DEPARTMENT OF THE AIR FORCE
30TH SPACE WING (AFSPC)

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29 June 2012

MEMORANDUM FOR SANTA BARBARA COUNTY
AIR POLLUTION CONTROL DISTRICT
ATTN: MR. BEN ELLENBERGER

FROM: 30 CES/CEANQ
1028 Iceland Avenue
Vandenberg AFB, CA 93437-6010

SUBJECT: Title V application for Vandenberg Air Force Base (AFB)

Vandenberg AFB is submitting this Title V application for federal sources on Vandenberg AFB. Please refer to the enclosures for details of the application. If you have any questions, please contact Joe Naputi at (805) 606-0133, Dave Savinsky at (805) 606-2068, or Kim Harding at (805) 606-6863.

Thomas P. DeVenoge

THOMAS P. DEVENOGE, P.E.
Chief, Environmental Section
Asset Management Flight

Attachment:
1. Title V Application Binder
2. APCD Form -01A
3. APCD Form -01C
4. CD containing Electronic Files

cc:
File
AECOM (C. Josey)
Permit File

Vandenberg Air Force Base
Title V Application

June 29, 2012

PT-70 13568
FID 00201

Part 70 Permit Application

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8.	Current District Permits	Attachment 1 - CD

CC# 1610
$ 363.00
Joseph Naputi

Source Name:	Vandenberg Air Force Base
Facility Name:	Vandenberg Air Force Base

Owner

Company Name:	30th Space Wing				
Contact Name:	TONY P. LUCAS	Position/Title:	Chief, Environmental Quality		
Mailing Address:	1028 Iceland Ave				
City:	Vandenberg AFB	State:	CA	Zip Code:	93437
Telephone:	(805) 606-0016	Fax:	(805) 606-6137		
Email:	Tony.Lucas@vandenberg.af.mil				

Operator

Company Name:	30th Space Wing				
Contact Name:	TONY P. LUCAS	Position/Title:	Chief, Environmental Quality		
Mailing Address:	1028 Iceland Ave				
City:	Vandenberg AFB	State:	CA	Zip Code:	93437
Telephone:	(805) 606-0016	Fax:	(805) 606-6137		
Email:	Tony.Lucas@vandenberg.af.mil				

Correspondence

Company Name:	30th Space Wing				
Contact Name:	JOSEPH D. NAPUTI	Position/Title:	Air Quality Program Manager		
Mailing Address:	1028 Iceland Ave				
City:	Vandenberg AFB	State:	CA	Zip Code:	93437
Telephone:	(805) 606-0133	Fax:	(805) 606-6137		
Email:	Joseph.Naputi@vandenberg.af.mil				

Billing

Company Name:	30th Space Wing				
Contact Name:	KIMBERLEE A. HARDING	Position/Title:	Environmental Protection Specialist		
Mailing Address:	1028 Iceland Ave				
City:	Vandenberg AFB	State:	CA	Zip Code:	93437
Telephone:	(805) 606-6863	Fax:	(805) 606-6137		
Email:	Kimberlee.Harding@vandenberg.af.mil				

Responsible Official

Company Name:	30th Space Wing				
Contact Name:	NINA M. ARMAGNO	Position/Title:	Commander, 30th Space Wing		
Mailing Address:	747 Nebraska Ave Ste A200				
City:	Vandenberg AFB	State:	CA	Zip Code:	93437
Telephone:	(805) 606-3000	Fax:	(805) 606-7417		
Email:					

"Responsible Official" means one of the following:

1. For a corporation: a president, secretary, treasurer, or vice president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision making functions for the corporation, a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a Part 70 permit and either:
   a. The facilities employ more than 250 persons or have gross annual sales or expenditures exceeding $25,000,000 (in second quarter 1980 dollars); or
   b. The delegation of authority to such representatives is approved in advance by the District.
2. For a partnership or sole proprietorship: a general partner or the proprietor, respectively.
3. For a municipality, state, federal or other public agency: either a principal executive officer or ranking elected official. For the purposes of this rule, a principal executive officer of a federal agency includes the chief executive officer having responsibility for the overall operations of a principal geographic unit of the agency.
4. For acid rain sources:
   a. The designated representative in so far as actions, standards, requirements, or prohibitions under Title IV of the federal CAA or 40 CFR 72 are concerned; or
   b. The designated representative for any other purposes under Rules 1301 through 1305.

Table 2.1 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	NEI?	Current Permit
Primer Power Internal Combustion Engines															
525	525 Coast Rd	104867	818	Duetz	BF6L913	160	Diesel	0	NA	20	20	Pony Starter Engine	01-Jan-83	N	6117-R7
525	525 Coast Rd	104868	820	Duetz	BF6L913	160	Diesel	0	NA	20	20	Pony Starter Engine	01-Jan-83	N	6117-R7
525	525 Coast Rd	104869	821	Duetz	BF6L913	160	Diesel	0	NA	20	20	Pony Starter Engine	01-Jan-83	N	6117-R7
525	525 Coast Rd	104870	822	Duetz	BF6L913	160	Diesel	0	NA	20	20	Pony Starter Engine	01-Jan-83	N	6117-R7
525	525 Coast Rd	104871	823	Duetz	BF6L913	160	Diesel	0	NA	20	20	Pony Starter Engine	01-Jan-83	N	6117-R7
525	525 Coast Rd	006080	1286	Allison (GM)	501-KB	4090	NG	NA	NA	24	2326.4	Facility Power	19-Nov-90	Y	6117-R7
525	525 Coast Rd	006081	1287	Allison (GM)	501-KB	4090	NG	NA	NA	24	2326.4	Facility Power	19-Nov-90	Y	6117-R7
525	525 Coast Rd	006082	1288	Allison (GM)	501-KB	4090	NG	NA	NA	24	2326.4	Facility Power	19-Nov-90	Y	6117-R7
525	525 Coast Rd	006083	1289	Allison (GM)	501-KB	4090	NG	NA	NA	24	2326.4	Facility Power	19-Nov-90	Y	6117-R7
525	525 Coast Rd	006084	1290	Allison (GM)	501-KB	4090	NG	NA	NA	24	2326.4	Facility Power	19-Nov-90	Y	6117-R7
Emergency Standby Internal Combustion Engines															
10579	747 Nebraska Ave	107038	589	Cummins	KTTA19-G2	750	Diesel	0	NA	20	20	Emergency Stand-by Generator	01-Jan-98	N	11668-R1
1748	1748 Airfield Rd	107032	642	Cummins	6BT-5.9	166	Diesel	0	NA	20	20	Emergency Stand-by Generator	01-May-87	N	11668-R1
10525	723 Nebraska Ave	107003	697	Cummins	MT-855-G4	375	Diesel	0	NA	20	20	Emergency Stand-by Generator	04-Apr-89	N	11668-R1
10660	1160 New Mexico Ave	107004	698	Cummins	L634T-I/10148C	64	Diesel	0	NA	20	20	Emergency Stand-by Generator	01-Jan-88	N	11668-R1
11439	1172 Iceland Ave	107034	699	Cummins	6BT-5.9	166	Diesel	0	NA	20	20	Emergency Stand-by Generator	01-Jan-98	N	11668-R1
661	661 Santa Ynez Rd	107005	3009	Cummins	NT-855-G4	375	Diesel	0	NA	20	20	Emergency Stand-by Generator	01-Jan-93	N	11668-R1
1559	1559 Tonto Rd	107006	3050	Caterpillar	3406B	534	Diesel	0	NA	20	20	Emergency Stand-by Generator	01-Jan-96	N	11668-R1
13850	338 South Dakota Ave	107035	3061	Cummins	NT-855-G6	435	Diesel	0	NA	20	20	Emergency Stand-by Generator	01-Jun-98	N	11668-R1
1762	1762 13th St	107007	3183	Onan	6A3.4-G1	50	Diesel	0	NA	20	20	Emergency Stand-by Generator	01-Jan-01	N	11668-R1
1581	1581 Tangair Rd	107037	3315	Cummins	4B3.9	61	Diesel	0	NA	20	20	Emergency Stand-by Generator	01-Jul-86	N	11668-R1
830	830 Lompoc St	107000	3397	Cummins	KTA19-G3	685	Diesel	I	NA	20	20	Emergency Stand-by Generator	01-Jan-05	N	11668-R1
1561	1561 Tonto Rd	107031	3411	Caterpillar	3406	449	Diesel	0	NA	20	20	Emergency Stand-by Generator	01-Jan-05	N	11668-R1
12000	867 Washington Ave	107087	3185	Cummins	6CTAA8.3-G1	317	Diesel	I	YCEXL0505ACA	24	30	Emergency Stand-by Generator	01-Oct-99	N	11669-R1
2305	2305 33rd St	107143	655	Caterpillar	3306D1	231	Diesel	0	NA	0.5	34	Emergency Water Pump	01-May-94	N	11671-R1
23209	209 Bishop Rd	107144	706	Cummins	6BTA5.9-F2	130	Diesel	0	NA	0.5	34	Emergency Water Pump	01-May-92	N	11671-R1

Table 2.1 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	NEI?	Current Permit
968	968 Mesa Rd	107146	3024	Cummins	6BTA-5.9	244	Diesel	0	NA	0.5	34	Emergency Water Pump	01-Jan-00	N	11671-R1
968	968 Mesa Rd	107145	3025	Cummins	6BTA-5.9	244	Diesel	0	NA	0.5	34	Emergency Water Pump	01-Jan-00	N	11671-R1
1764	1764 13th St	106939	643	Caterpillar	D330	78	Diesel	0	NA	20	20	Emergency Stand-by Generator	Unknown	N	11672-R1
425	425 Arguello Rd	106942	3007	Detroit Diesel	10437305	230	Diesel	0	NA	20	20	Emergency Stand-by Generator	Unknown	N	11672-R1
501	501 Perry Rd	106943	3008	Detroit Diesel	10637305	330	Diesel	0	NA	20	20	Emergency Stand-by Generator	Unknown	N	11672-R1
906	906 Mesa Rd	106944	3012	Detroit Diesel	71237406	750	Diesel	0	NA	20	20	Emergency Stand-by Generator	Unknown	N	11672-R1
8510	1521 Iceland Ave	106946	3052	Caterpillar	3512STD	1592	Diesel	0	NA	20	20	Emergency Stand-by Generator	01-Jun-90	N	11672-R1
1639	1639 Tangair Rd	106948	3390	Detroit Diesel	8123-7305	850	Diesel	I	NA	20	20	Emergency Stand-by Generator	23-May-01	N	11672-R1
185	185 Honda Ridge Rd	107135	564	Caterpillar	3306BDI	314	Diesel	0	NA	24	30	Emergency Stand-by Generator	Unknown	N	11673-R1
185	185 Honda Ridge Rd	107136	567	Caterpillar	3306BDI	314	Diesel	0	NA	24	30	Emergency Stand-by Generator	Unknown	N	11673-R1
21150	150 Cotar Rd	107137	705	Detroit Diesel	80837405	540	Diesel	0	NA	24	30	Emergency Stand-by Generator	Unknown	N	11673-R1
1937	1937 El Rancho Rd	107088	3329	John Deere	6081AF001C	251	Diesel	I	1JDXL08.1008	24	30	Emergency Stand-by Generator	15-Nov-01	N	11674-R1
764	764 Napa Rd	107097	3540	Caterpillar	3456 DITA	685	Diesel	II	3CPXL15.8ESK	24	50	Emergency Stand-by Generator	19-Feb-04	N	11675-R1
1629	1629 Aero Rd	106998	3317	Cummins	KTA19-G4	755	Diesel	0	NA	20	20	Emergency Stand-by Generator	01-Jan-01	N	11676-R1
1618	1618 Aero Rd	106999	3318	Cummins	KTA19-G4	755	Diesel	0	NA	20	20	Emergency Stand-by Generator	01-Jan-01	N	11676-R1
1962	1962 Tow Rd	107067	3549	Cummins	6CTAA8.3G3	317	Diesel	II	4CEXL0505ACB	24	50	Emergency Stand-by Generator	04-Oct-04	N	11677-R1
1964	1964 Sercho Rd	107066	3550	Cummins	6CTAA8.3G3	317	Diesel	II	4CEXL0505ACB	24	50	Emergency Stand-by Generator	Unknown	N	11677-R1
1971	1971 Mina Rd	107065	3551	Cummins	6CTAA8.3G3	317	Diesel	II	4CEXL0505ACB	24	50	Emergency Stand-by Generator	24-Jul-04	N	11677-R1
1972	1972 Mina Rd	107064	3552	Cummins	6CTAA8.3G3	317	Diesel	II	4CEXL0505ACB	24	50	Emergency Stand-by Generator	Unknown	N	11677-R1
980	980 Mesa Rd	107068	3553	Cummins	QSM11-G1	395	Diesel	II	4CEXL0661AAD	24	50	Emergency Stand-by Generator	01-Oct-04	N	11677-R1
1768	1768 Cross Rd	107085	3573	Cummins	QSX15-G9 NR2	750	Diesel	II	4CEXL015.AAB	24	50	Emergency Stand-by Generator	01-Jul-04	N	11678-R1
23201	201 Bishop Rd	111125	3582	Cummins	4BT3.9-G4	99	Diesel	I	3CEXL0239AFA	24	30	Emergency Stand-by Generator	01-Sep-04	N	11679-R1
1917	1917 El Rancho Rd	107100	3548	Caterpillar	D3456	680	Diesel	II	4CPXL15.8ESK	24	50	Emergency Stand-by Generator	30-Jun-04	N	11680-R1
1980	1980 Oculto Rd	106399	3587	Cummins	6CTAA8.3-GS	299	Diesel	II	5CEXL0505ACB	8	50	Emergency Stand-by Generator	02-May-06	Y	11772-R1
2500	2500 Arizona Ave	107126	3181	Caterpillar	3508DITA	1200	Diesel	0	NA	24	30	Emergency Stand-by Generator	01-May-99	N	11810-R1
3000	3000 29th St	107127	3420	Caterpillar	3508B-DITA	1592	Diesel	I	NA	24	30	Emergency Stand-by Generator	01-Dec-01	N	11810-R1
1604	1604 Tangair Rd	108889	3626	Detroit Diesel	6063-HV35	490	Diesel	III	7DDXL14.0VLD	8	50	Emergency Stand-by Generator	11-Oct-07	Y	12133-R1

Table 2.1 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	NEI?	Current Permit
21203	203 Firefighter Rd	10936	3642	Cummins	QSX15-G9	755	Diesel	II	7CEXL015.AAB	8	100	Command Transmitter E/S	15-May-07	Y	12205
8401	1521 Utah Ave	110201	3747	Cummins	QSX15-G9	755	Diesel	II	7CEXL015.AAB	3	50	Emergency Stand-by Generator	12-Oct-07	Y	12330-R1
1965	1965 Parquee Rd	110364	3790	Cummins	QSL9-G2	364	Diesel	III	7CEXL0540.AAB	8	50	Emergency Stand-by Generator	28-Apr-08	Y	12356
1916	1916 El Rancho Rd	110696	3791	Caterpillar	C15 DITA	563	Diesel	III	7CPXL15.2ESK	24	50	Emergency Stand-by Generator	02-May-08	Y	12419
6510	85 13th St	110735	3815	Cummins	QSL9-G3	399	Diesel	III	8CEXL0540AAAB	24	50	Emergency Stand-by Generator	30-Oct-08	Y	12454
2520	2520 Nevada Ave	110738	3814	Cummins	QST30-G5	1490	Diesel	II	8CEXL030.AAD	8	50	Emergency Stand-by Generator	16-May-08	Y	12455
830	830 Lompoc St	111766	3906	Cummins	QST30-G5	1490	Diesel	II	8CEXL030.AAD	8	50	Emergency Stand-by Generator	13-Feb-09	Y	12793
1829	1829 Rhea Rd	107141	645	Caterpillar	3208	270	Diesel	0	NA	0.5	34	Emergency Water Pump	01-Jan-93	N	12810
1829	1829 Rhea Rd	107142	649	Caterpillar	3208	270	Diesel	0	NA	0.5	34	Emergency Water Pump	01-Jan-93	N	12810
1919	1919 El Rancho Rd	111769	3921	John Deere	4045DF120	67	Diesel	II	40CFR Part 60	24	50	Emergency Water Pump	30-Apr-08	Y	12820-R1
929	929 Wade Rd	111765	3927	Cummins	QSM11-G4	470	Diesel	III	8CEXL0661AAH	24	100	Command Transmitter E/S	09-Nov-09	Y	12843
12006	865 Washington Ave	112255	3928	Cummins	QSK60-G6 NR2	2922	Diesel	II	8CEXL060.AAD	24	50	Emergency Stand-by Generator	10-Aug-09	Y	12916
12006	865 Washington Ave	112256	3929	Cummins	QSK60-G6 NR2	2922	Diesel	II	8CEXL060.AAD	24	50	Emergency Stand-by Generator	10-Aug-09	Y	12916
7425	386 10th St	112253	3936	Cummins	6TC8.3-G2	207	Diesel	I	N/A	7.5	600	Generator	11-Feb-09	Y	12922
383	383 Lunar Rd	112688	3976	Cummins	QSL9-G2 NR3	364	Diesel	III	9CEXL0540AAB	24	50	Emergency Stand-by Generator	15-Dec-09	Y	13223
1747	390 Airfield Rd	112689	3639	Cummins	QSX15-G9	755	Diesel	II	7CEXL015.AAB	24	50	Emergency Stand-by Generator	12-Apr-10	Y	13224
64	Oak Mountain	112818	3980	Cummins	QST30-G5	1490	Diesel	II	ACEXL030.AAD	8	50	Emergency Stand-by Generator	17-Jun-10	Y	13271
NA	Various Locations	113280	4010	Cummins	QSB5-G3 NR3	145	Diesel	III	9CEXL0275AAG	8	50	Emergency Stand-by Generator	08-Oct-11	Y	13376
NA	Various Locations	113281	4011	Cummins	QSB5-G3 NR3	145	Diesel	III	9CEXL0275AAG	8	50	Emergency Stand-by Generator	08-Oct-11	Y	13376
NA	Various Locations	113282	4012	Cummins	QSB5-G3 NR3	145	Diesel	III	9CEXL0275AAG	8	50	Emergency Stand-by Generator	08-Oct-11	Y	13376
NA	Various Locations	113283	4013	Cummins	QSB5-G3 NR3	145	Diesel	III	9CEXL0275AAG	8	50	Emergency Stand-by Generator	08-Oct-11	Y	13376
NA	Various Locations	133284	4014	Cummins	QSB5-G3 NR3	145	Diesel	III	9CEXL0275AAG	8	50	Emergency Stand-by Generator	08-Oct-11	Y	13376
1594	1594 Tangair Rd	113003	4039	John Deere	6068HF485	315	Diesel	III	7JDXL06.8101	8	50	Emergency Stand-by Generator	Unknown	Y	13405
1735	325 Airfield Rd	113916	4109	Volvo	TAD1641GE	757	Diesel	II	BVPXL16.1ACB	8	50	Emergency Stand-by Generator	20-Sep-11	Y	13672
8195	1522 Nevada Ave.	113917	4116	Cummins	QSL9-G2 NR3	364	Diesel	III	ACEXL0540AAB	8	50	Emergency Stand-by Generator	18-Aug-11	Y	13681
8317	344 8th Street	114377	4123	Cummins	QSB7-G3 NR3	250	Diesel	III	BCEXL0409AAB	8.0	50.0	Emergency Stand-by Generator	26-Mar-12	Y	13754
6253	137 13th St	114383	4286	Cummins	QSK23-G7 NR2	1220	Diesel	II	BCEXL050.AAD	2	50	Emergency Stand-by Generator	Pending	Y	13763

Table 2.1 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	NEI?	Current Permit
511	511 CDT Access Rd	114491	4005	Cummins	QSX15-G9-NR2	755	Diesel	II	ACEXL015.AAJ	24	100	Command Transmitter E/S	2011	Y	13847
12000	867 Washington Ave	114696	4268	Caterpillar	C27	1,141	Diesel	II	BCPXL27.ONZS	8	50	Emergency Stand-by Generator	2012	Y	13886
529	529 Coast Road	114779	4297	Cummins	QST30-GN5-NR2	1,490	Diesel	II	ACEXL030.AAD	10	40	Emergency Stand-by Generator	2012	Y	13945

NA = Not Applicable
NG = Natural Gas

Table 2.2 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	NEI?	Current Permit
836	836 Lompoc St	111100	3872	Parker Boiler	T2160L	2.16	NG	Biannual	Dedicated	No	30	400	361	No	May/Nov	25-Jun-08	Y	12640
836	836 Lompoc St	111101	3873	Parker Boiler	T2160L	2.16	NG	Biannual	Dedicated	No	30	400	361	No	May/Nov	25-Jun-08	Y	12640
836	836 Lompoc St	111713	3049	Kewanee	L3W-125-G	4.184	NG	Annual	Shared	No	30	400	361	No	May	01-Jan-94	N	12658-01
980	980 Mesa Rd	111714	1024	Ajax	WGFD-2500	2.5	LPG	None	No Meter	No	NA	NA	361	Annual	TBD	01-Jan-92	N	12659-R1
1819	1819 New South Rd	111722	3124	Industrial Boiler	PFDL50GAS	2.1	LPG	None	No Meter	No	NA	NA	361	No	NA	01-Jan-98	N	12661-R1
2520	2520 Nevada Ave	111723	3169	Ajax	WPG5000	4.995	NG	None	Shared	No	NA	NA	361	No	NA	01-Jun-97	N	12662-R1
2520	2520 Nevada Ave	111724	3170	Ajax	WPG5000	4.995	NG	None	Shared	No	NA	NA	361	No	NA	01-Jun-97	N	12662-R1
7425	386 10th St	111731	1052	Ajax	WGB-2250-D	2.25	NG	None	Dedicated	No	NA	NA	361	No	NA	01-Jan-83	N	12665-R1
7437	1556 New Mexico Ave	111757	3174	DeVilbis	ARG-42-1	4.4	NG	None	No Meter	No	NA	NA	361	No	NA	01-Dec-89	N	12666
10711	433 Herado Ave	111748	3888	Hastings Industries	SBD-227-32-3700	3.7	NG	None	No Meter	No	NA	NA	361	No	NA	01-Sep-92	N	12672-R1
13137	Nebraska and Kansas Ave	111749	1117	Raypak	H3-1125A-CCCRCAA	1.125	NG	None	Dedicated	No	NA	NA	360	No	NA	01-Jan-95	N	12673-R1
13137	Nebraska and Kansas Ave	111750	1118	Raypak	H-3-1125A-CCCRCAA	1.125	NG	None	Dedicated	No	NA	NA	360	No	NA	01-Jan-75	N	12673-R1
13850	338 South Dakota Ave	111753	3729	Lochinvar	IBN2000	1.99	NG	Annual	Shared	No	30	400	360	No	Jan	01-Jan-05	N	12675-R1
13850	338 South Dakota Ave	111754	3730	Lochinvar	IBN2000	1.99	NG	Annual	Shared	No	30	400	360	No	Jan	01-Jan-05	N	12675-R1
13850	338 South Dakota Ave	111755	3731	Lochinvar	IBN2000	1.99	NG	Annual	Shared	No	30	400	360	No	Jan	01-Jan-05	N	12675-R1
23225	225 Bishop Rd	111756	1153	Ajax Boiler	WGGFD-4250	4.25	NG	None	No Meter	No	NA	NA	361	No	NA	01-Jan-92	N	12676
23225	225 Bishop Rd	111874	1154	Ajax Boiler	WGGFD-4250	4.25	NG	None	No Meter	No	NA	NA	361	No	NA	01-Jan-92	N	12676
6523	137 13th St	111779	3204	Parker	T2970L	2.97	NG	Biannual	Dedicated	No	30	400	361	No	May/Nov	01-Jan-99	N	12739
7000	816 13th St	111844	3934	Camus DynaFlame	DFNH-4500	4.5	NG	Biannual	Shared	No	30	400	361	No	Apr/Nov	03-Dec-08	Y	12896
7000	816 13th St	111845	3935	Camus DynaFlame	DFNH-4500	4.5	NG	Biannual	Dedicated	No	30	400	361	No	Apr/Nov	03-Dec-08	Y	12896
12006	865 Washington Ave	112251	3930	Aerco	BMK-2.0LN	2	NG	Annual	Dedicated	No	30	400	360	No	August	24-Aug-09	Y	12917
12006	865 Washington Ave	112252	3931	Aerco	BMK-2.0LN	2	NG	Annual	Dedicated	No	30	400	360	No	August	24-Aug-09	Y	12917
3000	3000 29th St	111712	3043	Ajax	MPG2500	2.499	NG	Biannual	Shared	No	30	400	361	No	Apr/Dec	01-Jan-98	N	13267
3000	3000 29th St	111758	3044	Ajax	MPG2500	2.499	NG	Biannual	Shared	No	30	400	361	No	Apr/Dec	01-Jan-98	N	13267
8510	1521 Iceland Ave	112964	3996	Patterson-Kelley	N2000-MFD	2	NG	Annual	Shared	No	30	400	360	No	Mar	30-Mar-10	Y	13329
8510	1521 Iceland Ave	112965	3997	Patterson-Kelley	N2000-MFD	2	NG	Annual	Shared	No	30	400	360	No	Mar	30-Mar-10	Y	13329

Table 2.2 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	NEI?	Current Permit
7025	1602 California Blvd	113533	3283	Lochnivar	CBN1255	1.255	NG	None	Shared	No	NA	NA	360	No	NA	01-Jan-00	N	13349
7025	1602 California Blvd	113534	3284	Lochinvar	CBN1255	1.255	NG	None	Shared	No	NA	NA	360	No	NA	01-Jan-00	N	13349
13330	781 "N" St	113919	4099	Parker Boiler Co.	40L	1.68	NG	Annual	Shared	No	30	400	360	No	NA	Pending	Y	13624
13330	781 "N" St	113918	4100	Parker Boiler Co.	40L	1.68	NG	Annual	Shared	No	30	400	360	No	NA	Pending	Y	13624
7523	156 10th Street	113920	4060	Raypak	H7-2003	1.999	NG	Annual	Shared	No	30	400	360	No	Apr	02-Apr-12	Y	13680
7523	156 10th Street	113921	4061	Raypak	H7-2003	1.999	NG	Annual	Shared	No	30	400	360	No	Apr	02-Apr-12	Y	13680
1900	1900 North Rd	114600	4117	Camus DynaFlame	DFPH 4000	4	LPG	TBD	Shared	No	30	400	361	TBD	TBD	26-Mar-12	Y	13753
1900	1900 North Rd	114601	4118	Camus DynaFlame	DFPH 4000	4	LPG	TBD	Shared	No	30	400	361	TBD	TBD	26-Mar-12	Y	13753
1900	1900 North Rd	114602	4119	Camus DynaFlame	DFPH 4000	4	LPG	TBD	Shared	No	30	400	361	TBD	TBD	26-Mar-12	Y	13753
1900	1900 North Rd	114603	4120	Camus DynaFlame	DFPH 4000	4	LPG	TBD	Shared	No	30	400	361	TBD	TBD	26-Mar-12	Y	13753

NA = Not Applicable
NG = Natural Gas
LPG = Liquefied Propane Gas
TBD = To Be Determined

Table 2.3 Spray Paint Booths

Building Number	Equipment Location	Device No.	Operator ID	Booth Filter Type	Spray Gun Cleaner?	Booth Heater	Emissions		Year of Install	NEI?	Current Permit
							lb/day	ton/year			
831	831 Clark St	105841	4174	Overspray Filters	Yes - OID 4130	No	11.2	0.55	10-Dec-91	Y	8350-R6
11438	1170 Iceland Ave	107924	1605	Water Wash Overspray System	Yes - OID 4133	No	24.85	3.23	1-Jan-78	N	8362-R7
7437	1556 New Mexico Ave	6195	PSB01	Dry Overspray Filters	Yes - OID SK002	No	7.6	0.49	1-Jan-69	N	8433-R7
875	875 Sweeney Rd	6096	1598	Overspray Filters	Yes - OID 4157	No	5.61	0.73	5-Dec-91	Y	8580-R5
9320	334 6th St	105846	1591	Water Wash Overspray System	Yes - OID 4129	No	2.4	0.31	23-Jan-83	N	8629-R6
9320	334 6th St	105847	1592	Overspray Filters	Yes - OID 4129	No	2.4	0.31	23-Jan-83	N	8629-R6
1800	150 Taurus Rd	6100	1600	Dry Overspray Filters	Yes - OID 4134	No	7.76	1.01	9-Dec-91	N	8630-R7
1620D	1620 Aero Rd	105785	1599	Water Curtain Overspray Control	Yes - OID 3581	No	12.23	0.88	21-Oct-92	N	8914-R7
10711	433 Herado Ave	107930	1604	Dry Overspray Filters	Yes - OID 3632	Yes - OID 3888	11.26	1.47	9-Mar-93	N	8932-R5
8190	1580 Nevada Ave	105649	1603	Overspray Filters	No	Yes - OID 4106	9.36	1.21	16-Oct-93	N	9088-R4
9327	1346 New Mexico Ave	113676	4096	Rear Exhaust Plenum	Yes - OID 4101	Yes	9.36	1.22	14-Feb-11	Y	13493

