-8	HP HRS*EF/1000	500	38.8	35.7	2.51	2.79	692.58	48.69	54.13
Auxiliary Power	1735	677068	Diesel	OFF-RD TIER 3 300-600 HP	HP HRS*EF/1000	500	569	6.16	0.022	0.481	1752.52	6.26	136.84
Generator	10715	703412	Diesel	OFF-RD TIER 2 100-175 HP	HP HRS*EF/1000	500	110	6.16	0.485	0.481	338.80	26.68	26.46

Table A-4. Estimated Emissions from TSE Internal Combustion Engines

Description	Location	Pri_ID	Fuel	Engine Tier	Equation	Hours	Size	Emission Factors			Emissions (Lbs/Yr)		
						PTE	(BHP)	NOx	PM	ROC	NOx	PM	ROC
Generator	8425	712927	Diesel	OFF-RD TIER 1 75-100 HP	HP HRS*EF/1000	500	92	15.2	2.51	2.79	699.20	115.46	128.34
Generator	12000	718452	Diesel	OFF-RD TIER 3	HP HRS*EF/1000	500	99	7.19	0.022	0.562	355.91	1.09	27.82
Generator	12000	718453	Diesel	OFF-RD TIER 3	HP HRS*EF/1000	500	99	7.19	0.022	0.562	355.91	1.09	27.82
Generator	12000	718454	Diesel	OFF-RD TIER 3	HP HRS*EF/1000	500	99	7.19	0.022	0.562	355.91	1.09	27.82
Generator	8425	719726	Diesel	OFF-RD TIER 4	HP HRS*EF/1000	500	139	0.661	0.022	0.33	45.94	1.53	22.94
Generator	8425	719728	Diesel	OFF-RD TIER 4	HP HRS*EF/1000	500	139	0.661	0.022	0.33	45.94	1.53	22.94
Generator	8425	722304	Diesel	OFF-RD TIER 4	HP HRS*EF/1000	500	49	7.19	0.0441	0.562	176.16	1.08	13.77
Generator	8425	726921	Diesel	OFF-RD TIER 4	HP HRS*EF/1000	500	49	7.19	0.0441	0.562	176.16	1.08	13.77
Generator	12000	727958	Diesel	OFF-RD TIER 3	HP HRS*EF/1000	500	99	7.19	0.022	0.562	355.91	1.09	27.82
Generator	12000	727959	Diesel	OFF-RD TIER 3	HP HRS*EF/1000	500	99	7.19	0.022	0.562	355.91	1.09	27.82
Generator	12000	727960	Diesel	OFF-RD TIER 3	HP HRS*EF/1000	500	99	7.19	0.022	0.562	355.91	1.09	27.82
Generator	12000	727961	Diesel	OFF-RD TIER 3	HP HRS*EF/1000	500	99	7.19	0.022	0.562	355.91	1.09	27.82
Generator	12000	727963	Diesel	OFF-RD TIER 3	HP HRS*EF/1000	500	99	7.19	0.022	0.562	355.91	1.09	27.82
Sweeper	10715	730530	Diesel	OFF-RD TIER 0	HP HRS*EF/1000	500	110	35.7	2.51	2.79	1963.50	138.05	153.45
Generator	Basewide	732838	Diesel	OFF-RD TIER 0	HP HRS*EF/1000	500	39	35.7	2.51	2.79	696.15	48.95	54.41
Generator	Basewide	732841	Diesel	OFF-RD TIER 0	HP HRS*EF/1000	500	39	35.7	2.51	2.79	696.15	48.95	54.41
Generator	Basewide	732843	Diesel	OFF-RD TIER 0	HP HRS*EF/1000	500	39	35.7	2.51	2.79	696.15	48.95	54.41
Generator	Basewide	732844	Diesel	OFF-RD TIER 0	HP HRS*EF/1000	500	39	35.7	2.51	2.79	696.15	48.95	54.41
Generator	Basewide	732845	Diesel	OFF-RD TIER 0	HP HRS*EF/1000	500	39	35.7	2.51	2.79	696.15	48.95	54.41
Generator	Basewide	732846	Diesel	OFF-RD TIER 0	HP HRS*EF/1000	500	39	35.7	2.51	2.79	696.15	48.95	54.41
Generator	Basewide	732847	Diesel	OFF-RD TIER 0	HP HRS*EF/1000	500	39	35.7	2.51	2.79	696.15	48.95	54.41
Generator	Basewide	732848	Diesel	OFF-RD TIER 0	HP HRS*EF/1000	500	39	35.7	2.51	2.79	696.15	48.95	54.41
Generator	Basewide	732849	Diesel	OFF-RD TIER 0	HP HRS*EF/1000	500	39	35.7	2.51	2.79	696.15	48.95	54.41
Generator	Basewide	732850	Diesel	OFF-RD TIER 0	HP HRS*EF/1000	500	39	35.7	2.51	2.79	696.15	48.95	54.41
Total (Lbs/yr)											79,442	5,679	6,954
Total (TPY)											39.72	2.84	3.48

Notes:

Emission factors are in lbs/1000 Bhp-hr

PTE Usage is estimated at 500 hours/yr

Table A-5. Estimated Emissions from Permit Exempt External Combustion Devices

Description	Location	Pri_ID	Capacity (MMBTU)	Fuel	Equation	Usage		Emission Factors			Emissions (Lbs/Yr)		
						PTE	Units	NOx	PM	ROC	NOx	PM	ROC
Furnace	1577	910	0.1	Propane/LPG	EF_FACTOR*GALS/1000	3,173.91	GALS	8.46	0.69	0.50	26.86	2.19	1.58
Furnace	1749	947	0.1	Natural Gas	EF_FACTOR*MMSCF	0.28	MMSCF	96.60	7.88	5.67	26.86	2.19	1.58
Furnace	1785	950	0.85	Propane/LPG	EF_FACTOR*GALS/1000	26,978.26	GALS	13.50	0.69	0.50	364.21	18.62	13.40
Water Heater	1930	963	0.06	Propane/LPG	EF_FACTOR*GALS/1000	1,904.35	GALS	8.46	0.69	0.50	16.12	1.31	0.95
Furnace	657	981	0.06	Propane/LPG	EF_FACTOR*GALS/1000	1,904.35	GALS	8.46	0.69	0.50	16.12	1.31	0.95
Furnace	765	1007	0.625	Natural Gas	EF_FACTOR*MMSCF	1.74	MMSCF	102.90	7.88	5.67	178.85	13.69	9.86
Boiler	7437	1053	0.35	Natural Gas	EF_FACTOR*MMSCF	0.97	MMSCF	96.60	7.88	5.67	94.02	7.67	5.52
Boiler	8337	1066	0.825	Natural Gas	EF_FACTOR*MMSCF	2.29	MMSCF	102.90	7.88	5.67	236.08	18.07	13.01
Boiler	8415	1073	1.75	Natural Gas	EF_FACTOR*MMSCF	4.87	MMSCF	102.90	7.88	5.67	500.78	38.33	27.59
Boiler	13007	1114	0.627	Natural Gas	EF_FACTOR*MMSCF	1.74	MMSCF	102.90	7.88	5.67	179.42	13.73	9.89
Boiler	13143	1119	0.627	Natural Gas	EF_FACTOR*MMSCF	1.74	MMSCF	102.90	7.88	5.67	179.42	13.73	9.89
Boiler	13143	1120	0.627	Natural Gas	EF_FACTOR*MMSCF	1.74	MMSCF	102.90	7.88	5.67	179.42	13.73	9.89
Furnace	10343	2614	0.3	Natural Gas	EF_FACTOR*MMSCF	0.83	MMSCF	96.60	7.88	5.67	80.59	6.57	4.73
Furnace	10343	2615	0.3	Natural Gas	EF_FACTOR*MMSCF	0.83	MMSCF	96.60	7.88	5.67	80.59	6.57	4.73
Furnace	6816	2619	0.2	Natural Gas	EF_FACTOR*MMSCF	0.56	MMSCF	96.60	7.88	5.67	53.73	4.38	3.15
Boiler	8310	2627	1	Natural Gas	EF_FACTOR*MMSCF	2.78	MMSCF	102.90	7.88	5.67	286.16	21.90	15.77
Boiler	13123	2660	0.512	Natural Gas	EF_FACTOR*MMSCF	1.42	MMSCF	102.90	7.88	5.67	146.51	11.21	8.07
Boiler	13121	2661	0.512	Natural Gas	EF_FACTOR*MMSCF	1.42	MMSCF	102.90	7.88	5.67	146.51	11.21	8.07
Boiler	13121	2679	0.299	Natural Gas	EF_FACTOR*MMSCF	0.83	MMSCF	96.60	7.88	5.67	80.32	6.55	4.71
Boiler	23235	2683	0.1	Natural Gas	EF_FACTOR*MMSCF	0.28	MMSCF	96.60	7.88	5.67	26.86	2.19	1.58
Furnace	1521	3116	0.125	Propane/LPG	EF_FACTOR*GALS/1000	3,967.39	GALS	8.46	0.69	0.50	33.58	2.74	1.97
Furnace	1521	3117	0.125	Propane/LPG	EF_FACTOR*GALS/1000	3,967.39	GALS	8.46	0.69	0.50	33.58	2.74	1.97
Furnace	1632	3120	0.125	Propane/LPG	EF_FACTOR*GALS/1000	3,967.39	GALS	13.50	0.69	0.50	53.56	2.74	1.97
Furnace	10711	3134	0.35	Natural Gas	EF_FACTOR*MMSCF	0.97	MMSCF	96.60	7.88	5.67	94.02	7.67	5.52
Boiler	11070	3141	0.264	Natural Gas	EF_FACTOR*MMSCF	0.73	MMSCF	96.60	7.88	5.67	70.92	5.78	4.16
Furnace	13022	3143	0.4	Natural Gas	EF_FACTOR*MMSCF	1.11	MMSCF	96.60	7.88	5.67	107.46	8.76	6.31
Boiler	16170	3154	1.467	Natural Gas	EF_FACTOR*MMSCF	4.08	MMSCF	102.90	7.88	5.67	419.80	32.13	23.13
Boiler	16170	3155	0.333	Natural Gas	EF_FACTOR*MMSCF	0.93	MMSCF	96.60	7.88	5.67	89.46	7.29	5.25
Furnace	1335	3171	0.11	Propane/LPG	EF_FACTOR*GALS/1000	3,491.30	GALS	13.50	0.69	0.50	47.13	2.41	1.73
Furnace	1335	3172	0.11	Propane/LPG	EF_FACTOR*GALS/1000	3,491.30	GALS	13.50	0.69	0.50	47.13	2.41	1.73
Furnace	1335	3173	0.11	Propane/LPG	EF_FACTOR*GALS/1000	3,491.30	GALS	13.50	0.69	0.50	47.13	2.41	1.73
Furnace	1632	3203	0.125	Propane/LPG	EF_FACTOR*GALS/1000	3,967.39	GALS	13.50	0.69	0.50	53.56	2.74	1.97
Furnace	1338	3216	0.1	Propane/LPG	EF_FACTOR*GALS/1000	3,173.91	GALS	8.46	0.69	0.50	26.86	2.19	1.58
Furnace	6005	3219	0.08	Natural Gas	EF_FACTOR*MMSCF	0.22	MMSCF	96.60	7.88	5.67	21.49	1.75	1.26
Boiler	1545	3224	0.32	Natural Gas	EF_FACTOR*MMSCF	0.89	MMSCF	96.60	7.88	5.67	85.96	7.01	5.05
Boiler	1545	3225	0.32	Natural Gas	EF_FACTOR*MMSCF	0.89	MMSCF	96.60	7.88	5.67	85.96	7.01	5.05
Furnace	860	3228	0.115	Natural Gas	EF_FACTOR*MMSCF	0.32	MMSCF	96.60	7.88	5.67	30.89	2.52	1.81
Furnace	860	3229	0.115	Natural Gas	EF_FACTOR*MMSCF	0.32	MMSCF	96.60	7.88	5.67	30.89	2.52	1.81
Furnace	1659	3235	0.15	Propane/LPG	EF_FACTOR*GALS/1000	4,760.87	GALS	8.46	0.69	0.50	40.30	3.29	2.37
Furnace	1740	3236	0.074	Natural Gas	EF_FACTOR*MMSCF	0.21	MMSCF	96.60	7.88	5.67	19.88	1.62	1.17
Furnace	1749	3238	0.08	Natural Gas	EF_FACTOR*MMSCF	0.22	MMSCF	96.60	7.88	5.67	21.49	1.75	1.26
Furnace	1785	3239	0.088	Propane/LPG	EF_FACTOR*GALS/1000	2,793.04	GALS	8.46	0.69	0.50	23.64	1.93	1.39
Furnace	6444	3244	0.075	Natural Gas	EF_FACTOR*MMSCF	0.21	MMSCF	96.60	7.88	5.67	20.15	1.64	1.18
Furnace	9340	3247	0.75	Natural Gas	EF_FACTOR*MMSCF	2.09	MMSCF	102.90	7.88	5.67	214.62	16.43	11.83
Furnace	10122	3250	0.1	Natural Gas	EF_FACTOR*MMSCF	0.28	MMSCF	96.60	7.88	5.67	26.86	2.19	1.58
Furnace	10343	3252	0.1	Natural Gas	EF_FACTOR*MMSCF	0.28	MMSCF	96.60	7.88	5.67	26.86	2.19	1.58