OID = Operator ID

Table 2.4 Other Operations

Building Number	Equipment Location	Device No.	Operator ID	Device Type	Hourly Limit	Daily Limit	Quarterly Limit	Annual Limit	Units	Year of Installation	NEI?	Current Permit
976/977	976 Mesa Rd	006925	4172	Scrubber (FVSS); Aerozine-50 Fuel	NA	23.04	NA	100	lbs	1991	Y	7987-R5
974/975	974 Mesa Rd	006926	4173	Scrubber (OVSS); Nitrogen Tetroxide	NA	62.16	NA	440	lbs	1991	Y	7988-R5
SLC-2	1623 Tangier Rd	006223	2067	#1 Scrubber; A-50; Emitting Device for AST	NA	NA	NA	6400	gallon	01-Jan-00	Y	8658-R5
SLC-2	1623 Tangier Rd	006223	2069	#2 Scrubber; Nitrogen Tetroxide; Emitting Device for AST	NA	NA	NA	7550	gallon	01-Jan-00	Y	8658-R5
SLC-2	1623 Tangier Rd	104469	2068	AST; Kerosene; 15,000 Gallons	NA	NA	NA	114000	gallon	01-Jan-00	Y	8686-R4
1705	173 Airfield Rd	109898	1987	Bulk Fuel Storage Facility; JP-8	NA	NA	NA	2040000	gallon	1992	Y	8688-R4
22397	Gate G21 on Highway 1	007602	345	Degasifier; H2S - Wells 5 & 6	NA	3000000	NA	NA	gallon	13-Sep-07	N	8766-R5
22404	Gate G21 on Highway 1	007602	347	Degasifier; H2S - Wells 4 & 7	NA	3000000	NA	NA	gallon	01-Jul-07	N	8766-R5
5500	Various Delta II Locations	114257	VOC003	Miscellaneous Solvent Usage – Delta II	NA	24	NA	6336	lbs	<1999	N	10155-R2
5500	Various Locations	114277	HAZMART	Miscellaneous Solvent Usage	NA	24	NA	6336	Lbs	<1999	N	10156-R2
14400	1107 Utah Ave	009167	3415	AAFES Gasoline Dispensing Facility	NA	NA	NA	4800000	gallon	12-Jan-07	Y	10791
9320	334 6th St	009890	1859	Abrasive Blasting Operations	NA	2.4	NA	250	ton	Unknown	N	10867-R2
7438	350 10th St	110180	2703	Abrasive Blasting Operations	NA	4.8	NA	300	ton	27-Dec-65	N	10900-R2
5500	Various Locations	110309	HAZMART2	Miscellaneous Solvent Usage	NA	22.73	500	2000	Lbs	Oct 2004	Y	11143-R1
1800	150 Taurus Rd	107916	3599	Abrasive Blasting Operations	NA	2	NA	500	ton	09-Oct-10	N	12155
10726	442 Washington Ave	109369	434	Military Gasoline Dispensing Facility	NA	NA	NA	1200000	gallon	Unknown	Y	12233
9320	334 6th St	110229	3907	Abrasive Blasting Operations	NA	6.64	NA	1726	ton	17-Jun-08	N	12346
10726	442 Washington Ave	107919	3508	E-85 GDF with Phase 1 VRS	NA	NA	NA	1200000	gallon	2003	N	13139
SLC-2	1623 Tangier Rd	113065	4054	Fuel Scrubber System; A-50	NA	NA	NA	6400	gallon	01-Sept-10	Y	13416
SLC-2	1623 Tangier Rd	113079	4055	Oxidizer Scrubber System; N2O4	NA	NA	NA	7550	gallon	01-Sept-10	Y	13416
NA	Various Locations	113616	3417	Microwave Reactor System for Hypergolic Fuel Vapors	NA	NA	NA	2	event	06-Aug-06	N	13537
NA	Various Locations	113621	3418	Microwave Reactor System for Hypergolic Oxidizer Vapors	NA	NA	NA	2	event	06-Aug-06	N	13537
1701	173 Airfield Rd	113960	4147	Bulk Fuel Storage Facility; RP-1	NA	NA	NA	NA	gallon	1965	Y	13657
9505	180 Landfill Rd	TBD	3399	Landfill Gas	NA	NA	NA	NA	NA	01-Jan-41	N	TBD

NA = Not Applicable

Table 3.1 Internal Combustion Engines

Building Number	Equipment Location	Operator ID	Make	Model	EPA Family Name/Tier	Rating (bhp)	Fuel	Category	Basis for Exemption
Stationary									
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	D2300	0	45	Diesel	Emergency Stand-by Generator	202.F.1.e
14300	135 Wyoming	765	Ford	LSG-4231-6005-F	NA	57	LPG	Emergency Stand-by Generator	202.F.1.d
13675	108 Colorado Ave	766	Ford	CSG-6491-6005-F	NA	90	LPG	Emergency Stand-by Generator	202.F.1.d
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
8310	351 8th St	869	Ford	LSG-4231-6005F	NA	50	LPG	Emergency Stand-by Generator	202.F.1.d
1555	1555 Talo Rd	3015	Perkins	CM33531	0	38	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
6523	137 13th St	3020	Cummins	6A3.4-G1	0	41	Diesel	Emergency Stand-by Generator	202.F.1.e
8510	1521 Iceland Ave	3053	Generac	93A013955	NA	170	NG	Emergency Stand-by Generator	202.F.1.d
SLC-3	759 Napa Rd	3054	Cummins	25DKAF	0	42	Diesel	Emergency Stand-by Generator	202.F.1.e
51	51 Station Rd	3063	Ford	LSG87516005A	NA	104	LPG	Emergency Stand-by Generator	202.F.1.d
856	856 Arguello Rd	3065	GM	5.7 L	NA	56	LPG	Emergency Stand-by Generator	202.F.1.d
3250	3250 29th St	3067	Ford	CSG-4691-6005-F	NA	77	LPG	Emergency Stand-by Generator	202.F.1.d
6670	1655 Utah Ave	3068	GM	7.4 L	NA	173	NG	Emergency Stand-by Generator	202.F.1.d
863	863 Arguello Rd	3070	GM	3.0 L	NA	25	LPG	Emergency Stand-by Generator	202.F.1.f
865	865 Arguello Rd	3072	Ford	CSG-6491-6005-A	NA	77	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
11477	1273 Utah Ave	3187	Lister	3600216LV	0	12	Diesel	Emergency Stand-by Generator	202.F.1.e
1524	Off Tangier and Shuttle Access Rds	3190	Lister	VL51.9V6DZRB	0	19	Diesel	Emergency Stand-by Generator	202.F.1.e
6601	1785 Utah Ave	3198	Ford	EK-CSG 649	NA	24	LPG	Emergency Stand-by Generator	202.F.1.d
1758	1758 Airfield Rd	3199	GM	7.4L	NA	81	LPG	Emergency Stand-by Generator	202.F.1.d
866	866 Arguello Rd	3278	Lister	PWG3474	NA	27	LPG	Emergency Stand-by Generator	202.F.1.d
799	799 Coast Rd	3279	Ford	LSG-8751-6005A	NA	104	NG	Emergency Stand-by Generator	202.F.1.d

Table 3.1 Internal Combustion Engines

Building Number	Equipment Location	Operator ID	Make	Model	EPA Family Name/Tier	Rating (bhp)	Fuel	Category	Basis for Exemption
6601	1785 Utah Ave	3396	Generac	7.4L	NA	173	LPG	Emergency Stand-by Generator	202.F.1.d
809	809 Santa Ynez Ridge Rd	3416	Ford	CSG-6491-6005-A	NA	76.5	LPG	Emergency Stand-by Generator	202.F.1.d
1871	1871 Star Rd	3464	Cummins	GTA 855B	NA	354	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
6819	6819 Missile Loop	3597	Kubota	F2803-BG-ES	4KBXL02.8BCC/I	45	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
23160	160 Grant Rd	3605	Kubota	F2803-BG-ES	4KBXL02.8BCC/II	44.8	Diesel	Emergency Stand-by Generator	202.F.1.e
1737	340 Airfield Rd	3804	Cummins	LPW4	0	18	Diesel	Emergency Stand-by Generator	202.F.1.e
490	490 Arguello Rd	3914	Kubota	F2803-BG-ES02	0	44.8	Diesel	Emergency Stand-by Generator	202.F.1.e
SLC-3	759 Napa Rd	3932	Kabota Cummins	F2803-BG-ES	5KBXL02.8BCC/II	42	Diesel	Emergency Stand-by Generator	202.F.1.e
13730	127 Colorado Ave	3952	Mitsubishi	SDS8450	NA	95	LPG	Emergency Stand-by Generator	202.F.1.d
1740	359 Airfield Rd	4003	Ford	ESG642	NA	77	LPG	Emergency Stand-by Generator	202.F.1.d
1530	1530 Rollo Rd	4067	Cummins	GGMC-7530039	NA	55	LPG	Emergency Stand-by Generator	202.F.1.d
1841	1841 Rhea Rd	4113	Kubota	D1703	I-IV	25	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
Portable									
NA	Various Locations	591	Onan	DJC	0	22	Diesel	Generator	202.F.1.e
NA	Various Locations	592	Onan	DJC	0	22	Diesel	Generator	202.F.1.e
NA	Various Locations	593	Onan	DJC	0	22	Diesel	Generator	202.F.1.e
NA	Various Locations	594	Onan	DJC	0	22	Diesel	Generator	202.F.1.e
NA	Various Locations	595	Onan	DJC	0	22	Diesel	Generator	202.F.1.e
NA	Various Locations	596	Onan	DJC	0	22	Diesel	Generator	202.F.1.e
10711	433 Herado Ave	762	Teledyne Continental	TMD-20	0	32.5	Diesel	Generator	202.F.1.e
3000	3000 29th St	3047	Onan	12.5JC18R	0	30	Gasoline	Generator	202.F.1.f
3000	3000 29th St	3180	Onan	336782725DKAF	YJDXL06.8014	35	Diesel	Generator	202.F.1.e
8425	1411 Utah Ave	3193	Isuzu	C240	0	30	Diesel	Generator	202.F.1.e

Table 3.1 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	3194	Isuzu	C240	0	30	Diesel	Generator	202.F.1.e
1620C	1620 Aero Rd	3316	Teledyne Continental	TM 20	0	38	Gasoline	Generator	202.F.1.c
10711	433 Herado Ave	3320	Kohler	CH20QS	0	20	Gasoline	Air Compressor	202.F.1.f
9320	334 6th St.	3328	Perkins	3.1524	NA	42	Diesel	Other	202.F.1.e
12000	867 Washington Ave	3394	Onan	DNAE 4493833	0	16	Diesel	Generator	202.F.1.e
1755	400 Airfield Rd	3421	Pacific Consolidation	SGNSC	0	49	Diesel	Self Generating Nitrogen Cart	202F.1.e
12000	867 Washington Ave	3558	Onan	DNAE 4493833	0	16	Diesel	Generator	202.F.1.e
12000	867 Washington Ave	3559	Onan	DNAE 4493833	0	16	Diesel	Generator	202.F.1.e
5425	2010 20th St	3602	Kawaski	BWT 200	0	23	Gasoline	Maintenance Equipment	202.F.1.c
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	IV	49	Diesel	Air Compressor	202.F.1.e
525	525 Coast Rd	4022	John Deere	4024TF281	IV	49	Diesel	Air Compressor	202.F.1.e
525	525 Coast Rd	4023	John Deere	4024TF281	IV	49	Diesel	Air Compressor	202.F.1.e
525	525 Coast Rd	4024	John Deere	4024TF281	IV	49	Diesel	Air Compressor	202.F.1.e
3000	3000 29th St	4072	Kubota	D1503-M-BG-ET02e	9KBXL01.5FCC/IV	24	Diesel	Generator	202.F.1.e
3000	3000 29th St	4073	Kubota	D1503-M-BG-ET02e	9KBXL01.5FCC/IV	24	Diesel	Generator	202.F.1.e
NA	Various Locations	4161	DEUTZ	F2L511D	0	28.5	Diesel	Generator	202.F.1.e
NA	Various Locations	4162	DEUTZ	F2L511D	0	28.5	Diesel	Generator	202.F.1.e
NA	Various Locations	4163	DEUTZ	F2L511D	0	28.5	Diesel	Generator	202.F.1.e
SLC-2	Various Locations	688	John Deere	4329TF	0	109	Diesel	Air Compressor	PERP - RN 102410
NA	Various Locations	3087	Caterpillar	3306B	WCPXL10.5MRF/I	220	Diesel	Air Compressor	PERP - RN 102413
9320	334 6th St.	3326	Cummins	B3.9-C	1CEXL0239ACA	116	Diesel	Air Compressor	PERP – RN 114613
9320	334 6th St.	3327	Cummins	B3.9-C	1CEXL0239ACA	116	Diesel	Air Compressor	PERP – RN 114614

Table 3.1 Internal Combustion Engines

Building Number	Equipment Location	Operator ID	Make	Model	EPA Family Name/Tier	Rating (bhp)	Fuel	Category	Basis for Exemption
3000	3000 29th St	3391	John Deere	6068TF150	YJDXL06.8014/1	150	Diesel	Generator	PERP - RN 114872
NA	Various Locations	3496	Isuzu	A-4JG1	2SZXL03.1CNC/I	50	Diesel	Generator	PERP - RN 117921
533	533 Coast Rd	3501	John Deere	4045TF150	2JDXL06.8014/I	115	Diesel	Air Compressor	PERP - RN 117353
533	533 Coast Rd	3502	John Deere	4045TF150	2JDXL06.8014/I	115	Diesel	Air Compressor	PERP - RN 117354
533	533 Coast Rd	3503	John Deere	4045TF150	2JDXL06.8014/I	115	Diesel	Air Compressor	PERP - RN 117355
533	533 Coast Rd	3504	John Deere	4045TF150	2JDXL06.8014/I	115	Diesel	Air Compressor	PERP - RN 117356
533	533 Coast Rd	3505	John Deere	4045TF150	2JDXL06.8014/I	115	Diesel	Air Compressor	PERP - RN 117357
533	533 Coast Rd	3506	John Deere	4045TF150	2JDXL06.8014/I	115	Diesel	Air Compressor	PERP - RN 117358
3000	3000 29th St	3516	Duetz	BF4M1013E	2DZXL07.1005/I	119	Diesel	Generator	PERP - RN 120369
3000	3000 29th St	3517	Duetz	BF4M1013E	2DZXL07.1005/1	119	Diesel	Generator	PERP - RN 120370
NA	Various Locations	3546	Cummins	B.3.3	1CEXL03.3AAB/I	85	Diesel	Wood Chipper	PERP - RN 123539
3000	3000 29th St	3742	Isuzu	BB-4JGIT	5SZXL03.1GTB/II	55	Diesel	Generator	PERP - RN 132820
525	525 Coast Rd	3806	Isuzu	BB-4JG1T	6SZXL03.1GTB/II	65	Diesel	Generator	PERP - RN 146504
3000	3000 29th St	3912	Cummins	QSC 8.3	7CEXL0505AAE/III	260	Diesel	Generator	PERP - RN 141898
3000	3000 29th St	3913	Cummins	QSC 8.3	7CEXL0505AAEE/III	260	Diesel	Generator	PERP - RN 141899
3000	3000 29th St	3949	Duetz	TCD2013L042V	8DZXL04.8064/III	172	Diesel	Generator	PERP - RN 144722
3000	3000 29th St	3950	Duetz	TCD2013L042V	8DZXL04.8064/III	172	Diesel	Generator	PERP - RN 144723
NA	Various Locations	3979	Duetz	BF4M1012C	XDZXL04.8006/I	91	Diesel	Generator	PERP - RN 117705
3000	3000 29th St	3982	Isuzu	BU-4JJ1T	8SZXL03.0UTB/IV	57	Diesel	Generator	PERP - RN 146503
NA	Various Locations	3985	John Deere	6068HF485	8JDXL06.8101/III	315	Diesel	Generator	PERP - RN 146695
NA	Various Locations	4015	John Deere	4045TF280	9JDXL04.5112/III	80	Diesel	Water Pump	PERP - RN 149555
NA	Various Locations	4016	John Deere	4045TF280	9JDXL04.5112/III	80	Diesel	Water Pump	PERP - RN 149556
NA	Various Locations	4017	John Deere	4045TF280	9JDXL04.5112/III	80	Diesel	Water Pump	PERP - RN 149557
NA	Various Locations	4018	John Deere	4045TF280	9JDXL04.5112/III	80	Diesel	Water Pump	PERP - RN 149558
525	525 Coast Rd	4037	John Deere	4045HF285	8JDXL06.8105/III	139.5	Diesel	Air Compressor	PERP - RN 152132
9320	334 6th St	4095	Caterpillar	C4.4	APKXL04.4NJ1/III	130	Diesel	Air Compressor	PERP - RN 153516

Table 3.1 Internal Combustion Engines

Building Number	Equipment Location	Operator ID	Make	Model	EPA Family Name/Tier	Rating (bhp)	Fuel	Category	Basis for Exemption
9320	334 6th St	4097	Caterpillar	C4.4	APKXL04.4NJ1/III	130	Diesel	Air Compressor	PERP - RN 153517
8425	1411 Utah Ave	4124	Isuzu	BH-6UZ1X	ASZXL09.8HXB/III	349	Diesel	Generator	PERP - RN 154640
10715	416 Washington Ave.	4294	Caterpillar	C2.2	BH3XL2.22N4T	60	Diesel	Other	PERP – RN 157631
533	Various Locations	4306	John Deere	6068HF485T	AJDXL06.8115	315	Diesel	Generator	PERP – RN 158387
NA	Various Locations	4307	Cummins	QSC	ACEXL0505AAE	260	Diesel	Air Compressor	PERP – RN 158388
Laguna Peak	Various Locations	4076	Isuzu	BJ-4JJ1X	ASZXL03.0JXB	97.9	Diesel	Generator	PERP RN 154642
Laguna Peak	Various Locations	4077	Isuzu	BJ-4JJ1X	ASZXL03.0JXB	97.9	Diesel	Generator	PERP RN 154641
1746 and Flightline	Various Locations	ICE02	Garrett	GTCP85-180C	NA	100	JP-8	Turbine Compressor - Aircraft Engine Starting	TSE - RN 101091
LF - Various	Various Locations	549	Cummins	6BT5.9	0	166	Diesel	Generator	TSE - RN 101091
LF - Various	Various Locations	551	Cummins	6BT5.9	0	166	Diesel	Generator	TSE - RN 101091
LF - Various	Various Locations	552	Cummins	6BT5.9	0	166	Diesel	Generator	TSE - RN 101091
LF - Various	Various Locations	554	Cummins	6BT5.9	0	166	Diesel	Generator	TSE - RN 101091
NA	Various Locations	558	Duetz	F4L912	0	80	Diesel	Air Compressor	TSE - RN 101091
LF - Various	Various Locations	684	Cummins	6BT5.9	0	166	Diesel	Generator	TSE - RN 101091
LF - Various	Various Locations	694	Cummins	6BT5.9	0	166	Diesel	Generator	TSE - RN 101091
LF - Various	Various Locations	695	Cummins	6BT5.9	0	166	Diesel	Generator	TSE - RN 101091
8425	1411 Utah Ave	696	Cummins	NT855G3	0	390	Diesel	Generator	TSE - RN 101091
8425	1411 Utah Ave	708	Caterpillar	5R5635 (MEP-007B)	0	148	Diesel	Generator	TSE - RN 101091
8425	1411 Utah Ave	724	Cummins	NT-855-G3	0	390	Diesel	Generator	TSE - RN 101091
1746 and Flightline	Various Locations	2055	Garrett	GTCP85-180C	NA	100	JP-8	Turbine Compressor - Aircraft Engine Starting	TSE - RN 101091
8425	1411 Utah Ave	3027	Cummins	NT-855-63 (MEP-009B)	0	390	Diesel	Generator	TSE - RN 101091
8425	1411 Utah Ave	3031	Allis Chalmers	3500A	0	121	Diesel	Generator	TSE - RN 101091
8425	1411 Utah Ave	3035	John Deere	6059T	0	80	Diesel	Generator	TSE - RN 101091
8425	1411 Utah Ave	3036	John Deere	6059T	0	80	Diesel	Generator	TSE - RN 101091
8425	1411 Utah Ave	3037	John Deere	6059T (MEP-806A)	0	80	Diesel	Generator	TSE - RN 101091
8425	1411 Utah Ave	3038	John Deere	6059T (MEP-806A)	0	80	Diesel	Generator	TSE - RN 101091

Table 3.1 Internal Combustion Engines

Building Number	Equipment Location	Operator ID	Make	Model	EPA Family Name/Tier	Rating (bhp)	Fuel	Category	Basis for Exemption
7501	172 10th St	3419	John Deere	4045DF150	I	80	Diesel	Air Compressor	TSE - RN 101091
Flightline	Various Locations	3613	Hollingsworth	A/M32A-86D	0	148	Diesel	Generator	TSE - RN 101091
Flightline	Various Locations	3614	Hollingsworth	A/M32A-86D	0	148	Diesel	Generator	TSE - RN 101091
Flightline	Various Locations	3615	Hollingsworth	A/M32A-86D	0	148	Diesel	Generator	TSE - RN 101091
Flightline	Various Locations	3616	Hollingsworth	A/M32A-86D	0	148	Diesel	Generator	TSE - RN 101091
Flightline	Various Locations	3617	Hollingsworth	A/M32A-86D	0	148	Diesel	Generator	TSE - RN 101091
Flightline	Various Locations	3618	Hollingsworth	A/M32A-86D	0	148	Diesel	Generator	TSE - RN 101091
12000	867 Washington Ave	3644	John Deere	MEP-806B	0	134	Diesel	Generator	TSE - RN 101091
7425	386 10th St	3735	John Deere	3029TF270D	0	64	Diesel	Air Compressor	TSE - RN 101091
7425	386 10th St	3736	John Deere	3029TF270D	0	64	Diesel	Air Compressor	TSE - RN 101091
12000	867 Washington Ave	3808	Yanmar	40E0RZD	0	82	Diesel	Generator	TSE - RN 101091
12000	867 Washington Ave	3809	Yanmar	40E0RZD	0	82	Diesel	Generator	TSE - RN 101091
8425	1411 Utah Ave	3817	Caterpillar	3126	III	216	Diesel	Generator	TSE - RN 101091
8425	1411 Utah Ave	3818	Caterpillar	3126	III	216	Diesel	Generator	TSE - RN 101091
8314	374 8th St	3820	John Deere	3029TF27OD	0	56	Diesel	Generator	TSE - RN 101091
8314	374 8th St	3821	John Deere	3029TF27OD	0	56	Diesel	Generator	TSE - RN 101091
10717	430 Washington Ave	3889	John Deere	4045DF150	0	54	Diesel	Air Compressor	TSE - RN 101091
10717	430 Washington Ave	3892	John Deere	4045DF150B	2JDXL06.8046	78	Diesel	Air Compressor	TSE - RN 101091
10717	430 Washington Ave	3893	John Deere	4045TF275	0	102	Diesel	Sweeper, 2nd Engine	TSE - RN 101091
10717	430 Washington Ave	3894	John Deere	4045TF270	5JDXL04.5083	99	Diesel	Sweeper, 2nd Engine	TSE - RN 101091
10717	430 Washington Ave	3898	John Deere	3105	0	67.5	Diesel	Water Pump	TSE - RN 101091
10717	430 Washington Ave	3900	John Deere	4039DF001	0	80	Diesel	Water Pump	TSE - RN 101091
10717	430 Washington Ave	3901	John Deere	4039DF001	0	80	Diesel	Water Pump	TSE - RN 101091
10715	416 Washington Ave	3902	John Deere	4045DF150B	3JDXL04.5060	78	Diesel	Air Compressor	TSE - RN 101091
NA	Various Locations	3903	John Deere	3029TF270D	4JDXL02.9050/II	64	Diesel	Generator	TSE - RN 101091
81	81 Station Rd	3946	Isuzu	A-6BGIT	0	155	Diesel	Generator	TSE - RN 101091

Table 3.1 Internal Combustion Engines

Building Number	Equipment Location	Operator ID	Make	Model	EPA Family Name/Tier	Rating (bhp)	Fuel	Category	Basis for Exemption
12000	867 Washington Ave	4008	John Deere	MEP-806B	TBD	134	Diesel	Generator	TSE - RN 101091
12000	867 Washington Ave	4009	John Deere	MEP-806B	TBD	134	Diesel	Generator	TSE - RN 101091
8425	1411 Utah Ave	4034	Onan	DN4M-1	III	24.1	Diesel	Generator	TSE - RN 101091
8425	1411 Utah Ave	4035	Onan	DN4M-1	0	24.1	Diesel	Generator	TSE - RN 101091
8425	1411 Utah Ave	4036	Onan	DN4M-1	0	24.1	Diesel	Generator	TSE - RN 101091
12000	867 Washington Ave	4112	John Deere	MEP-806B	TBD	134	Diesel	Generator	TSE - RN 101091
8425	1411 Utah Ave	4143	John Deere	MEP 805B	I	215	Diesel	Generator	TSE - RN 101091
8425	1411 Utah Ave	4154	John Deere	MEP 805B	I	215	Diesel	Generator	TSE - RN 101091
10717	430 Washington Ave	4287	John Deere	4039DF001	IV	50	Diesel	Water Truck, 2nd Engine	TSE - RN 101091
10717	430 Washington Ave	4288	John Deere	4045HF280	IV	50	Diesel	Sweeper, 2nd Engine	TSE - RN 101091
1735	325 Airfield Rd	4298	Cummins	4BT3.9G4	I	99	Diesel	Generator	TSE - RN 101091
1735	325 Airfield Rd	4299	Cummins	4BT3.9G4	I	99	Diesel	Generator	TSE - RN 101091
1735	325 Airfield Rd	4300	Cummins	4BT3.9G4	I	99	Diesel	Generator	TSE - RN 101091
1735	325 Airfield Rd	4301	Cummins	4BT3.9G4	I	99	Diesel	Generator	TSE - RN 101091
1735	325 Airfield Rd	4310	Deutz	B4M1008	TBD	38.8	JP-8	Start Cart	TSE - RN 101091
1735	325 Airfield Rd	4311	Deutz	B4M1008	TBD	38.8	JP-8	Start Cart	TSE - RN 101091

NA = Not Applicable
NG = Natural Gas
LPG = Liquefied Propane Gas
RN = Registration Number
TBD = To Be Determined

Table 3.2 External Combustion Equipment

Building Number	Equipment Location	Operator ID	Make	Model	Model Year	Rating (MMBtu/hr)	Fuel	Type of Unit	Basis for Exemption	Notes
1341	1335 Koa Rd	907	Reznor	XLI25-3	NA	0.125	LPG	Furnace	202.G.1.	
1341	1335 Koa Rd	908	Modine	PA30AB	NA	0.03	LPG	Furnace	202.G.1.	
1344	1344 Koa Rd	909	Lennox	LF3E-2201	NA	0.22	LPG	Furnace	202.G.1.	
1577	1577 May Rd	910	Lennox	G1404-S-100-6	NA	0.1	LPG	Furnace	202.G.1.	
1579	1579 June Rd	911	Lennox	G1404-5-100-6	NA	0.1	LPG	Furnace	202.G.1.	
1610	1610 Tangair Rd	912	Ray Pack	H8-0992	NA	0.7	LPG	Boiler	202.G.1.	
1610	1610 Tangair Rd	913	Ray Pak	H8-0992	NA	0.7	LPG	Boiler	202.G.1.	
1628	1628 Aero Rd	914	Lennox	G14Q-80-5	NA	0.08	LPG	Furnace	202.G.1.	
1628	1628 Aero Rd	916	Lennox	G14Q-80-5	NA	0.08	LPG	Furnace	202.G.1.	
1628	1628 Aero Rd	917	Lennox	G14Q-80-5	NA	0.08	LPG	Furnace	202.G.1.	
1705	173 Airfield Rd	919	Payne	394GAW048150A	NA	0.15	NG	Furnace	202.G.1.	
1735	325 Airfield Rd	924	American Standard	GSI-40T34-3N	NA	0.034	NG	Boiler	202.G.1.	
1737	340 Airfield Rd	929	American Standard	GSI-40T34-3N	NA	0.034	NG	Boiler	202.G.1.	
1748	1748 Airfield Rd	945	Day & Nite	40JJ-5	NA	0.036	NG	Boiler	202.G.1.	
1749	1749 Airfield Rd	947	Lennox	GS11D2100	NA	0.1	NG	Furnace	202.G.1.	
1754	399 Airfield Rd	948	Rheem	RGDD-10NC-VR	NA	0.1	NG	Furnace	202.G.1.	
1785	1785 13th St	950	Lennox	G14Q3-80-2	NA	0.85	LPG	Furnace	202.G.1.	
1930	1930 Astral Rd	963	American Standard	G52-40T60-4PLPW	NA	0.06	LPG	Boiler	202.G.1.	
51	51 Station Rd	964	Rheem	R6DD-08NE-GR	NA	0.08	LPG	Furnace	202.G.1.	
51	51 Station Rd	966	Lennox	GS8D-105N	NA	0.105	LPG	Furnace	202.G.1.	
475	475 Comm Ave	970	Rite Engineering	150 WG	NA	1.5	LPG	Boiler	202.G.1.	
542	542 Coast Rd	976	Modine	DHP-100SG	NA	0.1	NG	Furnace	202.G.1.	
596	596 Surf Rd	977	Reznor	F50E	NA	0.05	LPG	Furnace	202.G.1.	
596	596 Surf Rd	978	Reznor	F50E	NA	0.05	LPG	Furnace	202.G.1.	
596	596 Surf Rd	979	Lennox	G12Q3E826	NA	0.082	LPG	Furnace	202.G.1.	

Table 3.2 External Combustion Equipment

Building Number	Equipment Location	Operator ID	Make	Model	Model Year	Rating (MMBtu/hr)	Fuel	Type of Unit	Basis for Exemption	Notes
596	596 Surf Rd	980	Peerless	LUH252	NA	0.025	LPG	Furnace	202.G.1.	
657	657 VHF Rd	981	Lennox	G1404-60-13	NA	0.06	LPG	Boiler	202.G.1.	
657	657 VHF Rd	982	Lennox	G1404-60-19	NA	0.06	LPG	Furnace	202.G.1.	
764	764 Napa Rd	1006	Ajax	OWGX-450-S	NA	0.45	NG	Boiler	202.G.1.	
765	765 Napa Rd	1007	Sterling	GMIF-50	NA	0.625	NG	Furnace	202.G.1.	
864	864 Arguello Rd	1016	Kewanee	3R2-KPO	NA	0.495	NG	Boiler	202.G.1.	
988	988 Ordnance Rd	1025	Sterling	GMIF-65	NA	0.813	LPG	Furnace	202.G.1.	
1559	1559 Tonto Rd	1032	Lochnivar	CBN1210	NA	1.21	NG	Boiler	202.G.1.	
6601	1785 Utah Ave	1043	Ajax	WGB-2000	NA	2	NG	Boiler	202.G.1.	APCD ID # - 112662
6817	50 13th St	1046	Ajax	WG-525	NA	0.525	NG	Boiler	202.G.1.	
7403	393 10th St	1047	Ajax Boiler	WG-600D	NA	0.6	NG	Boiler	202.G.1.	
7425	386 10th St	1051	HydroTherm	AM-300	NA	0.299	NG	Boiler	202.G.1.	
7437	1556 New Mexico Ave	1053	Ajax Boiler	WG-350	NA	0.35	NG	Boiler	202.G.1.	
8415	178 8th St	1073	Ajax Boiler	WGB-1750	NA	1.75	NG	Boiler	202.G.1.	
9360	1318 New Mexico Ave	1092	RITE Engineering	105W	NA	1.05	NG	Boiler	202.G.1.	
10525	723 Nebraska Ave	1099	Ajax Boiler	WGH-850S	NA	0.85	NG	Boiler	202.G.1.	
10660	1160 New Mexico Ave	1101	Ajax Boiler	WG-350	NA	0.35	NG	Boiler	202.G.1.	
10728	1251 California Blvd	1102	Raypak	H2-0624A-CCBRCAA	NA	0.627	NG	Boiler	202.G.1.	
11477	1273 Utah Ave	1110	Teledyne Laars	TL80-199NS	NA	0.199	NG	Boiler	202.G.1.	
13007	251 Oregon Ave	1114	Raypak	H1-0624	NA	0.627	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.	
7015	806 13th St	1156	Parker	T1995L	NA	1.995	NG	Boiler	202.G.1.	APCD ID # - 112663
839	839 Clark St	1746	Kewanee	3R3FO	NA	0.585	NG	Boiler	202.G.1.	
10510	1142 California Blvd	1845	Unknown	Unknown	NA	0.096	NG	Food Prep Burner	202.K.1.	
10343	718 Community Loop	2614	Reznor	X300-8-S-E	NA	0.3	NG	Furnace	202.G.1.	

Table 3.2 External Combustion Equipment

Building Number	Equipment Location	Operator ID	Make	Model	Model Year	Rating (MMBtu/hr)	Fuel	Type of Unit	Basis for Exemption	Notes
10343	718 Community Loop	2615	Reznor	X300-8-S-E	NA	0.3	NG	Furnace	202.G.1.	
14300	135 Wyoming Ave	2616	A.O.Smith	BTP-140-270	NA	0.27	NG	Boiler	202.G.1.	
6816	6816 Igloo Rd	2619	Air-Fan	KE3-112	NA	0.2	NG	Furnace	202.G.1.	
8310	351 8th St	2626	Fulton Heating Solutions	PHW1000	NA	0.9	NG	Boiler	202.G.1.	
8310	351 8th St	2627	Fulton Heating Solutions	PHW1000	NA	0.9	NG	Boiler	202.G.1.	
13123	2151 South Dakota Ave	2660	Raypak	W1-0514A-DEDRDAA	NA	0.512	NG	Boiler	202.G.1.	
13121	377 South Dakota Ave	2661	Raypak	W1-0514A-DEDRDAA	NA	0.512	NG	Boiler	202.G.1.	
8310	351 8th St	2670	Fulton Heating Solutions	PHW1000	NA	0.9	NG	Boiler	202.G.1.	
8310	351 8th St	2671	Fulton Heating Solutions	PHW1000	NA	0.9	NG	Boiler	202.G.1.	
8401	1521 Utah Ave	2673	Fulton Heating Solutions	PHW-300	NA	0.3	NG	Boiler	202.G.1.	
8401	1521 Utah Ave	2674	Fulton Heating Solutions	PHW-300	NA	0.3	NG	Boiler	202.G.1.	
11070	758 Nebraska Ave	2676	Parker Boiler	103-20	NA	0.86	NG	Boiler	202.G.1.	
11070	758 Nebraska Ave	2677	Raypak	W1-0263B-BEDHDAA	NA	0.264	NG	Boiler	202.G.1.	
13121	377 South Dakota Ave	2679	HydroTherm	AM-300	NA	0.299	NG	Boiler	202.G.1.	
23235	235 Bishop Rd	2683	HydroTherm	AM-100	NA	0.1	NG	Boiler	202.G.1.	
852	852 Shervis Rd	3089	Fulton	PHW-950	NA	0.95	NG	Boiler	202.G.1.	
852	852 Shervis Rd	3090	Fulton	PHW-950	NA	0.95	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.	
1619	1619 Aero Rd	3118	Sterling	QVF-1005	NA	0.1	LPG	Furnace	202.G.1.	
1619	1619 Aero Rd	3119	Sterling	QVF-1005	NA	0.1	LPG	Furnace	202.G.1.	
1632	1632 Tangair Rd	3120	Reznor	TR125	NA	0.125	LPG	Furnace	202.G.1.	
1735	325 Airfield Rd	3121	Snyder General	GU080AD12AIN	NA	0.08	NG	Furnace	202.G.1.	
1810	1810 El Rancho Rd	3123	Tempstar	NTC51BKB2	NA	0.125	LPG	Furnace	202.G.1.	
1930	1930 Astral Rd	3126	York	P2UDD12P0950	NA	0.1	LPG	Furnace	202.G.1.	
10711	433 Herado Ave	3133	Reznor	HXE400-6	NA	0.4	NG	Furnace	202.G.1.	

Table 3.2 External Combustion Equipment

Building Number	Equipment Location	Operator ID	Make	Model	Model Year	Rating (MMBtu/hr)	Fuel	Type of Unit	Basis for Exemption	Notes
10711	433 Herado Ave	3134	Reznor	HXE350-6	NA	0.35	NG	Furnace	202.G.1.	
10713	431 Herado Ave	3135	Reznor	HX400-5-S2E	NA	0.4	NG	Furnace	202.G.1.	
11040	41 Santa Inez Ave	3137	Magic Chef	EG66-55D-5	NA	0.055	NG	Furnace	202.G.1.	
11040	41 Santa Inez Ave	3138	Magic Chef	EG66-55D-5	NA	0.055	NG	Furnace	202.G.1.	
11070	758 Nebraska Ave	3141	Raypak	W1-0263B-BEDHDAA	NA	0.264	NG	Boiler	202.G.1.	
13022	285 Kansas Ave	3143	Reznor	XE400-8	NA	0.4	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.	
1335	1335 Koa Rd	3171	Day & Night	383KAV048111	NA	0.11	LPG	Furnace	202.G.1.	
1335	1335 Koa Rd	3172	Day & Night	383KAV048111	NA	0.11	LPG	Furnace	202.G.1.	
1335	1335 Koa Rd	3173	Day & Night	383KAV36070	NA	0.11	LPG	Furnace	202.G.1.	
13323	215 South Dakota Ave	3176	HydroTherm	AM-300	NA	0.299	NG	Boiler	202.G.1.	APCD ID # - 112677
13323	215 South Dakota Ave	3178	HydroTherm	AM-300	NA	0.299	NG	Boiler	202.G.1.	APCD ID # - 112679
13323	215 South Dakota Ave	3179	Raypak	W2-0624	NA	0.627	NG	Boiler	202.G.1.	
1632	1632 Tangair Rd	3203	Reznor	TR125	NA	0.125	LPG	Furnace	202.G.1.	
1338	1338 Koa Rd	3216	Markel	HFSF	NA	0.1	LPG	Furnace	202.G.1.	
1530	1530 Rollo Rd	3217	Payne	PH8UAA036065	NA	0.066	NG	Furnace	202.G.1.	
596	596 Surf Rd	3218	Lennox	G12Q3E826	NA	0.082	LPG	Furnace	202.G.1.	
6005	6005 Santa Barbara Ave	3219	Rheem	RGDD-08NE-GR	NA	0.08	NG	Furnace	202.G.1.	
848	848 Clark St	3223	Lennox	G16Q5X-100-5	NA	0.1	NG	Furnace	202.G.1.	
1545	1545 35th St	3224	Teledyne Laars	HH032MN20CCAKXX	NA	0.32	NG	Boiler	202.G.1.	
1545	1545 35th St	3225	Teledyne Laars	HH032MN20CCAKXX	NA	0.32	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.	
1544	1544 35th St	3230	Payne	Unknown	NA	0.78	NG	Furnace	202.G.1.	
1631	1631 Aero Rd	3231	Modine	PV75AE0185	NA	0.075	LPG	Furnace	202.G.1.	

Table 3.2 External Combustion Equipment

Building Number	Equipment Location	Operator ID	Make	Model	Model Year	Rating (MMBtu/hr)	Fuel	Type of Unit	Basis for Exemption	Notes
1631	1631 Aero Rd	3232	Modine	PV75AE0185	NA	0.075	LPG	Furnace	202.G.1.	
1631	1631 Aero Rd	3233	Modine	PV75AE0185	NA	0.075	LPG	Furnace	202.G.1.	
1631	1631 Aero Rd	3234	Modine	PV75AE0185	NA	0.075	LPG	Furnace	202.G.1.	
1659	1659 Mono Rd	3235	Lennox	G23Q5/6-150-4	NA	0.15	LPG	Furnace	202.G.1.	
1740	359 Airfield Rd	3236	Day & Night	376C	NA	0.074	NG	Furnace	202.G.1.	
1740	359 Airfield Rd	3237	Day & Night	376C	NA	0.074	NG	Furnace	202.G.1.	
1749	1749 Airfield Rd	3238	Lennox	GS11D2100	NA	0.08	NG	Furnace	202.G.1.	
1785	1785 13th St	3239	Payne	395CAV048091	NA	0.088	LPG	Furnace	202.G.1.	
6444	351 14th St	3244	Tempstar	GNJ075M16C1	NA	0.075	NG	Furnace	202.G.1.	
6601	1785 Utah Ave	3246	Raypak	H4-0751	NA	0.75	NG	Boiler	202.G.1.	
9340	372 6th St	3247	Reznor	HCRGB75-5-2	NA	0.75	NG	Furnace	202.G.1.	
10122	706 Washington Ave	3248	Reznor	HXE175-8-S-2-E	NA	0.175	NG	Furnace	202.G.1.	
10122	706 Washington Ave	3249	Reznor	PG400-S-2	NA	0.4	NG	Furnace	202.G.1.	
10122	706 Washington Ave	3250	Lennox	G16Q5X-100-5	NA	0.1	NG	Furnace	202.G.1.	
10122	706 Washington Ave	3251	Lennox	G16Q5X-100-5	NA	0.1	NG	Furnace	202.G.1.	
10343	718 Community Loop	3252	Lennox	G16Q5X-100-5	NA	0.1	NG	Furnace	202.G.1.	
10343	718 Community Loop	3253	Lennox	G16Q5X-100-5	NA	0.1	NG	Furnace	202.G.1.	
21150	150 Cotar Rd	3258	HydroTherm	MR-1200BPV	NA	1.2	LPG	Boiler	202.G.1.	
11152	301 Guam Ave	3260	Carrier	PG8UAA060111	NA	0.11	NG	Furnace	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.	
13321	261 South Dakota Ave.	3267	HydroTherm	AM-300	NA	0.299	NG	Boiler	202.G.1.	APCD ID # - 112674
13321	261 South Dakota Ave	3269	HydroTherm	AM-300	NA	0.299	NG	Boiler	202.G.1.	APCD ID # - 112675
13321	261 South Dakota Ave	3270	Raypak	W2-0624	NA	0.627	NG	Boiler	202.G.1.	

Table 3.2 External Combustion Equipment

Building Number	Equipment Location	Operator ID	Make	Model	Model Year	Rating (MMBtu/hr)	Fuel	Type of Unit	Basis for Exemption	Notes
21330	End of Gun Rd	3273	Raypak	H1-0183	NA	0.186	LPG	Boiler	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.	
10366	730 Community Loop	3287	Bryant	395CAV060111	NA	0.11	NG	Furnace	202.G.1.	
11152	301 Guam Ave	3295	Lennox	G16Q-5X-100-5	NA	0.1	NG	Furnace	202.G.1.	
11146	1028 Iceland Ave	3297	Lennox	G11E-200V-7	NA	0.2	NG	Furnace	202.G.1.	
11477	1273 Utah Ave	3298	Teledyne Laars	HH0320MN20CCAKXX	NA	0.32	NG	Boiler	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.	
10260	101 Community Loop	3351	Reznor	5CE125-6-5	NA	0.125	NG	Furnace	202.G.1.	
10314	1206 California Blvd	3352	Consolidated Ind	MBA-120-NH5RX	NA	0.12	NG	Furnace	202.G.1.	
10366	730 Community Loop	3353	Lennox	G16Q5X-100-5	NA	0.1	NG	Furnace	202.G.1.	
10366	730 Community Loop	3354	Lennox	G16Q5X-100-5	NA	0.1	NG	Furnace	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.	
10373	724 Community Loop	3357	Lennox	G20Q5/6X-100-2	NA	0.1	NG	Furnace	202.G.1.	
10715	416 Washington Ave	3358	Western	250-F9A	NA	0.25	NG	Furnace	202.G.1.	
10717	430 Washington Ave	3359	Gaffers-Sattler	080-3	NA	0.08	NG	Furnace	202.G.1.	
11165	1207 New Mexico Ave	3360	Bryant	376CAV060115	NA	0.115	NG	Furnace	202.G.1.	
11248	869 Iceland Ave	3361	Raypak	H1-0263	NA	0.264	NG	Boiler	202.G.1.	
11510	1209 Utah Ave	3362	Rheem	RGDG-07NAUER	NA	0.075	NG	Furnace	202.G.1.	
13005	189 Oregon Ave	3363	Frazer-Johnson	250-C-33	NA	0.25	NG	Furnace	202.G.1.	
1317	1335 Koa Rd	3365	Frazer-Johnson	250-C-33	NA	0.25	LPG	Furnace	202.G.1.	
1335	1335 Koa Rd	3368	Day & Night	383KAV060111	NA	0.11	LPG	Furnace	202.G.1.	

Table 3.2 External Combustion Equipment

Building Number	Equipment Location	Operator ID	Make	Model	Model Year	Rating (MMBtu/hr)	Fuel	Type of Unit	Basis for Exemption	Notes
14001	14001 Wyoming Avenue	3370	Lenox	G16Q4/5X-125-1		0.125	NG	Furnace	202.G.1.	
12901	1102 Buellton Drive	3371	Lennox	G20Q3X-75-7	NA	0.075	NG	Furnace	202.G.1.	
17595	800 California Blvd	3372	Bryant	383KHV048091	NA	0.088	NG	Furnace	202.G.1.	
2500	2500 Arizona Ave	3373	Bryan Steam Corp	D-450-W-FDGO	NA	0.45	NG	Boiler	202.G.1.	
2505	2505 32nd St	3375	Trane	TUD100C945H4	NA	0.1	NG	Furnace	202.G.1.	
6601	1785 Utah Ave	3376	Lennox	G14Q4-80-6	NA	0.088	NG	Furnace	202.G.1.	
7430	348 8th St	3378	Reznor	HCX225-6-S-2-E	NA	0.2	NG	Furnace	202.G.1.	
7430	348 8th St	3379	Reznor	58XSC120-LG	NA	0.135	NG	Furnace	202.G.1.	
8425	1411 Utah Ave	3382	Lennox	G14Q3-80-2	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.	
13330	781 "N" St	3584	Ajax Boiler	SRFG-40	NA	1.75	NG	Boiler	202.G.1.	APCD ID # - 112680
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	0.88	NG	Furnace	202.G.1.	
7050	818 13th St	3627	Ajax	WPG-1050PLC	NA	1	NG	Boiler	202.G.1.	
7050	818 13th St	3628	Ajax	WPG-1050PLC	NA	1	NG	Boiler	202.G.1.	
75	75 Station Rd	3629	Patterson-Kelley	SN-700	NA	0.7	LPG	Boiler	202.G.1.	
9320	334 6th St	3636	Lochinvar	CBN1796	NA	1.79	NG	Boiler	202.G.1.	
11439	1172 Iceland Ave	3637	Parker Boiler	T760LR	NA	0.76	NG	Boiler	202.G.1.	
660	660 Santa Ynez Ridge Rd	3645	Lochinvar	CBN0495	NA	0.495	NG	Boiler	202.G.1.	
861	891 Clark St	3646	HydroTherm	KN-6	NA	0.6	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.	
1731	320 Airfield Rd	3654	Raypak	H3-0752A	NA	0.75	NG	Boiler	202.G.1.	

Table 3.2 External Combustion Equipment

Building Number	Equipment Location	Operator ID	Make	Model	Model Year	Rating (MMBtu/hr)	Fuel	Type of Unit	Basis for Exemption	Notes
1737	340 Airfield Rd	3655	Patterson-Kelley	NM-1000	NA	0.94	NG	Boiler	202.G.1.	
1737	340 Airfield Rd	3656	Patterson-Kelley	NM-1000	NA	0.94	NG	Boiler	202.G.1.	
1746	373 Airfield Rd	3657	HydroTherm	AM-150	NA	0.15	NG	Boiler	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.	
1930	1930 Astral Rd	3664	York	P2UDD2QPQ9SQ1C	NA	1	LPG	Furnace	202.G.1.	
2500	2500 Arizona Ave	3665	Raypak	W1-0333B-CEDRBDA	NA	0.333	NG	Boiler	202.G.1.	
6419	6419 15th St	3666	Laars Heating Systems	JVS100NDJS	NA	0.1	NG	Boiler	202.G.1.	
6601	1785 Utah Ave	3667	American Water Heater Com	CG32-75T75-4NV	NA	0.751	NG	Boiler	202.G.1.	
6670	1655 Utah Ave	3668	Bradford White	D100L2503N	NA	0.25	NG	Boiler	202.G.1.	
7015	806 13th St	3669	Bradford White	D100L1993N	NA	0.199	NG	Boiler	202.G.1.	
7403	393 10th St	3670	Ajax Boiler	WFG-350	NA	0.35	NG	Boiler	202.G.1.	
7425	386 10th St	3672	HydroTherm	AM-300	NA	0.299	NG	Boiler	202.G.1.	
7425	386 10th St	3673	HydroTherm	AM-300	NA	0.299	NG	Boiler	202.G.1.	
8173	1524 Nevada Ave	3676	Bradford White	75T803N	NA	0.08	NG	Boiler	202.G.1.	
8175	1520 Nevada Ave	3677	HydroTherm	AM-300	NA	0.299	NG	Boiler	202.G.1.	
8175	1520 Nevada Ave	3678	HydroTherm	AM-300	NA	0.299	NG	Boiler	202.G.1.	
8175	1520 Nevada Ave	3679	HydroTherm	AM-300	NA	0.299	NG	Boiler	202.G.1.	
8250	1529 California Blvd	3680	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	Boiler	202.G.1.	
8305	385 8th St	3683	Ajax Boiler	WNG-350	NA	0.35	NG	Boiler	202.G.1.	
8310	351 8th St	3684	A.O. Smith	BTR200104	NA	0.199	NG	Boiler	202.G.1.	
8505	1539 Iceland Ave	3688	American Appliance Mfg Co	DSID250-100	NA	0.25	NG	Boiler	202.G.1.	
9192	1390 Nevada Ave	3691	HydroTherm	AM-300	NA	0.299	NG	Boiler	202.G.1.	
9192	1390 Nevada Ave	3692	HydroTherm	AM-300	NA	0.299	NG	Boiler	202.G.1.	
9192	1390 Nevada Ave	3693	HydroTherm	AM-300	NA	0.299	NG	Boiler	202.G.1.	

Table 3.2 External Combustion Equipment

Building Number	Equipment Location	Operator ID	Make	Model	Model Year	Rating (MMBtu/hr)	Fuel	Type of Unit	Basis for Exemption	Notes
9192	1390 Nevada Ave	3694	HydroTherm	AM-300	NA	0.299	NG	Boiler	202.G.1.	
9192	1390 Nevada Ave	3695	HydroTherm	AM-300	NA	0.299	NG	Boiler	202.G.1.	
9192	1390 Nevada Ave	3696	HydroTherm	AM-300	NA	0.299	NG	Boiler	202.G.1.	
9307	356 6th St	3697	Raypak	H3-0902	NA	0.9	NG	Boiler	202.G.1.	
9334	360 6th St	3698	Raypak	WH3-0502	NA	0.5	NG	Boiler	202.G.1.	
10145	712 Washington Ave	3699	Parker Boiler	48L	NA	1.995	NG	Boiler	202.G.1.	APCD ID # - 112666
10145	712 Washington Ave	3700	Bradford White	D100L1993N	NA	0.199	NG	Boiler	202.G.1.	
10400	728 Community Loop	3701	Ajax Boiler	WFG-800-LN	NA	0.8	NG	Boiler	202.G.1.	
10660	1160 New Mexico Ave	3702	American Appliance Mfg Co	DSID250-100-1	NA	0.25	NG	Boiler	202.G.1.	
10728	1251 California Blvd	3703	American Appliance Mfg Co	DSID199-101-3C V	NA	0.199	NG	Boiler	202.G.1.	
11041	71 Santa Inez Ave	3705	HydroTherm	AM-300	NA	0.299	NG	Boiler	202.G.1.	
11041	71 Santa Inez Ave	3706	HydroTherm	AM-300	NA	0.299	NG	Boiler	202.G.1.	
11042	91 Santa Inez Ave	3709	HydroTherm	AM-300	NA	0.299	NG	Boiler	202.G.1.	
11042	91 Santa Inez Ave	3711	Voyager	SSV199-45SA	NA	0.199	NG	Boiler	202.G.1.	
11042	91 Santa Inez Ave	3712	Voyager	SSV199-45SA	NA	0.199	NG	Boiler	202.G.1.	
11777	California Blvd and Utah Ave	3713	Bradford White	M4403T6EN12	NA	0.04	NG	Boiler	202.G.1.	
13007	251 Oregon Ave	3718	A.O. Smith	BTR198100	NA	0.199	NG	Boiler	202.G.1.	
13007	251 Oregon Ave	3719	Bradford White	D100L1993N	NA	0.2	NG	Boiler	202.G.1.	
13007	251 Oregon Ave	3720	Bradford White	D100L1993N	NA	0.199	NG	Boiler	202.G.1.	
13123	2151 South Dakota Ave	3722	HydroTherm	AM-300	NA	0.299	NG	Boiler	202.G.1.	
13123	2151 South Dakota Ave	3723	HydroTherm	AM-300	NA	0.299	NG	Boiler	202.G.1.	
13321	261 South Dakota Ave	3724	HydroTherm	AM-300	NA	0.299	NG	Boiler	202.G.1.	APCD ID # - 112676
13323	215 South Dakota Ave	3725	HydroTherm	AM-300	NA	0.299	NG	Boiler	202.G.1.	APCD ID # - 112678
13675	108 Colorado Ave	3726	HydroTherm	AM-300	NA	0.299	NG	Boiler	202.G.1.	
13675	108 Colorado Ave	3727	A.O. Smith	BTC 200 920	NA	0.199	NG	Boiler	202.G.1.	
13848	278 South Dakota Ave	3728	American Water Heater Co	DCG3-100T199-6NO	NA	0.199	NG	Boiler	202.G.1.	

Table 3.2 External Combustion Equipment

Building Number	Equipment Location	Operator ID	Make	Model	Model Year	Rating (MMBtu/hr)	Fuel	Type of Unit	Basis for Exemption	Notes
14300	135 Wyoming Ave	3732	A.O. Smith	BTH 300A 970	NA	0.3	NG	Boiler	202.G.1.	
16200	587 Summersill Ave	3733	Raypak	H3-0402A	NA	0.399	NG	Boiler	202.G.1.	
1583	1583 Tangair Rd	3741	ARFF	T.O. 35E1-2-13-1	NA	NA	LPG	Aircraft Fire Training Burner	202.P.11	
8500	1515 Iceland Ave	3745	Bradford White	D100L1993N	NA	0.199	NG	Boiler	202.G.1.	
13854	1103 Santa Maria Ave	3763	Lennox	HM30-100-1	NA	0.1	NG	Boiler	202.G.1.	
13854	1103 Santa Maria Ave	3764	Lennox	HM30-100-1	NA	0.1	NG	Boiler	202.G.1.	
13855	1001 Santa Maria Ave	3766	Lennox	HM30-100-1	NA	0.1	NG	Boiler	202.G.1.	
13856	1002 Santa Maria Ave	3767	Lennox	HM30-100-1	NA	0.1	NG	Boiler	202.G.1.	
13857	1104 Guadalupe Ave	3769	Lennox	HM30-100-1	NA	0.1	NG	Boiler	202.G.1.	
13857	1104 Guadalupe Ave	3770	Lennox	HM30-100-1	NA	0.1	NG	Boiler	202.G.1.	
13859	1202 Guadalupe Ave	3773	Lennox	HM30-100-1	NA	0.1	NG	Boiler	202.G.1.	
13859	1202 Guadalupe Ave	3774	Lennox	HM30-100-1	NA	0.1	NG	Boiler	202.G.1.	
13860	1200 Guadalupe Ave	3776	Lennox	HM30-100-1	NA	0.1	NG	Boiler	202.G.1.	
13861	1201 Guadalupe Ave	3777	Lennox	HM30-100-1	NA	0.1	NG	Boiler	202.G.1.	
13861	1201 Guadalupe Ave	3778	Lennox	HM30-100-1	NA	0.1	NG	Boiler	202.G.1.	
13862	1101 Guadalupe Ave	3779	Lennox	HM30-100-1	NA	0.1	NG	Boiler	202.G.1.	
13863	1103 Guadalupe Ave	3782	Lennox	HM30-100-1	NA	0.1	NG	Boiler	202.G.1.	
13864	1105 Guadalupe Ave	3783	Lennox	HM30-100-1	NA	0.1	NG	Boiler	202.G.1.	
13864	1105 Guadalupe Ave	3784	Lennox	HM30-100-1	NA	0.1	NG	Boiler	202.G.1.	
13865	1001 Guadalupe Ave	3786	Lennox	HM30-100-1	NA	0.1	NG	Boiler	202.G.1.	
13866	1103 Guadalupe Ave	3787	Lennox	HM30-100-1	NA	0.1	NG	Boiler	202.G.1.	
13866	1103 Guadalupe Ave	3788	Lennox	HM30-100-1	NA	0.1	NG	Boiler	202.G.1.	
10145	712 Washington Ave	3789	Parker Boiler	48L	NA	1.995	NG	Boiler	202.G.1.	APCD ID # - 112667
6527	65 13th St	3810	Ray Pak	H3-0652B	NA	0.65	NG	Boiler	202.G.1.	
871	871 Tuttle St	3811	Raypak	H3-0652B	NA	0.65	NG	Boiler	202.G.1.	
7501	172 10th St	3812	Lochinvar	CHN651	NA	0.65	NG	Boiler	202.G.1.	

Table 3.2 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	3813	Lochinvar	CHN651	NA	0.65	NG	Boiler	202.G.1.	
13330	781 "N" St	3819	Ajax Boiler	SRFG-40	NA	1.75	NG	Boiler	202.G.1.	APCD ID # - 112681
8250	1529 California Blvd	3826	HydroTherm	AM-300	NA	0.299	NG	Boiler	202.G.1.	
11041	71 Santa Inez Ave	3827	HydroTherm	AM-300	NA	0.299	NG	Boiler	202.G.1.	
1930	1930 Astral Rd	3828	York	P2UDD2QPQ9SQ1C	NA	1	LPG	Furnace	202.G.1.	
1930	1930 Astral Rd	3829	York	P2UDD2QPQ9SQ1C	NA	1	LPG	Furnace	202.G.1.	
13848	278 South Dakota Ave	3832	Raypak	H3-0302B	NA	0.3	NG	Boiler	202.G.1.	
1728	302 Airfield Rd	3833	A.O. Smith	FCG-100 300	NA	0.075	NG	Boiler	202.G.1.	
1335	1335 Koa Rd	3850	Rheem	RCD156-82-1	NA	0.156	NG	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.	
7425	386 10th St	3854	American Appliance Mfg	DSID199-100-G	NA	0.199	NG	Boiler	202.G.1.	
7501	172 10th St	3855	American Water Heater	G52-40T34-3N	NA	0.034	NG	Boiler	202.G.1.	
8314	374 8th St	3857	American Water Heater	G62-40T34-3N	NA	0.034	NG	Boiler	202.G.1.	
8500	1515 Iceland Ave	3858	American Water Heater	DCG31100S1996N	NA	0.199	NG	Boiler	202.G.1.	
9005	725 Washington Ave	3859	Lochinvar	CBN0745	NA	0.745	NG	Boiler	202.G.1.	APCD ID # - 112664
9005	725 Washington Ave	3860	Lochinvar	CBN0745	NA	0.745	NG	Boiler	202.G.1.	APCD ID # - 112665
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.	
9340	372 6th St	3863	A.O. Smith	FCG 100 270	NA	0.075	NG	Boiler	202.G.1.	
10343	718 Community Loop	3864	A.O. Smith	BTC 200 840	NA	0.199	NG	Boiler	202.G.1.	
10366	730 Community Loop	3865	A.O. Smith	FCG 100 270	NA	0.075	NG	Boiler	202.G.1.	
11777	California Blvd and Utah Ave	3867	American Water Heater	G62-40T34-3N	NA	0.34	NG	Boiler	202.G.1.	
13700	124 South Dakota Ave	3868	Bradford White	D100L1993N	NA	0.199	NG	Boiler	202.G.1.	
14002	14002 Wyoming Ave	3869	Teledyne-Laars	EBDP-110	NA	0.11	NG	Boiler	202.G.1.	

Table 3.2 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	3871	Accutemp	GF1201B4800	NA	0.095	NG	Food Prep Burner	202.K.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.	
13863	1103 Guadalupe Ave	3918	Heat Transfer Product	SSVH-130-45SB	NA	0.13	NG	Boiler	202.G.1.	
7525	1579 Utah Ave	3919	American Water Heater	PG1034-100-2NV	NA	0.1	NG	Boiler	202.G.1.	
11041	71 Santa Inez Ave	3920	Voyager	SSV199-45SB	NA	0.199	NG	Boiler	202.G.1.	
11041	71 Santa Inez Ave	3922	Voyager	SSV199-45SA	NA	0.199	NG	Boiler	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.	
7437	1556 New Mexico Ave	3941	Ajax Boiler	WRFG-840	NA	0.84	NG	Boiler	202.G.1.	
1800	150 Taurus Rd	3942	Patterson-Kelley	N2000-MFD	NA	2	LPG	Boiler	202.G.1.	APCD ID # - 112254
1728	302 Airfield Rd	3951	Lochinvar	CHN751	NA	0.75	NG	Boiler	202.G.1.	
799	799 Coast Rd	3961	Smith	GTGX-150	NA	0.15	NG	Boiler	202.G.1.	
799	799 Coast Rd	3962	Smith	GTGX150	NA	0.15	NG	Boiler	202.G.1.	
16113	564 Summersill Ave	3965	American Standard	D100-250-AS	NA	0.25	NG	Boiler	202.G.1.	
11013	1036 California Blvd	3971	Westcast/Smith	GT-400	NA	0.399	NG	Boiler	202.G.1.	
1546A	1546A Talo Rd	3986	Patterson Kelly Company	N2000-MFD	NA	2	NG	Boiler	202.G.1.	
1546B	1546B Talo Rd	3987	Patterson-Kelley Company	N2000-MFD	NA	2	NG	Boiler	202.G.1.	
1740	359 Airfield Rd	3988	A.O. Smith	FCG 100 300	NA	0.751	NG	Boiler	202.G.1.	
6710	32 13th St	3989	Raypak	H3-0401	NA	0.375	NG	Boiler	202.G.1.	
13123	2151 South Dakota Ave	3990	HydroTherm	AM-300	NA	0.299	NG	Boiler	202.G.1.	
799	799 Coast Rd	3998	Rheem	G100-80N	NA	0.076	NG	Boiler	202.G.1.	
6601	1785 Utah Ave	3999	American Water Heater Co	CG31-75T75-4NV	NA	0.751	NG	Boiler	202.G.1.	
10503	711 Nebraska Ave	4000	Raypak	WH1-0402	NA	0.399	NG	Boiler	202.G.1.	
840	840 Clark St	4001	Lochinvar	KBN285	NA	0.285	NG	Boiler	202.G.1.	
840	840 Clark St	4002	Lochinvar	KBN285	NA	0.285	NG	Boiler	202.G.1.	