Table A-5. Estimated Emissions from Permit Exempt External Combustion Devices

Description	Location	Pri_ID	Capacity (MMBTU)	Fuel	Equation	Usage		Emission Factors			Emissions (Lbs/Yr)		
						PTE	Units	NOx	PM	ROC	NOx	PM	ROC
Furnace	10343	3253	0.1	Natural Gas	EF_FACTOR*MMSCF	0.28	MMSCF	96.60	7.88	5.67	26.86	2.19	1.58
Boiler	21150	3258	0.3	Propane/LPG	EF_FACTOR*GALS/1000	9,521.74	GALS	8.46	0.69	0.50	80.59	6.57	4.73
Furnace	11152	3260	0.11	Natural Gas	EF_FACTOR*MMSCF	0.31	MMSCF	96.60	7.88	5.67	29.55	2.41	1.73
Furnace	13001	3262	0.088	Natural Gas	EF_FACTOR*MMSCF	0.24	MMSCF	96.60	7.88	5.67	23.64	1.93	1.39
Furnace	13001	3263	0.088	Natural Gas	EF_FACTOR*MMSCF	0.24	MMSCF	96.60	7.88	5.67	23.64	1.93	1.39
Furnace	13001	3264	0.088	Natural Gas	EF_FACTOR*MMSCF	0.24	MMSCF	96.60	7.88	5.67	23.64	1.93	1.39
Furnace	13001	3265	0.088	Natural Gas	EF_FACTOR*MMSCF	0.24	MMSCF	96.60	7.88	5.67	23.64	1.93	1.39
Boiler	21330	3273	0.186	Propane/LPG	EF_FACTOR*GALS/1000	5,903.48	GALS	8.46	0.69	0.50	49.97	4.07	2.93
Furnace	1740	3281	0.15	Natural Gas	EF_FACTOR*MMSCF	0.42	MMSCF	96.60	7.88	5.67	40.30	3.29	2.37
Furnace	1740	3282	0.075	Natural Gas	EF_FACTOR*MMSCF	0.21	MMSCF	96.60	7.88	5.67	20.15	1.64	1.18
Furnace	10366	3287	0.11	Natural Gas	EF_FACTOR*MMSCF	0.31	MMSCF	96.60	7.88	5.67	29.55	2.41	1.73
Furnace	16130	3299	0.13	Natural Gas	EF_FACTOR*MMSCF	0.36	MMSCF	96.60	7.88	5.67	34.92	2.85	2.05
Furnace	16135	3300	0.13	Natural Gas	EF_FACTOR*MMSCF	0.36	MMSCF	96.60	7.88	5.67	34.92	2.85	2.05
Furnace	16140	3301	0.13	Natural Gas	EF_FACTOR*MMSCF	0.36	MMSCF	96.60	7.88	5.67	34.92	2.85	2.05
Furnace	16140	3302	0.13	Natural Gas	EF_FACTOR*MMSCF	0.36	MMSCF	96.60	7.88	5.67	34.92	2.85	2.05
Furnace	10366	3353	0.1	Natural Gas	EF_FACTOR*MMSCF	0.28	MMSCF	96.60	7.88	5.67	26.86	2.19	1.58
Furnace	10366	3354	0.1	Natural Gas	EF_FACTOR*MMSCF	0.28	MMSCF	96.60	7.88	5.67	26.86	2.19	1.58
Furnace	10363	3355	0.125	Natural Gas	EF_FACTOR*MMSCF	0.35	MMSCF	96.60	7.88	5.67	33.58	2.74	1.97
Furnace	10363	3356	0.125	Natural Gas	EF_FACTOR*MMSCF	0.35	MMSCF	96.60	7.88	5.67	33.58	2.74	1.97
Furnace	10373	3357	0.1	Natural Gas	EF_FACTOR*MMSCF	0.28	MMSCF	96.60	7.88	5.67	26.86	2.19	1.58
Furnace	10717	3359	0.08	Natural Gas	EF_FACTOR*MMSCF	0.22	MMSCF	96.60	7.88	5.67	21.49	1.75	1.26
Furnace	11165	3360	0.115	Natural Gas	EF_FACTOR*MMSCF	0.32	MMSCF	96.60	7.88	5.67	30.89	2.52	1.81
Boiler	11248	3361	0.264	Natural Gas	EF_FACTOR*MMSCF	0.73	MMSCF	96.60	7.88	5.67	70.92	5.78	4.16
Furnace	1335	3368	0.11	Propane/LPG	EF_FACTOR*GALS/1000	3,491.30	GALS	13.50	0.69	0.50	47.13	2.41	1.73
Furnace	12901	3371	0.075	Natural Gas	EF_FACTOR*MMSCF	0.21	MMSCF	96.60	7.88	5.67	20.15	1.64	1.18
Furnace	2505	3375	0.1	Natural Gas	EF_FACTOR*MMSCF	0.28	MMSCF	96.60	7.88	5.67	26.86	2.19	1.58
Furnace	6601	3376	0.088	Natural Gas	EF_FACTOR*MMSCF	0.24	MMSCF	96.60	7.88	5.67	23.64	1.93	1.39
Furnace	7430	3379	0.135	Natural Gas	EF_FACTOR*MMSCF	0.38	MMSCF	96.60	7.88	5.67	36.27	2.96	2.13
Furnace	8425	3382	0.08	Natural Gas	EF_FACTOR*MMSCF	0.22	MMSCF	96.60	7.88	5.67	21.49	1.75	1.26
Furnace	8425	3383	0.1	Natural Gas	EF_FACTOR*MMSCF	0.28	MMSCF	96.60	7.88	5.67	26.86	2.19	1.58
Furnace	9340	3621	0.15	Natural Gas	EF_FACTOR*MMSCF	0.42	MMSCF	96.60	7.88	5.67	40.30	3.29	2.37
Furnace	9340	3622	0.3	Natural Gas	EF_FACTOR*MMSCF	0.83	MMSCF	96.60	7.88	5.67	80.59	6.57	4.73
Furnace	9340	3623	0.15	Natural Gas	EF_FACTOR*MMSCF	0.42	MMSCF	96.60	7.88	5.67	40.30	3.29	2.37
Furnace	9340	3624	0.25	Natural Gas	EF_FACTOR*MMSCF	0.70	MMSCF	96.60	7.88	5.67	67.16	5.48	3.94
Furnace	9340	3625	0.88	Natural Gas	EF_FACTOR*MMSCF	2.45	MMSCF	102.90	7.88	5.67	251.82	19.27	13.88
Boiler	7050	3627	1	Natural Gas	EF_FACTOR*MMSCF	2.78	MMSCF	102.90	7.88	5.67	286.16	21.90	15.77
Boiler	7050	3628	1	Natural Gas	EF_FACTOR*MMSCF	2.78	MMSCF	102.90	7.88	5.67	286.16	21.90	15.77
Boiler	8337	3630	0.7	Natural Gas	EF_FACTOR*MMSCF	1.95	MMSCF	102.90	7.88	5.67	200.31	15.33	11.04
Boiler	8337	3631	0.7	Natural Gas	EF_FACTOR*MMSCF	1.95	MMSCF	102.90	7.88	5.67	200.31	15.33	11.04
Boiler	9320	3636	1.79	Natural Gas	EF_FACTOR*MMSCF	4.98	MMSCF	37.80	7.88	5.67	188.16	39.20	28.22
Boiler	11439	3637	0.76	Natural Gas	EF_FACTOR*MMSCF	2.11	MMSCF	37.80	7.88	5.67	79.89	16.64	11.98
Boiler	861	3646	0.6	Natural Gas	EF_FACTOR*MMSCF	1.67	MMSCF	37.80	7.88	5.67	63.07	13.14	9.46
Boiler	1555	3652	0.99	Natural Gas	EF_FACTOR*MMSCF	2.75	MMSCF	37.80	7.88	5.67	104.07	21.68	15.61
Boiler	1555	3653	0.65	Natural Gas	EF_FACTOR*MMSCF	1.81	MMSCF	37.80	7.88	5.67	68.33	14.24	10.25
Boiler	1731	3654	0.75	Natural Gas	EF_FACTOR*MMSCF	2.09	MMSCF	37.80	7.88	5.67	78.84	16.43	11.83
Boiler	1824	3659	0.135	Propane/LPG	EF_FACTOR*GALS/1000	4,284.78	GALS	8.46	0.69	0.50	36.27	2.96	2.13

Table A-5. Estimated Emissions from Permit Exempt External Combustion Devices

Description	Location	Pri_ID	Capacity (MMBTU)	Fuel	Equation	Usage		Emission Factors			Emissions (Lbs/Yr)		
						PTE	Units	NOx	PM	ROC	NOx	PM	ROC
Boiler	1833	3660	0.135	Propane/LPG	EF_FACTOR*GALS/1000	4,284.78	GALS	8.46	0.69	0.50	36.27	2.96	2.13
Water Heater	6601	3667	0.751	Natural Gas	EF_FACTOR*MMSCF	2.09	MMSCF	102.90	7.88	5.67	214.91	16.45	11.84
Boiler	8175	3677	0.299	Natural Gas	EF_FACTOR*MMSCF	0.83	MMSCF	69.30	7.88	5.67	57.62	6.55	4.71
Boiler	8250	3680	0.299	Natural Gas	EF_FACTOR*MMSCF	0.83	MMSCF	69.30	7.88	5.67	57.62	6.55	4.71
Water Heater	8290	3682	0.199	Natural Gas	EF_FACTOR*MMSCF	0.55	MMSCF	96.60	7.88	5.67	53.46	4.36	3.14
Boiler	8305	3683	0.35	Natural Gas	EF_FACTOR*MMSCF	0.97	MMSCF	96.60	7.88	5.67	94.02	7.67	5.52
Water Heater	8310	3684	0.16	Natural Gas	EF_FACTOR*MMSCF	0.44	MMSCF	96.60	7.88	5.67	42.98	3.50	2.52
Water Heater	8505	3688	0.25	Natural Gas	EF_FACTOR*MMSCF	0.70	MMSCF	96.60	7.88	5.67	67.16	5.48	3.94
Boiler	9334	3698	0.5	Natural Gas	EF_FACTOR*MMSCF	1.39	MMSCF	37.80	7.88	5.67	52.56	10.95	7.88
Boiler	10400	3701	0.8	Natural Gas	EF_FACTOR*MMSCF	2.22	MMSCF	102.90	7.88	5.67	228.93	17.52	12.61
Water Heater	11777	3713	0.04	Natural Gas	EF_FACTOR*MMSCF	0.11	MMSCF	96.60	7.88	5.67	10.75	0.88	0.63
Water Heater	13007	3718	0.199	Natural Gas	EF_FACTOR*MMSCF	0.55	MMSCF	96.60	7.88	5.67	53.46	4.36	3.14
Water Heater	13007	3719	0.2	Natural Gas	EF_FACTOR*MMSCF	0.56	MMSCF	96.60	7.88	5.67	53.73	4.38	3.15
Water Heater	13007	3720	0.199	Natural Gas	EF_FACTOR*MMSCF	0.55	MMSCF	96.60	7.88	5.67	53.46	4.36	3.14
Water Heater	13675	3727	0.199	Natural Gas	EF_FACTOR*MMSCF	0.55	MMSCF	96.60	7.88	5.67	53.46	4.36	3.14
Water Heater	14300	3732	0.3	Natural Gas	EF_FACTOR*MMSCF	0.83	MMSCF	69.30	7.88	5.67	57.82	6.57	4.73
Water Heater	8500	3745	0.199	Natural Gas	EF_FACTOR*MMSCF	0.55	MMSCF	96.60	7.88	5.67	53.46	4.36	3.14
Boiler	13862	3779	0.1	Natural Gas	EF_FACTOR*MMSCF	0.28	MMSCF	96.60	7.88	5.67	26.86	2.19	1.58
Boiler	6527	3810	0.65	Natural Gas	EF_FACTOR*MMSCF	1.81	MMSCF	37.80	7.88	5.67	68.33	14.24	10.25
Boiler	7501	3812	0.65	Natural Gas	EF_FACTOR*MMSCF	1.81	MMSCF	37.80	7.88	5.67	68.33	14.24	10.25
Boiler	7501	3813	0.65	Natural Gas	EF_FACTOR*MMSCF	1.81	MMSCF	37.80	7.88	5.67	68.33	14.24	10.25
Boiler	8250	3826	0.299	Natural Gas	EF_FACTOR*MMSCF	0.83	MMSCF	69.30	7.88	5.67	57.62	6.55	4.71
Water Heater	1728	3833	0.075	Natural Gas	EF_FACTOR*MMSCF	0.21	MMSCF	69.30	7.88	5.67	14.45	1.64	1.18
Water Heater	1335	3850	0.156	Natural Gas	EF_FACTOR*MMSCF	0.43	MMSCF	96.60	7.88	5.67	41.91	3.42	2.46
Boiler	1871	3851	0.13	Natural Gas	EF_FACTOR*MMSCF	0.36	MMSCF	96.60	7.88	5.67	34.92	2.85	2.05
Boiler	1871	3852	0.13	Natural Gas	EF_FACTOR*MMSCF	0.36	MMSCF	96.60	7.88	5.67	34.92	2.85	2.05
Boiler	1871	3853	0.13	Natural Gas	EF_FACTOR*MMSCF	0.36	MMSCF	96.60	7.88	5.67	34.92	2.85	2.05
Water Heater	7501	3855	0.034	Natural Gas	EF_FACTOR*MMSCF	0.09	MMSCF	96.60	7.88	5.67	9.13	0.74	0.54
Water Heater	8314	3857	0.034	Natural Gas	EF_FACTOR*MMSCF	0.09	MMSCF	96.60	7.88	5.67	9.13	0.74	0.54
Water Heater	8500	3858	0.199	Natural Gas	EF_FACTOR*MMSCF	0.55	MMSCF	69.30	7.88	5.67	38.35	4.36	3.14
Boiler	9005	3859	0.745	Natural Gas	EF_FACTOR*MMSCF	2.07	MMSCF	37.80	7.88	5.67	78.31	16.32	11.75
Boiler	9005	3860	0.745	Natural Gas	EF_FACTOR*MMSCF	2.07	MMSCF	37.80	7.88	5.67	78.31	16.32	11.75
Boiler	9005	3861	0.15	Natural Gas	EF_FACTOR*MMSCF	0.42	MMSCF	69.30	7.88	5.67	28.91	3.29	2.37
Boiler	9005	3862	0.15	Natural Gas	EF_FACTOR*MMSCF	0.42	MMSCF	69.30	7.88	5.67	28.91	3.29	2.37
Water Heater	9340	3863	0.075	Natural Gas	EF_FACTOR*MMSCF	0.21	MMSCF	69.30	7.88	5.67	14.45	1.64	1.18
Water Heater	10366	3865	0.075	Natural Gas	EF_FACTOR*MMSCF	0.21	MMSCF	69.30	7.88	5.67	14.45	1.64	1.18
Water Heater	13700	3868	0.199	Natural Gas	EF_FACTOR*MMSCF	0.55	MMSCF	69.30	7.88	5.67	38.35	4.36	3.14
Boiler	13121	3916	0.299	Natural Gas	EF_FACTOR*MMSCF	0.83	MMSCF	69.30	7.88	5.67	57.62	6.55	4.71
Boiler	13121	3917	0.299	Natural Gas	EF_FACTOR*MMSCF	0.83	MMSCF	69.30	7.88	5.67	57.62	6.55	4.71
Boiler	13863	3918	0.13	Natural Gas	EF_FACTOR*MMSCF	0.36	MMSCF	69.30	7.88	5.67	25.05	2.85	2.05
Water Heater	7525	3919	0.1	Natural Gas	EF_FACTOR*MMSCF	0.28	MMSCF	69.30	7.88	5.67	19.27	2.19	1.58
Boiler	1743	3923	0.3	Natural Gas	EF_FACTOR*MMSCF	0.83	MMSCF	69.30	7.88	5.67	57.82	6.57	4.73
Boiler	1743	3924	0.3	Natural Gas	EF_FACTOR*MMSCF	0.83	MMSCF	69.30	7.88	5.67	57.82	6.57	4.73
Boiler	7437	3941	0.84	Natural Gas	EF_FACTOR*MMSCF	2.34	MMSCF	37.80	7.88	5.67	88.30	18.40	13.25
Boiler	1800	3942	0.84	Propane/LPG	EF_FACTOR*GALS/1000	26,660.87	GALS	3.31	0.69	0.50	88.30	18.40	13.25
Boiler	1546A	3986	2	Natural Gas	EF_FACTOR*MMSCF	5.56	MMSCF	37.80	7.88	5.67	210.24	43.80	31.54