Table 3.2 External Combustion Equipment

Building Number	Equipment Location	Operator ID	Make	Model	Model Year	Rating (MMBtu/hr)	Fuel	Type of Unit	Basis for Exemption	Notes
8173	1524 Nevada Ave	4007	Raypak	H9-1802	NA	1.8	NG	Boiler	202.G.1.	
870	870 Stroop Rd	4019	Ajax	BP7G	NA	0.7	NG	Boiler	202.G.1.	
8195	1522 Nevada Ave	4020	Laars/Pennant	PNCH1000N	NA	0.999	NG	Boiler	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.	
875	875 Sweeney Rd	4040	Ajax	WPG-1050	NA	1.05	NG	Boiler	202.G.1.	
13852	1201 Santa Maria Ave	4041	Phoenix	PH199-55	NA	0.199	NG	Boiler	202.G.1.	
13860	1200 Guadalupe Ave	4042	Phoenix	PH199-55	NA	0.199	NG	Boiler	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.	
11042	91 Santa Inez Ave	4053	HydroTherm	AM-300	NA	0.299	NG	Boiler	202.G.1.	
1737	340 Airfield Rd	4056	A. O. Smith	FGR 40 248E	NA	0.038	NG	Boiler	202.G.1.	
1743	355 Airfield Rd	4057	Bradford White	M4403T6EN12	NA	0.04	NG	Boiler	202.G.1.	
6510	85 13th St	4058	Raypak	H3-0752B	NA	0.75	NG	Boiler	202.G.1.	
23201	201 Bishop Rd	4059	Raypak	H3-0181	NA	0.181	NG	Boiler	202.G.1.	
11042	91 Santa Inez Ave	4063	HydroTherm	AM-300	NA	0.299	NG	Boiler	202.G.1.	
7011	826 13th St	4068	Cleaver Brooks	CFC-700-750-60HW	NA	1.5	NG	Boiler	202.G.1.	
8510	1521 Iceland Ave	4069	Patterson-Kelley	N-750MFD	NA	0.75	NG	Boiler	202.G.1.	
8510	1521 Iceland Ave	4070	Patterson-Kelley	N-750MFD	NA	0.75	NG	Boiler	202.G.1.	
2500	2500 Arizona Ave	4071	A.O. Smith	Unknown	NA	0.16	NG	Boiler	202.G.1.	
1506	1559 Tonto Rd	4086	Raypak	H7-0753	NA	0.299	NG	Boiler	202.G.1.	
1506	1559 Tonto Rd	4087	Raypak	H7-0753	NA	0.299	NG	Boiler	202.G.1.	
8500	1515 Iceland Ave	4088	Raypak	H7-2003	NA	1.999	NG	Boiler	202.G.1.	
8500	1515 Iceland Ave	4089	Raypak	H7-2003	NA	1.999	NG	Boiler	202.G.1.	
10510	1142 California Blvd	4090	American Standard	BCG380T1506NOX	NA	0.075	NG	Boiler	202.G.1.	
13851	1200 Santa Maria Ave	4091	Phoenix	PH199-55	NA	0.199	NG	Boiler	202.G.1.	

Table 3.2 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	4092	Phoenix	PH199-55	NA	0.199	NG	Boiler	202.G.1.	
13856	1002 Santa Maria Ave	4093	Phoenix	PH199-55	NA	0.199	NG	Boiler	202.G.1.	
13865	1001 Guadalupe Ave	4094	Heat Transfer	PH199-55	NA	0.199	NG	Boiler	202.G.1.	
8190	1580 Nevada Ave	4106	Unknown	Unknown	NA	0.16	NG	PSB Heater	202.G.1.	APCD ID # - 105648
12000	867 Washington Ave	4110	HydroTherm	KN10	NA	1	NG	Boiler	202.G.1.	APCD ID # - 113914
12000	867 Washington Ave	4111	HydroTherm	KN10	NA	1	NG	Boiler	202.G.1.	APCD ID # - 113915
13330	781 "N" St	4115	Takag	T-M50	NA	0.36	NG	Boiler	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	
8310	351 8th St	4136	Fulton Heating Solutions	PHW1000	NA	0.9	NG	Boiler	202.G.1.	
13855	1001 Santa Maria Ave	4142	Heat Transfer/Phoenix	PH199-55	NA	0.199	NG	Boiler	202.G.1.	
1746	373 Airfield Rd	4151	American Water Heater	G61-40T34-3N	NA	0.034	NG	Boiler	202.G.1.	
490	490 Arguello Rd	4156	Takagi	T-K3	NA	0.199	LPG	Boiler	202.G.1.	
1555	1555 Talo Rd	4179	American	FG6140T403N0	NA	0.036	NG	Boiler	202.G.1.	
1555	1555 Talo Rd	4180	American	G52-40T34-3N	NA	0.036	NG	Boiler	202.G.1.	
1731	320 Airfield Rd	4181	A.O. Smith	FGR40-236	NA	0.038	NG	Boiler	202.G.1.	
6710	32 13th St	4182	American	G62 40T34-3N	NA	0.034	NG	Boiler	202.G.1.	
8175	1520 Nevada Ave	4183	Rheem	G76-75C	NA	0.075	NG	Boiler	202.G.1.	
8290	1472 Nevada Ave	4184	Raypak	H9-1262B	NA	1.262	NG	Boiler	202.G.1.	
8339	308 8th St	4185	American Water Heater	G61-40T34-3N	NA	0.034	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	4187	Patterson-Kelley	C-300LNX	NA	0.3	NG	Boiler	202.G.1.	
9307	356 6th St	4188	Rheem	4150VN	NA	0.04	NG	Boiler	202.G.1.	
9320	334 6th St	4189	Bradford White	M4403T6EN12	NA	0.04	NG	Boiler	202.G.1.	
9334	360 6th St	4190	American Water Heater	FG140T403NO	NA	0.04	NG	Boiler	202.G.1.	
9340	372 6th St	4191	American Water Heater	GVF433TN	NA	0.033	NG	Boiler	202.G.1.	

Table 3.2 External Combustion Equipment

Building Number	Equipment Location	Operator ID	Make	Model	Model Year	Rating (MMBtu/hr)	Fuel	Type of Unit	Basis for Exemption	Notes
9340	372 6th St	4192	Rheem	82V40-2	NA	0.033	NG	Boiler	202.G.1.	
9340	372 6th St	4193	A.O. Smith	FCG100270	NA	0.04	NG	Boiler	202.G.1.	
10122	706 Washington Ave	4194	A.O. Smith	FGR75232	NA	0.075	NG	Boiler	202.G.1.	
10314	1206 California Blvd	4195	American Water Heater	CG3275T754NV	NA	0.074	NG	Boiler	202.G.1.	
10317	1204 California Blvd	4196	Bradford White	M4403T6EN12	NA	0.04	NG	Boiler	202.G.1.	
10364	722 Community Loop	4197	Vanguard	5AV69	NA	0.038	NG	Boiler	202.G.1.	
10366	730 Community Loop	4201	Bradford White	M440T6FBN	NA	0.04	NG	Boiler	202.G.1.	
10373	724 Community Loop	4202	A.O. Smith	40248E	NA	0.038	NG	Boiler	202.G.1.	
10503	711 Nebraska Ave	4203	Bradford White	M4403T6EN12	NA	0.033	NG	Boiler	202.G.1.	
10713	431 Herado Ave	4205	Bradford White	M4403T6EN12	NA	0.04	NG	Boiler	202.G.1.	
10717	430 Washington Ave	4206	Bradford White	M4403T6EN12	NA	0.04	NG	Boiler	202.G.1.	
11013	1036 California Blvd	4207	Bradford White	M4403T6EN12	NA	0.036	NG	Boiler	202.G.1.	
11040	41 Santa Inez Ave	4208	A.O. Smith	EGR40236	NA	0.038	NG	Boiler	202.G.1.	
12901	1102 Buellton Drive	4209	A.O. Smith	BTC200840	NA	0.199	NG	Boiler	202.G.1.	
12903	1104 Buellton Drive	4210	Bradford White	D100L199E3N	NA	0.199	NG	Boiler	202.G.1.	
12905	1106 Buellton Drive	4211	American Water Heater	G5275T804N	NA	0.08	NG	Boiler	202.G.1.	
12907	1108 Buellton Drive	4212	American Water Heater	BFG6140T403NO	NA	0.04	NG	Boiler	202.G.1.	
12911	1103 Buellton Drive	4213	American Appliance	DSID2501001	NA	0.25	NG	Boiler	202.G.1.	
12913	1105 Buellton Drive	4214	Bradford White	M47556CN12	NA	0.075	NG	Boiler	202.G.1.	
12915	1107 Buellton Drive	4215	American Appliance	DSID200-100G	NA	0.199	NG	Boiler	202.G.1.	
21330	End of Gun Rd	4218	A.O. Smith	FCR40-243	NA	0.037	LPG	Boiler	202.G.1.	
8312	376 8th St	4219	A.O. Smith	EGR40240	NA	0.038	NG	Boiler	202.G.1.	
11025	964 Utah Ave	4220	American Water Heater	BFG6140T403NO	NA	0.04	NG	Boiler	202.G.1.	
6015	6015 Santa Barbara Ave	4221	Dayton	FG9B08012UP11C	NA	0.075	NG	Furnace	202.G.1.	
6447	6447 14th St	4222	Payne	PG8JAA048090	NA	0.08	NG	Furnace	202.G.1.	
11439	1172 Iceland Ave	4223	Lennox	G51MP-600-110-08	NA	0.11	NG	Furnace	202.G.1.	

Table 3.2 External Combustion Equipment

Building Number	Equipment Location	Operator ID	Make	Model	Model Year	Rating (MMBtu/hr)	Fuel	Type of Unit	Basis for Exemption	Notes
12901	1102 Buellton Drive	4224	Lennox	G20Q3X-75-7	NA	0.075	NG	Furnace	202.G.1.	
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.	
12907	1108 Buellton Drive	4229	Lennox	G20Q3X-75-7	NA	0.075	NG	Furnace	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	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.	
14002	14002 Wyoming Ave	4236	Lennox	G16Q5X71007	NA	0.1	NG	Furnace	202.G.1.	
14002	14002 Wyoming Ave	4237	Lennox	G16Q5X71008	NA	0.1	NG	Furnace	202.G.1.	
14003	14003 Wyoming Ave	4238	Arcoaire	GDK125N120A1	NA	0.12	NG	Furnace	202.G.1.	
14003	14003 Wyoming Ave	4239	Arcoaire	GDK125N120A2	NA	0.12	NG	Furnace	202.G.1.	
14004	14004 Wyoming Ave	4240	Payne	PG8UAA066111	NA	0.11	NG	Furnace	202.G.1.	
14004	14004 Wyoming Ave	4241	Janitrol	CVC120-85	NA	0.12	NG	Furnace	202.G.1.	
14004	14004 Wyoming Ave	4242	Janitrol	CVC120-85	NA	0.12	NG	Furnace	202.G.1.	
14005	14005Wyoming Ave	4243	Janitrol	CVC120-85	NA	0.12	NG	Furnace	202.G.1.	
14005	14005Wyoming Ave	4244	Janitrol	CVC120-85	NA	0.12	NG	Furnace	202.G.1.	
14005	14005Wyoming Ave	4245	Janitrol	CVC120-85	NA	0.12	NG	Furnace	202.G.1.	
14006	14006 Wyoming Ave	4246	Janitrol	CVC120-85	NA	0.12	NG	Furnace	202.G.1.	
14006	14006 Wyoming Ave	4247	Janitrol	CVC120-85	NA	0.12	NG	Furnace	202.G.1.	
14006	14006 Wyoming Ave	4248	Janitrol	CVC120-85	NA	0.12	NG	Furnace	202.G.1.	
14007	14007 Wyoming Ave	4249	Janitrol	CVC120-85	NA	0.12	NG	Furnace	202.G.1.	

Table 3.2 External Combustion Equipment

Building Number	Equipment Location	Operator ID	Make	Model	Model Year	Rating (MMBtu/hr)	Fuel	Type of Unit	Basis for Exemption	Notes
14007	14007 Wyoming Ave	4250	Janitrol	CVC120-85	NA	0.12	NG	Furnace	202.G.1.	
14007	14007 Wyoming Ave	4251	Janitrol	CVC120-85	NA	0.12	NG	Furnace	202.G.1.	
14008	14008 Wyoming Ave	4252	Payne	PG8UAA066111	NA	0.11	NG	Furnace	202.G.1.	
14008	14008 Wyoming Ave	4253	Janitrol	CVC120-85	NA	0.12	NG	Furnace	202.G.1.	
14008	14008 Wyoming Ave	4254	Janitrol	CVC120-85	NA	0.12	NG	Furnace	202.G.1.	
14009	14009 Wyoming Ave	4255	Janitrol	CVC120-85	NA	0.12	NG	Furnace	202.G.1.	
14009	14009 Wyoming Ave	4256	Dayton	GF8100C16MU11A	NA	0.1	NG	Furnace	202.G.1.	
14010	14010 Wyoming Ave	4258	Rheem	RGDG12NARJR	NA	0.125	NG	Furnace	202.G.1.	
14010	14010 Wyoming Ave	4259	Rheem	RGDG12NARJR	NA	0.125	NG	Furnace	202.G.1.	
14010	14010 Wyoming Ave	4260	Rheem	RGDG12NARJR	NA	0.125	NG	Furnace	202.G.1.	
14010	14010 Wyoming Ave	4261	Rheem	RGDG12NARJR	NA	0.125	NG	Furnace	202.G.1.	
14010	14010 Wyoming Ave	4262	Rheem	RGDG12NARJR	NA	0.125	NG	Furnace	202.G.1.	
14010	14010 Wyoming Ave	4263	Rheem	RGDG12NARJR	NA	0.125	NG	Furnace	202.G.1.	
14010	14010 Wyoming Ave	4264	Rheem	RGDG12NARJR	NA	0.125	NG	Furnace	202.G.1.	
14010	14010 Wyoming Ave	4265	Rheem	RGDG12NARJR	NA	0.125	NG	Furnace	202.G.1.	
23228	228 Bishop Rd	4266	Lennox	G51MP-60C-110-01	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.	
13851	1200 Santa Maria Ave	4270	Heat Transfer/Phoenix	PH199-55	NA	0.199	NG	Boiler	202.G.1.	
13853	1101 Santa Maria Ave	4271	Heat Transfer/Phoenix	PH199-55	NA	0.199	NG	Boiler	202.G.1.	
13853	1101 Santa Maria Ave	4272	Heat Transfer/Phoenix	PH199-55	NA	0.199	NG	Boiler	202.G.1.	
13855	1001 Santa Maria Ave	4273	Heat Transfer/Phoenix	PH199-55	NA	0.199	NG	Boiler	202.G.1.	
13858	1102 Guadalupe Ave	4274	Heat Transfer/Phoenix	PH199-55	NA	0.199	NG	Boiler	202.G.1.	
13858	1102 Guadalupe Ave	4275	Heat Transfer/Phoenix	PH199-55	NA	0.199	NG	Boiler	202.G.1.	
10577	747 Nebraska Ave	4276	Raypak	H7-500	NA	0.5	NG	Boiler	202.G.1.	
10577	747 Nebraska Ave	4277	Raypak	H7-500	NA	0.5	NG	Boiler	202.G.1.	
10577	747 Nebraska Ave	4278	Raypak	H7-500	NA	0.5	NG	Boiler	202.G.1.	

Table 3.2 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	4279	Raypak	H7-500	NA	0.5	NG	Boiler	202.G.1.	
6601	1785 Utah Ave	4282	American Water Heater Co	CG32-75T75-4NOV	NA	0.075	NG	Boiler	202.G.1.	
1806	1806 Taurus Rd	4289	Parker	G672RL	NA	0.672	LPG	Boiler	202.G.1.	
6005	6005 Santa Barbara Ave	4290	American Standard	CG32-75T75-4NOV	NA	0.075	NG	Boiler	202.G.1.	
14009	14009 Wyoming Ave.	4302	Payne	PG8JAA066110	NA	0.11	NG	Furnace	202.G.1	
13862	1101 Guadalupe Ave.	4303	Phoenix	PH199-55	NA	0.199	NG	Boiler	202.G.1.	
10711	433 Herado Ave.	4304	American Water Heater	CG32-75T75-4NOV	NA	0.075	NG	Boiler	202.G.1.	
8312	376 8th St	4308	Comfort Aire	GMUH125-E5A	NA	0.125	NG	Furnace	202.G.1.	
8312	376 8th St	4309	Comfort Aire	GMUH125-E5A	NA	0.125	NG	Furnace	202.G.1.	
10130	737 Washington Ave	4295	Riverside Hydronics	2000W	NA	2	NG	Boiler	202.G.1.	

NA = Not Available
NG = Natural Gas
LPG = Liquefied Propane Gas

Table 3.3 Other Operations

Building Number	Equip. Location	Operator ID	Device Type	Hourly Limit	Daily Limit	Quarterly Limit	Annual Limit	Units	Basis for Exemption
875	875 Sweeney Rd	1854	Abrasive Blasting Operations	NA	NA	NA	97500	lbs	202.H.1
1737	340 Airfield Rd	3521	Abrasive Blasting Operations	NA	NA	NA	416	Hr	202.H.1
1749	1749 Airfield Rd	3633	Abrasive Blasting Operations	NA	NA	NA	416	Hr	202.H.1
541	541 Coast Rd	3634	Abrasive Blasting Operations	NA	NA	NA	416	Hr	202.H.1
9327	1346 New Mexico Ave	3837	Abrasive Blasting Operations	NA	NA	NA	416	Hr	202.H.1
10260	101 Community Loop	3839	Abrasive Blasting Operations	NA	NA	NA	416	Hr	202.H.1
8190	1580 Nevada Ave	3978	Abrasive Blasting Operations	NA	NA	NA	416	Hr	202.H.1
8415	178 8th St	4164	Abrasive Blasting Operations	NA	NA	NA	NA	NA	202.H.1
21155	155 Corral Rd Rd	4283	Abrasive Blasting Operations	NA	NA	NA	NA	NA	202.H.1
Various	Entire Base	NA	Architectural Coating	NA	NA	NA	NA	NA	202.D.14
10723	Nevada Ave	1214	AST; Diesel; 4,000 Gallons	NA	24	NA	8760	Hr	202.V.2
1624	1624 Aero Rd	1220	AST; Diesel; 235 Gallons	NA	24	NA	8760	Hr	202.V.2
1705	173 Airfield Rd	1249	AST; Diesel; 20,000 Gallons	NA	24	NA	8760	Hr	202.V.2
1705	173 Airfield Rd	1250	AST; Diesel; 20,000 Gallons	NA	24	NA	8760	Hr	202.V.2
9505	180 Landfill Rd	3164	AST; Diesel; 500 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
5425	2010 20th St	3438	AST; Diesel; 500 Gallons	NA	24	NA	8760	Hr	202.V.2
1731	320 Airfield Rd	3883	AST; Diesel; 525 Gallons	NA	24	NA	8760	Hr	202.V.2
5425	2010 20th St	3926	AST; Diesel; 240 Gallons	NA	24	NA	8760	Hr	202.V.2
1731	320 Airfield Rd	4139	AST; Diesel; 500 Gallons	NA	24	NA	8760	Hr	202.V.2
1624	1624 Aero Rd	1232	AST; Gasoline; 235 Gallons	NA	24	NA	8760	Hr	202.V.7
1624	1624 Aero Rd	1234	AST; Gasoline; 235 Gallons	NA	24	NA	8760	Hr	202.V.7
1345	1350 Koa Rd	1243	AST; Gasoline; 249 Gallons	NA	24	NA	8760	Hr	202.V.7
5425	2010 20th St	3439	AST; Gasoline; 240 Gallons	NA	24	NA	8760	Hr	202.V.7
800	800 Napa Rd	3880	AST; Gasoline; 249 Gallons	NA	24	NA	8760	Hr	202.V.7
1851	1851 Curly Rd	3882	AST; Gasoline; 249 Gallons	NA	24	NA	8760	Hr	202.V.7

Table 3.3 Other Operations

Building Number	Equip. Location	Operator ID	Device Type	Hourly Limit	Daily Limit	Quarterly Limit	Annual Limit	Units	Basis for Exemption
5425	2010 20th St	3925	AST; Gasoline; 240 Gallons	NA	24	NA	8760	Hr	202.V.7
10260	101 Community Loop	3436	AST; Used Oil; 1,000 Gallons	NA	24	NA	8760	Hr	202.V.7
3300	3235 New Mexico	3435	AST; Used Oil; 2,000 Gallons	NA	24	NA	8760	Hr	202.V.7
NA	Mira and Tangier Rds	3465	EOD Range	NA	500	NA	8000	lbs donor charge	202.P.13
753	853 Arguello Rd	SCR01	Scrubber; Fuel (FVSS)	NA	NA	NA	NA	NA	202.D.6
753	853 Arguello Rd	SCR02	Scrubber; Nitrogen Tetroxide (OVSS)	NA	NA	NA	NA	NA	202.D.6
21330	End of Gun Road	3493	Small Arms Range	NA	NA	NA	NA	NA	202.D.10
854	864 Arguello Rd	3533	Solvent Cleaning Machine	NA	8	NA	2080	Hr	202.U.2-3
10711	433 Herado Ave	3954	Solvent Cleaning Machine	NA	8	NA	2080	Hr	202.U.2-3
10711	433 Herado Ave	4126	Solvent Cleaning Machine	NA	8	NA	2080	Hr	202.U.2-3
3000	3000 29th St	4128	Solvent Cleaning Machine	NA	8	NA	2080	Hr	202.U.2-3
9320	334 6th St	4129	Solvent Cleaning Machine	NA	8	NA	2080	Hr	202.U.2-3
1728	302 Airfield Rd	4137	Solvent Cleaning Machine	NA	8	NA	2080	Hr	202.U.2-3
9320	334 6th St	4152	Solvent Cleaning Machine	NA	8	NA	2080	Hr	202.U.2-3
1749	1748 Airfield Rd	4158	Solvent Cleaning Machine	NA	8	NA	2080	Hr	202.U.2-3
8310	351 8th St	4138	Solvent Cleaning Machine - Vapor	NA	NA	NA	NA	NA	202.U.2-3
10726	442 Washington Ave	UST04	UST; Biodiesel; 10,000 Gallons	NA	24	NA	8760	Hr	202.V.2
NA	Various Locations	3547	Wood Chipper; Reg# 123540	NA	24	NA	8760	Hr	PERP - RN 123539
1788	Site 13C/ABRES	NA	Soil Vapor Extraction System	NA	NA	NA	NA	Hr	FFSRA
1930	Site 32C	NA	Soil Vapor Extraction System	NA	NA	NA	NA	Hr	FFSRA

NA = Not Available
RN = Registered Number
FFSRA = Federal Facility Site Remediation Agreement

Rule Number	Rule Name	Affected Emission Units	In Compliance? (Yes/No/ Exempt/NA)	Effective Date
101	Title: Compliance by Existing Installation; Conflicts	VAFB	Yes	
102	Definitions	VAFB	Yes	
103	Severability	VAFB	Yes	
104	Agricultural Burning	None	NA	
105	Applicability	VAFB	Yes	
201	Permits Required	VAFB	Yes, when applicable	
202	Exemptions to Rule 201, General	VAFB	Yes	
203	Transfer	VAFB	Yes	
205	Standards for Granting Applications	VAFB	Yes	
206	Conditional Approval of Authority to Construct or Permit to Operate	VAFB	Yes	
212	Emission Statements	VAFB	Yes	
301	Circumvention	VAFB	Yes	
302	Visible Emissions	VAFB	Yes	
303	Nuisance	VAFB	Yes	
304	Particulate Matter - Northern Zone	VAFB	Yes	
305	Particulate Matter Concentration - Southern Zone	None	NA	
306	Dust and Fumes - Northern Zone	VAFB	Yes	
307	Particulate Matter Emission Weight Rate - Southern Zone	None	NA	
308	Incinerator Burning	VAFB	Yes	
309	Specific Contaminants	VAFB	Yes	
311	Sulfur Contents of Fuel	Combustion Units	Yes	
312	Open Fires	VAFB	Yes	
313	Fires Set Under Public Authority	VAFB	Yes	
314	Reduction of Animal Matter	None	NA	
315	Gasoline Specifications	Gasoline distributors, and sellers on VAFB	Yes	
316	Storage and Transfer of Gasoline	Gasoline distributors, and sellers on VAFB	Yes	
317	Organic Solvents	VAFB	Yes	
318	Vacuum Producing Devices or Systems-S.C. Air Basin (see district #318)	None	NA	

Rule Number	Rule Name	Affected Emission Units	In Compliance? (Yes/No/ Exempt/NA)	Effective Date
319	Asphalt Air Blowing - Southern Zone	None	NA	
320	Petroleum Solvent Dry Cleaners	None	NA	
321	Control of Degreasing Operations	VAFB	Yes	
322	Metal Surface Coating Thinner and Reducer	VAFB	Yes	
323	Architectural Coatings	VAFB	Yes	
324	Disposal and Evaporation of Solvents	VAFB	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	VAFB	Yes	
330	Surface Coating of Manufactured Metal Parts	VAFB	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 ≥ 50 bhp	Yes	
337	Surface Coating of Aircraft or Aerospace Vehicle Parts and Products	VAFB	Yes	
339	Motor Vehicle and Mobile Equipment Coating Operations	Spray Paints Booths	Yes	
342	Control of NOx from Boilers Steam Generators and Process Heaters	None	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	

Rule Number	Rule Name	Affected Emission Units	In Compliance? (Yes/No/ Exempt/NA)	Effective Date
349	Polyester Resin Operations	VAFB	Yes	
351	Surface Coating of Wood Products	VAFB	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	VAFB	Yes	
354	Graphic Arts	VAFB	Yes	
359	Flares and Thermal Oxidizers	None	NA	
360	Emissions of Oxides of Nitrogen from Large Water Heaters and Small Boilers	New hot water heaters, boilers, steam generators, and process heaters with heat input capacity ≥ 0.75 mbtu/hr and ≤ 2 mmbtu/hr	Yes	
361	Small Boilers, Steam Generators and Process Heaters	Boilers, steam generators, and process heaters with heat input capacity > 2 mmbtu/hr and < 5 mmbtu/hr	Yes	15 Mar 2016
370	Potential to Emit-Limitation for Part 70 Sources	VAFB	Yes	
401	Agricultural and Prescribed Burning	VAFB	Yes	
403	Burning Permit for Non-Burning Days: Report Requirements	VAFB	Yes	
505	Breakdown Conditions	VAFB	Yes	
603	Emergency Episode Plans	VAFB	Yes	
609	Interdistrict Coordination	NA	NA	
702	General Conformity	VAFB	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	
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	VAFB	Yes	

Rule Number	Rule Name	Affected Emission Units	In Compliance? (Yes/No/ Exempt/NA)	Effective Date
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	

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 ≤100MMBtu/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 VAFB	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)	

Compliance Certification

Under penalty of perjury, I certify the following (initial only those that apply):

Based on information and belief formed after reasonable inquiry, the source identified in this application will continue to comply with the applicable federal requirement(s) identified above with which the source complies;

Based on information and belief formed after reasonable inquiry, the source identified in this application will comply in a timely manner[1] with the applicable federal requirement(s) identified above which will become effective during the permit term;

— Based on information and belief formed after reasonable inquiry, the source identified in this application is not in compliance with the applicable federal requirement(s) and I have attached a compliance plan schedule.[2]

I certify under penalty of law, based on information and belief formed after reasonable inquiry, that the statements and information contained in this application and its attachments are true, accurate, and complete. 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 District 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 District in writing and I will be charged for all costs incurred through closure of the District files on the project.

NINA M. ARMAGNO, Colonel, USAF	Commander, 30th Space Wing
Print Name of Responsible Official	Title of Responsible Official
	25 Jan 12
Signature of Responsible Official	Date

1. Unless a more detailed schedule is expressly required by the applicable federal requirement.
2. At the time of expected permit issuance, if the source expects to be out of compliance with an applicable federal requirement, the applicant is required to provide a compliance schedule with this application, with the following exception. A source which is operating under a variance that is effective for less than 90 days need not submit a Compliance Schedule. For sources operating under a variance, which is in effect for more than 90 days, the Compliance Schedule is the schedule that was approved as part of the variance granted by the hearing board. The compliance schedule shall contain a schedule of remedial measures, including an enforceable sequence of actions with milestones, leading to compliance with this applicable federal requirement. For sources operating under a variance, the compliance schedule is part of the variance granted by the hearing board. The compliance schedule shall resemble, and be at least as stringent as that contained in any judicial consent decree or administrative order to which the source is subject. For sources not operating under a variance, consult the Air Pollution Control Officer regarding procedures for obtaining a compliance schedule.

- ☒ 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 = $352. 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 1
Emission Calculations

Vandenberg Air Force Base
Title V Application

Emissions from Permit Exempt Units – Other Operations

1. Abrasive Blasting Operations

   The listed devices are less than 50 ft^3. Please see the ABS tab in VAFB T-V Emissions Calcs spreadsheet for estimated emissions.

2. Architectural Coatings

   The 2011 HazMart records show VAFB emitted 6.73 tons of ROCs from architectural coatings.

3. AST/UST – Diesel/Biodiesel

   The emissions from the diesel or biodiesel tanks were assumed to be negligible and were not estimated.

4. AST- Gasoline

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

5. Explosive Ordinance Disposal (EOD) Range

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

6. Scrubbers, Fuel/Nitrogen Tetroxide

   These two scrubbers were permitted under PTO 9171-R2. The PTO was cancelled because the emissions going into the scrubber come from permit exempt operations and therefore a permit is not required for the scrubbers. The current emissions from the scrubbers can reasonably estimated as the permitted emissions. The ROC emissions from the scrubber are taken directly from the permit and include isopropyl alcohol emissions that are now recorded and reported under the VAFB miscellaneous solvent permits.

7. Small Arms Range

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

8. Solvent Cleaning Machines

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

9. Solvent Cleaning Machines – Vapor

   From usage records, we are estimating 110 gallons/yr of usage of HFE-7100 – a zero VOC solvent.

10. Wood Chipper

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

11. Soil Vapor Extraction Systems

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

    Bldg 1930/Site 32C – This system is part of Removal Action to reduce trichloroethene concentration in the soil. Four wells have been drilled and the vapors extracted from the wells are sent to two 1,000 pond carbon vessels that are connected in series. Estimated emissions are shown in the Site 32C tab in VAFB T-V Emissions Calcs spreadsheet.

Table 4.1 Summary of Emissions from Permit Exempt Sources

Category	Emissions (Lbs/Yr)			Emissions (TPY)		
	NOX	ROC	PM10	NOX	ROC	PM10
Permit Exempt ICE	31,586	5,480	NE	15.79	2.74	0.00
PERP Registered ICE	26,427	4,113	NE	13.21	2.06	0.00
Tactical Support Equipment	95,921	8,402	NE	47.96	4.20	0.00
External Combustion	44,659	2,295	NE	22.33	1.15	0.00
Abrasive Blasting	NE	NE	2,710	0.00	0.00	1.36
Architectural Coatings	NE	13,460	NE	0.00	6.73	0.00
Fuel Storage Tanks	NE	874	NE	0.00	0.44	0.00
EOD Range	67	9	NE	0.03	0.00	0.00
Scrubbers Fuel/Nitrogen Tetroxide	320	52	NE	0.16	0.03	0.00
Small Arms Range	24	NE	NE	0.01	0.00	0.00
Soil Vapor Extraction Systems	NE	23.12	NE	0.00	0.00	0.00
Wood Chipper	NE	NE	8,528	0.00	0.00	4.26
Total	199,004	34,709	11,238	99.50	17.34	5.62

Notes

NE = Not Estimated

Table 4.2 Estimated Emissions from Permit Exempt Internal Combustion Engines

Description	Location	Pri_ID	Fuel	Equation	Hours Actual	Hours PTE	Size (BHP)	Emission Factors NOx*	Emission Factors ROC*	Emissions (Lbs/Yr) NOx	Emissions (Lbs/Yr) ROC
Stationary											
Facility Power	1577	632	LPG	HRS_YR*HP*EF_FACTOR*0.1148/1000	95.9	199.9	77	139.1	30.195	245.76	37.12
Facility Power	1579	635	Diesel	HRS_YR*HP*EF_FACTOR/453.6	36.3	500	45	14.1	1.12	699.40	55.56
Facility Power	14300	765	LPG	HRS_YR*HP*EF_FACTOR*0.1148/1000	5.2	199.9	57	139.1	30.195	181.93	27.48
Facility Power	13675	766	LPG	HRS_YR*HP*EF_FACTOR*0.1148/1000	17	199.9	90	139.1	30.195	287.25	43.39
Facility Power	23215	770	NG	HP*EF_FACTOR*10*HRS_YR/1000000	16.4	199.9	1466	863.9	120.36	2531.81	352.72
Facility Power	23215	771	NG	HP*EF_FACTOR*10*HRS_YR/1000000	25.7	199.9	1466	863.9	120.36	2531.81	352.72
Facility Power	8310	869	LPG	HRS_YR*HP*EF_FACTOR*0.1148/1000	30.5	199.9	50	139.1	30.195	159.58	24.11
Facility Power	1555	3015	Diesel	HRS_YR*HP*EF_FACTOR/453.6	0.0	500	38	14.1	1.12	590.61	46.91
Facility Power	1905	3019	Diesel	HRS_YR*HP*EF_FACTOR/453.6	27.5	500	38	14.1	1.12	590.61	46.91
Facility Power	6523	3020	Diesel	HRS_YR*HP*EF_FACTOR/453.6	34.0	500	41	14.1	1.12	637.24	50.62
Facility Power	8510	3053	NG	HP*EF_FACTOR*10*HRS_YR/1000000	48.7	199.9	170	863.9	120.36	293.59	40.90
Facility Power	SLC-3	3054	Diesel	HRS_YR*HP*EF_FACTOR/453.6	48.9	500	42	14.1	1.12	652.78	51.85
Facility Power	51	3063	LPG	HRS_YR*HP*EF_FACTOR*0.1148/1000	30.1	199.9	104	139.1	30.195	331.93	50.14
Flood/Overflow Control	856	3065	LPG	HRS_YR*HP*EF_FACTOR*0.1148/1000	24.3	199.9	56	139.1	30.195	178.73	27.00
Flood/Overflow Control	3250	3067	LPG	HRS_YR*HP*EF_FACTOR*0.1148/1000	121.8	199.9	77	139.1	30.195	245.76	37.12
Facility Power	6670	3068	NG	HP*EF_FACTOR*10*HRS_YR/1000000	16.7	199.9	173	863.9	120.36	298.77	41.62
Flood/Overflow Control	863	3070	LPG	HRS_YR*HP*EF_FACTOR*0.1148/1000	12.5	199.9	25	139.1	30.195	79.79	12.05
Facility Power	865	3072	LPG	HRS_YR*HP*EF_FACTOR*0.1148/1000	37.2	199.9	77	139.1	30.195	245.76	37.12
Facility Power	475	3083	LPG	HRS_YR*HP*EF_FACTOR*0.1148/1000	32.9	199.9	500	139.1	30.195	1595.84	241.05
Facility Power	11477	3187	Diesel	HRS_YR*HP*EF_FACTOR/453.6	4.9	500	12	14.1	1.12	186.51	14.81
Facility Power	1524	3190	Diesel	HRS_YR*HP*EF_FACTOR/453.6	153.6	500	19	14.1	1.12	295.30	23.46
Facility Power	6601	3198	LPG	HRS_YR*HP*EF_FACTOR*0.1148/1000	16	199.9	24	139.1	30.195	76.60	11.57
Flood/Overflow Control	1758	3199	LPG	HRS_YR*HP*EF_FACTOR*0.1148/1000	99.3	199.9	81	139.1	30.195	258.53	39.05
Facility Power	866	3278	LPG	HRS_YR*HP*EF_FACTOR*0.1148/1000	34.9	199.9	27	139.1	30.195	86.18	13.02
Facility Power	799	3279	NG	HP*EF_FACTOR*10*HRS_YR/1000000	56.2	199.9	104	863.9	120.36	179.61	25.02
Facility Power	6601	3396	LPG	HRS_YR*HP*EF_FACTOR*0.1148/1000	15.8	199.9	173	139.1	30.195	552.16	83.40
Facility Power	809	3416	LPG	HRS_YR*HP*EF_FACTOR*0.1148/1000	24.2	199.9	76.5	139.1	30.195	244.16	36.88
Facility Power	1871	3464	LPG	HRS_YR*HP*EF_FACTOR*0.1148/1000	0	199.9	354	139.1	30.195	1129.85	170.67
Facility Power	1743	3567	LPG	HRS_YR*HP*EF_FACTOR*0.1148/1000	21.2	199.9	173	139.1	30.195	552.16	83.40
Facility Power	6819	3597	Diesel	HRS_YR*HP*EF_FACTOR/453.6	15.3	500	45	14.1	1.12	699.40	55.56
Facility Power	518	3603	Diesel	HRS_YR*HP*EF_FACTOR/453.6	58.4	500	44.8	5.2	0.4	256.79	19.75
Facility Power	23160	3605	Diesel	HRS_YR*HP*EF_FACTOR/453.6	16.0	500	44.8	5.2	0.4	256.79	19.75
Facility Power	1737	3804	Diesel	HRS_YR*HP*EF_FACTOR/453.6	15.2	500	18	14.1	1.12	279.76	22.22
Facility Power	490	3914	Diesel	HRS_YR*HP*EF_FACTOR/453.6	55.3	500	44.8	14.1	1.12	696.30	55.31
Facility Power	SLC-3	3932	Diesel	HRS_YR*HP*EF_FACTOR/453.6	44.2	500	42	14.1	1.12	652.78	51.85
Facility Power	13730	3952	LPG	HRS_YR*HP*EF_FACTOR*0.1148/1000	20.6	199.9	95	139.1	30.195	303.21	45.80
Facility Power	1740	4003	LPG	HRS_YR*HP*EF_FACTOR*0.1148/1000	16	199.9	77	139.1	30.195	245.76	37.12
Facility Power	1530	4067	LPG	HRS_YR*HP*EF_FACTOR*0.1148/1000	54.9	199.9	55	139.1	30.195	175.54	26.52
Facility Power	1841	4113	Diesel	HRS_YR*HP*EF_FACTOR/453.6	22.3	500	25	5.2	0.4	143.30	11.02
Facility Power	1501	4177	Diesel	HRS_YR*HP*EF_FACTOR/453.6	81.1	500	47	14.1	1.12	730.49	58.02
Portable											
Trailer/Van APU	VARIOUS LOCATIONS	591	Diesel	HRS_YR*HP*EF_FACTOR/453.6	0.0	500	22	14.1	1.12	341.93	27.16
Trailer/Van APU	VARIOUS LOCATIONS	592	Diesel	HRS_YR*HP*EF_FACTOR/453.6	46.0	500	22	14.1	1.12	341.93	27.16
Trailer/Van APU	VARIOUS LOCATIONS	593	Diesel	HRS_YR*HP*EF_FACTOR/453.6	18.0	500	22	14.1	1.12	341.93	27.16
Trailer/Van APU	VARIOUS LOCATIONS	594	Diesel	HRS_YR*HP*EF_FACTOR/453.6	0.0	500	22	14.1	1.12	341.93	27.16
Trailer/Van APU	VARIOUS LOCATIONS	595	Diesel	HRS_YR*HP*EF_FACTOR/453.6	5.5	500	22	14.1	1.12	341.93	27.16
Trailer/Van APU	VARIOUS LOCATIONS	596	Diesel	HRS_YR*HP*EF_FACTOR/453.6	14.0	500	22	14.1	1.12	341.93	27.16
Welding	10711	762	Diesel	HRS_YR*HP*EF_FACTOR/453.6	10.0	500	32.5	14.1	1.12	505.13	40.12
Satellite Transporation [a]	3000	3047	Gasoline	HRS_YR*HP*EF_FACTOR*0.0808/1000	0.0	500	30	203.8	365	246.95	442.38
Satellite Transporation	3000	3180	Diesel	HRS_YR*HP*EF_FACTOR/453.6	24.0	500	32.5	14.1	1.12	505.13	312.80
Auxiliary Power	8425	3193	Diesel	HRS_YR*HP*EF_FACTOR/453.6	41.9	500	30	14.1	1.12	466.27	164.63
Auxiliary Power	8425	3194	Diesel	HRS_YR*HP*EF_FACTOR/453.6	25.0	500	30	14.1	1.12	466.27	189.32
Welding [a]	1620C	3316	Gasoline	HRS_YR*HP*EF_FACTOR*0.0808/1000	16.6	500	38	203.8	365	312.80	560.35
Backup Air Compressor [a]	10711	3320	Gasoline	HRS_YR*HP*EF_FACTOR*0.0808/1000	5.0	500	20	203.8	365	164.63	294.92
Auxiliary Power	9320	3328	Diesel	HRS_YR*HP*EF_FACTOR/453.6	5.7	500	42	14.1	1.12	652.78	51.85
Optical Tracking	12000	3394	Diesel	HRS_YR*HP*EF_FACTOR/453.6	165.6	500	16	14.1	1.12	248.68	19.75
Aircraft Support	1755	3421	Diesel	HRS_YR*HP*EF_FACTOR/453.6	0.0	500	49	14.1	1.12	761.57	60.49
Optical Tracking	12000	3558	Diesel	HRS_YR*HP*EF_FACTOR/453.6	241.8	500	16	14.1	1.12	248.68	19.75
Optical Tracking	12000	3559	Diesel	HRS_YR*HP*EF_FACTOR/453.6	168.2	500	16	14.1	1.12	248.68	19.75
Leaf Blower[a]	5425	3602	Gasoline	FUEL /1000*EF_FACTOR	70.0	500	23	203.8	365	189.32	339.16
Air Compressor	525	3992	Diesel	HRS_YR*HP*EF_FACTOR/453.6	149.5	500	49	5.2	0.4	280.86	21.60
Air Compressor	525	3993	Diesel	HRS_YR*HP*EF_FACTOR/453.6	93.4	500	49	5.2	0.4	280.86	21.60
Air Compressor	525	3994	Diesel	HRS_YR*HP*EF_FACTOR/453.6	28.1	500	49	5.2	0.4	280.86	21.60
Air Compressor	525	3995	Diesel	HRS_YR*HP*EF_FACTOR/453.6	46.5	500	49	5.2	0.4	280.86	21.60
Air Compressor	525	4021	Diesel	HRS_YR*HP*EF_FACTOR/453.6	45.2	500	49	5.2	0.4	280.86	21.60
Air Compressor	525	4022	Diesel	HRS_YR*HP*EF_FACTOR/453.6	65.8	500	49	5.2	0.4	280.86	21.60
Air Compressor	525	4023	Diesel	HRS_YR*HP*EF_FACTOR/453.6	126.9	500	49	5.2	0.4	280.86	21.60
Air Compressor	525	4024	Diesel	HRS_YR*HP*EF_FACTOR/453.6	115.6	500	49	5.2	0.4	280.86	21.60
Auxiliary Power	3000	4072	Diesel	HRS_YR*HP*EF_FACTOR/453.6	24.0	500	49	5.2	0.4	280.86	21.60
Auxiliary Power	3000	4073	Diesel	HRS_YR*HP*EF_FACTOR/453.6	24.0	500	49	5.2	0.4	280.86	21.60
Trailer/Van APU	VARIOUS LOCATIONS	4161	Diesel	HRS_YR*HP*EF_FACTOR/453.6	12.0	500	28.5	14.1	1.12	442.96	35.19
Trailer/Van APU	VARIOUS LOCATIONS	4162	Diesel	HRS_YR*HP*EF_FACTOR/453.6	12.0	500	28.5	14.1	1.12	442.96	35.19
Trailer/Van APU	VARIOUS LOCATIONS	4163	Diesel	HRS_YR*HP*EF_FACTOR/453.6	12.0	500	28.5	14.1	1.12	442.96	35.19
									Total (Lbs/yr)	**31,586.11**	**5,480.47**
									Total (TPY)	**15.79**	**2.74**

Notes:

For spark ignited engines, hours for PTE is 199.9 hours; Emission Factors Units are - LPG = lbs/1000 gal; NG = lbs/MMSCF

For compression ignition engines, hours for PTE is 500 hours; Emission Factors are in gms/hp-hr

[a]For this source, hours are the annual fuel usage in gallons with a PTE of 500 gallons/year; Emission Factors Units are lbs/1000 gal.

Table 4.3 Estimated Emissions from PERP Internal Combustion Engines

Description	Registration #	Location	Pri_ID	Fuel	Engine Tier	Equation	Hours		Size	Emission Factors		Emissions (Lbs/Yr)	
							Actual	PTE	(BHP)	NOx*	ROC*	NOx	ROC
Air Compressor	102410	SLC-2	688	Diesel	OFF-RD TIER_0	HRS_YR*HP*EF_FACTOR/453.6	3.9	500	109	14.1	1.12	1694.11	134.57
Painting	102413	VARIOUS LOCATIONS	3087	Diesel	OFF-RD TIER_1 175-300 HP	HRS_YR*HP*EF_FACTOR/453.6	26.4	500	220	6.9	0.999	1673.28	242.26
Auxiliary Power	114613	9320	3326	Diesel	OFF-RD TIER_1 100-175 HP	HRS_YR*HP*EF_FACTOR/453.6	58.1	500	116	6.9	1.12	882.28	143.21
Auxiliary Power	114614	9320	3327	Diesel	OFF-RD TIER_1 100-175 HP	HRS_YR*HP*EF_FACTOR/453.6	109.2	500	116	6.9	1.12	882.28	143.21
Satellite Transporation	114872	3000	3391	Diesel	OFF-RD TIER_1 100-175 HP	HRS_YR*HP*EF_FACTOR/453.6	14.8	500	150	6.9	1.12	1140.87	185.19
Painting	117921	VARIOUS LOCATIONS	3496	Diesel	OFF-RD TIER_1 50-75 HP	HRS_YR*HP*EF_FACTOR/453.6	0.0	500	50	6.9	1.12	380.29	61.73
Painting	117353	533	3501	Diesel	OFF-RD TIER_1 100-175 HP	HRS_YR*HP*EF_FACTOR/453.6	12.4	500	115	6.9	1.12	874.67	141.98
Painting	117354	533	3502	Diesel	OFF-RD TIER_1 100-175 HP	HRS_YR*HP*EF_FACTOR/453.6	14.4	500	115	6.9	1.12	874.67	141.98
Painting	117355	533	3503	Diesel	OFF-RD TIER_1 100-175 HP	HRS_YR*HP*EF_FACTOR/453.6	60.0	500	115	6.9	1.12	874.67	141.98
Painting	117356	533	3504	Diesel	OFF-RD TIER_1 100-175 HP	HRS_YR*HP*EF_FACTOR/453.6	97.1	500	115	6.9	1.12	874.67	141.98
Painting	117357	533	3505	Diesel	OFF-RD TIER_1 100-175 HP	HRS_YR*HP*EF_FACTOR/453.6	202.3	500	115	6.9	1.12	874.67	141.98
Auxiliary Power	117358	533	3506	Diesel	OFF-RD TIER_1 100-175 HP	HRS_YR*HP*EF_FACTOR/453.6	113.0	500	115	6.9	1.12	874.67	141.98
Auxiliary Power	120369	3000	3516	Diesel	OFF-RD TIER_1 100-175 HP	HRS_YR*HP*EF_FACTOR/453.6	6.1	500	119	6.9	1.12	905.09	146.91
APU for Transports	120370	3000	3517	Diesel	OFF-RD TIER_1 100-175 HP	HRS_YR*HP*EF_FACTOR/453.6	5.6	500	119	6.9	1.12	905.09	146.91
APU for Transports	123539	VARIOUS LOCATIONS	3546	Diesel	OFF-RD TIER_1 75-100 HP	HRS_YR*HP*EF_FACTOR/453.6	72.0	500	85	6.9	1.12	646.49	104.94
Chipper Engine	132820	3000	3742	Diesel	OFF-RD TIER_2 50-75 HP	HRS_YR*HP*EF_FACTOR/453.6	0.3	500	55	5.2	0.3996	315.26	24.23
Auxiliary Power	146504	525	3806	Diesel	OFF-RD TIER_0	HRS_YR*HP*EF_FACTOR/453.6	0.0	500	65	14.1	1.12	1010.25	80.25
Air Compressor	141898	3000	3912	Diesel	OFF-RD TIER_3 175-300 HP	HRS_YR*HP*EF_FACTOR/453.6	2.0	500	260	2.8	0.3996	802.47	114.52
Air Compressor	141899	3000	3913	Diesel	OFF-RD TIER_3 175-300 HP	HRS_YR*HP*EF_FACTOR/453.6	2.1	500	260	2.8	0.3996	802.47	114.52
ATS Prime Mover APU	144722	3000	3949	Diesel	OFF-RD TIER_3 100-175 HP	HRS_YR*HP*EF_FACTOR/453.6	9.0	500	172	2.8	1.12	530.86	212.35
ATS Prime Mover APU	144723	3000	3950	Diesel	OFF-RD TIER_3 100-175 HP	HRS_YR*HP*EF_FACTOR/453.6	11.3	500	172	2.8	1.12	530.86	212.35
Freightliner APU	117705	VARIOUS LOCATIONS	3979	Diesel	OFF-RD TIER_1 75-100 HP	HRS_YR*HP*EF_FACTOR/453.6	134.5	500	91	6.9	1.12	692.13	112.35
Auxiliary Power	146503	3000	3982	Diesel	OFF-RD TIER_4 50-75 HP INTERIM	HRS_YR*HP*EF_FACTOR/453.6	0.0	500	57	3.5	1.12	219.91	70.37
Auxiliary Power	146695	VARIOUS LOCATIONS	3985	Diesel	OFF-RD TIER_3 300-600 HP	HRS_YR*HP*EF_FACTOR/453.6	0.0	500	315	2.8	0.1998	972.22	69.38
Wastewater Pump	149555	VARIOUS LOCATIONS	4015	Diesel	OFF-RD TIER_3 75-100 HP	HRS_YR*HP*EF_FACTOR/453.6	8.1	500	80	3.3	0.1998	291.01	17.62
Wastewater Pump	149556	VARIOUS LOCATIONS	4016	Diesel	OFF-RD TIER_3 75-100 HP	HRS_YR*HP*EF_FACTOR/453.6	40.9	500	80	3.3	0.1998	291.01	17.62
Wastewater Pump	149557	VARIOUS LOCATIONS	4017	Diesel	OFF-RD TIER_3 75-100 HP	HRS_YR*HP*EF_FACTOR/453.6	6.6	500	80	3.3	0.1998	291.01	17.62
Wastewater Pump	149558	VARIOUS LOCATIONS	4018	Diesel	OFF-RD TIER_3 75-100 HP	HRS_YR*HP*EF_FACTOR/453.6	6.4	500	80	3.3	0.1998	291.01	17.62
Air Compressor	152132	525	4037	Diesel	OFF-RD TIER_3 100-175 HP	HRS_YR*HP*EF_FACTOR/453.6	0.0	500	139.5	2.8	1.12	430.56	172.22
Auxiliary Power	154642	VARIOUS LOCATIONS	4076	Diesel	OFF-RD TIER_3 75-100 HP	HRS_YR*HP*EF_FACTOR/453.6	39.2	500	97.9	3.3	0.1998	356.12	21.56
Auxiliary Power	154641	VARIOUS LOCATIONS	4077	Diesel	OFF-RD TIER_3 75-100 HP	HRS_YR*HP*EF_FACTOR/453.6	19.8	500	97.9	3.3	0.1998	356.12	21.56
Air Compressor	153516	9320	4095	Diesel	OFF-RD TIER_3 100-175 HP	HRS_YR*HP*EF_FACTOR/453.6	83.8	500	130	2.8	1.12	401.23	160.49
Air Compressor	153517	9320	4097	Diesel	OFF-RD TIER_3 100-175 HP	HRS_YR*HP*EF_FACTOR/453.6	30.4	500	130	2.8	1.12	401.23	160.49
Auxiliary Power	154640	8425	4124	Diesel	OFF-RD TIER_3 300-600 HP	HRS_YR*HP*EF_FACTOR/453.6	17.4	500	349	2.8	0.1998	1077.16	76.86
Other	157631	10715	4294	Diesel	OFF-RD TIER_4 50-75 HP INTERIM	HRS_YR*HP*EF_FACTOR/453.6	17.4	500	60	3.5	1.12	231.48	74.07
Auxiliary Power	158387	533	4306	Diesel	OFF-RD TIER_3 300-600 HP	HRS_YR*HP*EF_FACTOR/453.6	217.0	500	315	2.8	0.1998	972.22	69.38
Air Compressor	158388	VARIOUS LOCATIONS	4307	Diesel	OFF-RD TIER_3 175-300 HP	HRS_YR*HP*EF_FACTOR/453.6	17.4	500	260	2.8	0.3996	802.47	114.52
											Total (Lbs/yr)	26,426.85	4,112.73
											Total (TPY)	13.21	2.06

Notes:

Emission factors are in gm/hp-hr

PTE Usage is estimated at 500 hours/yr

Table 4.4 Estimated Emissions from TSE Internal Combustion Engines

Description	Location	Pri ID	Fuel	Engine Tier	Equation	Hours		Size	Emission Factors		Emissions (Lbs/Yr)	
						Actual	PTE	(BHP)	NOx*	ROC*	NOx	ROC
Aircraft Engine Starting[a]	1746 and Flightline	ICE02	JP-8	JP-8/PTO 8585	FUEL /1000*EF_FACTOR	23	250	100	67.8	4.77	16.95	1.19
Auxiliary Power	LAUNCH FACILITY - VARIOUS	549	Diesel	OFF-RD TIER_0	HRS_YR*HP*EF_FACTOR/453.6	40.2	500	166	14.1	1.12	2580.03	204.94
Auxiliary Power	LAUNCH FACILITY - VARIOUS	551	Diesel	OFF-RD TIER_0	HRS_YR*HP*EF_FACTOR/453.6	5.2	500	166	14.1	1.12	2580.03	204.94
Auxiliary Power	LAUNCH FACILITY - VARIOUS	552	Diesel	OFF-RD TIER_0	HRS_YR*HP*EF_FACTOR/453.6	22	500	166	14.1	1.12	2580.03	204.94
Auxiliary Power	LAUNCH FACILITY - VARIOUS	554	Diesel	OFF-RD TIER_0	HRS_YR*HP*EF_FACTOR/453.6	0	500	166	14.1	1.12	2580.03	204.94
Abrasive Blasting	VARIOUS LOCATIONS	558	Diesel	OFF-RD TIER_0	HRS_YR*HP*EF_FACTOR/453.6	31.3	500	80	14.1	1.12	1243.39	98.77
Auxiliary Power	LAUNCH FACILITY - VARIOUS	684	Diesel	OFF-RD TIER_0	HRS_YR*HP*EF_FACTOR/453.6	25.3	500	166	14.1	1.12	2580.03	204.94
Auxiliary Power	LAUNCH FACILITY - VARIOUS	694	Diesel	OFF-RD TIER_0	HRS_YR*HP*EF_FACTOR/453.6	0	500	166	14.1	1.12	2580.03	204.94
Auxiliary Power	LAUNCH FACILITY - VARIOUS	695	Diesel	OFF-RD TIER_0	HRS_YR*HP*EF_FACTOR/453.6	0	500	166	14.1	1.12	2580.03	204.94
Auxiliary Power	8425	696	Diesel	OFF-RD TIER_0	HRS_YR*HP*EF_FACTOR/453.6	11.1	500	390	14.1	1.12	6061.51	481.48
Auxiliary Power	8425	708	Diesel	OFF-RD TIER_0	HRS_YR*HP*EF_FACTOR/453.6	13.3	500	148	14.1	1.12	2300.26	182.72
Auxiliary Power	8425	724	Diesel	OFF-RD TIER_0	HRS_YR*HP*EF_FACTOR/453.6	0	500	390	14.1	1.12	6061.51	481.48
Aircraft Engine Starting[a]	1746 and Flightline	2055	JP-8	JP-8/PTO 8585	FUEL /1000*EF_FACTOR	33	250	100	67.8	4.77	16.95	1.19
Auxiliary Power	8425	3027	Diesel	OFF-RD TIER_0	HRS_YR*HP*EF_FACTOR/453.6	13.5	500	390	14.1	1.12	6061.51	481.48
Auxiliary Power	8425	3031	Diesel	OFF-RD TIER_0	HRS_YR*HP*EF_FACTOR/453.6	18.3	500	121	14.1	1.12	1880.62	149.38
Auxiliary Power	8425	3035	Diesel	OFF-RD TIER_0	HRS_YR*HP*EF_FACTOR/453.6	23.3	500	80	14.1	1.12	1243.39	98.77
Auxiliary Power	8425	3036	Diesel	OFF-RD TIER_0	HRS_YR*HP*EF_FACTOR/453.6	15.4	500	80	14.1	1.12	1243.39	98.77
Auxiliary Power	8425	3037	Diesel	OFF-RD TIER_0	HRS_YR*HP*EF_FACTOR/453.6	61.3	500	80	14.1	1.12	1243.39	98.77
Auxiliary Power	8425	3038	Diesel	OFF-RD TIER_0	HRS_YR*HP*EF_FACTOR/453.6	77.1	500	80	14.1	1.12	1243.39	98.77
Pumping Operations	7501	3419	Diesel	OFF-RD TIER_1 75-100 HP	HRS_YR*HP*EF_FACTOR/453.6	0	500	80	6.9	1.12	608.47	98.77
Transient Maintenance	Flightline	3613	Diesel	OFF-RD TIER_0	HRS_YR*HP*EF_FACTOR/453.6	45.3	500	148	14.1	1.12	2300.26	182.72
Transient Maintenance	Flightline	3614	Diesel	OFF-RD TIER_0	HRS_YR*HP*EF_FACTOR/453.6	11.3	500	148	14.1	1.12	2300.26	182.72
Transient Maintenance	Flightline	3615	Diesel	OFF-RD TIER_0	HRS_YR*HP*EF_FACTOR/453.6	61.2	500	148	14.1	1.12	2300.26	182.72
Transient Maintenance	Flightline	3616	Diesel	OFF-RD TIER_0	HRS_YR*HP*EF_FACTOR/453.6	15.7	500	148	14.1	1.12	2300.26	182.72
Transient Maintenance	Flightline	3617	Diesel	OFF-RD TIER_0	HRS_YR*HP*EF_FACTOR/453.6	63.2	500	148	14.1	1.12	2300.26	182.72
Transient Maintenance	Flightline	3618	Diesel	OFF-RD TIER_0	HRS_YR*HP*EF_FACTOR/453.6	54.2	500	148	14.1	1.12	2300.26	182.72
Optical Tracking	12000	3644	Diesel	OFF-RD TIER_0	HRS_YR*HP*EF_FACTOR/453.6	56.9	500	134	14.1	1.12	2082.67	165.43
Auxiliary Power	7425	3735	Diesel	OFF-RD TIER_0	HRS_YR*HP*EF_FACTOR/453.6	156.8	500	64	14.1	1.12	994.71	79.01
Auxiliary Power	7425	3736	Diesel	OFF-RD TIER_0	HRS_YR*HP*EF_FACTOR/453.6	145.4	500	64	14.1	1.12	994.71	79.01
Optical Tracking	12000	3808	Diesel	OFF-RD TIER_0	HRS_YR*HP*EF_FACTOR/453.6	19.8	500	82	14.1	1.12	1274.47	101.23
Optical Tracking	12000	3809	Diesel	OFF-RD TIER_0	HRS_YR*HP*EF_FACTOR/453.6	0	500	82	14.1	1.12	1274.47	101.23
Auxiliary Power	8425	3817	Diesel	OFF-RD TIER_3 175-300 HP	HRS_YR*HP*EF_FACTOR/453.6	11	500	216	2.8	0.3996	666.67	95.14
Auxiliary Power	8425	3818	Diesel	OFF-RD TIER_3 175-300 HP	HRS_YR*HP*EF_FACTOR/453.6	51	500	216	2.8	0.3996	666.67	95.14
Trailer/Van APU	8314	3820	Diesel	OFF-RD TIER_0	HRS_YR*HP*EF_FACTOR/453.6	14.6	500	56	14.1	1.12	870.37	69.14
Trailer/Van APU	8314	3821	Diesel	OFF-RD TIER_0	HRS_YR*HP*EF_FACTOR/453.6	19.9	500	56	14.1	1.12	870.37	69.14
Pump & Blower	10717	3889	Diesel	OFF-RD TIER_0	HRS_YR*HP*EF_FACTOR/453.6	247.8	500	54	14.1	1.12	839.29	66.67
Compressor	10717	3892	Diesel	OFF-RD TIER_1 75-100 HP	HRS_YR*HP*EF_FACTOR/453.6	65.6	500	78	6.9	1.12	593.25	96.30
Sweeper	10717	3893	Diesel	OFF-RD TIER_0	HRS_YR*HP*EF_FACTOR/453.6	290.4	500	102	14.1	1.12	1585.32	125.93
Pump & Blower	10717	3894	Diesel	OFF-RD TIER_2 75-100 HP	HRS_YR*HP*EF_FACTOR/453.6	271	500	99	5.2	0.3996	567.46	43.61
Water Pump	10717	3898	Diesel	OFF-RD TIER_0	HRS_YR*HP*EF_FACTOR/453.6	5.4	500	67.5	14.1	1.12	1049.11	83.33
Water Pump	10717	3900	Diesel	OFF-RD TIER_0	HRS_YR*HP*EF_FACTOR/453.6	23.9	500	80	14.1	1.12	1243.39	98.77
Water Pump	10717	3901	Diesel	OFF-RD TIER_0	HRS_YR*HP*EF_FACTOR/453.6	18	500	80	14.1	1.12	1243.39	98.77
Compressor	10715	3902	Diesel	OFF-RD TIER_0	HRS_YR*HP*EF_FACTOR/453.6	53.9	500	78	14.1	1.12	1212.30	96.30
Auxiliary Power	VARIOUS LOCATIONS	3903	Diesel	OFF-RD TIER_2 50-75 HP	HRS_YR*HP*EF_FACTOR/453.6	13.1	500	64	5.2	0.3996	366.84	28.19
TRS Support	81	3946	Diesel	OFF-RD TIER_0	HRS_YR*HP*EF_FACTOR/453.6	344.7	500	155	14.1	1.12	2409.06	191.36
Optical Tracking	12000	4008	Diesel	OFF-RD TIER_0	HRS_YR*HP*EF_FACTOR/453.6	60.1	500	134	14.1	1.12	2082.67	165.43
Optical Tracking	12000	4009	Diesel	OFF-RD TIER_0	HRS_YR*HP*EF_FACTOR/453.6	82.5	500	134	14.1	1.12	2082.67	165.43
Auxiliary Power	8425	4034	Diesel	OFF-RD TIER_2 11-25 HP	HRS_YR*HP*EF_FACTOR/453.6	18.2	500	24.1	5.2	0.4	138.14	10.63
Auxiliary Power	8425	4035	Diesel	OFF-RD TIER_0	HRS_YR*HP*EF_FACTOR/453.6	17	500	24.1	14.1	1.12	374.57	29.75
Auxiliary Power	8425	4036	Diesel	OFF-RD TIER_0	HRS_YR*HP*EF_FACTOR/453.6	6	500	24.1	14.1	1.12	374.57	29.75

Table 4.4 Estimated Emissions from TSE Internal Combustion Engines

Description	Location	Pri ID	Fuel	Engine Tier	Equation	Hours		Size	Emission Factors		Emissions (Lbs/Yr)	
						Actual	PTE	(BHP)	NOx*	ROC*	NOx	ROC
Optical Tracking	12000	4112	Diesel	OFF-RD TIER_0	HRS_YR*HP*EF_FACTOR/453.6	0	500	134	14.1	1.12	2082.67	165.43
Auxiliary Power	8425	4143	Diesel	OFF-RD TIER_1 175-300 HP	HRS_YR*HP*EF_FACTOR/453.6	8.4	500	215	6.9	0.999	1635.25	236.76
Facility Power	8425	4154	Diesel	OFF-RD TIER_1 175-300 HP	HRS_YR*HP*EF_FACTOR/453.6	5.1	500	215	6.9	0.999	1635.25	236.76
Water Truck	10717	4287	Diesel	OFF-RD TIER_4 50-75 HP INTERIM	HRS_YR*HP*EF_FACTOR/453.6	25.6	500	50	3.5	1.12	192.90	61.73
Sweeper[b]	10717	4288	Diesel	OFF-RD TIER_4 50-75 HP INTERIM	HRS_YR*HP*EF_FACTOR/453.6	804.3	1000	50	3.5	1.12	385.80	123.46
Generator	1735	4298	Diesel	OFF-RD TIER_1 75-100 HP	HRS_YR*HP*EF_FACTOR/453.6	New	500	99	6.9	1.12	752.98	122.22
Generator	1735	4299	Diesel	OFF-RD TIER_1 75-100 HP	HRS_YR*HP*EF_FACTOR/453.6	New	500	99	6.9	1.12	752.98	122.22
Generator	1735	4300	Diesel	OFF-RD TIER_1 75-100 HP	HRS_YR*HP*EF_FACTOR/453.6	New	500	99	6.9	1.12	752.98	122.22
Generator	1735	4301	Diesel	OFF-RD TIER_1 75-100 HP	HRS_YR*HP*EF_FACTOR/453.6	New	500	99	6.9	1.12	752.98	122.22
Start Cart[a]	1735	4310	JP-8	JP-8/PTO 8585	FUEL /1000*EF_FACTOR	New	250	38.8	67.8	4.77	16.95	1.19
Start Cart[a]	1735	4311	JP-8	JP-8/PTO 8585	FUEL /1000*EF_FACTOR	New	250	38.8	67.8	4.77	16.95	1.19
										Total (Lbs/yr)	95,921.29	8,402.47
										Total (TPY)	47.96	4.20

Notes:

Emission factors are in gm/hp-hr

PTE Usage is estimated at 500 hours/yr

(a) For this source, Hours are gallons of fuel; Emission Factors Units are lbs/1000 gal.