Table A-5. Estimated Emissions from Permit Exempt External Combustion Devices

Description	Location	Pri_ID	Capacity (MMBTU)	Fuel	Equation	Usage		Emission Factors			Emissions (Lbs/Yr)		
						PTE	Units	NOx	PM	ROC	NOx	PM	ROC
Boiler	1546B	3987	2	Natural Gas	EF_FACTOR*MMSCF	5.56	MMSCF	37.80	7.88	5.67	210.24	43.80	31.54
Water Heater	1740	3988	0.751	Natural Gas	EF_FACTOR*MMSCF	2.09	MMSCF	37.80	7.88	5.67	78.95	16.45	11.84
Boiler	6710	3989	0.375	Natural Gas	EF_FACTOR*MMSCF	1.04	MMSCF	69.30	7.88	5.67	72.27	8.21	5.91
Boiler	10503	4000	0.399	Natural Gas	EF_FACTOR*MMSCF	1.11	MMSCF	69.30	7.88	5.67	76.90	8.74	6.29
Boiler	840	4001	0.285	Natural Gas	EF_FACTOR*MMSCF	0.79	MMSCF	69.30	7.88	5.67	54.93	6.24	4.49
Boiler	8195	4020	0.999	Natural Gas	EF_FACTOR*MMSCF	2.78	MMSCF	37.80	7.88	5.67	105.01	21.88	15.75
Boiler	8314	4025	0.75	Natural Gas	EF_FACTOR*MMSCF	2.09	MMSCF	37.80	7.88	5.67	78.84	16.43	11.83
Boiler	8314	4026	0.75	Natural Gas	EF_FACTOR*MMSCF	2.09	MMSCF	37.80	7.88	5.67	78.84	16.43	11.83
Boiler	875	4040	1.05	Natural Gas	EF_FACTOR*MMSCF	2.92	MMSCF	37.80	7.88	5.67	110.38	23.00	16.56
Boiler	13852	4041	0.199	Natural Gas	EF_FACTOR*MMSCF	0.55	MMSCF	69.30	7.88	5.67	38.35	4.36	3.14
Boiler	8401	4043	1.5	Natural Gas	EF_FACTOR*MMSCF	4.17	MMSCF	37.80	7.88	5.67	157.68	32.85	23.65
Boiler	8401	4044	1.5	Natural Gas	EF_FACTOR*MMSCF	4.17	MMSCF	37.80	7.88	5.67	157.68	32.85	23.65
Water Heater	1737	4056	0.038	Natural Gas	EF_FACTOR*MMSCF	0.11	MMSCF	96.60	7.88	5.67	10.21	0.83	0.60
Boiler	6510	4058	0.75	Natural Gas	EF_FACTOR*MMSCF	2.09	MMSCF	37.80	7.88	5.67	78.84	16.43	11.83
Boiler	23201	4059	0.181	Natural Gas	EF_FACTOR*MMSCF	0.50	MMSCF	69.30	7.88	5.67	34.88	3.96	2.85
Boiler	7523	4060	1.999	Natural Gas	EF_FACTOR*MMSCF	5.56	MMSCF	37.80	7.88	5.67	210.13	43.78	31.52
Boiler	7011	4068	1.5	Natural Gas	EF_FACTOR*MMSCF	4.17	MMSCF	37.80	7.88	5.67	157.68	32.85	23.65
Boiler	1506	4086	0.299	Natural Gas	EF_FACTOR*MMSCF	0.83	MMSCF	69.30	7.88	5.67	57.62	6.55	4.71
Boiler	1506	4087	0.299	Natural Gas	EF_FACTOR*MMSCF	0.83	MMSCF	69.30	7.88	5.67	57.62	6.55	4.71
Boiler	8500	4088	1.999	Natural Gas	EF_FACTOR*MMSCF	5.56	MMSCF	37.80	7.88	5.67	210.13	43.78	31.52
Water Heater	10510	4090	0.075	Natural Gas	EF_FACTOR*MMSCF	0.21	MMSCF	37.80	7.88	5.67	7.88	1.64	1.18
Boiler	13852	4092	0.199	Natural Gas	EF_FACTOR*MMSCF	0.55	MMSCF	69.30	7.88	5.67	38.35	4.36	3.14
Boiler	12000	4110	1	Natural Gas	EF_FACTOR*MMSCF	2.78	MMSCF	37.80	7.88	5.67	105.12	21.90	15.77
Boiler	12000	4111	1	Natural Gas	EF_FACTOR*MMSCF	2.78	MMSCF	37.80	7.88	5.67	105.12	21.90	15.77
Boiler	6670	4121	2	Natural Gas	EF_FACTOR*MMSCF	5.56	MMSCF	37.80	7.88	5.67	210.24	43.80	31.54
Boiler	6670	4122	2	Natural Gas	EF_FACTOR*MMSCF	5.56	MMSCF	37.80	7.88	5.67	210.24	43.80	31.54
Water Heater	490	4156	0.199	Propane/LPG	EF_FACTOR*GALS/1000	6,316.09	GALS	8.46	0.69	0.50	53.46	4.36	3.14
Water Heater	1555	4179	0.036	Natural Gas	EF_FACTOR*MMSCF	0.10	MMSCF	96.60	7.88	5.67	9.67	0.79	0.57
Water Heater	6710	4182	0.034	Natural Gas	EF_FACTOR*MMSCF	0.09	MMSCF	96.60	7.88	5.67	9.13	0.74	0.54
Boiler	8290	4184	1.262	Natural Gas	EF_FACTOR*MMSCF	3.51	MMSCF	37.80	7.88	5.67	132.66	27.64	19.90
Water Heater	8339	4185	0.034	Natural Gas	EF_FACTOR*MMSCF	0.09	MMSCF	96.60	7.88	5.67	9.13	0.74	0.54
Boiler	9190	4186	0.3	Natural Gas	EF_FACTOR*MMSCF	0.83	MMSCF	69.30	7.88	5.67	57.82	6.57	4.73
Water Heater	9334	4190	0.04	Natural Gas	EF_FACTOR*MMSCF	0.11	MMSCF	96.60	7.88	5.67	10.75	0.88	0.63
Water Heater	9340	4191	0.033	Natural Gas	EF_FACTOR*MMSCF	0.09	MMSCF	96.60	7.88	5.67	8.87	0.72	0.52
Water Heater	9340	4192	0.033	Natural Gas	EF_FACTOR*MMSCF	0.09	MMSCF	96.60	7.88	5.67	8.87	0.72	0.52
Water Heater	9340	4193	0.04	Natural Gas	EF_FACTOR*MMSCF	0.11	MMSCF	96.60	7.88	5.67	10.75	0.88	0.63
Water Heater	10364	4197	0.038	Natural Gas	EF_FACTOR*MMSCF	0.11	MMSCF	96.60	7.88	5.67	10.21	0.83	0.60
Water Heater	10373	4202	0.038	Natural Gas	EF_FACTOR*MMSCF	0.11	MMSCF	96.60	7.88	5.67	10.21	0.83	0.60
Water Heater	10503	4203	0.033	Natural Gas	EF_FACTOR*MMSCF	0.09	MMSCF	96.60	7.88	5.67	8.87	0.72	0.52
Water Heater	10713	4205	0.04	Natural Gas	EF_FACTOR*MMSCF	0.11	MMSCF	96.60	7.88	5.67	10.75	0.88	0.63
Water Heater	10717	4206	0.04	Natural Gas	EF_FACTOR*MMSCF	0.11	MMSCF	96.60	7.88	5.67	10.75	0.88	0.63
Water Heater	12903	4210	0.199	Natural Gas	EF_FACTOR*MMSCF	0.55	MMSCF	69.30	7.88	5.67	38.35	4.36	3.14
Water Heater	12911	4213	0.25	Natural Gas	EF_FACTOR*MMSCF	0.70	MMSCF	69.30	7.88	5.67	48.18	5.48	3.94
Water Heater	12913	4214	0.075	Natural Gas	EF_FACTOR*MMSCF	0.21	MMSCF	69.30	7.88	5.67	14.45	1.64	1.18
Water Heater	8312	4219	0.038	Natural Gas	EF_FACTOR*MMSCF	0.11	MMSCF	96.60	7.88	5.67	10.21	0.83	0.60
Water Heater	11025	4220	0.04	Natural Gas	EF_FACTOR*MMSCF	0.11	MMSCF	96.60	7.88	5.67	10.75	0.88	0.63

Table A-5. Estimated Emissions from Permit Exempt External Combustion Devices

Description	Location	Pri_ID	Capacity (MMBTU)	Fuel	Equation	Usage		Emission Factors			Emissions (Lbs/Yr)		
						PTE	Units	NOx	PM	ROC	NOx	PM	ROC
Furnace	6015	4221	0.075	Natural Gas	EF_FACTOR*MMSCF	0.21	MMSCF	69.30	7.88	5.67	14.45	1.64	1.18
Furnace	6447	4222	0.08	Natural Gas	EF_FACTOR*MMSCF	0.22	MMSCF	69.30	7.88	5.67	15.42	1.75	1.26
Furnace	12901	4224	0.075	Natural Gas	EF_FACTOR*MMSCF	0.21	MMSCF	69.30	7.88	5.67	14.45	1.64	1.18
Furnace	12903	4225	0.075	Natural Gas	EF_FACTOR*MMSCF	0.21	MMSCF	69.30	7.88	5.67	14.45	1.64	1.18
Furnace	12903	4226	0.075	Natural Gas	EF_FACTOR*MMSCF	0.21	MMSCF	69.30	7.88	5.67	14.45	1.64	1.18
Furnace	12905	4227	0.075	Natural Gas	EF_FACTOR*MMSCF	0.21	MMSCF	69.30	7.88	5.67	14.45	1.64	1.18
Furnace	12905	4228	0.075	Natural Gas	EF_FACTOR*MMSCF	0.21	MMSCF	69.30	7.88	5.67	14.45	1.64	1.18
Furnace	12907	4229	0.075	Natural Gas	EF_FACTOR*MMSCF	0.21	MMSCF	69.30	7.88	5.67	14.45	1.64	1.18
Furnace	12911	4230	0.075	Natural Gas	EF_FACTOR*MMSCF	0.21	MMSCF	69.30	7.88	5.67	14.45	1.64	1.18
Furnace	12911	4231	0.075	Natural Gas	EF_FACTOR*MMSCF	0.21	MMSCF	69.30	7.88	5.67	14.45	1.64	1.18
Furnace	12913	4232	0.075	Natural Gas	EF_FACTOR*MMSCF	0.21	MMSCF	69.30	7.88	5.67	14.45	1.64	1.18
Furnace	12913	4233	0.075	Natural Gas	EF_FACTOR*MMSCF	0.21	MMSCF	69.30	7.88	5.67	14.45	1.64	1.18
Furnace	12915	4234	0.075	Natural Gas	EF_FACTOR*MMSCF	0.21	MMSCF	69.30	7.88	5.67	14.45	1.64	1.18
Furnace	12915	4235	0.075	Natural Gas	EF_FACTOR*MMSCF	0.21	MMSCF	69.30	7.88	5.67	14.45	1.64	1.18
Furnace	23228	4266	0.11	Natural Gas	EF_FACTOR*MMSCF	0.31	MMSCF	69.30	7.88	5.67	21.20	2.41	1.73
Furnace	23228	4267	0.11	Natural Gas	EF_FACTOR*MMSCF	0.31	MMSCF	69.30	7.88	5.67	21.20	2.41	1.73
Boiler	13851	4270	0.199	Natural Gas	EF_FACTOR*MMSCF	0.55	MMSCF	69.30	7.88	5.67	38.35	4.36	3.14
Boiler	13853	4271	0.199	Natural Gas	EF_FACTOR*MMSCF	0.55	MMSCF	69.30	7.88	5.67	38.35	4.36	3.14
Boiler	13853	4272	0.199	Natural Gas	EF_FACTOR*MMSCF	0.55	MMSCF	69.30	7.88	5.67	38.35	4.36	3.14
Boiler	13858	4274	0.199	Natural Gas	EF_FACTOR*MMSCF	0.55	MMSCF	69.30	7.88	5.67	38.35	4.36	3.14
Boiler	10577	4276	0.5	Natural Gas	EF_FACTOR*MMSCF	1.39	MMSCF	37.80	7.88	5.67	52.56	10.95	7.88
Boiler	10577	4277	0.5	Natural Gas	EF_FACTOR*MMSCF	1.39	MMSCF	37.80	7.88	5.67	52.56	10.95	7.88
Boiler	10577	4278	0.5	Natural Gas	EF_FACTOR*MMSCF	1.39	MMSCF	37.80	7.88	5.67	52.56	10.95	7.88
Boiler	10577	4279	0.5	Natural Gas	EF_FACTOR*MMSCF	1.39	MMSCF	102.90	7.88	5.67	143.08	10.95	7.88
Boiler	1806	4289	0.672	Natural Gas	EF_FACTOR*MMSCF	1.87	MMSCF	102.90	7.88	5.67	192.30	14.72	10.60
Water Heater	6005	4290	0.075	Natural Gas	EF_FACTOR*MMSCF	0.21	MMSCF	69.30	7.88	5.67	14.45	1.64	1.18
Water Heater	10130	4295	2	Natural Gas	EF_FACTOR*MMSCF	5.56	MMSCF	37.80	7.88	5.67	210.24	43.80	31.54
Boiler	13862	4303	0.199	Natural Gas	EF_FACTOR*MMSCF	0.55	MMSCF	69.30	7.88	5.67	38.35	4.36	3.14
Water Heater	10711	4304	0.075	Natural Gas	EF_FACTOR*MMSCF	0.21	MMSCF	69.30	7.88	5.67	14.45	1.64	1.18
Furnace	8312	4308	0.125	Natural Gas	EF_FACTOR*MMSCF	0.35	MMSCF	69.30	7.88	5.67	24.09	2.74	1.97
Furnace	8312	4309	0.125	Natural Gas	EF_FACTOR*MMSCF	0.35	MMSCF	69.30	7.88	5.67	24.09	2.74	1.97
Furnace	13005	4314	0.125	Natural Gas	EF_FACTOR*MMSCF	0.35	MMSCF	96.60	7.88	5.67	33.58	2.74	1.97
Water Heater	11040	4315	0.04	Natural Gas	EF_FACTOR*MMSCF	0.11	MMSCF	96.60	7.88	5.67	10.75	0.88	0.63
Boiler	8173	4319	1.999	Natural Gas	EF_FACTOR*MMSCF	5.56	MMSCF	37.80	7.88	5.67	210.13	43.78	31.52
Water Heater	10728	4321	0.199	Natural Gas	EF_FACTOR*MMSCF	0.55	MMSCF	69.30	7.88	5.67	38.35	4.36	3.14
Water Heater	789	4333	0.038	Natural Gas	EF_FACTOR*MMSCF	0.11	MMSCF	96.60	7.88	5.67	10.21	0.83	0.60
Water Heater	1350	4337	0.034	Propane/LPG	EF_FACTOR*GALS/1000	1,079.13	GALS	8.46	0.69	0.50	9.13	0.74	0.54
Water Heater	6015	4338	0.04	Natural Gas	EF_FACTOR*MMSCF	0.11	MMSCF	96.60	7.88	5.67	10.75	0.88	0.63
Boiler	6817	4339	0.5	Natural Gas	EF_FACTOR*MMSCF	1.39	MMSCF	37.80	7.88	5.67	52.56	10.95	7.88
Water Heater	10525	4340	0.038	Natural Gas	EF_FACTOR*MMSCF	0.11	MMSCF	96.60	7.88	5.67	10.21	0.83	0.60
Water Heater	11248	4343	0.04	Natural Gas	EF_FACTOR*MMSCF	0.11	MMSCF	96.60	7.88	5.67	10.75	0.88	0.63
Water Heater	11352	4344	0.04	Natural Gas	EF_FACTOR*MMSCF	0.11	MMSCF	96.60	7.88	5.67	10.75	0.88	0.63
Water Heater	12006	4346	0.199	Natural Gas	EF_FACTOR*MMSCF	0.55	MMSCF	69.30	7.88	5.67	38.35	4.36	3.14
Furnace	1350	4347	0.1	Propane/LPG	EF_FACTOR*GALS/1000	3,173.91	GALS	8.46	0.69	0.50	26.86	2.19	1.58
Furnace	14400	4348	0.04	Natural Gas	EF_FACTOR*MMSCF	0.11	MMSCF	96.60	7.88	5.67	10.75	0.88	0.63
Furnace	14400	4349	0.1	Natural Gas	EF_FACTOR*MMSCF	0.28	MMSCF	69.30	7.88	5.67	19.27	2.19	1.58