(b) For this source, PTE Usage is estimated at 1000 hours/yr

Table 4.5 Estimated Emissions from Permit Exempt External Combustion Devices

Description	Location	Pri_ID	Capacity (MMBTU)	Fuel	Equation	Usage			Emission Factors		Emissions (Lbs/Yr)	
						Actual	PTE	Units	NOx*	ROC*	NOx	ROC
Furnace	1341	907	0.125	Propane/LPG	EF_FACTOR*GALS/1000	917.58	4,034.58	GALS	13.5	0.47	54.47	1.90
Furnace	1341	908	0.03	Propane/LPG	EF_FACTOR*GALS/1000	220.22	968.30	GALS	13.5	0.47	13.07	0.46
Furnace	1344	909	0.22	Propane/LPG	EF_FACTOR*GALS/1000	1,614.93	7,100.85	GALS	13.5	0.47	95.86	3.34
Furnace	1577	910	0.1	Propane/LPG	EF_FACTOR*GALS/1000	734.06	3,227.66	GALS	13.5	0.47	43.57	1.52
Furnace	1579	911	0.1	Propane/LPG	EF_FACTOR*GALS/1000	734.06	3,227.66	GALS	13.5	0.47	43.57	1.52
Water Heating	1610	912	0.7	Propane/LPG	EF_FACTOR*GALS/1000	5,138.44	22,593.62	GALS	13.45	0.49	303.88	11.07
Water Heating	1610	913	0.7	Propane/LPG	EF_FACTOR*GALS/1000	5,138.44	22,593.62	GALS	13.45	0.49	303.88	11.07
Furnace	1628	914	0.08	Propane/LPG	EF_FACTOR*GALS/1000	587.25	2,582.13	GALS	13.5	0.47	34.86	1.21
Furnace	1628	916	0.08	Propane/LPG	EF_FACTOR*GALS/1000	587.25	2,582.13	GALS	13.5	0.47	34.86	1.21
Furnace	1628	917	0.08	Propane/LPG	EF_FACTOR*GALS/1000	587.25	2,582.13	GALS	13.5	0.47	34.86	1.21
Furnace	1705	919	0.15	Natural Gas	EF_FACTOR*MMSCF	0.08	0.40	MMSCF	94.0	5.50	37.36	2.19
Water Heating	1735	924	0.034	Natural Gas	EF_FACTOR*MMSCF	0.02	0.09	MMSCF	102.90	5.67	9.27	0.51
Water Heating	1737	929	0.034	Natural Gas	EF_FACTOR*MMSCF	0.02	0.09	MMSCF	102.90	5.67	9.27	0.51
Water Heating	1748	945	0.036	Natural Gas	EF_FACTOR*MMSCF	0.02	0.10	MMSCF	102.90	5.67	9.82	0.54
Furnace	1749	947	0.1	Natural Gas	EF_FACTOR*MMSCF	0.05	0.26	MMSCF	94.0	5.50	24.91	1.46
Furnace	1754	948	0.1	Natural Gas	EF_FACTOR*MMSCF	0.05	0.26	MMSCF	94.0	5.50	24.91	1.46
Furnace	1785	950	0.85	Propane/LPG	EF_FACTOR*GALS/1000	6,239.53	27,435.12	GALS	13.5	0.47	370.37	12.89
Water Heating	1930	963	0.06	Propane/LPG	EF_FACTOR*GALS/1000	440.44	1,936.60	GALS	13.45	0.49	26.05	0.95
Furnace	51	964	0.08	Propane/LPG	EF_FACTOR*GALS/1000	587.25	2,582.13	GALS	13.5	0.47	34.86	1.21
Furnace	51	966	0.105	Propane/LPG	EF_FACTOR*GALS/1000	770.77	3,389.04	GALS	13.5	0.47	45.75	1.59
Water Heating	475	970	1.5	Propane/LPG	EF_FACTOR*GALS/1000	11,010.90	48,414.91	GALS	13.45	0.49	651.18	23.72
Furnace	542	976	0.1	Natural Gas	EF_FACTOR*MMSCF	0.05	0.26	MMSCF	94.0	5.50	24.91	1.46
Furnace	596	977	0.05	Propane/LPG	EF_FACTOR*GALS/1000	367.03	1,613.83	GALS	13.5	0.47	21.79	0.76
Furnace	596	978	0.05	Propane/LPG	EF_FACTOR*GALS/1000	367.03	1,613.83	GALS	13.5	0.47	21.79	0.76
Furnace	596	979	0.082	Propane/LPG	EF_FACTOR*GALS/1000	601.93	2,646.68	GALS	13.5	0.47	35.73	1.24
Furnace	596	980	0.025	Propane/LPG	EF_FACTOR*GALS/1000	183.52	806.92	GALS	13.5	0.47	10.89	0.38
Facility Heating	657	981	0.06	Propane/LPG	EF_FACTOR*GALS/1000	440.44	1,936.60	GALS	13.45	0.49	26.05	0.95
Furnace	657	982	0.06	Propane/LPG	EF_FACTOR*GALS/1000	440.44	1,936.60	GALS	13.5	0.47	26.14	0.91
Water Heating	764	1006	0.45	Natural Gas	EF_FACTOR*MMSCF	0.23	1.19	MMSCF	102.90	5.67	122.70	6.76
Furnace	765	1007	0.625	Natural Gas	EF_FACTOR*MMSCF	0.31	1.66	MMSCF	94.0	5.50	155.67	9.11
Water Heating	864	1016	0.495	Natural Gas	EF_FACTOR*MMSCF	0.25	1.31	MMSCF	102.90	5.67	134.97	7.44
Furnace	988	1025	0.813	Propane/LPG	EF_FACTOR*GALS/1000	5,967.93	26,240.88	GALS	13.5	0.47	354.25	12.33
Water Heating	1559	1032	1.21	Natural Gas	EF_FACTOR*MMSCF	0.61	3.21	MMSCF	102.90	5.67	329.91	18.18
Water Heating	6817	1046	0.525	Natural Gas	EF_FACTOR*MMSCF	0.26	1.39	MMSCF	102.90	5.67	143.14	7.89
Water Heating	7403	1047	0.6	Natural Gas	EF_FACTOR*MMSCF	0.30	1.59	MMSCF	102.90	5.67	163.59	9.01
Water Heating	7425	1051	0.299	Natural Gas	EF_FACTOR*MMSCF	0.15	0.79	MMSCF	102.90	5.67	81.52	4.49
Water Heating	7437	1053	0.35	Natural Gas	EF_FACTOR*MMSCF	0.18	0.93	MMSCF	102.90	5.67	95.43	5.26
Water Heating	8415	1073	1.75	Natural Gas	EF_FACTOR*MMSCF	0.88	4.64	MMSCF	102.90	5.67	477.15	26.29
Water Heating	9360	1092	1.05	Natural Gas	EF_FACTOR*MMSCF	0.53	2.78	MMSCF	102.90	5.67	286.29	15.78
Water Heating	10525	1099	0.85	Natural Gas	EF_FACTOR*MMSCF	0.43	2.25	MMSCF	102.90	5.67	231.76	12.77
Water Heating	10660	1101	0.35	Natural Gas	EF_FACTOR*MMSCF	0.18	0.93	MMSCF	102.90	5.67	95.43	5.26
Water Heating	10728	1102	0.627	Natural Gas	EF_FACTOR*MMSCF	0.32	1.66	MMSCF	102.90	5.67	170.96	9.42
Water Heating	11477	1110	0.199	Natural Gas	EF_FACTOR*MMSCF	0.10	0.53	MMSCF	102.90	5.67	54.26	2.99
Water Heating	13007	1114	0.627	Natural Gas	EF_FACTOR*MMSCF	0.32	1.66	MMSCF	102.90	5.67	170.96	9.42
Water Heating	13143	1119	0.627	Natural Gas	EF_FACTOR*MMSCF	0.32	1.66	MMSCF	102.90	5.67	170.96	9.42
Water Heating	13143	1120	0.627	Natural Gas	EF_FACTOR*MMSCF	0.32	1.66	MMSCF	102.90	5.67	170.96	9.42

Table 4.5 Estimated Emissions from Permit Exempt External Combustion Devices

Description	Location	Pri_ID	Capacity (MMBTU)	Fuel	Equation	Usage			Emission Factors		Emissions (Lbs/Yr)	
						Actual	PTE	Units	NOx*	ROC*	NOx	ROC
Furnace	7015	1156	1.995	Natural Gas	EF_FACTOR*MMSCF	0.15	5.29	MMSCF	94.0	5.50	496.90	29.07
Water Heating	839	1746	0.585	Natural Gas	EF_FACTOR*MMSCF	0.29	1.55	MMSCF	102.90	5.67	159.50	8.79
Furnace	10343	2614	0.3	Natural Gas	EF_FACTOR*MMSCF	0.15	0.79	MMSCF	94.0	5.50	74.72	4.37
Furnace	10343	2615	0.3	Natural Gas	EF_FACTOR*MMSCF	0.15	0.79	MMSCF	94.0	5.50	74.72	4.37
Water Heating	14300	2616	0.27	Natural Gas	EF_FACTOR*MMSCF	0.14	0.72	MMSCF	102.90	5.67	73.62	4.06
Furnace	6816	2619	0.2	Natural Gas	EF_FACTOR*MMSCF	0.10	0.53	MMSCF	94.0	5.50	49.81	2.91
Water Heating	8310	2626	0.9	Natural Gas	EF_FACTOR*MMSCF	0.45	2.38	MMSCF	102.90	5.67	245.39	13.52
Water Heating	8310	2627	0.9	Natural Gas	EF_FACTOR*MMSCF	0.45	2.38	MMSCF	102.90	5.67	245.39	13.52
Water Heating	13123	2660	0.512	Natural Gas	EF_FACTOR*MMSCF	0.26	1.36	MMSCF	102.90	5.67	139.60	7.69
Water Heating	13121	2661	0.512	Natural Gas	EF_FACTOR*MMSCF	0.26	1.36	MMSCF	102.90	5.67	139.60	7.69
Water Heating	8310	2670	0.9	Natural Gas	EF_FACTOR*MMSCF	0.45	2.38	MMSCF	102.90	5.67	245.39	13.52
Water Heating	8310	2671	0.9	Natural Gas	EF_FACTOR*MMSCF	0.45	2.38	MMSCF	102.90	5.67	245.39	13.52
Water Heating	8401	2673	0.3	Natural Gas	EF_FACTOR*MMSCF	0.15	0.79	MMSCF	102.90	5.67	81.80	4.51
Water Heating	8401	2674	0.3	Natural Gas	EF_FACTOR*MMSCF	0.15	0.79	MMSCF	102.90	5.67	81.80	4.51
Steam Boiler	11070	2676	0.86	Natural Gas	EF_FACTOR*MMSCF	0.43	2.28	MMSCF	102.90	5.67	234.49	12.92
Water Heating	11070	2677	0.264	Natural Gas	EF_FACTOR*MMSCF	0.13	0.70	MMSCF	102.90	5.67	71.98	3.97
Water Heating	13121	2679	0.299	Natural Gas	EF_FACTOR*MMSCF	0.15	0.79	MMSCF	102.90	5.67	81.52	4.49
Water Heating	23235	2683	0.1	Natural Gas	EF_FACTOR*MMSCF	0.05	0.26	MMSCF	102.90	5.67	27.27	1.50
Water Heating	852	3089	0.95	Natural Gas	EF_FACTOR*MMSCF	0.48	2.52	MMSCF	102.90	5.67	259.02	14.27
Water Heating	852	3090	0.95	Natural Gas	EF_FACTOR*MMSCF	0.48	2.52	MMSCF	102.90	5.67	259.02	14.27
Furnace	1521	3116	0.125	Propane/LPG	EF_FACTOR*GALS/1000	917.58	4,034.58	GALS	13.5	0.47	54.47	1.90
Furnace	1521	3117	0.125	Propane/LPG	EF_FACTOR*GALS/1000	917.58	4,034.58	GALS	13.5	0.47	54.47	1.90
Furnace	1619	3118	0.1	Propane/LPG	EF_FACTOR*GALS/1000	734.06	3,227.66	GALS	13.5	0.47	43.57	1.52
Furnace	1619	3119	0.1	Propane/LPG	EF_FACTOR*GALS/1000	734.06	3,227.66	GALS	13.5	0.47	43.57	1.52
Furnace	1632	3120	0.125	Propane/LPG	EF_FACTOR*GALS/1000	917.58	4,034.58	GALS	13.5	0.47	54.47	1.90
Furnace	1735	3121	0.08	Natural Gas	EF_FACTOR*MMSCF	0.04	0.21	MMSCF	94.0	5.50	19.93	1.17
Furnace	1810	3123	0.125	Propane/LPG	EF_FACTOR*GALS/1000	917.58	4,034.58	GALS	13.5	0.47	54.47	1.90
Furnace	1930	3126	0.1	Propane/LPG	EF_FACTOR*GALS/1000	734.06	3,227.66	GALS	13.5	0.47	43.57	1.52
Furnace	10711	3133	0.4	Natural Gas	EF_FACTOR*MMSCF	0.20	1.06	MMSCF	94.0	5.50	99.63	5.83
Furnace	10711	3134	0.35	Natural Gas	EF_FACTOR*MMSCF	0.18	0.93	MMSCF	94.0	5.50	87.18	5.10
Furnace	10713	3135	0.4	Natural Gas	EF_FACTOR*MMSCF	0.20	1.06	MMSCF	94.0	5.50	99.63	5.83
Furnace	11040	3137	0.055	Natural Gas	EF_FACTOR*MMSCF	0.03	0.15	MMSCF	94.0	5.50	13.70	0.80
Furnace	11040	3138	0.055	Natural Gas	EF_FACTOR*MMSCF	0.03	0.15	MMSCF	94.0	5.50	13.70	0.80
Water Heating	11070	3141	0.264	Natural Gas	EF_FACTOR*MMSCF	0.13	0.70	MMSCF	102.90	5.67	71.98	3.97
Furnace	13022	3143	0.4	Natural Gas	EF_FACTOR*MMSCF	0.20	1.06	MMSCF	94.0	5.50	99.63	5.83
Facility Heating	16170	3154	1.467	Natural Gas	EF_FACTOR*MMSCF	0.74	3.89	MMSCF	102.90	5.67	399.99	22.04
Water Heating	16170	3155	0.333	Natural Gas	EF_FACTOR*MMSCF	0.17	0.88	MMSCF	102.90	5.67	90.79	5.00
Furnace	1335	3171	0.11	Propane/LPG	EF_FACTOR*GALS/1000	807.47	3,550.43	GALS	13.5	0.47	47.93	1.67
Furnace	1335	3172	0.11	Propane/LPG	EF_FACTOR*GALS/1000	807.47	3,550.43	GALS	13.5	0.47	47.93	1.67
Furnace	1335	3173	0.11	Propane/LPG	EF_FACTOR*GALS/1000	807.47	3,550.43	GALS	13.5	0.47	47.93	1.67
Water Heating	13323	3176	0.299	Natural Gas	EF_FACTOR*MMSCF	0.15	0.79	MMSCF	102.90	5.67	81.52	4.49
Water Heating	13323	3178	0.299	Natural Gas	EF_FACTOR*MMSCF	0.15	0.79	MMSCF	102.90	5.67	81.52	4.49
Water Heating	13323	3179	0.627	Natural Gas	EF_FACTOR*MMSCF	0.32	1.66	MMSCF	102.90	5.67	170.96	9.42
Furnace	1632	3203	0.125	Propane/LPG	EF_FACTOR*GALS/1000	917.58	4,034.58	GALS	13.5	0.47	54.47	1.90
Furnace	1338	3216	0.1	Propane/LPG	EF_FACTOR*GALS/1000	734.06	3,227.66	GALS	13.5	0.47	43.57	1.52
Furnace	1530	3217	0.066	Natural Gas	EF_FACTOR*MMSCF	0.03	0.17	MMSCF	94.0	5.50	16.44	0.96

Table 4.5 Estimated Emissions from Permit Exempt External Combustion Devices

Description	Location	Pri_ID	Capacity (MMBTU)	Fuel	Equation	Usage			Emission Factors		Emissions (Lbs/Yr)	
						Actual	PTE	Units	NOx*	ROC*	NOx	ROC
Furnace	596	3218	0.082	Propane/LPG	EF_FACTOR*GALS/1000	601.93	2,646.68	GALS	13.5	0.47	35.73	1.24
Furnace	6005	3219	0.08	Natural Gas	EF_FACTOR*MMSCF	0.04	0.21	MMSCF	94.0	5.50	19.93	1.17
Furnace	848	3223	0.1	Natural Gas	EF_FACTOR*MMSCF	0.05	0.26	MMSCF	94.0	5.50	24.91	1.46
Facility Heating	1545	3224	0.32	Natural Gas	EF_FACTOR*MMSCF	0.16	0.85	MMSCF	102.90	5.67	87.25	4.81
Facility Heating	1545	3225	0.32	Natural Gas	EF_FACTOR*MMSCF	0.16	0.85	MMSCF	102.90	5.67	87.25	4.81
Furnace	860	3228	0.115	Natural Gas	EF_FACTOR*MMSCF	0.06	0.30	MMSCF	94.0	5.50	28.64	1.68
Furnace	860	3229	0.115	Natural Gas	EF_FACTOR*MMSCF	0.06	0.30	MMSCF	94.0	5.50	28.64	1.68
Furnace	1544	3230	0.78	Natural Gas	EF_FACTOR*MMSCF	0.39	2.07	MMSCF	94.0	5.50	194.28	11.37
Furnace	1631	3231	0.075	Propane/LPG	EF_FACTOR*GALS/1000	550.55	2,420.75	GALS	13.5	0.47	32.68	1.14
Furnace	1631	3232	0.075	Propane/LPG	EF_FACTOR*GALS/1000	550.55	2,420.75	GALS	13.5	0.47	32.68	1.14
Furnace	1631	3233	0.075	Propane/LPG	EF_FACTOR*GALS/1000	550.55	2,420.75	GALS	13.5	0.47	32.68	1.14
Furnace	1631	3234	0.075	Propane/LPG	EF_FACTOR*GALS/1000	550.55	2,420.75	GALS	13.5	0.47	32.68	1.14
Furnace	1659	3235	0.15	Propane/LPG	EF_FACTOR*GALS/1000	1,101.09	4,841.49	GALS	13.5	0.47	65.36	2.28
Furnace	1740	3236	0.074	Natural Gas	EF_FACTOR*MMSCF	0.04	0.20	MMSCF	94.0	5.50	18.43	1.08
Furnace	1740	3237	0.074	Natural Gas	EF_FACTOR*MMSCF	0.04	0.20	MMSCF	94.0	5.50	18.43	1.08
Furnace	1749	3238	0.08	Natural Gas	EF_FACTOR*MMSCF	0.04	0.21	MMSCF	94.0	5.50	19.93	1.17
Furnace	1785	3239	0.088	Propane/LPG	EF_FACTOR*GALS/1000	645.98	2,840.34	GALS	13.5	0.47	38.34	1.33
Furnace	6444	3244	0.075	Natural Gas	EF_FACTOR*MMSCF	0.04	0.20	MMSCF	94.0	5.50	18.68	1.09
Facility Heating	6601	3246	0.75	Natural Gas	EF_FACTOR*MMSCF	0.38	1.99	MMSCF	102.90	5.67	204.49	11.27
Furnace	9340	3247	0.75	Natural Gas	EF_FACTOR*MMSCF	0.38	1.99	MMSCF	94.0	5.50	186.81	10.93
Furnace	10122	3248	0.175	Natural Gas	EF_FACTOR*MMSCF	0.09	0.46	MMSCF	94.0	5.50	43.59	2.55
Furnace	10122	3249	0.4	Natural Gas	EF_FACTOR*MMSCF	0.20	1.06	MMSCF	94.0	5.50	99.63	5.83
Furnace	10122	3250	0.1	Natural Gas	EF_FACTOR*MMSCF	0.05	0.26	MMSCF	94.0	5.50	24.91	1.46
Furnace	10122	3251	0.1	Natural Gas	EF_FACTOR*MMSCF	0.05	0.26	MMSCF	94.0	5.50	24.91	1.46
Furnace	10343	3252	0.1	Natural Gas	EF_FACTOR*MMSCF	0.05	0.26	MMSCF	94.0	5.50	24.91	1.46
Furnace	10343	3253	0.1	Natural Gas	EF_FACTOR*MMSCF	0.05	0.26	MMSCF	94.0	5.50	24.91	1.46
Water Heating	21150	3258	1.2	Propane/LPG	EF_FACTOR*GALS/1000	8,808.75	38,731.93	GALS	13.45	0.49	520.94	18.98
Furnace	11152	3260	0.11	Natural Gas	EF_FACTOR*MMSCF	0.06	0.29	MMSCF	94.0	5.50	27.40	1.60
Furnace	13001	3262	0.088	Natural Gas	EF_FACTOR*MMSCF	0.04	0.23	MMSCF	94.0	5.50	21.92	1.28
Furnace	13001	3263	0.088	Natural Gas	EF_FACTOR*MMSCF	0.04	0.23	MMSCF	94.0	5.50	21.92	1.28
Furnace	13001	3264	0.088	Natural Gas	EF_FACTOR*MMSCF	0.04	0.23	MMSCF	94.0	5.50	21.92	1.28
Furnace	13001	3265	0.088	Natural Gas	EF_FACTOR*MMSCF	0.04	0.23	MMSCF	94.0	5.50	21.92	1.28
Water Heating	13321	3267	0.299	Natural Gas	EF_FACTOR*MMSCF	0.15	0.79	MMSCF	102.90	5.67	81.52	4.49
Water Heating	13321	3269	0.299	Natural Gas	EF_FACTOR*MMSCF	0.15	0.79	MMSCF	102.90	5.67	81.52	4.49
Water Heating	13321	3270	0.627	Natural Gas	EF_FACTOR*MMSCF	0.32	1.66	MMSCF	102.90	5.67	170.96	9.42
Water Heating	21330	3273	0.186	Propane/LPG	EF_FACTOR*GALS/1000	1,365.35	6,003.45	GALS	13.45	0.49	80.75	2.94
Furnace	1740	3281	0.15	Natural Gas	EF_FACTOR*MMSCF	0.08	0.40	MMSCF	94.0	5.50	37.36	2.19
Furnace	1740	3282	0.075	Natural Gas	EF_FACTOR*MMSCF	0.04	0.20	MMSCF	94.0	5.50	18.68	1.09
Furnace	10366	3287	0.11	Natural Gas	EF_FACTOR*MMSCF	0.14	0.29	MMSCF	94.0	5.50	27.40	1.60
Furnace	11152	3295	0.1	Natural Gas	EF_FACTOR*MMSCF	0.05	0.26	MMSCF	94.0	5.50	24.91	1.46
Furnace	11146	3297	0.2	Natural Gas	EF_FACTOR*MMSCF	0.10	0.53	MMSCF	94.0	5.50	49.81	2.91
Water Heating	11477	3298	0.32	Natural Gas	EF_FACTOR*MMSCF	0.16	0.85	MMSCF	102.90	5.67	87.25	4.81
Furnace	16130	3299	0.13	Natural Gas	EF_FACTOR*MMSCF	0.07	0.34	MMSCF	94.0	5.50	32.38	1.89
Furnace	16135	3300	0.13	Natural Gas	EF_FACTOR*MMSCF	0.07	0.34	MMSCF	94.0	5.50	32.38	1.89
Furnace	16140	3301	0.13	Natural Gas	EF_FACTOR*MMSCF	0.07	0.34	MMSCF	94.0	5.50	32.38	1.89
Furnace	16140	3302	0.13	Natural Gas	EF_FACTOR*MMSCF	0.07	0.34	MMSCF	94.0	5.50	32.38	1.89

Table 4.5 Estimated Emissions from Permit Exempt External Combustion Devices

Description	Location	Pri_ID	Capacity (MMBTU)	Fuel	Equation	Usage			Emission Factors		Emissions (Lbs/Yr)	
						Actual	PTE	Units	NOx*	ROC*	NOx	ROC
Furnace	10260	3351	0.125	Natural Gas	EF_FACTOR*MMSCF	0.06	0.33	MMSCF	94.0	5.50	31.13	1.82
Furnace	10314	3352	0.12	Natural Gas	EF_FACTOR*MMSCF	0.06	0.32	MMSCF	94.0	5.50	29.89	1.75
Furnace	10366	3353	0.1	Natural Gas	EF_FACTOR*MMSCF	0.14	0.26	MMSCF	94.0	5.50	24.91	1.46
Furnace	10366	3354	0.1	Natural Gas	EF_FACTOR*MMSCF	0.14	0.26	MMSCF	94.0	5.50	24.91	1.46
Furnace	10363	3355	0.125	Natural Gas	EF_FACTOR*MMSCF	0.06	0.33	MMSCF	94.0	5.50	31.13	1.82
Furnace	10363	3356	0.125	Natural Gas	EF_FACTOR*MMSCF	0.06	0.33	MMSCF	94.0	5.50	31.13	1.82
Furnace	10373	3357	0.1	Natural Gas	EF_FACTOR*MMSCF	0.05	0.26	MMSCF	94.0	5.50	24.91	1.46
Furnace	10715	3358	0.25	Natural Gas	EF_FACTOR*MMSCF	0.13	0.66	MMSCF	94.0	5.50	62.27	3.64
Furnace	10717	3359	0.08	Natural Gas	EF_FACTOR*MMSCF	0.04	0.21	MMSCF	94.0	5.50	19.93	1.17
Furnace	11165	3360	0.115	Natural Gas	EF_FACTOR*MMSCF	0.06	0.30	MMSCF	94.0	5.50	28.64	1.68
Facility Heating	11248	3361	0.264	Natural Gas	EF_FACTOR*MMSCF	0.13	0.70	MMSCF	102.90	5.67	71.98	3.97
Furnace	11510	3362	0.075	Natural Gas	EF_FACTOR*MMSCF	0.04	0.20	MMSCF	94.0	5.50	18.68	1.09
Furnace	13005	3363	0.25	Natural Gas	EF_FACTOR*MMSCF	0.13	0.66	MMSCF	94.0	5.50	62.27	3.64
Furnace	1317	3365	0.25	Propane/LPG	EF_FACTOR*GALS/1000	1,835.15	8,069.15	GALS	13.5	0.47	108.93	3.79
Furnace	1335	3368	0.11	Propane/LPG	EF_FACTOR*GALS/1000	807.47	3,550.43	GALS	13.5	0.47	47.93	1.67
Furnace	14001	3370	0.125	Natural Gas	EF_FACTOR*MMSCF	0.06	0.33	MMSCF	94.0	5.50	31.13	1.82
Furnace	12901	3371	0.075	Natural Gas	EF_FACTOR*MMSCF	0.04	0.20	MMSCF	94.0	5.50	18.68	1.09
Furnace	17595	3372	0.088	Natural Gas	EF_FACTOR*MMSCF	0.04	0.23	MMSCF	94.0	5.50	21.92	1.28
Facility Heating	2500	3373	0.45	Natural Gas	EF_FACTOR*MMSCF	0.23	1.19	MMSCF	102.90	5.67	122.70	6.76
Furnace	2505	3375	0.1	Natural Gas	EF_FACTOR*MMSCF	0.05	0.26	MMSCF	94.0	5.50	24.91	1.46
Furnace	6601	3376	0.088	Natural Gas	EF_FACTOR*MMSCF	0.04	0.23	MMSCF	94.0	5.50	21.92	1.28
Furnace	7430	3378	0.2	Natural Gas	EF_FACTOR*MMSCF	0.10	0.53	MMSCF	94.0	5.50	49.81	2.91
Furnace	7430	3379	0.135	Natural Gas	EF_FACTOR*MMSCF	0.07	0.36	MMSCF	94.0	5.50	33.63	1.97
Furnace	8425	3382	0.08	Natural Gas	EF_FACTOR*MMSCF	0.04	0.21	MMSCF	94.0	5.50	19.93	1.17
Furnace	8425	3383	0.1	Natural Gas	EF_FACTOR*MMSCF	0.05	0.26	MMSCF	94.0	5.50	24.91	1.46
Facility Heating	13330	3584	1.75	Natural Gas	EF_FACTOR*MMSCF	1.78	4.64	MMSCF	94.0	5.50	435.88	25.50
Furnace	9340	3621	0.15	Natural Gas	EF_FACTOR*MMSCF	0.08	0.40	MMSCF	94.0	5.50	37.36	2.19
Furnace	9340	3622	0.3	Natural Gas	EF_FACTOR*MMSCF	0.15	0.79	MMSCF	94.0	5.50	74.72	4.37
Furnace	9340	3623	0.15	Natural Gas	EF_FACTOR*MMSCF	0.08	0.40	MMSCF	94.0	5.50	37.36	2.19
Furnace	9340	3624	0.25	Natural Gas	EF_FACTOR*MMSCF	0.13	0.66	MMSCF	94.0	5.50	62.27	3.64
Furnace	9340	3625	0.88	Natural Gas	EF_FACTOR*MMSCF	0.44	2.33	MMSCF	94.0	5.50	219.19	12.82
Water Heating	7050	3627	1	Natural Gas	EF_FACTOR*MMSCF	0.50	2.65	MMSCF	102.90	5.67	272.66	15.02
Water Heating	7050	3628	1	Natural Gas	EF_FACTOR*MMSCF	0.50	2.65	MMSCF	102.90	5.67	272.66	15.02
Water Heating	75	3629	0.7	Propane/LPG	EF_FACTOR*GALS/1000	5,138.44	22,593.62	GALS	13.45	0.49	303.88	11.07
Water Heating	9320	3636	1.79	Natural Gas	EF_FACTOR*MMSCF	0.90	4.74	MMSCF	102.90	5.67	488.06	26.89
Facility Heating	11439	3637	0.76	Natural Gas	EF_FACTOR*MMSCF	0.38	2.01	MMSCF	102.90	5.67	207.22	11.42
Water Heating	660	3645	0.495	Natural Gas	EF_FACTOR*MMSCF	0.25	1.31	MMSCF	102.90	5.67	134.97	7.44
Water Heating	861	3646	0.6	Natural Gas	EF_FACTOR*MMSCF	0.30	1.59	MMSCF	102.90	5.67	163.59	9.01
Water Heating	1555	3652	0.99	Natural Gas	EF_FACTOR*MMSCF	0.50	2.62	MMSCF	102.90	5.67	269.93	14.87
Water Heating	1555	3653	0.65	Natural Gas	EF_FACTOR*MMSCF	0.33	1.72	MMSCF	102.90	5.67	177.23	9.77
Water Heating	1731	3654	0.75	Natural Gas	EF_FACTOR*MMSCF	0.38	1.99	MMSCF	102.90	5.67	204.49	11.27
Water Heating	1737	3655	0.94	Natural Gas	EF_FACTOR*MMSCF	0.47	2.49	MMSCF	102.90	5.67	256.30	14.12
Water Heating	1737	3656	0.94	Natural Gas	EF_FACTOR*MMSCF	0.47	2.49	MMSCF	102.90	5.67	256.30	14.12
Water Heating	1746	3657	0.15	Natural Gas	EF_FACTOR*MMSCF	0.08	0.40	MMSCF	102.90	5.67	40.90	2.25
Water Heating	1824	3659	0.135	Propane/LPG	EF_FACTOR*GALS/1000	990.99	4,357.34	GALS	13.45	0.49	58.61	2.14
Water Heating	1833	3660	0.135	Propane/LPG	EF_FACTOR*GALS/1000	990.99	4,357.34	GALS	13.45	0.49	58.61	2.14