Table A-5. Estimated Emissions from Permit Exempt External Combustion Devices

Description	Location	Pri_ID	Capacity (MMBTU)	Fuel	Equation	Usage		Emission Factors			Emissions (Lbs/Yr)		
						PTE	Units	NOx	PM	ROC	NOx	PM	ROC
Furnace	11433	4350	0.075	Natural Gas	EF_FACTOR*MMSCF	0.21	MMSCF	69.30	7.88	5.67	14.45	1.64	1.18
Furnace	11433	4351	0.075	Natural Gas	EF_FACTOR*MMSCF	0.21	MMSCF	69.30	7.88	5.67	14.45	1.64	1.18
Furnace	11433	4352	0.075	Natural Gas	EF_FACTOR*MMSCF	0.21	MMSCF	69.30	7.88	5.67	14.45	1.64	1.18
Furnace	11433	4353	0.075	Natural Gas	EF_FACTOR*MMSCF	0.21	MMSCF	69.30	7.88	5.67	14.45	1.64	1.18
Furnace	11433	4354	0.075	Natural Gas	EF_FACTOR*MMSCF	0.21	MMSCF	69.30	7.88	5.67	14.45	1.64	1.18
Furnace	11433	4355	0.075	Natural Gas	EF_FACTOR*MMSCF	0.21	MMSCF	69.30	7.88	5.67	14.45	1.64	1.18
Furnace	1930	4356	0.1	Propane/LPG	EF_FACTOR*GALS/1000	3,173.91	GALS	8.46	0.69	0.50	26.86	2.19	1.58
Boiler	21150	4359	0.3	Propane/LPG	EF_FACTOR*GALS/1000	9,521.74	GALS	8.46	0.69	0.50	80.59	6.57	4.73
Boiler	21150	4360	0.3	Propane/LPG	EF_FACTOR*GALS/1000	9,521.74	GALS	8.46	0.69	0.50	80.59	6.57	4.73
Boiler	21150	4361	0.3	Propane/LPG	EF_FACTOR*GALS/1000	9,521.74	GALS	8.46	0.69	0.50	80.59	6.57	4.73
Boiler	8401	648903	0.3	Natural Gas	EF_FACTOR*MMSCF	0.83	MMSCF	69.30	7.88	5.67	57.82	6.57	4.73
Boiler	8401	648927	0.3	Natural Gas	EF_FACTOR*MMSCF	0.83	MMSCF	69.30	7.88	5.67	57.82	6.57	4.73
Water Heater	11433	648941	0.04	Natural Gas	EF_FACTOR*MMSCF	0.11	MMSCF	96.60	7.88	5.67	10.75	0.88	0.63
Boiler	10145	656862	1.5	Natural Gas	EF_FACTOR*MMSCF	4.17	MMSCF	37.80	7.88	5.67	157.68	32.85	23.65
Boiler	10145	656863	1.5	Natural Gas	EF_FACTOR*MMSCF	4.17	MMSCF	37.80	7.88	5.67	157.68	32.85	23.65
Boiler	11477	656889	0.199	Natural Gas	EF_FACTOR*MMSCF	0.55	MMSCF	69.30	7.88	5.67	38.35	4.36	3.14
Boiler	13323	656895	0.75	Natural Gas	EF_FACTOR*MMSCF	2.09	MMSCF	37.80	7.88	5.67	78.84	16.43	11.83
Boiler	13323	656896	0.3	Natural Gas	EF_FACTOR*MMSCF	0.83	MMSCF	69.30	7.88	5.67	57.82	6.57	4.73
Boiler	13323	656914	0.3	Natural Gas	EF_FACTOR*MMSCF	0.83	MMSCF	69.30	7.88	5.67	57.82	6.57	4.73
Boiler	13323	656915	0.3	Natural Gas	EF_FACTOR*MMSCF	0.83	MMSCF	69.30	7.88	5.67	57.82	6.57	4.73
Boiler	13330	656918	1.68	Natural Gas	EF_FACTOR*MMSCF	4.67	MMSCF	37.80	7.88	5.67	176.60	36.79	26.49
Water Heater	10314	656935	0.0745	Natural Gas	EF_FACTOR*MMSCF	0.21	MMSCF	96.60	7.88	5.67	20.01	1.63	1.17
Furnace	1810	656947	0.06	Propane/LPG	EF_FACTOR*GALS/1000	1,904.35	GALS	8.46	0.69	0.50	16.12	1.31	0.95
Furnace	1810	657188	0.06	Propane/LPG	EF_FACTOR*GALS/1000	1,904.35	GALS	8.46	0.69	0.50	16.12	1.31	0.95
Water Heater	6670	657189	0.25	Natural Gas	EF_FACTOR*MMSCF	0.70	MMSCF	69.30	7.88	5.67	48.18	5.48	3.94
Steam Humidifier	8173	657191	0.4	Natural Gas	EF_FACTOR*MMSCF	1.11	MMSCF	69.30	7.88	5.67	77.09	8.76	6.31
Furnace	10713	657197	0.11	Natural Gas	EF_FACTOR*MMSCF	0.31	MMSCF	69.30	7.88	5.67	21.20	2.41	1.73
Boiler	11070	657204	0.299	Natural Gas	EF_FACTOR*MMSCF	0.83	MMSCF	69.30	7.88	5.67	57.62	6.55	4.71
Boiler	13854	658408	0.199	Natural Gas	EF_FACTOR*MMSCF	0.55	MMSCF	69.30	7.88	5.67	38.35	4.36	3.14
Boiler	12901	658409	0.199	Natural Gas	EF_FACTOR*MMSCF	0.55	MMSCF	69.30	7.88	5.67	38.35	4.36	3.14
Boiler	13859	658410	0.1	Natural Gas	EF_FACTOR*MMSCF	0.28	MMSCF	69.30	7.88	5.67	19.27	2.19	1.58
Boiler	13854	658411	0.199	Natural Gas	EF_FACTOR*MMSCF	0.55	MMSCF	69.30	7.88	5.67	38.35	4.36	3.14
Water Heater	1749	658417	0.04	Natural Gas	EF_FACTOR*MMSCF	0.11	MMSCF	96.60	7.88	5.67	10.75	0.88	0.63
Water Heater	10145	658898	0.38	Natural Gas	EF_FACTOR*MMSCF	1.06	MMSCF	69.30	7.88	5.67	73.23	8.32	5.99
Water Heater	10145	658900	0.065	Natural Gas	EF_FACTOR*MMSCF	0.18	MMSCF	96.60	7.88	5.67	17.46	1.42	1.02
Furnace	11146	659343	0.1	Natural Gas	EF_FACTOR*MMSCF	0.28	MMSCF	69.30	7.88	5.67	19.27	2.19	1.58
Furnace	11146	659346	0.16	Natural Gas	EF_FACTOR*MMSCF	0.44	MMSCF	69.30	7.88	5.67	30.84	3.50	2.52
Furnace	11146	659365	0.16	Natural Gas	EF_FACTOR*MMSCF	0.44	MMSCF	69.30	7.88	5.67	30.84	3.50	2.52
Boiler	13860	659473	0.199	Natural Gas	EF_FACTOR*MMSCF	0.55	MMSCF	69.30	7.88	5.67	38.35	4.36	3.14
Steam Humidifier	8173	659960	0.4	Natural Gas	EF_FACTOR*MMSCF	1.11	MMSCF	69.30	7.88	5.67	77.09	8.76	6.31
Boiler	6601	661827	0.5	Natural Gas	EF_FACTOR*MMSCF	1.39	MMSCF	37.80	7.88	5.67	52.56	10.95	7.88
Boiler	6601	664578	1.99	Natural Gas	EF_FACTOR*MMSCF	5.53	MMSCF	37.80	7.88	5.67	209.19	43.58	31.38
Boiler	9192	676358	0.3	Natural Gas	EF_FACTOR*MMSCF	0.83	MMSCF	69.30	7.88	5.67	57.82	6.57	4.73
Furnace	657	676394	0.06	Propane/LPG	EF_FACTOR*GALS/1000	1,904.35	GALS	13.50	0.69	0.50	25.71	1.31	0.95
Boiler	875	676461	0.038	Natural Gas	EF_FACTOR*MMSCF	0.11	MMSCF	102.90	7.88	5.67	10.87	0.83	0.60
Furnace	1628	676538	0.08	Propane/LPG	EF_FACTOR*GALS/1000	2,539.13	GALS	8.46	0.69	0.50	21.49	1.75	1.26

Table A-5. Estimated Emissions from Permit Exempt External Combustion Devices

Description	Location	Pri_ID	Capacity (MMBTU)	Fuel	Equation	Usage		Emission Factors			Emissions (Lbs/Yr)		
						PTE	Units	NOx	PM	ROC	NOx	PM	ROC
Furnace	1628	676539	0.08	Propane/LPG	EF_FACTOR*GALS/1000	2,539.13	GALS	8.46	0.69	0.50	21.49	1.75	1.26
Furnace	1628	676540	0.1	Propane/LPG	EF_FACTOR*GALS/1000	3,173.91	GALS	8.46	0.69	0.50	26.86	2.19	1.58
Furnace	1628	676712	0.05	Propane/LPG	EF_FACTOR*GALS/1000	1,586.96	GALS	8.46	0.69	0.50	13.43	1.10	0.79
Furnace	1628	676719	0.1	Propane/LPG	EF_FACTOR*GALS/1000	3,173.91	GALS	8.46	0.69	0.50	26.86	2.19	1.58
Furnace	1628	676722	0.1	Propane/LPG	EF_FACTOR*GALS/1000	3,173.91	GALS	8.46	0.69	0.50	26.86	2.19	1.58
Water Heater	5002	676740	0.04	Natural Gas	EF_FACTOR*MMSCF	0.11	MMSCF	96.60	7.88	5.67	10.75	0.88	0.63
Furnace	5010	676752	0.08	Natural Gas	EF_FACTOR*MMSCF	0.22	MMSCF	69.30	7.88	5.67	15.42	1.75	1.26
Water Heater	6447	676761	0.05	Natural Gas	EF_FACTOR*MMSCF	0.14	MMSCF	96.60	7.88	5.67	13.43	1.10	0.79
Water Heater	6525	676800	0.25	Natural Gas	EF_FACTOR*MMSCF	0.70	MMSCF	69.30	7.88	5.67	48.18	5.48	3.94
Water Heater	7403	676807	0.08	Natural Gas	EF_FACTOR*MMSCF	0.22	MMSCF	69.30	7.88	5.67	15.42	1.75	1.26
Furnace	7420	676815	0.1	Natural Gas	EF_FACTOR*MMSCF	0.28	MMSCF	69.30	7.88	5.67	19.27	2.19	1.58
Furnace	7420	676816	0.1	Natural Gas	EF_FACTOR*MMSCF	0.28	MMSCF	69.30	7.88	5.67	19.27	2.19	1.58
Water Heater	7420	676817	0.04	Natural Gas	EF_FACTOR*MMSCF	0.11	MMSCF	96.60	7.88	5.67	10.75	0.88	0.63
Water Heater	7425	676818	0.199	Natural Gas	EF_FACTOR*MMSCF	0.55	MMSCF	69.30	7.88	5.67	38.35	4.36	3.14
Water Heater	7437	676819	0.04	Natural Gas	EF_FACTOR*MMSCF	0.11	MMSCF	96.60	7.88	5.67	10.75	0.88	0.63
Water Heater	8305	676821	0.033	Natural Gas	EF_FACTOR*MMSCF	0.09	MMSCF	96.60	7.88	5.67	8.87	0.72	0.52
Water Heater	8337	676822	0.04	Natural Gas	EF_FACTOR*MMSCF	0.11	MMSCF	96.60	7.88	5.67	10.75	0.88	0.63
Boiler	9190	676823	0.3	Natural Gas	EF_FACTOR*MMSCF	0.83	MMSCF	96.60	7.88	5.67	80.59	6.57	4.73
Water Heater	9307	676824	0.04	Natural Gas	EF_FACTOR*MMSCF	0.11	MMSCF	96.60	7.88	5.67	10.75	0.88	0.63
Furnace	9320	676825	0.2	Natural Gas	EF_FACTOR*MMSCF	0.56	MMSCF	69.30	7.88	5.67	38.54	4.38	3.15
Furnace	10122	676827	0.175	Natural Gas	EF_FACTOR*MMSCF	0.49	MMSCF	69.30	7.88	5.67	33.73	3.83	2.76
Furnace	10122	676828	0.4	Natural Gas	EF_FACTOR*MMSCF	1.11	MMSCF	69.30	7.88	5.67	77.09	8.76	6.31
Furnace	10130	676829	0.1	Natural Gas	EF_FACTOR*MMSCF	0.28	MMSCF	69.30	7.88	5.67	19.27	2.19	1.58
Furnace	10130	676830	0.2	Natural Gas	EF_FACTOR*MMSCF	0.56	MMSCF	69.30	7.88	5.67	38.54	4.38	3.15
Furnace	10130	676831	0.075	Natural Gas	EF_FACTOR*MMSCF	0.21	MMSCF	69.30	7.88	5.67	14.45	1.64	1.18
Furnace	10130	676832	0.2	Natural Gas	EF_FACTOR*MMSCF	0.56	MMSCF	69.30	7.88	5.67	38.54	4.38	3.15
Furnace	10130	676833	0.2	Natural Gas	EF_FACTOR*MMSCF	0.56	MMSCF	69.30	7.88	5.67	38.54	4.38	3.15
Furnace	10130	676834	0.2	Natural Gas	EF_FACTOR*MMSCF	0.56	MMSCF	69.30	7.88	5.67	38.54	4.38	3.15
Furnace	10130	676835	0.12	Natural Gas	EF_FACTOR*MMSCF	0.33	MMSCF	69.30	7.88	5.67	23.13	2.63	1.89
Furnace	10130	676836	0.12	Natural Gas	EF_FACTOR*MMSCF	0.33	MMSCF	69.30	7.88	5.67	23.13	2.63	1.89
Furnace	10130	676837	0.12	Natural Gas	EF_FACTOR*MMSCF	0.33	MMSCF	69.30	7.88	5.67	23.13	2.63	1.89
Furnace	10317	676839	0.01	Natural Gas	EF_FACTOR*MMSCF	0.03	MMSCF	96.60	7.88	5.67	2.69	0.22	0.16
Furnace	10363	676841	0.125	Natural Gas	EF_FACTOR*MMSCF	0.35	MMSCF	69.30	7.88	5.67	24.09	2.74	1.97
Furnace	10363	676842	0.11	Natural Gas	EF_FACTOR*MMSCF	0.31	MMSCF	69.30	7.88	5.67	21.20	2.41	1.73
Furnace	10375	676843	0.13	Natural Gas	EF_FACTOR*MMSCF	0.36	MMSCF	69.30	7.88	5.67	25.05	2.85	2.05
Furnace	10375	676844	0.13	Natural Gas	EF_FACTOR*MMSCF	0.36	MMSCF	69.30	7.88	5.67	25.05	2.85	2.05
Furnace	10375	676846	0.13	Natural Gas	EF_FACTOR*MMSCF	0.36	MMSCF	69.30	7.88	5.67	25.05	2.85	2.05
Furnace	10375	676849	0.06	Natural Gas	EF_FACTOR*MMSCF	0.17	MMSCF	96.60	7.88	5.67	16.12	1.31	0.95
Water Heater	10525	676854	0.04	Natural Gas	EF_FACTOR*MMSCF	0.11	MMSCF	96.60	7.88	5.67	10.75	0.88	0.63
Furnace	10711	676857	0.855	Natural Gas	EF_FACTOR*MMSCF	2.38	MMSCF	37.80	7.88	5.67	89.88	18.72	13.48
Furnace	10711	676860	0.04	Natural Gas	EF_FACTOR*MMSCF	0.11	MMSCF	96.60	7.88	5.67	10.75	0.88	0.63
Furnace	10711	676862	0.035	Natural Gas	EF_FACTOR*MMSCF	0.10	MMSCF	96.60	7.88	5.67	9.40	0.77	0.55
Water Heater	11041	676865	0.199	Natural Gas	EF_FACTOR*MMSCF	0.55	MMSCF	69.30	7.88	5.67	38.35	4.36	3.14
Water Heater	11041	676866	0.199	Natural Gas	EF_FACTOR*MMSCF	0.55	MMSCF	69.30	7.88	5.67	38.35	4.36	3.14
Boiler	11041	676868	0.5	Natural Gas	EF_FACTOR*MMSCF	1.39	MMSCF	37.80	7.88	5.67	52.56	10.95	7.88
Water Heater	11042	676875	0.199	Natural Gas	EF_FACTOR*MMSCF	0.55	MMSCF	69.30	7.88	5.67	38.35	4.36	3.14

Table A-5. Estimated Emissions from Permit Exempt External Combustion Devices

Description	Location	Pri_ID	Capacity (MMBTU)	Fuel	Equation	Usage		Emission Factors			Emissions (Lbs/Yr)		
						PTE	Units	NOx	PM	ROC	NOx	PM	ROC
Water Heater	11042	676878	0.199	Natural Gas	EF_FACTOR*MMSCF	0.55	MMSCF	69.30	7.88	5.67	38.35	4.36	3.14
Boiler	11042	676881	0.5	Natural Gas	EF_FACTOR*MMSCF	1.39	MMSCF	37.80	7.88	5.67	52.56	10.95	7.88
Boiler	11042	676882	0.5	Natural Gas	EF_FACTOR*MMSCF	1.39	MMSCF	37.80	7.88	5.67	52.56	10.95	7.88
Boiler	11352	676888	0.042	Natural Gas	EF_FACTOR*MMSCF	0.12	MMSCF	96.60	7.88	5.67	11.28	0.92	0.66
Furnace	11352	676890	0.11	Natural Gas	EF_FACTOR*MMSCF	0.31	MMSCF	69.30	7.88	5.67	21.20	2.41	1.73
Furnace	11352	676892	0.11	Natural Gas	EF_FACTOR*MMSCF	0.31	MMSCF	69.30	7.88	5.67	21.20	2.41	1.73
Furnace	11352	676894	0.11	Natural Gas	EF_FACTOR*MMSCF	0.31	MMSCF	69.30	7.88	5.67	21.20	2.41	1.73
Furnace	11439	676903	0.04	Natural Gas	EF_FACTOR*MMSCF	0.11	MMSCF	96.60	7.88	5.67	10.75	0.88	0.63
Furnace	11439	676904	0.04	Natural Gas	EF_FACTOR*MMSCF	0.11	MMSCF	96.60	7.88	5.67	10.75	0.88	0.63
Furnace	11510	676911	0.115	Natural Gas	EF_FACTOR*MMSCF	0.32	MMSCF	69.30	7.88	5.67	22.16	2.52	1.81
Water Heater	12905	676921	0.075	Natural Gas	EF_FACTOR*MMSCF	0.21	MMSCF	69.30	7.88	5.67	14.45	1.64	1.18
Furnace	13005	676922	0.75	Natural Gas	EF_FACTOR*MMSCF	2.09	MMSCF	37.80	7.88	5.67	78.84	16.43	11.83
Boiler	13857	676923	0.199	Natural Gas	EF_FACTOR*MMSCF	0.55	MMSCF	69.30	7.88	5.67	38.35	4.36	3.14
Boiler	13857	676924	0.199	Natural Gas	EF_FACTOR*MMSCF	0.55	MMSCF	69.30	7.88	5.67	38.35	4.36	3.14
Boiler	13859	676925	0.1	Natural Gas	EF_FACTOR*MMSCF	0.28	MMSCF	69.30	7.88	5.67	19.27	2.19	1.58
Boiler	13861	676926	0.199	Natural Gas	EF_FACTOR*MMSCF	0.55	MMSCF	69.30	7.88	5.67	38.35	4.36	3.14
Boiler	13861	676927	0.199	Natural Gas	EF_FACTOR*MMSCF	0.55	MMSCF	69.30	7.88	5.67	38.35	4.36	3.14
Boiler	870	694919	0.399	Natural Gas	EF_FACTOR*MMSCF	1.11	MMSCF	102.90	7.88	5.67	114.18	8.74	6.29
Boiler	1737	694920	1	Natural Gas	EF_FACTOR*MMSCF	2.78	MMSCF	102.90	7.88	5.67	286.16	21.90	15.77
Water Heater	799	694968	0.075	Natural Gas	EF_FACTOR*MMSCF	0.21	MMSCF	96.60	7.88	5.67	20.15	1.64	1.18
Boiler	1737	694969	1	Natural Gas	EF_FACTOR*MMSCF	2.78	MMSCF	102.90	7.88	5.67	286.16	21.90	15.77
Water Heater	9320	694974	0.04	Natural Gas	EF_FACTOR*MMSCF	0.11	MMSCF	96.60	7.88	5.67	10.75	0.88	0.63
Furnace	9340	694975	0.06	Natural Gas	EF_FACTOR*MMSCF	0.17	MMSCF	96.60	7.88	5.67	16.12	1.31	0.95
Furnace	10122	694976	0.14	Natural Gas	EF_FACTOR*MMSCF	0.39	MMSCF	96.60	7.88	5.67	37.61	3.07	2.21
Furnace	10130	694977	0.2	Natural Gas	EF_FACTOR*MMSCF	0.56	MMSCF	96.60	7.88	5.67	53.73	4.38	3.15
Furnace	10250	694980	0.5	Natural Gas	EF_FACTOR*MMSCF	1.39	MMSCF	96.60	7.88	5.67	134.32	10.95	7.88
Furnace	10250	694981	0.5	Natural Gas	EF_FACTOR*MMSCF	1.39	MMSCF	96.60	7.88	5.67	134.32	10.95	7.88
Furnace	10250	694982	0.5	Natural Gas	EF_FACTOR*MMSCF	1.39	MMSCF	96.60	7.88	5.67	134.32	10.95	7.88
Furnace	10317	694984	0.1	Natural Gas	EF_FACTOR*MMSCF	0.28	MMSCF	96.60	7.88	5.67	26.86	2.19	1.58
Furnace	10366	694985	0.11	Natural Gas	EF_FACTOR*MMSCF	0.31	MMSCF	69.30	7.88	5.67	21.20	2.41	1.73
Furnace	10366	694986	0.11	Natural Gas	EF_FACTOR*MMSCF	0.31	MMSCF	96.60	7.88	5.67	29.55	2.41	1.73
Water Heater	10366	694987	0.04	Natural Gas	EF_FACTOR*MMSCF	0.11	MMSCF	96.60	7.88	5.67	10.75	0.88	0.63
Furnace	10711	694989	1.6	Natural Gas	EF_FACTOR*MMSCF	4.45	MMSCF	96.60	7.88	5.67	429.82	35.04	25.23
Furnace	10715	694990	0.1	Natural Gas	EF_FACTOR*MMSCF	0.28	MMSCF	96.60	7.88	5.67	26.86	2.19	1.58
Furnace	11070	694991	0.175	Natural Gas	EF_FACTOR*MMSCF	0.49	MMSCF	96.60	7.88	5.67	47.01	3.83	2.76
Furnace	11070	694992	0.125	Natural Gas	EF_FACTOR*MMSCF	0.35	MMSCF	96.60	7.88	5.67	33.58	2.74	1.97
Furnace	11070	694993	0.125	Natural Gas	EF_FACTOR*MMSCF	0.35	MMSCF	96.60	7.88	5.67	33.58	2.74	1.97
Furnace	11070	694994	0.175	Natural Gas	EF_FACTOR*MMSCF	0.49	MMSCF	96.60	7.88	5.67	47.01	3.83	2.76
Furnace	11070	694995	0.175	Natural Gas	EF_FACTOR*MMSCF	0.49	MMSCF	96.60	7.88	5.67	47.01	3.83	2.76
Furnace	11070	694996	0.25	Natural Gas	EF_FACTOR*MMSCF	0.70	MMSCF	96.60	7.88	5.67	67.16	5.48	3.94
Furnace	11070	694997	0.125	Natural Gas	EF_FACTOR*MMSCF	0.35	MMSCF	96.60	7.88	5.67	33.58	2.74	1.97
Furnace	11070	694998	0.25	Natural Gas	EF_FACTOR*MMSCF	0.70	MMSCF	96.60	7.88	5.67	67.16	5.48	3.94
Furnace	11070	694999	0.25	Natural Gas	EF_FACTOR*MMSCF	0.70	MMSCF	96.60	7.88	5.67	67.16	5.48	3.94
Furnace	11070	695000	0.175	Natural Gas	EF_FACTOR*MMSCF	0.49	MMSCF	96.60	7.88	5.67	47.01	3.83	2.76
Furnace	11070	695001	0.225	Natural Gas	EF_FACTOR*MMSCF	0.63	MMSCF	96.60	7.88	5.67	60.44	4.93	3.55
Furnace	11070	695002	0.35	Natural Gas	EF_FACTOR*MMSCF	0.97	MMSCF	96.60	7.88	5.67	94.02	7.67	5.52

Table A-5. Estimated Emissions from Permit Exempt External Combustion Devices

Description	Location	Pri_ID	Capacity (MMBTU)	Fuel	Equation	Usage		Emission Factors			Emissions (Lbs/Yr)		
						PTE	Units	NOx	PM	ROC	NOx	PM	ROC
Furnace	11070	695003	0.35	Natural Gas	EF_FACTOR*MMSCF	0.97	MMSCF	96.60	7.88	5.67	94.02	7.67	5.52
Furnace	11070	695004	0.5	Natural Gas	EF_FACTOR*MMSCF	1.39	MMSCF	96.60	7.88	5.67	134.32	10.95	7.88
Furnace	11070	695005	0.5	Natural Gas	EF_FACTOR*MMSCF	1.39	MMSCF	96.60	7.88	5.67	134.32	10.95	7.88
Furnace	11070	695006	0.5	Natural Gas	EF_FACTOR*MMSCF	1.39	MMSCF	96.60	7.88	5.67	134.32	10.95	7.88
Furnace	11070	695007	0.175	Natural Gas	EF_FACTOR*MMSCF	0.49	MMSCF	96.60	7.88	5.67	47.01	3.83	2.76
Furnace	11070	695008	0.125	Natural Gas	EF_FACTOR*MMSCF	0.35	MMSCF	96.60	7.88	5.67	33.58	2.74	1.97
Furnace	11070	695009	0.175	Natural Gas	EF_FACTOR*MMSCF	0.49	MMSCF	96.60	7.88	5.67	47.01	3.83	2.76
Furnace	11070	695010	0.175	Natural Gas	EF_FACTOR*MMSCF	0.49	MMSCF	96.60	7.88	5.67	47.01	3.83	2.76
Furnace	11070	695011	0.175	Natural Gas	EF_FACTOR*MMSCF	0.49	MMSCF	96.60	7.88	5.67	47.01	3.83	2.76
Furnace	10711	695630	0.612	Natural Gas	EF_FACTOR*MMSCF	1.70	MMSCF	37.80	7.88	5.67	64.33	13.40	9.65
Boiler	1559	697049	0.399	Natural Gas	EF_FACTOR*MMSCF	1.11	MMSCF	96.60	7.88	5.67	107.19	8.74	6.29
Boiler	7403	698034	0.6	Natural Gas	EF_FACTOR*MMSCF	1.67	MMSCF	102.90	7.88	5.67	171.70	13.14	9.46
Water Heater	7015	698107	0.199	Natural Gas	EF_FACTOR*MMSCF	0.55	MMSCF	96.60	7.88	5.67	53.46	4.36	3.14
Boiler	7425	698138	0.5	Natural Gas	EF_FACTOR*MMSCF	1.39	MMSCF	102.90	7.88	5.67	143.08	10.95	7.88
Boiler	7425	698139	0.5	Natural Gas	EF_FACTOR*MMSCF	1.39	MMSCF	37.80	7.88	5.67	52.56	10.95	7.88
Furnace	1749	698205	0.075	Natural Gas	EF_FACTOR*MMSCF	0.21	MMSCF	37.80	7.88	5.67	7.88	1.64	1.18
Furnace	1749	698206	0.075	Natural Gas	EF_FACTOR*MMSCF	0.21	MMSCF	37.80	7.88	5.67	7.88	1.64	1.18
Furnace	1749	698207	0.075	Natural Gas	EF_FACTOR*MMSCF	0.21	MMSCF	37.80	7.88	5.67	7.88	1.64	1.18
Furnace	1749	698208	0.075	Natural Gas	EF_FACTOR*MMSCF	0.21	MMSCF	37.80	7.88	5.67	7.88	1.64	1.18
Boiler	9360	698360	0.299	Natural Gas	EF_FACTOR*MMSCF	0.83	MMSCF	37.80	7.88	5.67	31.43	6.55	4.71
Water Heater	8195	698399	0.034	Natural Gas	EF_FACTOR*MMSCF	0.09	MMSCF	96.60	7.88	5.67	9.13	0.74	0.54
Water Heater	8173	698745	0.076	Natural Gas	EF_FACTOR*MMSCF	0.21	MMSCF	69.30	7.88	5.67	14.65	1.66	1.20
Boiler	871	698766	0.7	Natural Gas	EF_FACTOR*MMSCF	1.95	MMSCF	37.80	7.88	5.67	73.58	15.33	11.04
Furnace	1705	700460	0.132	Natural Gas	EF_FACTOR*MMSCF	0.37	MMSCF	96.60	7.88	5.67	35.46	2.89	2.08
Furnace	10715	700461	0.01	Natural Gas	EF_FACTOR*MMSCF	0.03	MMSCF	96.60	7.88	5.67	2.69	0.22	0.16
Furnace	9340	701725	0.6	Natural Gas	EF_FACTOR*MMSCF	1.67	MMSCF	102.90	7.88	5.67	171.70	13.14	9.46
Furnace	13330	701726	0.1	Natural Gas	EF_FACTOR*MMSCF	0.28	MMSCF	96.60	7.88	5.67	26.86	2.19	1.58
Furnace	13330	701727	0.35	Natural Gas	EF_FACTOR*MMSCF	0.97	MMSCF	96.60	7.88	5.67	94.02	7.67	5.52
Furnace	13330	701728	0.35	Natural Gas	EF_FACTOR*MMSCF	0.97	MMSCF	96.60	7.88	5.67	94.02	7.67	5.52
Furnace	13330	701729	0.35	Natural Gas	EF_FACTOR*MMSCF	0.97	MMSCF	96.60	7.88	5.67	94.02	7.67	5.52
Furnace	13330	701730	0.35	Natural Gas	EF_FACTOR*MMSCF	0.97	MMSCF	96.60	7.88	5.67	94.02	7.67	5.52
Water Heater	1705	701731	0.034	Natural Gas	EF_FACTOR*MMSCF	0.09	MMSCF	96.60	7.88	5.67	9.13	0.74	0.54
Water Heater	1707	701732	0.04	Natural Gas	EF_FACTOR*MMSCF	0.11	MMSCF	96.60	7.88	5.67	10.75	0.88	0.63
Water Heater	7403	701733	0.04	Natural Gas	EF_FACTOR*MMSCF	0.11	MMSCF	96.60	7.88	5.67	10.75	0.88	0.63
Water Heater	8175	701734	0.0751	Natural Gas	EF_FACTOR*MMSCF	0.21	MMSCF	96.60	7.88	5.67	20.17	1.64	1.18
Water Heater	8305	701735	0.04	Natural Gas	EF_FACTOR*MMSCF	0.11	MMSCF	96.60	7.88	5.67	10.75	0.88	0.63
Water Heater	8317	701736	0.034	Natural Gas	EF_FACTOR*MMSCF	0.09	MMSCF	96.60	7.88	5.67	9.13	0.74	0.54
Furnace	11442	701737	0.12	Natural Gas	EF_FACTOR*MMSCF	0.33	MMSCF	96.60	7.88	5.67	32.24	2.63	1.89
Furnace	11442	701738	0.12	Natural Gas	EF_FACTOR*MMSCF	0.33	MMSCF	96.60	7.88	5.67	32.24	2.63	1.89
Boiler	3000	703338	1.9	Natural Gas	EF_FACTOR*MMSCF	5.28	MMSCF	102.90	7.88	5.67	543.70	41.61	29.96
Boiler	3000	703339	1.9	Natural Gas	EF_FACTOR*MMSCF	5.28	MMSCF	102.90	7.88	5.67	543.70	41.61	29.96
Boiler	13137	703917	0.5	Natural Gas	EF_FACTOR*MMSCF	1.39	MMSCF	102.90	7.88	5.67	143.08	10.95	7.88
Boiler	13137	703918	0.5	Natural Gas	EF_FACTOR*MMSCF	1.39	MMSCF	102.90	7.88	5.67	143.08	10.95	7.88
Boiler	13137	703919	0.5	Natural Gas	EF_FACTOR*MMSCF	1.39	MMSCF	102.90	7.88	5.67	143.08	10.95	7.88
Boiler	13137	703920	0.5	Natural Gas	EF_FACTOR*MMSCF	1.39	MMSCF	102.90	7.88	5.67	143.08	10.95	7.88
Boiler	13321	703942	0.3	Natural Gas	EF_FACTOR*MMSCF	0.83	MMSCF	102.90	7.88	5.67	85.85	6.57	4.73