Table 4.5 Estimated Emissions from Permit Exempt External Combustion Devices

Description	Location	Pri_ID	Capacity (MMBTU)	Fuel	Equation	Usage			Emission Factors		Emissions (Lbs/Yr)	
						Actual	PTE	Units	NOx*	ROC*	NOx	ROC
Furnace	1930	3664	1	Propane/LPG	EF_FACTOR*GALS/1000	7,340.63	32,276.61	GALS	13.5	0.47	435.73	15.17
Water Heating	2500	3665	0.333	Natural Gas	EF_FACTOR*MMSCF	0.17	0.88	MMSCF	102.90	5.67	90.79	5.00
Water Heating	6419	3666	0.1	Natural Gas	EF_FACTOR*MMSCF	0.05	0.26	MMSCF	102.90	5.67	27.27	1.50
Water Heating	6601	3667	0.751	Natural Gas	EF_FACTOR*MMSCF	0.38	1.99	MMSCF	102.90	5.67	204.77	11.28
Water Heating	6670	3668	0.25	Natural Gas	EF_FACTOR*MMSCF	0.13	0.66	MMSCF	102.90	5.67	68.16	3.76
Water Heating	7015	3669	0.199	Natural Gas	EF_FACTOR*MMSCF	0.10	0.53	MMSCF	102.90	5.67	54.26	2.99
Water Heating	7403	3670	0.35	Natural Gas	EF_FACTOR*MMSCF	0.18	0.93	MMSCF	102.90	5.67	95.43	5.26
Water Heating	7425	3672	0.299	Natural Gas	EF_FACTOR*MMSCF	0.15	0.79	MMSCF	102.90	5.67	81.52	4.49
Water Heating	7425	3673	0.299	Natural Gas	EF_FACTOR*MMSCF	0.15	0.79	MMSCF	102.90	5.67	81.52	4.49
Water Heating	8173	3676	0.08	Natural Gas	EF_FACTOR*MMSCF	0.04	0.21	MMSCF	102.90	5.67	21.81	1.20
Water Heating	8175	3677	0.299	Natural Gas	EF_FACTOR*MMSCF	0.15	0.79	MMSCF	102.90	5.67	81.52	4.49
Water Heating	8175	3678	0.299	Natural Gas	EF_FACTOR*MMSCF	0.15	0.79	MMSCF	102.90	5.67	81.52	4.49
Water Heating	8175	3679	0.299	Natural Gas	EF_FACTOR*MMSCF	0.15	0.79	MMSCF	102.90	5.67	81.52	4.49
Water Heating	8250	3680	0.299	Natural Gas	EF_FACTOR*MMSCF	0.15	0.79	MMSCF	102.90	5.67	81.52	4.49
Water Heating	8290	3682	0.199	Natural Gas	EF_FACTOR*MMSCF	0.10	0.53	MMSCF	102.90	5.67	54.26	2.99
Water Heating	8305	3683	0.35	Natural Gas	EF_FACTOR*MMSCF	0.18	0.93	MMSCF	102.90	5.67	95.43	5.26
Water Heating	8310	3684	0.199	Natural Gas	EF_FACTOR*MMSCF	0.10	0.53	MMSCF	102.90	5.67	54.26	2.99
Water Heating	8505	3688	0.25	Natural Gas	EF_FACTOR*MMSCF	0.13	0.66	MMSCF	102.90	5.67	68.16	3.76
Water Heating	9192	3691	0.299	Natural Gas	EF_FACTOR*MMSCF	0.15	0.79	MMSCF	102.90	5.67	81.52	4.49
Water Heating	9192	3692	0.299	Natural Gas	EF_FACTOR*MMSCF	0.15	0.79	MMSCF	102.90	5.67	81.52	4.49
Water Heating	9192	3693	0.299	Natural Gas	EF_FACTOR*MMSCF	0.15	0.79	MMSCF	102.90	5.67	81.52	4.49
Water Heating	9192	3694	0.299	Natural Gas	EF_FACTOR*MMSCF	0.15	0.79	MMSCF	102.90	5.67	81.52	4.49
Water Heating	9192	3695	0.299	Natural Gas	EF_FACTOR*MMSCF	0.15	0.79	MMSCF	102.90	5.67	81.52	4.49
Water Heating	9192	3696	0.299	Natural Gas	EF_FACTOR*MMSCF	0.15	0.79	MMSCF	102.90	5.67	81.52	4.49
Water Heating	9307	3697	0.9	Natural Gas	EF_FACTOR*MMSCF	0.45	2.38	MMSCF	102.90	5.67	245.39	13.52
Water Heating	9334	3698	0.5	Natural Gas	EF_FACTOR*MMSCF	0.25	1.32	MMSCF	102.90	5.67	136.33	7.51
Facility Heating	10145	3699	1.995	Natural Gas	EF_FACTOR*MMSCF	1.01	5.29	MMSCF	94.0	5.50	496.90	29.07
Water Heating	10145	3700	0.199	Natural Gas	EF_FACTOR*MMSCF	0.10	0.53	MMSCF	102.90	5.67	54.26	2.99
Water Heating	10400	3701	0.8	Natural Gas	EF_FACTOR*MMSCF	0.96	2.12	MMSCF	102.90	5.67	218.13	12.02
Water Heating	10660	3702	0.25	Natural Gas	EF_FACTOR*MMSCF	0.13	0.66	MMSCF	102.90	5.67	68.16	3.76
Water Heating	10728	3703	0.199	Natural Gas	EF_FACTOR*MMSCF	0.10	0.53	MMSCF	102.90	5.67	54.26	2.99
Water Heating	11041	3705	0.299	Natural Gas	EF_FACTOR*MMSCF	0.15	0.79	MMSCF	102.90	5.67	81.52	4.49
Water Heating	11041	3706	0.299	Natural Gas	EF_FACTOR*MMSCF	0.15	0.79	MMSCF	102.90	5.67	81.52	4.49
Water Heating	11042	3709	0.299	Natural Gas	EF_FACTOR*MMSCF	0.15	0.79	MMSCF	102.90	5.67	81.52	4.49
Water Heating	11042	3711	0.199	Natural Gas	EF_FACTOR*MMSCF	0.10	0.53	MMSCF	102.90	5.67	54.26	2.99
Water Heating	11042	3712	0.199	Natural Gas	EF_FACTOR*MMSCF	0.10	0.53	MMSCF	102.90	5.67	54.26	2.99
Water Heating	11777	3713	0.04	Natural Gas	EF_FACTOR*MMSCF	0.02	0.11	MMSCF	102.90	5.67	10.91	0.60
Water Heating	13007	3718	0.199	Natural Gas	EF_FACTOR*MMSCF	0.10	0.53	MMSCF	102.90	5.67	54.26	2.99
Water Heating	13007	3719	0.2	Natural Gas	EF_FACTOR*MMSCF	0.10	0.53	MMSCF	102.90	5.67	54.53	3.00
Water Heating	13007	3720	0.199	Natural Gas	EF_FACTOR*MMSCF	0.10	0.53	MMSCF	102.90	5.67	54.26	2.99
Water Heating	13123	3722	0.299	Natural Gas	EF_FACTOR*MMSCF	0.15	0.79	MMSCF	102.90	5.67	81.52	4.49
Water Heating	13123	3723	0.299	Natural Gas	EF_FACTOR*MMSCF	0.15	0.79	MMSCF	102.90	5.67	81.52	4.49
Facility Heating	13123	3724	0.299	Natural Gas	EF_FACTOR*MMSCF	0.26	0.79	MMSCF	102.90	5.67	81.52	4.49
Facility Heating	13123	3725	0.299	Natural Gas	EF_FACTOR*MMSCF	0.26	0.79	MMSCF	102.90	5.67	81.52	4.49
Water Heating	13675	3726	0.299	Natural Gas	EF_FACTOR*MMSCF	0.15	0.79	MMSCF	102.90	5.67	81.52	4.49
Water Heating	13675	3727	0.199	Natural Gas	EF_FACTOR*MMSCF	0.10	0.53	MMSCF	102.90	5.67	54.26	2.99

Table 4.5 Estimated Emissions from Permit Exempt External Combustion Devices

Description	Location	Pri_ID	Capacity (MMBTU)	Fuel	Equation	Usage			Emission Factors		Emissions (Lbs/Yr)	
						Actual	PTE	Units	NOx*	ROC*	NOx	ROC
Water Heating	13848	3728	0.199	Natural Gas	EF_FACTOR*MMSCF	0.10	0.53	MMSCF	102.90	5.67	54.26	2.99
Water Heating	14300	3732	0.3	Natural Gas	EF_FACTOR*MMSCF	0.15	0.79	MMSCF	102.90	5.67	81.80	4.51
Water Heating	16200	3733	0.399	Natural Gas	EF_FACTOR*MMSCF	0.20	1.06	MMSCF	102.90	5.67	108.79	5.99
Fire Training Burner	1583	3741		Propane/LPG	EF_FACTOR*GALS/1000	16,000.00	160,000.00	GALS	12.40	0.25	1,984.00	40.00
Water Heating	8500	3745	0.199	Natural Gas	EF_FACTOR*MMSCF	0.10	0.53	MMSCF	102.90	5.67	54.26	2.99
Water Heating	13854	3763	0.1	Natural Gas	EF_FACTOR*MMSCF	0.05	0.26	MMSCF	102.90	5.67	27.27	1.50
Water Heating	13854	3764	0.1	Natural Gas	EF_FACTOR*MMSCF	0.05	0.26	MMSCF	102.90	5.67	27.27	1.50
Water Heating	13855	3766	0.1	Natural Gas	EF_FACTOR*MMSCF	0.05	0.26	MMSCF	102.90	5.67	27.27	1.50
Water Heating	13856	3767	0.1	Natural Gas	EF_FACTOR*MMSCF	0.05	0.26	MMSCF	102.90	5.67	27.27	1.50
Water Heating	13857	3769	0.1	Natural Gas	EF_FACTOR*MMSCF	0.05	0.26	MMSCF	102.90	5.67	27.27	1.50
Water Heating	13857	3770	0.1	Natural Gas	EF_FACTOR*MMSCF	0.05	0.26	MMSCF	102.90	5.67	27.27	1.50
Water Heating	13859	3773	0.1	Natural Gas	EF_FACTOR*MMSCF	0.05	0.26	MMSCF	102.90	5.67	27.27	1.50
Water Heating	13859	3774	0.1	Natural Gas	EF_FACTOR*MMSCF	0.05	0.26	MMSCF	102.90	5.67	27.27	1.50
Water Heating	13860	3776	0.1	Natural Gas	EF_FACTOR*MMSCF	0.05	0.26	MMSCF	102.90	5.67	27.27	1.50
Water Heating	13861	3777	0.1	Natural Gas	EF_FACTOR*MMSCF	0.05	0.26	MMSCF	102.90	5.67	27.27	1.50
Water Heating	13861	3778	0.1	Natural Gas	EF_FACTOR*MMSCF	0.05	0.26	MMSCF	102.90	5.67	27.27	1.50
Water Heating	13862	3779	0.1	Natural Gas	EF_FACTOR*MMSCF	0.05	0.26	MMSCF	102.90	5.67	27.27	1.50
Water Heating	13863	3782	0.1	Natural Gas	EF_FACTOR*MMSCF	0.05	0.26	MMSCF	102.90	5.67	27.27	1.50
Water Heating	13864	3783	0.1	Natural Gas	EF_FACTOR*MMSCF	0.05	0.26	MMSCF	102.90	5.67	27.27	1.50
Facility Heating	13864	3784	0.1	Natural Gas	EF_FACTOR*MMSCF	0.05	0.26	MMSCF	102.90	5.67	27.27	1.50
Water Heating	13865	3786	0.1	Natural Gas	EF_FACTOR*MMSCF	0.05	0.26	MMSCF	102.90	5.67	27.27	1.50
Water Heating	13866	3787	0.1	Natural Gas	EF_FACTOR*MMSCF	0.05	0.26	MMSCF	102.90	5.67	27.27	1.50
Water Heating	13866	3788	0.1	Natural Gas	EF_FACTOR*MMSCF	0.05	0.26	MMSCF	102.90	5.67	27.27	1.50
Facility Heating	10145	3789	1.995	Natural Gas	EF_FACTOR*MMSCF	1.01	5.29	MMSCF	102.90	5.67	543.95	29.97
Facility Heating	6527	3810	0.65	Natural Gas	EF_FACTOR*MMSCF	0.33	1.72	MMSCF	102.90	5.67	177.23	9.77
Facility Heating	871	3811	0.65	Natural Gas	EF_FACTOR*MMSCF	0.33	1.72	MMSCF	102.90	5.67	177.23	9.77
Facility Heating	7501	3812	0.65	Natural Gas	EF_FACTOR*MMSCF	0.33	1.72	MMSCF	102.90	5.67	177.23	9.77
Facility Heating	7501	3813	0.65	Natural Gas	EF_FACTOR*MMSCF	0.33	1.72	MMSCF	102.90	5.67	177.23	9.77
Facility Heating	13330	3819	1.75	Natural Gas	EF_FACTOR*MMSCF	0.88	4.64	MMSCF	102.90	5.67	477.15	26.29
Water Heating	8250	3826	0.299	Natural Gas	EF_FACTOR*MMSCF	0.15	0.79	MMSCF	102.90	5.67	81.52	4.49
Water Heating	11041	3827	0.299	Natural Gas	EF_FACTOR*MMSCF	0.15	0.79	MMSCF	102.90	5.67	81.52	4.49
Furnace	1930	3828	1	Propane/LPG	EF_FACTOR*GALS/1000	7,340.63	32,276.61	GALS	13.5	0.47	435.73	15.17
Furnace	1930	3829	1	Propane/LPG	EF_FACTOR*GALS/1000	7,340.63	32,276.61	GALS	13.5	0.47	435.73	15.17
Water Heating	13848	3832	0.3	Natural Gas	EF_FACTOR*MMSCF	0.15	0.79	MMSCF	102.90	5.67	81.80	4.51
Water Heating	1728	3833	0.075	Natural Gas	EF_FACTOR*MMSCF	0.04	0.20	MMSCF	102.90	5.67	20.45	1.13
Water Heating	1335	3850	0.156	Natural Gas	EF_FACTOR*MMSCF	0.08	0.41	MMSCF	102.90	5.67	42.53	2.34
Water Heating	1871	3851	0.13	Natural Gas	EF_FACTOR*MMSCF	0.07	0.34	MMSCF	102.90	5.67	35.45	1.95
Water Heating	1871	3852	0.13	Natural Gas	EF_FACTOR*MMSCF	0.07	0.34	MMSCF	102.90	5.67	35.45	1.95
Water Heating	1871	3853	0.13	Natural Gas	EF_FACTOR*MMSCF	0.07	0.34	MMSCF	102.90	5.67	35.45	1.95
Water Heating	7425	3854	0.199	Natural Gas	EF_FACTOR*MMSCF	0.10	0.53	MMSCF	102.90	5.67	54.26	2.99
Water Heating	7501	3855	0.034	Natural Gas	EF_FACTOR*MMSCF	0.02	0.09	MMSCF	102.90	5.67	9.27	0.51
Water Heating	8314	3857	0.034	Natural Gas	EF_FACTOR*MMSCF	0.02	0.09	MMSCF	102.90	5.67	9.27	0.51
Water Heating	8500	3858	0.199	Natural Gas	EF_FACTOR*MMSCF	0.10	0.53	MMSCF	102.90	5.67	54.26	2.99
Facility Heating	9005	3859	0.745	Natural Gas	EF_FACTOR*MMSCF	0.38	1.97	MMSCF	102.90	5.67	203.13	11.19
Facility Heating	9005	3860	0.745	Natural Gas	EF_FACTOR*MMSCF	0.38	1.97	MMSCF	102.90	5.67	203.13	11.19
Water Heating	9005	3861	0.15	Natural Gas	EF_FACTOR*MMSCF	0.08	0.40	MMSCF	102.90	5.67	40.90	2.25

Table 4.5 Estimated Emissions from Permit Exempt External Combustion Devices

Description	Location	Pri_ID	Capacity (MMBTU)	Fuel	Equation	Usage			Emission Factors		Emissions (Lbs/Yr)	
						Actual	PTE	Units	NOx*	ROC*	NOx	ROC
Water Heating	9005	3862	0.15	Natural Gas	EF_FACTOR*MMSCF	0.08	0.40	MMSCF	102.90	5.67	40.90	2.25
Water Heating	9340	3863	0.075	Natural Gas	EF_FACTOR*MMSCF	0.04	0.20	MMSCF	102.90	5.67	20.45	1.13
Water Heating	10343	3864	0.199	Natural Gas	EF_FACTOR*MMSCF	0.10	0.53	MMSCF	102.90	5.67	54.26	2.99
Water Heating	10366	3865	0.075	Natural Gas	EF_FACTOR*MMSCF	0.11	0.20	MMSCF	102.90	5.67	20.45	1.13
Water Heating	11777	3867	0.34	Natural Gas	EF_FACTOR*MMSCF	0.17	0.90	MMSCF	102.90	5.67	92.70	5.11
Water Heating	13700	3868	0.199	Natural Gas	EF_FACTOR*MMSCF	0.10	0.53	MMSCF	102.90	5.67	54.26	2.99
Facility Heating	14002	3869	0.11	Natural Gas	EF_FACTOR*MMSCF	0.06	0.29	MMSCF	102.90	5.67	29.99	1.65
Food Prep Burner	10366	3871	0.095	Natural Gas	EF_FACTOR*MMSCF	0.05	0.25	MMSCF	102.90	5.67	25.90	1.43
Water Heating	13121	3916	0.299	Natural Gas	EF_FACTOR*MMSCF	0.15	0.79	MMSCF	102.90	5.67	81.52	4.49
Water Heating	13121	3917	0.299	Natural Gas	EF_FACTOR*MMSCF	0.15	0.79	MMSCF	102.90	5.67	81.52	4.49
Water Heating	13863	3918	0.13	Natural Gas	EF_FACTOR*MMSCF	0.07	0.34	MMSCF	102.90	5.67	35.45	1.95
Water Heating	7525	3919	0.1	Natural Gas	EF_FACTOR*MMSCF	0.05	0.26	MMSCF	102.90	5.67	27.27	1.50
Water Heating	11041	3920	0.199	Natural Gas	EF_FACTOR*MMSCF	0.10	0.53	MMSCF	102.90	5.67	54.26	2.99
Water Heating	11041	3922	0.199	Natural Gas	EF_FACTOR*MMSCF	0.10	0.53	MMSCF	102.90	5.67	54.26	2.99
Facility Heating	1743	3923	0.3	Natural Gas	EF_FACTOR*MMSCF	0.15	0.79	MMSCF	102.90	5.67	81.80	4.51
Facility Heating	1743	3924	0.3	Natural Gas	EF_FACTOR*MMSCF	0.15	0.79	MMSCF	102.90	5.67	81.80	4.51
Facility Heating	7437	3941	0.84	Natural Gas	EF_FACTOR*MMSCF	0.42	2.23	MMSCF	102.90	5.67	229.03	12.62
Facility Heating	1800	3942	0.84	Propane/LPG	EF_FACTOR*MMSCF	0.42	2.23	MMSCF	102.90	5.67	0.23	0.01
Water Heating	1728	3951	0.75	Natural Gas	EF_FACTOR*MMSCF	0.38	1.99	MMSCF	102.90	5.67	204.49	11.27
Facility Heating	799	3961	0.15	Natural Gas	EF_FACTOR*MMSCF	0.08	0.40	MMSCF	102.90	5.67	40.90	2.25
Facility Heating	799	3962	0.15	Natural Gas	EF_FACTOR*MMSCF	0.08	0.40	MMSCF	102.90	5.67	40.90	2.25
Water Heating	16113	3965	0.25	Natural Gas	EF_FACTOR*MMSCF	0.13	0.66	MMSCF	102.90	5.67	68.16	3.76
Water Heating	11013	3971	0.399	Natural Gas	EF_FACTOR*MMSCF	0.20	1.06	MMSCF	102.90	5.67	108.79	5.99
Water Heating	1546A	3986	2	Natural Gas	EF_FACTOR*MMSCF	1.01	5.30	MMSCF	102.90	5.67	545.31	30.05
Water Heating	1546B	3987	2	Natural Gas	EF_FACTOR*MMSCF	1.01	5.30	MMSCF	102.90	5.67	545.31	30.05
Water Heating	1740	3988	0.751	Natural Gas	EF_FACTOR*MMSCF	0.38	1.99	MMSCF	102.90	5.67	204.77	11.28
Water Heating	6710	3989	0.375	Natural Gas	EF_FACTOR*MMSCF	0.19	0.99	MMSCF	102.90	5.67	102.25	5.63
Water Heating	13123	3990	0.299	Natural Gas	EF_FACTOR*MMSCF	0.15	0.79	MMSCF	102.90	5.67	81.52	4.49
Water Heating	799	3998	0.076	Natural Gas	EF_FACTOR*MMSCF	0.04	0.20	MMSCF	102.90	5.67	20.72	1.14
Water Heating	6601	3999	0.751	Natural Gas	EF_FACTOR*MMSCF	0.38	1.99	MMSCF	102.90	5.67	204.77	11.28
Water Heating	10503	4000	0.399	Natural Gas	EF_FACTOR*MMSCF	0.20	1.06	MMSCF	102.90	5.67	108.79	5.99
Facility Heating	840	4001	0.285	Natural Gas	EF_FACTOR*MMSCF	0.14	0.76	MMSCF	102.90	5.67	77.71	4.28
Facility Heating	840	4002	0.285	Natural Gas	EF_FACTOR*MMSCF	0.14	0.76	MMSCF	102.90	5.67	77.71	4.28
Facility Heating	8173	4007	1.8	Natural Gas	EF_FACTOR*MMSCF	0.91	4.77	MMSCF	102.90	5.67	490.78	27.04
Water Heating	870	4019	0.7	Natural Gas	EF_FACTOR*MMSCF	0.35	1.85	MMSCF	102.90	5.67	190.86	10.52
Water Heating	8195	4020	0.999	Natural Gas	EF_FACTOR*MMSCF	0.50	2.65	MMSCF	102.90	5.67	272.38	15.01
Facility Heating	8314	4025	0.75	Natural Gas	EF_FACTOR*MMSCF	0.38	1.99	MMSCF	102.90	5.67	204.49	11.27
Facility Heating	8314	4026	0.75	Natural Gas	EF_FACTOR*MMSCF	0.38	1.99	MMSCF	102.90	5.67	204.49	11.27
Water Heating	875	4040	1.05	Natural Gas	EF_FACTOR*MMSCF	0.53	2.78	MMSCF	102.90	5.67	286.29	15.78
Water Heating	13852	4041	0.199	Natural Gas	EF_FACTOR*MMSCF	0.10	0.53	MMSCF	102.90	5.67	54.26	2.99
Water Heating	13860	4042	0.199	Natural Gas	EF_FACTOR*MMSCF	0.10	0.53	MMSCF	102.90	5.67	54.26	2.99
Water Heating	8401	4043	1.5	Natural Gas	EF_FACTOR*MMSCF	0.76	3.97	MMSCF	102.90	5.67	408.99	22.54
Water Heating	8401	4044	1.5	Natural Gas	EF_FACTOR*MMSCF	0.76	3.97	MMSCF	102.90	5.67	408.99	22.54
Facility Heating	11042	4053	0.299	Natural Gas	EF_FACTOR*MMSCF	0.15	0.79	MMSCF	102.90	5.67	81.52	4.49
Water Heating	1737	4056	0.038	Natural Gas	EF_FACTOR*MMSCF	0.02	0.10	MMSCF	102.90	5.67	10.36	0.57
Water Heating	1743	4057	0.04	Natural Gas	EF_FACTOR*MMSCF	0.02	0.11	MMSCF	102.90	5.67	10.91	0.60