Table A-5. Estimated Emissions from Permit Exempt External Combustion Devices

Description	Location	Pri_ID	Capacity (MMBTU)	Fuel	Equation	Usage		Emission Factors			Emissions (Lbs/Yr)		
						PTE	Units	NOx	PM	ROC	NOx	PM	ROC
Water Heater	11177	704017	0.034	Natural Gas	EF_FACTOR*MMSCF	0.09	MMSCF	69.30	7.88	5.67	6.55	0.74	0.54
Boiler	13675	704072	0.3	Natural Gas	EF_FACTOR*MMSCF	0.83	MMSCF	96.60	7.88	5.67	80.59	6.57	4.73
Boiler	13863	704088	0.199	Natural Gas	EF_FACTOR*MMSCF	0.55	MMSCF	96.60	7.88	5.67	53.46	4.36	3.14
Boiler	13321	704757	0.3	Natural Gas	EF_FACTOR*MMSCF	0.83	MMSCF	96.60	7.88	5.67	80.59	6.57	4.73
Boiler	13321	704758	0.3	Natural Gas	EF_FACTOR*MMSCF	0.83	MMSCF	96.60	7.88	5.67	80.59	6.57	4.73
Boiler	11070	704759	0.86	Natural Gas	EF_FACTOR*MMSCF	2.39	MMSCF	102.90	7.88	5.67	246.10	18.83	13.56
Boiler	8175	704761	0.399	Natural Gas	EF_FACTOR*MMSCF	1.11	MMSCF	96.60	7.88	5.67	107.19	8.74	6.29
Water Heater	6607	704767	0.05	Natural Gas	EF_FACTOR*MMSCF	0.14	MMSCF	96.60	7.88	5.67	13.43	1.10	0.79
Water Heater	6607	704769	0.04	Natural Gas	EF_FACTOR*MMSCF	0.11	MMSCF	96.60	7.88	5.67	10.75	0.88	0.63
Boiler	490	704772	0.12	Propane/LPG	EF_FACTOR*GALS/1000	3,808.70	GALS	13.50	0.69	0.50	51.42	2.63	1.89
Furnace	542	704775	0.1	Natural Gas	EF_FACTOR*MMSCF	0.28	MMSCF	96.60	7.88	5.67	26.86	2.19	1.58
Water Heater	542	704778	0.04	Natural Gas	EF_FACTOR*MMSCF	0.11	MMSCF	96.60	7.88	5.67	10.75	0.88	0.63
Boiler	475	705824	1.5	Propane/LPG	EF_FACTOR*GALS/1000	47,608.70	GALS	13.50	0.69	0.50	642.72	32.85	23.65
Water Heater	11013	706417	0.034	Natural Gas	EF_FACTOR*MMSCF	0.09	MMSCF	102.90	7.88	5.67	9.73	0.74	0.54
Water Heater	10343	706526	0.04	Natural Gas	EF_FACTOR*MMSCF	0.11	MMSCF	96.60	7.88	5.67	10.75	0.88	0.63
Water Heater	11510	706527	0.032	Natural Gas	EF_FACTOR*MMSCF	0.09	MMSCF	96.60	7.88	5.67	8.60	0.70	0.50
Boiler	660	707832	0.5	Natural Gas	EF_FACTOR*MMSCF	1.39	MMSCF	102.90	7.88	5.67	143.08	10.95	7.88
Furnace	789	707833	0.5	Natural Gas	EF_FACTOR*MMSCF	1.39	MMSCF	96.60	7.88	5.67	134.32	10.95	7.88
Boiler	799	707834	0.105	Natural Gas	EF_FACTOR*MMSCF	0.29	MMSCF	96.60	7.88	5.67	28.21	2.30	1.66
Boiler	799	707835	0.106	Natural Gas	EF_FACTOR*MMSCF	0.29	MMSCF	96.60	7.88	5.67	28.48	2.32	1.67
Furnace	1579	707836	0.1	Propane/LPG	EF_FACTOR*GALS/1000	3,173.91	GALS	8.46	0.69	0.50	26.86	2.19	1.58
Furnace	5002	707837	0.08	Natural Gas	EF_FACTOR*MMSCF	0.22	MMSCF	96.60	7.88	5.67	21.49	1.75	1.26
Water Heater	5010	707838	0.2	Natural Gas	EF_FACTOR*MMSCF	0.56	MMSCF	96.60	7.88	5.67	53.73	4.38	3.15
Water Heater	10660	707839	0.199	Natural Gas	EF_FACTOR*MMSCF	0.55	MMSCF	96.60	7.88	5.67	53.46	4.36	3.14
Boiler	10660	707840	0.399	Natural Gas	EF_FACTOR*MMSCF	1.11	MMSCF	96.60	7.88	5.67	107.19	8.74	6.29
Water Heater	12907	707841	0.034	Natural Gas	EF_FACTOR*MMSCF	0.09	MMSCF	96.60	7.88	5.67	9.13	0.74	0.54
Water Heater	13022	707842	0.036	Natural Gas	EF_FACTOR*MMSCF	0.10	MMSCF	96.60	7.88	5.67	9.67	0.79	0.57
Boiler	13640	707843	0.99	Natural Gas	EF_FACTOR*MMSCF	2.75	MMSCF	102.90	7.88	5.67	283.30	21.68	15.61
Water Heater	13640	707844	0.199	Natural Gas	EF_FACTOR*MMSCF	0.55	MMSCF	96.60	7.88	5.67	53.46	4.36	3.14
Water Heater	13848	707845	0.199	Natural Gas	EF_FACTOR*MMSCF	0.55	MMSCF	96.60	7.88	5.67	53.46	4.36	3.14
Boiler	13848	707846	0.399	Natural Gas	EF_FACTOR*MMSCF	1.11	MMSCF	96.60	7.88	5.67	107.19	8.74	6.29
Boiler	13855	707847	0.199	Natural Gas	EF_FACTOR*MMSCF	0.55	MMSCF	96.60	7.88	5.67	53.46	4.36	3.14
Boiler	13855	707848	0.199	Natural Gas	EF_FACTOR*MMSCF	0.55	MMSCF	96.60	7.88	5.67	53.46	4.36	3.14
Boiler	13856	707849	0.199	Natural Gas	EF_FACTOR*MMSCF	0.55	MMSCF	96.60	7.88	5.67	53.46	4.36	3.14
Boiler	13856	707850	0.199	Natural Gas	EF_FACTOR*MMSCF	0.55	MMSCF	96.60	7.88	5.67	53.46	4.36	3.14
Boiler	13864	707851	0.199	Natural Gas	EF_FACTOR*MMSCF	0.55	MMSCF	96.60	7.88	5.67	53.46	4.36	3.14
Boiler	13864	707852	0.199	Natural Gas	EF_FACTOR*MMSCF	0.55	MMSCF	96.60	7.88	5.67	53.46	4.36	3.14
Boiler	13865	707853	0.199	Natural Gas	EF_FACTOR*MMSCF	0.55	MMSCF	96.60	7.88	5.67	53.46	4.36	3.14
Boiler	13865	707854	0.199	Natural Gas	EF_FACTOR*MMSCF	0.55	MMSCF	96.60	7.88	5.67	53.46	4.36	3.14
Boiler	13866	707855	0.199	Natural Gas	EF_FACTOR*MMSCF	0.55	MMSCF	96.60	7.88	5.67	53.46	4.36	3.14
Boiler	13866	707856	0.199	Natural Gas	EF_FACTOR*MMSCF	0.55	MMSCF	96.60	7.88	5.67	53.46	4.36	3.14
Water Heater	14300	707857	0.275	Natural Gas	EF_FACTOR*MMSCF	0.76	MMSCF	96.60	7.88	5.67	73.88	6.02	4.34
Boiler	16200	707858	1.26	Natural Gas	EF_FACTOR*MMSCF	3.50	MMSCF	102.90	7.88	5.67	360.56	27.59	19.87
Boiler	6523	707930	0.85	Natural Gas	EF_FACTOR*MMSCF	2.36	MMSCF	37.80	7.88	5.67	89.35	18.62	13.40
Furnace	1628	707998	0.08	Propane/LPG	EF_FACTOR*GALS/1000	2,539.13	GALS	8.46	0.69	0.50	21.49	1.75	1.26
Furnace	1628	707999	0.1	Propane/LPG	EF_FACTOR*GALS/1000	3,173.91	GALS	8.46	0.69	0.50	26.86	2.19	1.58

Table A-5. Estimated Emissions from Permit Exempt External Combustion Devices

Description	Location	Pri_ID	Capacity (MMBTU)	Fuel	Equation	Usage		Emission Factors			Emissions (Lbs/Yr)		
						PTE	Units	NOx	PM	ROC	NOx	PM	ROC
Water Heater	1628	708000	0.04	Propane/LPG	EF_FACTOR*GALS/1000	1,269.57	GALS	8.46	0.69	0.50	10.75	0.88	0.63
Boiler	6523	708039	0.85	Natural Gas	EF_FACTOR*MMSCF	2.36	MMSCF	37.80	7.88	5.67	89.35	18.62	13.40
Water Heater	1731	708767	0.038	Natural Gas	EF_FACTOR*MMSCF	0.11	MMSCF	96.60	7.88	5.67	10.21	0.83	0.60
Boiler	7025	708770	1.05	Natural Gas	EF_FACTOR*MMSCF	2.92	MMSCF	102.90	7.88	5.67	300.47	23.00	16.56
Boiler	7025	708771	1.05	Natural Gas	EF_FACTOR*MMSCF	2.92	MMSCF	102.90	7.88	5.67	300.47	23.00	16.56
Boiler	23225	708772	2	Natural Gas	EF_FACTOR*MMSCF	5.56	MMSCF	102.90	7.88	5.67	572.32	43.80	31.54
Boiler	23225	708773	2	Natural Gas	EF_FACTOR*MMSCF	5.56	MMSCF	102.90	7.88	5.67	572.32	43.80	31.54
Boiler	9190	709144	0.399	Natural Gas	EF_FACTOR*MMSCF	1.11	MMSCF	96.60	7.88	5.67	107.19	8.74	6.29
Boiler	13852	710165	0.199	Natural Gas	EF_FACTOR*MMSCF	0.55	MMSCF	69.30	7.88	5.67	38.35	4.36	3.14
Water Heater	10317	711980	0.04	Natural Gas	EF_FACTOR*MMSCF	0.11	MMSCF	96.60	7.88	5.67	10.75	0.88	0.63
Water Heater	10717	713405	0.04	Natural Gas	EF_FACTOR*MMSCF	0.11	MMSCF	69.30	7.88	5.67	7.71	0.88	0.63
Water Heater	12915	713407	0.27	Natural Gas	EF_FACTOR*MMSCF	0.75	MMSCF	69.30	7.88	5.67	52.03	5.91	4.26
Furnace	1930	714341	1	Propane/LPG	EF_FACTOR*GALS/1000	31,739.13	GALS	13.50	0.69	0.50	428.48	21.90	15.77
Furnace	1930	714343	1	Propane/LPG	EF_FACTOR*GALS/1000	31,739.13	GALS	13.50	0.69	0.50	428.48	21.90	15.77
Water Heater	21308	714346	0.036	Natural Gas	EF_FACTOR*MMSCF	0.10	MMSCF	96.60	7.88	5.67	9.67	0.79	0.57
Boiler	6523	714348	0.11	Natural Gas	EF_FACTOR*MMSCF	0.31	MMSCF	69.30	7.88	5.67	21.20	2.41	1.73
Water Heater	6523	714349	0.034	Natural Gas	EF_FACTOR*MMSCF	0.09	MMSCF	96.60	7.88	5.67	9.13	0.74	0.54
Water Heater	1735	720648	0.065	Natural Gas	EF_FACTOR*MMSCF	0.18	MMSCF	102.90	7.88	5.67	18.60	1.42	1.02
Furnace	6816	720649	0.1	Natural Gas	EF_FACTOR*MMSCF	0.28	MMSCF	96.60	7.88	5.67	26.86	2.19	1.58
Furnace	6816	720650	0.1	Natural Gas	EF_FACTOR*MMSCF	0.28	MMSCF	96.60	7.88	5.67	26.86	2.19	1.58
Boiler	12006	721569	2	Natural Gas	EF_FACTOR*MMSCF	5.56	MMSCF	37.80	7.88	5.67	210.24	43.80	31.54
Boiler	12006	721570	2	Natural Gas	EF_FACTOR*MMSCF	5.56	MMSCF	50.00	7.88	5.67	278.10	43.80	31.54
Boiler	764	723353	0.51	Natural Gas	EF_FACTOR*MMSCF	1.42	MMSCF	102.90	7.88	5.67	145.94	11.17	8.04
Boiler	2510	723354	0.399	Natural Gas	EF_FACTOR*MMSCF	1.11	MMSCF	96.60	7.88	5.67	107.19	8.74	6.29
Boiler	2510	723355	0.399	Natural Gas	EF_FACTOR*MMSCF	1.11	MMSCF	96.60	7.88	5.67	107.19	8.74	6.29
Boiler	10577	724479	0.5	Natural Gas	EF_FACTOR*MMSCF	1.39	MMSCF	37.80	7.88	5.67	52.56	10.95	7.88
Water Heater	7425	724495	0.04	Natural Gas	EF_FACTOR*MMSCF	0.11	MMSCF	96.60	7.88	5.67	10.75	0.88	0.63
Water Heater	8510	724497	0.038	Natural Gas	EF_FACTOR*MMSCF	0.11	MMSCF	69.30	7.88	5.67	7.32	0.83	0.60
Water Heater	10122	724648	0.04	Natural Gas	EF_FACTOR*MMSCF	0.11	MMSCF	69.30	7.88	5.67	7.71	0.88	0.63
Boiler	8510	727882	0.5	Natural Gas	EF_FACTOR*MMSCF	1.39	MMSCF	37.80	7.88	5.67	52.56	10.95	7.88
Boiler	8510	727883	0.5	Natural Gas	EF_FACTOR*MMSCF	1.39	MMSCF	37.80	7.88	5.67	52.56	10.95	7.88
Boiler	840	727966	0.264	Natural Gas	EF_FACTOR*MMSCF	0.73	MMSCF	69.30	7.88	5.67	50.88	5.78	4.16
Boiler	848	727968	0.96	Natural Gas	EF_FACTOR*MMSCF	2.67	MMSCF	96.60	7.88	5.67	257.89	21.02	15.14
Furnace	1530	727969	0.53	Natural Gas	EF_FACTOR*MMSCF	1.47	MMSCF	102.90	7.88	5.67	151.66	11.61	8.36
Boiler	1610	727971	0.54	Natural Gas	EF_FACTOR*MMSCF	1.50	MMSCF	37.80	7.88	5.67	56.76	11.83	8.51
Boiler	1610	727972	0.54	Natural Gas	EF_FACTOR*MMSCF	1.50	MMSCF	37.80	7.88	5.67	56.76	11.83	8.51
Furnace	1707	727973	0.8	Natural Gas	EF_FACTOR*MMSCF	2.22	MMSCF	37.80	7.88	5.67	84.10	17.52	12.61
Water Heater	1746	727974	0.125	Natural Gas	EF_FACTOR*MMSCF	0.35	MMSCF	96.60	7.88	5.67	33.58	2.74	1.97
Water Heater	6601	727976	0.76	Natural Gas	EF_FACTOR*MMSCF	2.11	MMSCF	37.80	7.88	5.67	79.89	16.64	11.98
Water Heater	9360	727980	0.4	Natural Gas	EF_FACTOR*MMSCF	1.11	MMSCF	96.60	7.88	5.67	107.46	8.76	6.31
Furnace	10260	727981	0.8	Natural Gas	EF_FACTOR*MMSCF	2.22	MMSCF	37.80	7.88	5.67	84.10	17.52	12.61
Boiler	10525	727982	0.75	Natural Gas	EF_FACTOR*MMSCF	2.09	MMSCF	102.90	7.88	5.67	214.62	16.43	11.83
Boiler	10577	727983	0.5	Natural Gas	EF_FACTOR*MMSCF	1.39	MMSCF	37.80	7.88	5.67	52.56	10.95	7.88
Water Heater	10711	727984	0.75	Natural Gas	EF_FACTOR*MMSCF	2.09	MMSCF	102.90	7.88	5.67	214.62	16.43	11.83
Boiler	10711	727985	0.58	Natural Gas	EF_FACTOR*MMSCF	1.61	MMSCF	102.90	7.88	5.67	165.97	12.70	9.15
Water Heater	10713	727986	0.034	Natural Gas	EF_FACTOR*MMSCF	0.09	MMSCF	96.60	7.88	5.67	9.13	0.74	0.54