Table 4.5 Estimated Emissions from Permit Exempt External Combustion Devices

Description	Location	Pri_ID	Capacity (MMBTU)	Fuel	Equation	Usage			Emission Factors		Emissions (Lbs/Yr)	
						Actual	PTE	Units	NOx*	ROC*	NOx	ROC
Water Heating	6510	4058	0.75	Natural Gas	EF_FACTOR*MMSCF	0.38	1.99	MMSCF	102.90	5.67	204.49	11.27
Water Heating	23201	4059	0.181	Natural Gas	EF_FACTOR*MMSCF	0.09	0.48	MMSCF	102.90	5.67	49.35	2.72
Facility Heating	11042	4063	0.299	Natural Gas	EF_FACTOR*MMSCF	0.15	0.79	MMSCF	102.90	5.67	81.52	4.49
Water Heating	7011	4068	1.5	Natural Gas	EF_FACTOR*MMSCF	0.76	3.97	MMSCF	102.90	5.67	408.99	22.54
Water Heating	8510	4069	0.75	Natural Gas	EF_FACTOR*MMSCF	0.38	1.99	MMSCF	102.90	5.67	204.49	11.27
Water Heating	8510	4070	0.75	Natural Gas	EF_FACTOR*MMSCF	0.38	1.99	MMSCF	102.90	5.67	204.49	11.27
Water Heating	2500	4071	0.16	Natural Gas	EF_FACTOR*MMSCF	0.08	0.42	MMSCF	102.90	5.67	43.63	2.40
Water Heating	1506	4086	0.299	Natural Gas	EF_FACTOR*MMSCF	0.15	0.79	MMSCF	102.90	5.67	81.52	4.49
Water Heating	1506	4087	0.299	Natural Gas	EF_FACTOR*MMSCF	0.15	0.79	MMSCF	102.90	5.67	81.52	4.49
Water Heating	8500	4088	1.999	Natural Gas	EF_FACTOR*MMSCF	1.01	5.30	MMSCF	102.90	5.67	545.04	30.03
Water Heating	8500	4089	1.999	Natural Gas	EF_FACTOR*MMSCF	1.01	5.30	MMSCF	102.90	5.67	545.04	30.03
Water Heating	10510	4090	0.075	Natural Gas	EF_FACTOR*MMSCF	0.48	0.20	MMSCF	102.90	5.67	20.45	1.13
Water Heating	13851	4091	0.199	Natural Gas	EF_FACTOR*MMSCF	0.10	0.53	MMSCF	102.90	5.67	54.26	2.99
Water Heating	13852	4092	0.199	Natural Gas	EF_FACTOR*MMSCF	0.10	0.53	MMSCF	102.90	5.67	54.26	2.99
Water Heating	13856	4093	0.199	Natural Gas	EF_FACTOR*MMSCF	0.10	0.53	MMSCF	102.90	5.67	54.26	2.99
Water Heating	13865	4094	0.199	Natural Gas	EF_FACTOR*MMSCF	0.10	0.53	MMSCF	102.90	5.67	54.26	2.99
PSB Process Heating	8190	4106	0.16	Natural Gas	EF_FACTOR*MMSCF	0.08	0.42	MMSCF	102.90	5.67	43.63	2.40
Facility Heating	12000	4110	1	Natural Gas	EF_FACTOR*MMSCF	0.50	2.65	MMSCF	102.90	5.67	272.66	15.02
Facility Heating	12000	4111	1	Natural Gas	EF_FACTOR*MMSCF	0.50	2.65	MMSCF	102.90	5.67	272.66	15.02
Water Heating	13330	4115	0.36	Natural Gas	EF_FACTOR*MMSCF	0.18	0.95	MMSCF	102.90	5.67	98.16	5.41
Facility Heating	6670	4121	2	Natural Gas	EF_FACTOR*MMSCF	1.01	5.30	MMSCF	102.90	5.67	545.31	30.05
Facility Heating	6670	4122	2	Natural Gas	EF_FACTOR*MMSCF	1.01	5.30	MMSCF	102.90	5.67	545.31	30.05
Water Heating	8310	4136	0.9	Natural Gas	EF_FACTOR*MMSCF	0.45	2.38	MMSCF	102.90	5.67	245.39	13.52
Water Heating	13855	4142	0.199	Natural Gas	EF_FACTOR*MMSCF	0.10	0.53	MMSCF	102.90	5.67	54.26	2.99
Water Heating	1746	4151	0.034	Natural Gas	EF_FACTOR*MMSCF	0.02	0.09	MMSCF	102.90	5.67	9.27	0.51
Water Heating	490	4156	0.199	Propane/LPG	EF_FACTOR*GALS/1000	1,460.78	6,423.04	GALS	13.45	0.49	86.39	3.15
Water Heating	1555	4179	0.036	Natural Gas	EF_FACTOR*MMSCF	0.02	0.10	MMSCF	102.90	5.67	9.82	0.54
Water Heating	1555	4180	0.036	Natural Gas	EF_FACTOR*MMSCF	0.02	0.10	MMSCF	102.90	5.67	9.82	0.54
Water Heating	1731	4181	0.038	Natural Gas	EF_FACTOR*MMSCF	0.02	0.10	MMSCF	102.90	5.67	10.36	0.57
Water Heating	6710	4182	0.034	Natural Gas	EF_FACTOR*MMSCF	0.02	0.09	MMSCF	102.90	5.67	9.27	0.51
Water Heating	8175	4183	0.075	Natural Gas	EF_FACTOR*MMSCF	0.04	0.20	MMSCF	102.90	5.67	20.45	1.13
Facility Heating	8290	4184	1.262	Natural Gas	EF_FACTOR*MMSCF	0.64	3.34	MMSCF	102.90	5.67	344.09	18.96
Water Heating	8339	4185	0.034	Natural Gas	EF_FACTOR*MMSCF	0.02	0.09	MMSCF	102.90	5.67	9.27	0.51
Facility & Water Heating	9190	4186	0.3	Natural Gas	EF_FACTOR*MMSCF	0.15	0.79	MMSCF	102.90	5.67	81.80	4.51
Facility & Water Heating	9190	4187	0.3	Natural Gas	EF_FACTOR*MMSCF	0.15	0.79	MMSCF	102.90	5.67	81.80	4.51
Water Heating	9307	4188	0.04	Natural Gas	EF_FACTOR*MMSCF	0.02	0.11	MMSCF	102.90	5.67	10.91	0.60
Water Heating	9320	4189	0.04	Natural Gas	EF_FACTOR*MMSCF	0.02	0.11	MMSCF	102.90	5.67	10.91	0.60
Water Heating	9334	4190	0.04	Natural Gas	EF_FACTOR*MMSCF	0.02	0.11	MMSCF	102.90	5.67	10.91	0.60
Water Heating	9340	4191	0.033	Natural Gas	EF_FACTOR*MMSCF	0.02	0.09	MMSCF	102.90	5.67	9.00	0.50
Water Heating	9340	4192	0.033	Natural Gas	EF_FACTOR*MMSCF	0.02	0.09	MMSCF	102.90	5.67	9.00	0.50
Water Heating	9340	4193	0.04	Natural Gas	EF_FACTOR*MMSCF	0.02	0.11	MMSCF	102.90	5.67	10.91	0.60
Water Heating	10122	4194	0.075	Natural Gas	EF_FACTOR*MMSCF	0.04	0.20	MMSCF	102.90	5.67	20.45	1.13
Water Heating	10314	4195	0.074	Natural Gas	EF_FACTOR*MMSCF	0.04	0.20	MMSCF	102.90	5.67	20.18	1.11
Water Heating	10317	4196	0.04	Natural Gas	EF_FACTOR*MMSCF	0.02	0.11	MMSCF	102.90	5.67	10.91	0.60
Water Heating	10364	4197	0.038	Natural Gas	EF_FACTOR*MMSCF	0.02	0.10	MMSCF	102.90	5.67	10.36	0.57
Water Heating	10366	4201	0.04	Natural Gas	EF_FACTOR*MMSCF	0.06	0.11	MMSCF	102.90	5.67	10.91	0.60

Table 4.5 Estimated Emissions from Permit Exempt External Combustion Devices

Description	Location	Pri_ID	Capacity (MMBTU)	Fuel	Equation	Usage			Emission Factors		Emissions (Lbs/Yr)	
						Actual	PTE	Units	NOx*	ROC*	NOx	ROC
Water Heating	10373	4202	0.038	Natural Gas	EF_FACTOR*MMSCF	0.02	0.10	MMSCF	102.90	5.67	10.36	0.57
Water Heating	10503	4203	0.033	Natural Gas	EF_FACTOR*MMSCF	0.02	0.09	MMSCF	102.90	5.67	9.00	0.50
Water Heating	10711	4204	0.074	Natural Gas	EF_FACTOR*MMSCF	0.04	0.20	MMSCF	102.90	5.67	20.18	1.11
Water Heating	10713	4205	0.04	Natural Gas	EF_FACTOR*MMSCF	0.02	0.11	MMSCF	102.90	5.67	10.91	0.60
Water Heating	10717	4206	0.04	Natural Gas	EF_FACTOR*MMSCF	0.02	0.11	MMSCF	102.90	5.67	10.91	0.60
Water Heating	11013	4207	0.036	Natural Gas	EF_FACTOR*MMSCF	0.02	0.10	MMSCF	102.90	5.67	9.82	0.54
Water Heating	11040	4208	0.038	Natural Gas	EF_FACTOR*MMSCF	0.02	0.10	MMSCF	102.90	5.67	10.36	0.57
Water Heating	12901	4209	0.199	Natural Gas	EF_FACTOR*MMSCF	0.10	0.53	MMSCF	102.90	5.67	54.26	2.99
Water Heating	12903	4210	0.199	Natural Gas	EF_FACTOR*MMSCF	0.10	0.53	MMSCF	102.90	5.67	54.26	2.99
Water Heating	12905	4211	0.08	Natural Gas	EF_FACTOR*MMSCF	0.04	0.21	MMSCF	102.90	5.67	21.81	1.20
Water Heating	12907	4212	0.04	Natural Gas	EF_FACTOR*MMSCF	0.02	0.11	MMSCF	102.90	5.67	10.91	0.60
Water Heating	12911	4213	0.25	Natural Gas	EF_FACTOR*MMSCF	0.13	0.66	MMSCF	102.90	5.67	68.16	3.76
Water Heating	12913	4214	0.075	Natural Gas	EF_FACTOR*MMSCF	0.04	0.20	MMSCF	102.90	5.67	20.45	1.13
Water Heating	12915	4215	0.199	Natural Gas	EF_FACTOR*MMSCF	0.10	0.53	MMSCF	102.90	5.67	54.26	2.99
Water Heating	21330	4218	0.037	Propane/LPG	EF_FACTOR*GALS/1000	271.60	1,194.23	GALS	13.45	0.49	16.06	0.59
Water Heating	8312	4219	0.038	Natural Gas	EF_FACTOR*MMSCF	0.02	0.10	MMSCF	102.90	5.67	10.36	0.57
Water Heating	11025	4220	0.04	Natural Gas	EF_FACTOR*MMSCF	0.02	0.11	MMSCF	102.90	5.67	10.91	0.60
Furnace	6015	4221	0.075	Natural Gas	EF_FACTOR*MMSCF	0.04	0.20	MMSCF	94.0	5.50	18.68	1.09
Furnace	6447	4222	0.08	Natural Gas	EF_FACTOR*MMSCF	0.04	0.21	MMSCF	94.0	5.50	19.93	1.17
Furnace	11439	4223	0.11	Natural Gas	EF_FACTOR*MMSCF	0.06	0.29	MMSCF	94.0	5.50	27.40	1.60
Furnace	12901	4224	0.075	Natural Gas	EF_FACTOR*MMSCF	0.04	0.20	MMSCF	94.0	5.50	18.68	1.09
Furnace	12903	4225	0.075	Natural Gas	EF_FACTOR*MMSCF	0.04	0.20	MMSCF	94.0	5.50	18.68	1.09
Furnace	12903	4226	0.075	Natural Gas	EF_FACTOR*MMSCF	0.04	0.20	MMSCF	94.0	5.50	18.68	1.09
Furnace	12905	4227	0.075	Natural Gas	EF_FACTOR*MMSCF	0.04	0.20	MMSCF	94.0	5.50	18.68	1.09
Furnace	12905	4228	0.075	Natural Gas	EF_FACTOR*MMSCF	0.04	0.20	MMSCF	94.0	5.50	18.68	1.09
Furnace	12907	4229	0.075	Natural Gas	EF_FACTOR*MMSCF	0.04	0.20	MMSCF	94.0	5.50	18.68	1.09
Furnace	12911	4230	0.075	Natural Gas	EF_FACTOR*MMSCF	0.04	0.20	MMSCF	94.0	5.50	18.68	1.09
Furnace	12911	4231	0.075	Natural Gas	EF_FACTOR*MMSCF	0.04	0.20	MMSCF	94.0	5.50	18.68	1.09
Furnace	12913	4232	0.075	Natural Gas	EF_FACTOR*MMSCF	0.04	0.20	MMSCF	94.0	5.50	18.68	1.09
Furnace	12913	4233	0.075	Natural Gas	EF_FACTOR*MMSCF	0.04	0.20	MMSCF	94.0	5.50	18.68	1.09
Furnace	12915	4234	0.075	Natural Gas	EF_FACTOR*MMSCF	0.04	0.20	MMSCF	94.0	5.50	18.68	1.09
Furnace	12915	4235	0.075	Natural Gas	EF_FACTOR*MMSCF	0.04	0.20	MMSCF	94.0	5.50	18.68	1.09
Furnace	14002	4236	0.1	Natural Gas	EF_FACTOR*MMSCF	0.05	0.26	MMSCF	94.0	5.50	24.91	1.46
Furnace	14002	4237	0.1	Natural Gas	EF_FACTOR*MMSCF	0.05	0.26	MMSCF	94.0	5.50	24.91	1.46
Furnace	14003	4238	0.12	Natural Gas	EF_FACTOR*MMSCF	0.06	0.32	MMSCF	94.0	5.50	29.89	1.75
Furnace	14003	4239	0.12	Natural Gas	EF_FACTOR*MMSCF	0.06	0.32	MMSCF	94.0	5.50	29.89	1.75
Furnace	14004	4240	0.11	Natural Gas	EF_FACTOR*MMSCF	0.06	0.29	MMSCF	94.0	5.50	27.40	1.60
Furnace	14004	4241	0.12	Natural Gas	EF_FACTOR*MMSCF	0.06	0.32	MMSCF	94.0	5.50	29.89	1.75
Furnace	14004	4242	0.12	Natural Gas	EF_FACTOR*MMSCF	0.06	0.32	MMSCF	94.0	5.50	29.89	1.75
Furnace	14005	4243	0.12	Natural Gas	EF_FACTOR*MMSCF	0.06	0.32	MMSCF	94.0	5.50	29.89	1.75
Furnace	14005	4244	0.12	Natural Gas	EF_FACTOR*MMSCF	0.06	0.32	MMSCF	94.0	5.50	29.89	1.75
Furnace	14005	4245	0.12	Natural Gas	EF_FACTOR*MMSCF	0.06	0.32	MMSCF	94.0	5.50	29.89	1.75
Furnace	14006	4246	0.12	Natural Gas	EF_FACTOR*MMSCF	0.06	0.32	MMSCF	94.0	5.50	29.89	1.75
Furnace	14006	4247	0.12	Natural Gas	EF_FACTOR*MMSCF	0.06	0.32	MMSCF	94.0	5.50	29.89	1.75
Furnace	14006	4248	0.12	Natural Gas	EF_FACTOR*MMSCF	0.06	0.32	MMSCF	94.0	5.50	29.89	1.75
Furnace	14007	4249	0.12	Natural Gas	EF_FACTOR*MMSCF	0.06	0.32	MMSCF	94.0	5.50	29.89	1.75

Table 4.5 Estimated Emissions from Permit Exempt External Combustion Devices

Description	Location	Pri_ID	Capacity (MMBTU)	Fuel	Equation	Usage			Emission Factors		Emissions (Lbs/Yr)	
						Actual	PTE	Units	NOx*	ROC*	NOx	ROC
Furnace	14007	4250	0.12	Natural Gas	EF_FACTOR*MMSCF	0.06	0.32	MMSCF	94.0	5.50	29.89	1.75
Furnace	14007	4251	0.12	Natural Gas	EF_FACTOR*MMSCF	0.06	0.32	MMSCF	94.0	5.50	29.89	1.75
Furnace	14008	4252	0.11	Natural Gas	EF_FACTOR*MMSCF	0.06	0.29	MMSCF	94.0	5.50	27.40	1.60
Furnace	14008	4253	0.12	Natural Gas	EF_FACTOR*MMSCF	0.06	0.32	MMSCF	94.0	5.50	29.89	1.75
Furnace	14008	4254	0.12	Natural Gas	EF_FACTOR*MMSCF	0.06	0.32	MMSCF	94.0	5.50	29.89	1.75
Furnace	14009	4255	0.12	Natural Gas	EF_FACTOR*MMSCF	0.06	0.32	MMSCF	94.0	5.50	29.89	1.75
Furnace	14009	4256	0.1	Natural Gas	EF_FACTOR*MMSCF	0.05	0.26	MMSCF	94.0	5.50	24.91	1.46
Furnace	14010	4258	0.125	Natural Gas	EF_FACTOR*MMSCF	0.06	0.33	MMSCF	94.0	5.50	31.13	1.82
Furnace	14010	4259	0.125	Natural Gas	EF_FACTOR*MMSCF	0.06	0.33	MMSCF	94.0	5.50	31.13	1.82
Furnace	14010	4260	0.125	Natural Gas	EF_FACTOR*MMSCF	0.06	0.33	MMSCF	94.0	5.50	31.13	1.82
Furnace	14010	4261	0.125	Natural Gas	EF_FACTOR*MMSCF	0.06	0.33	MMSCF	94.0	5.50	31.13	1.82
Furnace	14010	4262	0.125	Natural Gas	EF_FACTOR*MMSCF	0.06	0.33	MMSCF	94.0	5.50	31.13	1.82
Furnace	14010	4263	0.125	Natural Gas	EF_FACTOR*MMSCF	0.06	0.33	MMSCF	94.0	5.50	31.13	1.82
Furnace	14010	4264	0.125	Natural Gas	EF_FACTOR*MMSCF	0.06	0.33	MMSCF	94.0	5.50	31.13	1.82
Furnace	14010	4265	0.125	Natural Gas	EF_FACTOR*MMSCF	0.06	0.33	MMSCF	94.0	5.50	31.13	1.82
Furnace	23228	4266	0.11	Natural Gas	EF_FACTOR*MMSCF	0.06	0.29	MMSCF	94.0	5.50	27.40	1.60
Furnace	23228	4267	0.11	Natural Gas	EF_FACTOR*MMSCF	0.06	0.29	MMSCF	94.0	5.50	27.40	1.60
Facility & Water Heating	13851	4270	0.199	Natural Gas	EF_FACTOR*MMSCF	0.10	0.53	MMSCF	102.90	5.67	54.26	2.99
Facility & Water Heating	13853	4271	0.199	Natural Gas	EF_FACTOR*MMSCF	0.10	0.53	MMSCF	102.90	5.67	54.26	2.99
Facility & Water Heating	13853	4272	0.199	Natural Gas	EF_FACTOR*MMSCF	0.10	0.53	MMSCF	102.90	5.67	54.26	2.99
Facility & Water Heating	13855	4273	0.199	Natural Gas	EF_FACTOR*MMSCF	0.10	0.53	MMSCF	102.90	5.67	54.26	2.99
Facility & Water Heating	13858	4274	0.199	Natural Gas	EF_FACTOR*MMSCF	0.10	0.53	MMSCF	102.90	5.67	54.26	2.99
Facility & Water Heating	13858	4275	0.199	Natural Gas	EF_FACTOR*MMSCF	0.10	0.53	MMSCF	102.90	5.67	54.26	2.99
Facility Heating	10577	4276	0.5	Natural Gas	EF_FACTOR*MMSCF	0.25	1.32	MMSCF	102.90	5.67	136.33	7.51
Facility Heating	10577	4277	0.5	Natural Gas	EF_FACTOR*MMSCF	0.25	1.32	MMSCF	102.90	5.67	136.33	7.51
Facility Heating	10577	4278	0.5	Natural Gas	EF_FACTOR*MMSCF	0.25	1.32	MMSCF	102.90	5.67	136.33	7.51
Facility Heating	10577	4279	0.5	Natural Gas	EF_FACTOR*MMSCF	0.25	1.32	MMSCF	102.90	5.67	136.33	7.51
Furnace	14009	4302	0.11	Natural Gas	EF_FACTOR*MMSCF	0.06	0.29	MMSCF	94.0	5.50	27.40	1.60
Water Heating	13862	4303	0.199	Natural Gas	EF_FACTOR*MMSCF	0.10	0.53	MMSCF	94.0	5.50	49.57	2.90
Water Heating	10711	4304	0.075	Natural Gas	EF_FACTOR*MMSCF	0.04	0.20	MMSCF	94.0	5.50	18.68	1.09
Furnace	8312	4308	0.125	Natural Gas	EF_FACTOR*MMSCF	0.06	0.33	MMSCF	94.0	5.50	31.13	1.82
Furnace	8312	4309	0.125	Natural Gas	EF_FACTOR*MMSCF	0.06	0.33	MMSCF	94.0	5.50	31.13	1.82
Facility Heating	10130	4295	2	Natural Gas	EF_FACTOR*MMSCF	1.01	5.30	MMSCF	94.0	5.50	498.15	29.15
										Total (lbs)	44,659.36	2,295.03
										Total (tons	22.33	1.15

Notes:

Actual Usage is derived by pro rating total base annual reciept of fuel to all units, accounting for individual capacity rating.

PTE Usage is capacity x hours per year x conversion factor (btu/units); Hours = 290; 1102 btu/scf NG, and 90468 btu/gal LPG

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

Table 4.6 Abrasive Blasting Cabinet Emissions

Building Number	Equip. Location	Operator ID	Equation	Rate (Lbs/Hr)	Hours	Emission (Lbs)
875	875 Sweeney Rd	1854	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	3633	EM = 0.041 *Q*(100-CF)	150	416	312
541	541 Coast Rd	3634	EM = 0.041 *Q*(100-CF)	180	416	374.4
9327	1346 New Mexico Ave	3837	EM = 0.041 *Q*(100-CF)	180	416	374.4
10260	101 Community Loop	3839	EM = 0.041 *Q*(100-CF)	180	416	374.4
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
21155	155 Corral Rd Rd	4283	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 4.7 Estimated Emissions from Permit Exempt Storage Tanks

Description	Location	Pri_ID	Content	Equation	Capacity (gal)	Throughput (gal)	ROC (lbs/yr)
Fuel Storage	10723	1214	Diesel	Assumed to be negligible	4000	47625	
Fueling Generator	11439	1217	Diesel	Assumed to be negligible	550	81	
Fueling Equipment	SLC-2	1220	Diesel	Assumed to be negligible	235	1283	
Fueling Generator	10525	1221	Diesel	Assumed to be negligible	150	102	
Gearbox Lube for Engine 1	525	1224	Diesel	Assumed to be negligible	2500	0	
Gearbox Lube for Engine 2	525	1226	Diesel	Assumed to be negligible	2500	0	
Gearbox Lube for Engine 3	525	1228	Diesel	Assumed to be negligible	2500	0	
Gearbox Lube for Engine 4	525	1229	Diesel	Assumed to be negligible	2500	0	
Gearbox Lube for Engine 5	525	1230	Diesel	Assumed to be negligible	2500	0	
Fueling Equipment	SLC-2	1232	Gasoline	From GDF Emissions (ver 1.0)	235	4405	55.60
Fueling Equipment	SLC-2	1234	Gasoline	From GDF Emissions (ver 1.0)	235	4405	55.60
Fueling Equipment	1345	1243	Gasoline	From GDF Emissions (ver 1.0)	249	2665.6	44.85
Fuel Storage	1700-1715	1249	Diesel	Assumed to be negligible	20000	47599	
Fuel Storage	1700-1715	1250	Diesel	Assumed to be negligible	20000	47599	
Fueling Generator	380	1268	Diesel	Assumed to be negligible	240	0	
Fueling Generator	64	1297	Diesel	Assumed to be negligible	4000	507	
Fueling Generator	1280	1308	Diesel	Assumed to be negligible	290	232	
Fueling Generator	1581	1312	Diesel	Assumed to be negligible	500	284	
Fueling Generator	21150	1317	Diesel	Assumed to be negligible	1500	187	
Fueling Generator	501	3091	Diesel	Assumed to be negligible	140	558	
Fueling Generator	906	3094	Diesel	Assumed to be negligible	350	272	
Fueling Generator	1561	3096	Diesel	Assumed to be negligible	500	355	
Fueling Generator	1555	3097	Diesel	Assumed to be negligible	64	0	
Fueling Generator	1604	3098	Diesel	Assumed to be negligible	550	313	
Fueling Generator	1639	3099	Diesel	Assumed to be negligible	300	714	
Fueling Generator	1737	3101	Diesel	Assumed to be negligible	40	8	
Fueling Generator	1764	3102	Diesel	Assumed to be negligible	180	37	
Fueling Fire Water Pump	1829	3104	Diesel	Assumed to be negligible	325	1	
Fueling Fire Water Pump	2305	3107	Diesel	Assumed to be negligible	285	524	
Fueling Generator	7425	3108	Diesel	Assumed to be negligible	250	126	
Fueling Generator	10660	3109	Diesel	Assumed to be negligible	88	30	
Fueling Generator	13850	3110	Diesel	Assumed to be negligible	250	215	
Fueling Generator	185	3114	Diesel	Assumed to be negligible	500	168	
Fueling Generator	425	3115	Diesel	Assumed to be negligible	175	141	
Fueling Equipment	LANDFILL SITE	3164	Diesel	Assumed to be negligible	500	5996	
Fueling Equipment	1345	3277	Diesel	Assumed to be negligible	1000	4089	
Fueling Generator	661	3306	Diesel	Assumed to be negligible	500	81	
Fueling Fire Water Pump	968	3308	Diesel	Assumed to be negligible	300	44	
Fueling Fire Water Pump	968	3309	Diesel	Assumed to be negligible	300	100	
Fueling Generator	12000	3310	Diesel	Assumed to be negligible	200	165	
Fueling Generator	1762	3312	Diesel	Assumed to be negligible	250	54	
Fueling Generator	10579	3314	Diesel	Assumed to be negligible	200	157	
Fueling Generator	1579	3335	Diesel	Assumed to be negligible	102	27	
Fueling Generator	6523	3336	Diesel	Assumed to be negligible	88	66	
Fueling Generator	1748	3338	Diesel	Assumed to be negligible	88	40	
Fueling Generator	1905	3339	Diesel	Assumed to be negligible	64	20	
Fueling Generator	11477	3342	Diesel	Assumed to be negligible	64	0	
Fueling Generator	1841	3345	Diesel	Assumed to be negligible	49	0	
Fueling Fire Water Pump	1829	3402	Diesel	Assumed to be negligible	325	21	
Fueling Generator	185	3429	Diesel	Assumed to be negligible	175	168	
Fueling Generator	185	3430	Diesel	Assumed to be negligible	175	168	
Fueling Generator	511	3431	Diesel	Assumed to be negligible	125	653	
Fueling Generator	8510	3432	Diesel	Assumed to be negligible	1000	1096	
Fueling Fire Water Pump	23209	3434	Diesel	Assumed to be negligible	200	134	
Fueling Equipment	5425	3438	Diesel	Assumed to be negligible	240	4451	
Fueling Equipment	5425	3439	Gasoline	From GDF Emissions (ver 1.0)	240	9249	89.87
Fueling Generator	1618	3442	Diesel	Assumed to be negligible	320	168	
Fueling Generator	2500	3443	Diesel	Assumed to be negligible	500	720	
Fueling Generator	3000	3444	Diesel	Assumed to be negligible	500	526	
Fueling Generator	1559	3446	Diesel	Assumed to be negligible	250	317	
Fueling Equipment	390T	3474	Diesel	Assumed to be negligible	235	0	
Fueling Equipment	398	3475	Gasoline	From GDF Emissions (ver 1.0)	235	0	9.95
Fueling Equipment	390T	3476	Diesel	Assumed to be negligible	235	0	
Fueling Equipment	390T	3478	Gasoline	From GDF Emissions (ver 1.0)	235	0	24.88
Fueling Generator	1629	3481	Diesel	Assumed to be negligible	320	132	
Fueling Generator	1591	3491	Diesel	Assumed to be negligible	85	101	
Fueling Generator	1524	3492	Diesel	Assumed to be negligible	79	54	
Fueling Generator	1501	3497	Diesel	Assumed to be negligible	85	19	
Fueling Generator	SLC-3	3498	Diesel	Assumed to be negligible	100	49	

Table 4.7 Estimated Emissions from Permit Exempt Storage Tanks

Description	Location	Pri_ID	Content	Equation	Capacity (gal)	Throughput (gal)	ROC (lbs/yr)
Fueling Generator	1937	3499	Diesel	Assumed to be negligible	514	110	
Fueling Generator	764	3541	Diesel	Assumed to be negligible	660	1017	
Fueling Generator	1914	3561	Diesel	Assumed to be negligible	500	75	
Fueling Generator	1962	3562	Diesel	Assumed to be negligible	388	135	
Fueling Generator	1964	3563	Diesel	Assumed to be negligible	388	133	
Fueling Generator	1971	3564	Diesel	Assumed to be negligible	388	131	
Fueling Generator	1972	3565	Diesel	Assumed to be negligible	388	116	
Fueling Generator	980	3566	Diesel	Assumed to be negligible	600	425	
Fueling Generator	399	3572	Diesel	Assumed to be negligible	1650	0	
Fueling Generator	1768	3574	Diesel	Assumed to be negligible	700	116	
Fueling Generator	23201	3583	Diesel	Assumed to be negligible	140	29	
Fueling Generator	6819	3598	Diesel	Assumed to be negligible	80	25	
Fueling Generator	518	3604	Diesel	Assumed to be negligible	79	69	
Fueling Generator	23160	3606	Diesel	Assumed to be negligible	79	20	
Fueling Generator	1592	3620	Diesel	Assumed to be negligible	85	92	
Fueling Generator	1980	3643	Diesel	Assumed to be negligible	366	116	
Fueling Generator	21203	3743	Diesel	Assumed to be negligible	425	204	
Fueling Generator	830	3805	Diesel	Assumed to be negligible	280	229	
Fueling Generator	8401	3807	Diesel	Assumed to be negligible	850	166	
Fueling Generator	6510	3816	Diesel	Assumed to be negligible	500	65	
Fueling Vehicles	800	3880	Gasoline	From GDF Emissions (ver 1.0)	249	21540	279.43
Fueling Vehicles	1851	3882	Gasoline	From GDF Emissions (ver 1.0)	249	14602	217.44
Fueling Equipment	1731	3883	Diesel	Assumed to be negligible	525	0	
Fueling Generator	1965	3908	Diesel	Assumed to be negligible	350	141	
Fueling Generator	1916	3909	Diesel	Assumed to be negligible	500	239	
Fueling Generator	2520	3911	Diesel	Assumed to be negligible	1000	1050	
Fueling Generator	490	3915	Diesel	Assumed to be negligible	79	21	
Fueling Equipment	5425	3925	Gasoline	From GDF Emissions (ver 1.0)	240	7711	96.34
Fueling Equipment	5425	3926	Diesel	Assumed to be negligible	240	1428	
Fueling Generator	SLC-3	3933	Diesel	Assumed to be negligible	100	53	
Fueling Generator	81	3947	Diesel	Assumed to be negligible	205	778	
Fueling Generator	929	3959	Diesel	Assumed to be negligible	500	244	
Fueling Generator	2	3973	Diesel	Assumed to be negligible	500	3	
Fueling Generator	383	3977	Diesel	Assumed to be negligible	500	529	
Fueling Generator	64	3981	Diesel	Assumed to be negligible	150	507	
Fueling Generator	395B	3984	Diesel	Assumed to be negligible	900	0	
Fueling Generator	1747	4050	Diesel	Assumed to be negligible	500	77	
Fueling Generator	1841	4114	Diesel	Assumed to be negligible	100	100	
Fueling Generators	1731	4139	Diesel	Assumed to be negligible	500	5550	
Fueling Equipment	3000	4140	Diesel	Assumed to be negligible	500	664	
Fueling Equipment	3000	4141	Diesel	Assumed to be negligible	525	0	
Fueling Generator	10579	4144	Diesel	Assumed to be negligible	400	329	
					Total	**248,140.6**	**873.94**
					Total (tpy)		**0.44**

Table 4.8 Emissions from EOD Operations at EOD Range

Type of Ordnance	Amount of Charge (NEW Lbs/Year)	Emission Factor		Emissions		Emission Factor Source
		NOX	NMHC	NOX	NMHC	
C-4 donor Charge	8000	6.30E-03	8.42E-04	50.40	6.73	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	8.5	1.50E-02	4.70E-03	0.13	0.04	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)		66.57	8.79	
		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

Table 4.9 Emissions from Small Arms Range

Type of Ammunition	Number of Rounds	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	555	1.60E-03	0.89	AP-42; Highest Values from Tables 15.2.2-1 through 15.2.7-1.
5.56 mm	150,517	8.50E-05	12.79	AP-42; Highest Value from Tables 15.1.4-1 through15.1.9-1.
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	63,830	1.50E-05	0.96	AP-42; Tables 15.1.21-1 .
		Total (Lbs/Year)	24.02	
		Total (Tons/Year)	0.01	

Table 4.10 Wood Chipper Emissions

Building Number	Equip. Location	Operator ID	Equation	Emission Rate	Annual Tons	PM10 Emission (Lbs)
NA	Various Locations	3547	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 4.11 Site 13C SVE Readings

Date	Concentrations (PPM TCE)			Decrease	Control Efficiency
	Inlet	Mid point	Outlet		
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 4.12 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

Site 32C Estimated Emissions

During start-up, the inlet concentration was measured using a PID at 62 ppm TCE while the outlet concentration was measured at of less than 1 ppm. Using these values, the activated carbon beds removed 98.387 percent of the TCE. From measured concentrations and flow rates, it is estimated that 2.5 pounds/day of TCE were removed. If the carbon be operates for 360 days/year, then 900 pounds of TCE would be removed. Using the control efficiciency of 98.387, results in 14.51 lbs of TCE emissions.

Days of Operation	360
Lbs of TCE removed/day	2.5
Inlet Concentration (ppm)	62
Outlet Concentration (ppm)	1
Control Efficiency	98.39%
Amount of TCE Captured (Lbs)	900
Emissions fo TCE (Lbs)	14.52

Source Table 4; E-mail from OTIE, dated 14 Jun 12. VAFB Stte 32C SVE System Update