Table A-5. Estimated Emissions from Permit Exempt External Combustion Devices

Description	Location	Pri_ID	Capacity (MMBTU)	Fuel	Equation	Usage		Emission Factors			Emissions (Lbs/Yr)		
						PTE	Units	NOx	PM	ROC	NOx	PM	ROC
Boiler	11013	727987	0.239	Natural Gas	EF_FACTOR*MMSCF	0.66	MMSCF	96.60	7.88	5.67	64.20	5.23	3.77
Furnace	11040	727988	0.5	Natural Gas	EF_FACTOR*MMSCF	1.39	MMSCF	102.90	7.88	5.67	143.08	10.95	7.88
Furnace	11040	727989	0.5	Natural Gas	EF_FACTOR*MMSCF	1.39	MMSCF	102.90	7.88	5.67	143.08	10.95	7.88
Water Heater	11165	727990	0.04	Natural Gas	EF_FACTOR*MMSCF	0.11	MMSCF	96.60	7.88	5.67	10.75	0.88	0.63
Water Heater	11248	727991	0.12	Natural Gas	EF_FACTOR*MMSCF	0.33	MMSCF	96.60	7.88	5.67	32.24	2.63	1.89
Water Heater	11477	727992	0.034	Natural Gas	EF_FACTOR*MMSCF	0.09	MMSCF	96.60	7.88	5.67	9.13	0.74	0.54
Furnace	17595	727994	0.8	Natural Gas	EF_FACTOR*MMSCF	2.22	MMSCF	102.90	7.88	5.67	228.93	17.52	12.61
Boiler	13858	728031	0.199	Natural Gas	EF_FACTOR*MMSCF	0.55	MMSCF	96.60	7.88	5.67	53.46	4.36	3.14
Boiler	13860	728032	0.199	Natural Gas	EF_FACTOR*MMSCF	0.55	MMSCF	96.60	7.88	5.67	53.46	4.36	3.14
Furnace	11432	730209	0.1	Natural Gas	EF_FACTOR*MMSCF	0.28	MMSCF	96.60	7.88	5.67	26.86	2.19	1.58
Furnace	11432	730211	0.1	Natural Gas	EF_FACTOR*MMSCF	0.28	MMSCF	96.60	7.88	5.67	26.86	2.19	1.58
Furnace	11432	730216	0.1	Natural Gas	EF_FACTOR*MMSCF	0.28	MMSCF	96.60	7.88	5.67	26.86	2.19	1.58
Furnace	11439	730223	0.09	Natural Gas	EF_FACTOR*MMSCF	0.25	MMSCF	96.60	7.88	5.67	24.18	1.97	1.42
Boiler	13123	730224	0.3	Natural Gas	EF_FACTOR*MMSCF	0.83	MMSCF	96.60	7.88	5.67	80.59	6.57	4.73
Boiler	13123	730225	0.3	Natural Gas	EF_FACTOR*MMSCF	0.83	MMSCF	96.60	7.88	5.67	80.59	6.57	4.73
Boiler	2500	731776	0.399	Natural Gas	EF_FACTOR*MMSCF	1.11	MMSCF	96.60	7.88	5.67	107.19	8.74	6.29
Boiler	8310	731904	0.97	Natural Gas	EF_FACTOR*MMSCF	2.70	MMSCF	96.60	7.88	5.67	260.58	21.24	15.29
Boiler	8310	731906	0.97	Natural Gas	EF_FACTOR*MMSCF	2.70	MMSCF	96.60	7.88	5.67	260.58	21.24	15.29
Water Heater	2530	731907	0.038	Natural Gas	EF_FACTOR*MMSCF	0.11	MMSCF	96.60	7.88	5.67	10.21	0.83	0.60
Water Heater	1743	732133	0.04	Natural Gas	EF_FACTOR*MMSCF	0.11	MMSCF	96.60	7.88	5.67	10.75	0.88	0.63
Water Heater	1555	732164	0.034	Natural Gas	EF_FACTOR*MMSCF	0.09	MMSCF	96.60	7.88	5.67	9.13	0.74	0.54
Water Heater	1555	732165	0.034	Natural Gas	EF_FACTOR*MMSCF	0.09	MMSCF	96.60	7.88	5.67	9.13	0.74	0.54
Water Heater	14300	732805	0.275	Natural Gas	EF_FACTOR*MMSCF	0.76	MMSCF	96.60	7.88	5.67	73.88	6.02	4.34
Water Heater	6523	732806	0.04	Natural Gas	EF_FACTOR*MMSCF	0.11	MMSCF	96.60	7.88	5.67	10.75	0.88	0.63
Boiler	7523	732807	2	Natural Gas	EF_FACTOR*MMSCF	5.56	MMSCF	96.60	7.88	5.67	537.28	43.80	31.54
Boiler	8500	732808	2	Natural Gas	EF_FACTOR*MMSCF	5.56	MMSCF	102.90	7.88	5.67	572.32	43.80	31.54
Boiler	13321	732809	0.5	Natural Gas	EF_FACTOR*MMSCF	1.39	MMSCF	102.90	7.88	5.67	143.08	10.95	7.88
Water Heater	13850	732816	0.399	Natural Gas	EF_FACTOR*MMSCF	1.11	MMSCF	96.60	7.88	5.67	107.19	8.74	6.29
Water Heater	13850	732817	0.399	Natural Gas	EF_FACTOR*MMSCF	1.11	MMSCF	96.60	7.88	5.67	107.19	8.74	6.29
Water Heater	8510	732819	0.038	Natural Gas	EF_FACTOR*MMSCF	0.11	MMSCF	96.60	7.88	5.67	10.21	0.83	0.60
Boiler	75	732823	0.75	Propane LPG	EF_FACTOR*GALS/1000	23,804.35	GALS	13.50	0.69	0.50	321.36	16.43	11.83
Total (lbs)											38751	4039	2908
Total (tons)											19.38	2.02	1.45

Notes:

PTE Usage is capacity x hours per year x conversion factor (btu/units); Hours = 2920; 1050 btu/scf NG, and 92000 btu/gal LPG

*Emission Factors Units: Propane & LPG = lbs/1000 gal; Natural Gas = lbs/MMSCF

Table A-6. Abrasive Blasting Cabinet Emissions

Building Number	Equip. Location	Operator ID	Equation	Rate (Lbs/Hr)	Hours	Emission (Lbs)
875	875 Sweeney Rd	726223	EM = 0.041 *Q*(100-CF)	60	416	124.8
1737	340 Airfield Rd	3521	EM = 0.041 *Q*(100-CF)	95	416	197.6
1749	1749 Airfield Rd	728028	EM = 0.041 *Q*(100-CF)	150	416	312
8190	1580 Nevada Ave	3978	EM = 0.041 *Q*(100-CF)	98	416	203.8
8415	178 8th St	4164	EM = 0.041 *Q*(100-CF)	180	416	374.4
9320	334 6th St	4318	EM = 0.041 *Q*(100-CF)	180	416	374.4
9320	334 6th St	705831	EM = 0.041 *Q*(100-CF)	180	416	374.4
9360	1318 New Mexico Ave	4283	EM = 0.041 *Q*(100-CF)	180	416	374.4
10711	433 Herado Ave	703462	EM = 0.041 *Q*(100-CF)	180	416	374.4
Total (Lbs/yr)						2,710.24
Total (TPY)						1.36

Notes:

EM - Emission Rates

0.041 = SBCAPCD emission factor of lbs of PM10/lb of throughput

Q = annual throughput = annual hours x usage rate

CF = control efficiency of filters which is assumed to 99.5%.

Rate = mass test value or highest mass tests from blasting cabinets. See ABS Survey tab.

Hours of operation = 8 hrs/day x 1 day/wk x 52 wks/yr.

Table A-7. Estimated Emissions from Permit Exempt Storage Tanks

Description	Location	Pri_ID	Content	Equation Source	Capacity (gal)	PTE Throughput (gal)	ROC (lbs/yr)
Fueling Equipment	10723	1214	Diesel	Assumed to be negligible	4000		NE
Fueling Equipment	11439	1217	Diesel	Assumed to be negligible	550		NE
Fueling Generators	525	1224	Diesel	Assumed to be negligible	2500		NE
Fueling Generators	525	1226	Diesel	Assumed to be negligible	2500		NE
Fueling Generators	525	1228	Diesel	Assumed to be negligible	2500		NE
Fueling Generators	525	1229	Diesel	Assumed to be negligible	2500		NE
Fueling Generators	525	1230	Diesel	Assumed to be negligible	2500		NE
Fueling Equipment	1704	1249	Diesel	Assumed to be negligible	20000		NE
Fueling Equipment	1699	1250	Diesel	Assumed to be negligible	20000		NE
Fueling Generator	64	1297	Diesel	Assumed to be negligible	4000		NE
Fueling Generator	21150	1317	Diesel	Assumed to be negligible	1500		NE
Fueling Generator	906	3094	Diesel	Assumed to be negligible	350		NE
Fueling Generator	1561	3096	Diesel	Assumed to be negligible	280		NE
Fueling Generator	1604	3098	Diesel	Assumed to be negligible	550		NE
Fueling Fire Water Pump	1829	3104	Diesel	Assumed to be negligible	325		NE
Fueling Fire Water Pump	2305	3107	Diesel	Assumed to be negligible	300		NE
Fueling Generator	7425	3108	Diesel	Assumed to be negligible	250		NE
Fueling Generator	185	3114	Diesel	Assumed to be negligible	500		NE
Fueling Equipment	9505	3164	Diesel	Assumed to be negligible	500		NE
Fueling Equipment	1345	3277	Diesel	Assumed to be negligible	1000		NE
Fueling Fire Water Pump	968	3308	Diesel	Assumed to be negligible	300		NE
Fueling Fire Water Pump	968	3309	Diesel	Assumed to be negligible	300		NE
Fueling Generator	10579	3314	Diesel	Assumed to be negligible	400		NE
Fueling Fire Water Pump	1829	3402	Diesel	Assumed to be negligible	325		NE
Fueling Generator	511	3431	Diesel	Assumed to be negligible	425		NE
Fueling Fire Water Pump	23209	3434	Diesel	Assumed to be negligible	290		NE
Fueling Generator	2500	3443	Diesel	Assumed to be negligible	500		NE
Fueling Generator	1559	3446	Diesel	Assumed to be negligible	250		NE
Fueling Generator	1937	3499	Diesel	Assumed to be negligible	514		NE
Fueling Generator	764	3541	Diesel	Assumed to be negligible	660		NE
Fueling Generator	830	3542	Diesel	Assumed to be negligible	425		NE
Fueling Generator	1917	3561	Diesel	Assumed to be negligible	500		NE
Fueling Generator	1962	3562	Diesel	Assumed to be negligible	388		NE
Fueling Generator	1964	3563	Diesel	Assumed to be negligible	388		NE
Fueling Generator	1971	3564	Diesel	Assumed to be negligible	388		NE
Fueling Generator	1972	3565	Diesel	Assumed to be negligible	388		NE
Fueling Generator	1768	3574	Diesel	Assumed to be negligible	700		NE
Fueling Generator	21203	3743	Diesel	Assumed to be negligible	425		NE

Table A-7. Estimated Emissions from Permit Exempt Storage Tanks

Description	Location	Pri_ID	Content	Equation Source	Capacity (gal)	PTE Throughput (gal)	ROC (lbs/yr)
Fueling Generator	8401	3807	Diesel	Assumed to be negligible	850		NE
Fueling Generator	6510	3816	Diesel	Assumed to be negligible	500		NE
Fueling Generator	1965	3908	Diesel	Assumed to be negligible	350		NE
Fueling Generator	1916	3909	Diesel	Assumed to be negligible	500		NE
Fueling Generator	2520	3911	Diesel	Assumed to be negligible	1000		NE
Fueling Generators	929	3959	Diesel	Assumed to be negligible	500		NE
Fueling Generator	383	3977	Diesel	Assumed to be negligible	500		NE
Fueling Generator	1747	4050	Diesel	Assumed to be negligible	500		NE
Fueling Generators	1731	4139	Diesel	Assumed to be negligible	500		NE
Fueling Equipment	1735	4280	Diesel	Assumed to be negligible	500		NE
Fueling Generators	830	4362	Diesel	Assumed to be negligible	480		NE
Fueling Generators	12008	25122	Diesel	Assumed to be negligible	10000		NE
Fueling Generators	3000	641872	Diesel	Assumed to be negligible	2000		NE
Fueling Generators	3000	644530	Diesel	Assumed to be negligible	2000		NE
Fueling Generators	23243	661432	Diesel	Assumed to be negligible	2000		NE
Fueling Generators	661	670464	Diesel	Assumed to be negligible	5000		NE
Fueling Generators	966	674105	Diesel	Assumed to be negligible	253		NE
Fueling Generators	964	675092	Diesel	Assumed to be negligible	253		NE
Fueling Generators	8317	675249	Diesel	Assumed to be negligible	320		NE
Fueling Generators	661	675337	Diesel	Assumed to be negligible	250		NE
Fueling Equipment	1735	679443	JP-8	Assumed to be negligible	600		NE
Fueling Generators	12000	682748	Diesel	Assumed to be negligible	1555		NE
Fueling Generators	1819	684195	Diesel	Assumed to be negligible	1000		NE
Fueling Equipment	1705	685497	Jet A	Assumed to be negligible	6000		NE
Fueling Equipment	1705	685498	Jet A	Assumed to be negligible	6000		NE
Fueling Equipment	1705	685499	Jet A	Assumed to be negligible	6000		NE
Fueling Equipment	1705	685500	Jet A	Assumed to be negligible	6000		NE
Fueling Equipment	1705	685501	Diesel	Assumed to be negligible	1200		NE
Fueling Equipment	1705	685503	Diesel	Assumed to be negligible	1200		NE
Fueling Generators	13850	695361	Diesel	Assumed to be negligible	550		NE
Fueling Equipment	10726	695365	Biodiesel	Assumed to be negligible	5000		NE
Fueling Generators	75	696917	Diesel	Assumed to be negligible	264		NE
Fueling Generators	7025	699069	Diesel	Assumed to be negligible	1500		NE
Fueling Generators	3000	702075	Diesel	Assumed to be negligible	500		NE
Fueling Generators	22312	711744	Diesel	Assumed to be negligible	500		NE
Fueling Equipment	1731	716263	Diesel	Assumed to be negligible	528		NE
Fueling Equipment	809	722067	Diesel	Assumed to be negligible	400		NE
Fueling Equipment	2500	725372	Diesel	Assumed to be negligible	2000		NE

Table A-7. Estimated Emissions from Permit Exempt Storage Tanks

Description	Location	Pri_ID	Content	Equation Source	Capacity (gal)	PTE Throughput (gal)	ROC (lbs/yr)
Fueling Equipment	2500	725373	Diesel	Assumed to be negligible	2000		NE
Fueling Equipment	1639	725374	Diesel	Assumed to be negligible	1800		NE
Fueling Equipment	7000	725658	Diesel	Assumed to be negligible	2074		NE
Fueling Equipment	7000	725663	Diesel	Assumed to be negligible	2074		NE
Fueling Equipment	7000	725664	Diesel	Assumed to be negligible	2074		NE
Fueling Equipment	1959	727885	Diesel	Assumed to be negligible	250		NE
Fueling Generator	8510	727888	Diesel	Assumed to be negligible	500		NE
Fueling Equipment	8401	727934	Diesel	Assumed to be negligible	850		NE
Fueling Equipment	6601	728206	Diesel	Assumed to be negligible	500		NE
Fueling Equipment	13730	730107	Diesel	Assumed to be negligible	250		NE
Fueling Equipment	7011	732523	Diesel	Assumed to be negligible	1530		NE
Fuel Storage (67 tanks)	Various	Various	Diesel	Assumed to be negligible	>55 and < 250		NE
Fuel Storage (3 tanks)	Various	Various	Gasoline	From GDF Emission (ver 1.0)	>55 and < 250	24960.0	89.87
					Total	24,960.0	89.87
					Total (tpy)		0.04

NE-Not Estimated.

Table A-8. Emissions from EOD Operations at EOD Range

Type of Ordnance	Amount of Charge (NEW Lbs/Year) ^(b)	Emission Factor (Lb/Lb NEW)		Emissions		Emission Factor Source
		NOX	NMHC	NOX	NMHC	
C-4 donor Charge	8000	6.30E-03	2.72E-04	50.40	2.17	AP-42; Table 15.9.1-1; Summation of Table 15.9.1-2 less metals
Ordnance	96	7.70E-02	2.10E-02	7.39	2.02	AP-42; Table 15.9.1 through 15.9.41-2. Largest values found
TNT	66	1.50E-02	4.70E-03	0.99	0.31	AP-42; Table 15.9.3-1 and -2
ANFO ^(a)	440	17	NA	3.74	0.00	AP-42; Table 13.3-1.
Dynamite	756	6.50E-03	NA	4.91	0.00	AP-42; Table 15.9.17-1.
Total (Lbs/Year)				67.44	4.50	
Total (Tons/Year)				0.03	0.00	

Notes:

NEW = Net Explosive Weight

NA = Not Available

^{a)} For this source, the emission factor is in lbs/ton

^{b)} For this source, the amount of charge is the highest annual consumption from CY 2011-2014

Table A-9. Emissions from Small Arms Range

Type of Ammunition	Number of Rounds ^(a)	Emission Factor (Lb NOX /Round)	Emissions NOX (Lbs)	Emission Factor Source
12 Gauge	1,761	4.20E-05	0.07	AP-42; Tables 15.1.2-1
40 mm	770	1.60E-03	1.23	AP-42; Highest Values from Tables 15.2.2-1 through 15.2.7-1.
5.56 mm	268,500	8.50E-05	22.82	AP-42; Highest Value from Tables 15.1.4-1 through 15.1.9-1.
7.62 mm	96,700	9.70E-05	9.38	AP-42; Highest Value from Tables 15.1.12-1 through 15.1.16-1
9 mm	73,227	1.50E-05	1.10	AP-42; Tables 15.1.21-1 .
Total (Lbs/Year)			34.61	
Total (Tons/Year)			0.02	

Notes:

^{a)} For this source, the amount of charge is the highest annual consumption from CY 2011-2014

Table A-10. Wood Chipper Emissions

Building Number	Equip. Location	Operator ID	Equation	Emission Rate	Annual Tons	PM10 Emission (Lbs)
NA	Various Locations	650037	EM = 0.1 *Q	0.1	85280	8528
Total (Lbs PM10/Year)						8,528.00
Total (Tons PM10/Year)						4.26

Notes:

EM - Emission Rates

0.1 lbs PM/ton of material processed = PERP Registration 123540

Q = annual throughput = 820 tons/day x 2 days/week x 52 weeks/year

Table A-11. Site 13C SVE Readings

Date	Concentrations (PPM TCE)			Control	
	Inlet	Mid point	Outlet	Decrease	Efficiency
05/10/10	428	2.4	0.2	427.8	99.953%
10/12/10	438	24.1	0	438.0	100.000%
10/18/10	384	148	0.1	383.9	99.974%
10/26/10	380	0.8	13.5	366.5	96.447%
11/02/10	373	0.3	9.2	363.8	97.534%
11/09/10	362	0.4	5.8	356.2	98.398%
11/16/10	375	0.6	3.7	371.3	99.013%
11/23/10	330	8.3	2.9	327.1	99.121%
11/30/10	328	90.1	2	326.0	99.390%
12/07/10	376	380	4.6	371.4	98.777%
12/14/10	343	378	24.5	318.5	92.857%
12/21/10	122	153	0.2	121.8	99.836%
12/22/10	100	147	1.3	98.7	98.700%
12/28/10	138	189	0	138.0	100.000%
01/04/11	190	175	0.2	189.8	99.895%
01/13/11	144	0.4	0.2	143.8	99.861%
01/19/11	123	0.4	0.2	122.8	99.837%
01/25/11	141	0.5	0.4	140.6	99.716%
02/01/11	165	0.3	0.3	164.7	99.818%
02/08/11	152	0.3	0.4	151.6	99.737%
02/14/11	147	0.4	0.4	146.6	99.728%
02/15/11	130	0.4	0.3	129.7	99.769%
02/21/11	127	0.3	0.3	126.7	99.764%
02/24/11	380	0.3	0.3	379.7	99.921%
02/25/11	71.8	0.4	0.3	71.5	99.582%
03/01/11	183	0.2	0.2	182.8	99.891%
03/08/11	150	0.2	0.1	149.9	99.933%
03/15/11	163	0.3	0.2	162.8	99.877%
03/23/11	144	0.4	0.3	143.7	99.792%
03/29/11	112	0.2	0.2	111.8	99.821%
Average May 10 - Mar 11					99.231%

Table A-12. TCE Removal and Emissions from Site 13C

Reporting Period	Flowrate (CFM)	Hours of Operation	TCE Concentration (PPM)	Mass Captured (Lbs)	Emissions (Lbs)
23-31 Mar 10	145	190.5	2.10E+06	215	1.65
1 Apr - 30 Sep 10	170	3950	1.01E+06	3100	23.82
1 Oct -31 Mar 11	129	4085	5.90E+05	1150	8.84
1 Apr - 20 Dec 11	134	5446	2.00E+05	545	4.19
Estimated emissions 1 Jan through 20 Dec 2011					8.61

Source Table 4; Preliminary Draft Technical Memorandum, Achieve Asymptotic Air Effluent through Operation of SVE System, IRP Site 13C; Apr 2012; Shaw Corporation

The mass captured was calculated using the daily flowrates and concentrations which is slightly different from the calculations based upon averages in table. The average control efficiency (CE) from May 10 through Mar 11 was used to estimate the emissions from the SVE system. Emissions were estimated by multiplying the captured mass by the quantity 1-CE. Assuming linear capture from 1 Oct 10 through 31 Mar 11, a total of 575 lbs of TCE was removed while 4.42 lbs were emitted for the period 1 Jan through 31 Mar 2011. The total emissions therefore are 8.61 lbs

Table A-13. Building 11520 Soil Vapor Extraction (SVE) Readings

Date	Concentrations (PPBV VOC)			Decrease	Control Efficiency
	Inlet	Mid point	Outlet		
1/23/2018	4,420	78	--	4,342	98.24%
2/13/2018	3,837	80	29	3,808	99.24%
3/6/2018	5,530	55	15	5,515	99.73%
4/19/2018	3,716	89	28	3,688	99.25%
5/15/2018	3,605	89	32	3,573	99.11%
6/11/2018	3,308	89	32	3,276	99.03%
7/24/2018	5,528	258	58	5,470	98.95%
8/14/2018	3,597	222	30	3,567	99.17%
9/13/2018	3,489	652	66	3,423	98.11%
10/8/2018	3,112	306	31	3,081	99.00%
11/7/2018	3,245	3,448	12	3,233	99.63%
Average					99.04%

Table A-14. VOC Removal and Emissions from Building 11520

Reporting Period (Dates)	Operation Period	SVE Hours Operated		Effluent Sample Date ^{A,E}	Vapor Flow ^B	Effluent VOC Laboratory Reported Concentrations	Effluent VOC Emission Rate ^C	Effluent VOC Emission Rate ^C	Effluent ROC Laboratory Reported Concentrations	Effluent ROC Emission Rate ^C	Effluent ROC Emission Rate ^C	Total VOCs Emitted in Operating Period	Cumulative VOCs Emitted	Total ROCs Emitted in Operating Period	Cumulative ROCs Emitted
		During Operating Period ^F	Cumulative												
		(hours)	(hours)												
1/1/18 - 1/31/18	1/1/18 - 1/23/18	471.7	471.7	12/19/2017	130	72	0.00004	0.0008	31	0.00002	0.0004	0.02	0.02	0.01	0.01
	1/23/18 - 1/31/18	201.2	672.9	12/19/2017	139	72	0.00004	0.0009	31	0.00002	0.0004	0.03	0.04	0.01	0.02
2/1/18 - 2/28/18	2/1/18 - 2/13/18	295.7	968.6	12/19/2017	142	72	0.00004	0.0009	31	0.00002	0.0004	0.04	0.08	0.02	0.03
	2/13/18 - 2/28/18	385.4	1,354.0	2/13/2018	149	117	0.00007	0.0016	64	0.00004	0.0009	0.09	0.17	0.05	0.08
3/1/18 - 3/31/18	3/1/18 - 3/6/18	132.7	1,486.7	2/13/2018	141	117	0.00006	0.0015	64	0.00003	0.0008	0.09	0.26	0.05	0.13
	3/6/18 - 3/31/18	609.9	2,096.6	3/6/2018	123	51 J	0.00002	0.0006	51 J	0.00002	0.0006	0.05	0.31	0.05	0.24
4/1/18 - 4/30/18	4/1/18 - 4/19/18	442.9	2,539.5	3/6/2018	119	51 J	0.00002	0.0005	51 J	0.00002	0.0005	0.06	0.37	0.06	0.30
	4/19/18 - 4/30/18	276.5	2,816.0	4/19/2018	120	93 J	0.00004	0.0010	56 J	0.00003	0.0006	0.12	0.48	0.07	0.37
5/1/18 - 5/31/18	5/1/18 - 5/15/18	347.1	3,163.1	4/19/2018	118	93 J	0.00004	0.0010	56 J	0.00002	0.0006	0.13	0.61	0.08	0.45
	5/15/18 - 5/31/18	396.7	3,559.8	5/15/2018	117	130	0.00006	0.0014	95	0.00004	0.0010	0.20	0.82	0.15	0.60
6/1/18 - 6/30/18	6/1/18 - 6/11/18	253.1	3,812.9	5/15/2018	115	130	0.00006	0.0013	95	0.00004	0.0010	0.21	1.03	0.16	0.75
	6/11/18 - 6/30/18	432.1	4,245.0	6/11/2018	112	161	0.00007	0.0016	118	0.00005	0.0012	0.29	1.32	0.21	1.22
7/1/18 - 7/31/18	7/1/18 - 7/24/18	95.2	4,340.2	6/11/2018	108	161	0.00007	0.0016	118	0.00005	0.0011	0.28	1.60	0.21	1.76
	7/24/18 - 7/31/18	179.6	4,519.8	7/24/2018	108	209	0.00008	0.0020	154	0.00006	0.0015	0.38	1.98	0.28	2.05
8/1/18 - 8/31/18	8/1/18 - 8/14/18	301.9	4,821.7	7/24/2018	107	209	0.00008	0.0020	154	0.00006	0.0015	0.40	2.39	0.30	2.34
	8/14/18 - 8/31/18	420.5	5,242.2	8/14/2018	110	116	0.00005	0.0011	102	0.00004	0.0010	0.25	2.64	0.22	2.49
9/1/18 - 9/30/18	9/1/18 - 9/13/18	298.8	5,541.0	8/14/2018	113	116	0.00005	0.0012	102	0.00004	0.0010	0.27	2.91	0.24	2.73
	9/13/18 - 9/30/18	419.9	5,960.9	9/13/2018	123	225	0.00010	0.0025	175	0.00008	0.0019	0.62	3.53	0.48	3.21
10/1/18 - 10/31/18	10/1/18 - 10/8/18	151.2	6,112.1	9/13/2018	113	225	0.00009	0.0023	175	0.00007	0.0018	0.58	4.11	0.45	3.35
	10/8/18 - 10/31/18	523.9	6,636.0	10/8/2018	125	112	0.00005	0.0013	96	0.00004	0.0011	0.35	4.45	0.30	3.65
11/1/18 - 11/30/18	11/1/18 - 11/7/18	156.4	6,792.4	10/8/2018	116	112	0.00005	0.0012	96	0.00004	0.0010	0.33	4.78	0.28	3.93
	11/7/18 - 11/15/18	191.5	6,983.9	11/7/2018	110	37	0.00002	0.0004	22	0.00001	0.0002	0.11	4.89	0.06	3.99
	11/15/18 - 11/30/18	0.0	6,983.9	--	--	--	--	--	--	--	--	--	4.89	--	3.99
12/1/18 -	12/1/18 - 12/31/18	0.0	6,983.9	--	--	--	--	--	--	--	--	--	4.89	--	3.99

Total Mass of VOCs Emitted during 2018:	4.89 pounds
Average Daily VOC Emission Rate during 2018:	0.017 pounds per
Total Mass of ROCs Emitted during 2018:	3.99 pounds
Average Daily ROC Emission Rate during the Reporting Period:	0.014 pounds per
Average Process Flow Rate during the Reporting Period:	121 scfm

APPENDIX B – LIST OF CURRENT PERMITS

Table B-1. Current Permits in Title V Renewal Application

Incorporated PTOs	New PTOs	ATCs Awaiting PTO
6117-R7	15142	15714
7987-R5	15222	
7988-R5	15325	
8350-R6	15363	
8362-R7	15381	
8433-R7	15434	
8580-R5	15490	
8629-R6	15599	
8630-R7	15632	
8658-R5		
8686-R4		
8688-R4		
8766-R5		
8932-R5		
9088-R4		
10155-R2		
10156-R2		
10791		
10867-R2		
10900-R2		
11143-R1		
11668-R1		
11671-R1		
11672-R1		
11673-R1		
11674-R1		
11676-R1		
11677-R1		
11678-R1		
11679-R1		
11680-R1		
11810-R1		
12133-R1		
12820-R1		
12155		
12205		
12233		
12330-R1		
12346		
12356		
12419		
12454		
12455		
12640		
12661-R1		
12665-R1		
12666		
12672-R1		
12673-R1		
12676		
12739		
12793		
12810		

Incorporated PTOs	New PTOs	ATCs Awaiting PTO
12843		
12896		
12916		
12917		
12922		
13139		
13223		
13224		
13267		
13271		
13329		
13349		
13376		
13405		
13416		
13493		
13537		
13672		
13681		
13754		
13847		
13886		
13872		
13897		
13998		
14027		
14073		
14081		
14082		
14027		
14104		
14292		
14366		
14566		
14574		
14602		
14625		
14653		
14654		
14663		
14683		
14782		
14073		
14246-01		
14366		
14362		
14566		
14574		
14653		
14654		
14602		
14625		
14663		
14683		

Incorporated PTOs	New PTOs	ATCs Awaiting PTO
14782		
14926		
14968		
14969		
15012		
15043		
15065		
15141		
15175		
15181		
15258		
15283		