REVISION TO ALLEGHENY COUNTY'S PORTION

of the

PENNSYLVANIA STATE IMPLEMENTATION PLAN

for the

ATTAINMENT AND MAINTENANCE

of the

NATIONAL AMBIENT AIR QUALITY STANDARDS

(Revision Tracking No. 84D)

Amendment to

Reasonably Available Control Technology (RACT) Plans For the 2008 8-Hour Ozone National Ambient Air Quality Standard

RACT for Major Stationary Non-CTG VOC Sources and Major Stationary NOx Sources

{Document Date: December 19, 2022}

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A.

Reasonably Available Control Technology (RACT) State Implementation Plan (SIP) Revision for the 8-Hour Ozone National Ambient Air Quality Standard (NAAQS)

SIP84D

RACT for Major Stationary Non-CTG VOC Sources and Major Stationary NOx Sources

1. Introduction

This is a proposed revision to the State Implementation Plan (SIP) identifying Reasonably Available Control Technology (RACT) under the 8-Hour Ozone National Ambient Air Quality Standards (NAAQS).

Statutory Authority:

25 Pennsylvania Code Subpart C Article III, Chapter 133: Local Air Pollution Agencies

Background:

The federal Clean Air Act (CAA) of 1990 gives the states primary responsibility for achieving the NAAQS. The NAAQS are established by the U.S. Environmental Protection Agency (EPA) as the maximum concentrations in the atmosphere for specific air contaminants, set to protect public health and welfare. The principal mechanism at the state and local level for complying with the CAA is the State Implementation Plan (SIP). A SIP outlines the programs, actions, and commitments that a state will carry out to fulfill its responsibilities under the CAA. Once approved by the EPA, a SIP is a legally binding document under both state and federal law.

Ground level ozone, one of the principal components of "smog," is a serious air pollutant that is known to affect human health and the environment. High levels of ozone can damage the respiratory system causing breathing problems, throat irritation, coughing, chest pains, and increase susceptibility to respiratory infection. High levels of ozone also cause serious damage to forests and agricultural crops, which results in economic loss to logging and farming operations. In May 2012, EPA designated 46 areas of the country as "non-attainment" under the 2008 8-hour ozone NAAQS. Among those non-attainment areas is the Pittsburgh-Beaver Valley Ozone Non-Attainment Area (NAA) located in Pennsylvania.

Ozone is generally not directly emitted to the atmosphere; rather it is formed in the atmosphere by photochemical reactions between volatile organic compounds (VOC), oxides of nitrogen (NOx), and carbon monoxide (CO) in the presence of sunlight. In order to reduce ozone concentrations in the ambient air, the CAA requires all non-attainment areas to apply controls on VOC/NOx emission sources to achieve emission reductions. CO's role in forming ozone is relatively insignificant; therefore, the CAA does not specify requirements on CO emission reductions regarding ozone attainment.

Among effective control measures, the Reasonably Available Control Technology (RACT) controls are a major group for reducing VOC and NOX emissions from stationary sources.

Requirements:

The US Environmental Protection Agency (EPA) has defined RACT as the lowest emission limitation that a particular source is capable of meeting by the application of control technology that is reasonably available considering technological and economic feasibility (44 FR 53761 at 53762, September 17, 1979). Section 182 of the CAA sets forth separate RACT requirements for ozone non-attainment areas.

- The first requirement, contained in section 182(a)(2)(A) of the CAA, and referred to as RACT fix-up, requires the correction of RACT rules for which EPA identified deficiencies before the Act was amended in 1990. Allegheny County has no deficiencies to correct under this Section of the CAA.
- The second requirement, set forth in section 182(b)(2) of the CAA for VOC sources, applies to moderate or worse ozone NAAs. This requires NAAs to implement RACT controls on all major VOC sources and on all VOC sources and source categories covered by a Control Technique Guideline (CTG) issued by EPA.
- The third requirement is in section 182(f), and subjects major stationary sources of NOx to the same RACT requirements that are applicable to major sources of VOC. In addition, Section 184(b)(l)(B) of the CAA applies the RACT requirements in section 182(b)(2) for moderate nonattainment areas (and 182(f) by extension), to marginal nonattainment areas and attainment areas located within ozone transport regions (OTRs) established pursuant to section 184 of the CAA.

Under section 183 of the CAA, EPA was required to issue several guidance documents for RACT controls that would help states meet the requirements of section 182(b)(2). This requirement upon EPA includes developing (1) CTGs for controls of VOC emissions from stationary sources, and (2) Alternate Control Techniques (ACTs) for controls of VOC and NOX emissions from stationary sources.

The EPA has issued CTG documents both prior to, and after 1990, establishing a "presumptive norm" for RACT for various categories of VOC sources. The EPA has also issued over a dozen ACTs for various categories of VOCs and NOx sources. Section 182(b)(2) of the CAA specifically requires states with ozone non-attainment areas classified as moderate or worse to develop RACT controls for all pre-enactment (i.e., pre-1990) CTG source categories, for all sources subject to post-enactment (i.e., post-1990) CTGs, and for all non-CTG major sources in the non-attainment areas. CAA Section 182(f)(1) applies the same controls required in Section 182(b)(2) to sources of NOx.

This SIP Revision submittal addresses RACT for major stationary non-CTG VOC sources and major stationary NOx sources. Sources covered by CTG's are not the subject of this RACT SIP revision.

The CAA requires that states achieve the NAAQS by specified dates, based on the severity of an area's air quality problem. The entire Commonwealth of Pennsylvania is considered a 'moderate' ozone non-attainment area for the 2008 8-hour ozone NAAQS because it is in an Ozone Transport Region (OTR) specified under Section 184 of the CAA, and is required by the CAA to attain the 2008 8-hour ozone standard by July 20, 2020.

According to the EPA's Final Rule to Implement the 2008 8-Hour Ozone NAAQS (80 FR 12264, March 6, 2015), areas classified as moderate non-attainment or higher, or located in an OTR, must submit a demonstration that their current rules fulfill the 2008 8-hour ozone RACT requirements for all CTG categories as well as <u>all major stationary</u> <u>non-CTG VOC sources and all major stationary NOx sources</u> as a revision to their SIPs (as noted, a demonstration regarding CTG sources is not part of this SIP revision). Such demonstrations can be made with either a new RACT determination or a certification that previously required RACT controls represent RACT for the 8-hour ozone standard. If a certification is made, it shall be accompanied by appropriate supporting information such as consideration of information received during the public comment period and consideration of new data.

2. ACHD previously submitted 2008 Ozone NAAQS SIP submittals – CTG Certification and majority of non-CTG VOC and NOx major sources

The Allegheny County Health Department has previously submitted the following SIP Revisions to meet the CAA and implementation rule requirements:

• ACHD submitted its 2018 VOC CTG RACT SIP submission (SIP Revision 84A) which included:

(1) A certification that for certain categories of sources, previously adopted VOC RACT controls in the Allegheny County portion of Pennsylvania's SIP that were approved by EPA under the 1979 1-hour and 1997 8-hour ozone NAAQS continue to be based on the currently available technically and economically feasible controls, and continue to represent RACT for implementation of the 2008 8- hour ozone NAAQS; and

(2) a negative declaration that certain CTG based regulated sources of VOC do not exist in Allegheny County, PA.

This SIP submittal was made on ACHD's behalf by PA DEP on July 24, 2018, and was approved by EPA on May 2, 2019 (84 FR 18736)

 PA DEP submitted its "RACT II Rules," 25 Pa. Code §129.96 to §129.100, "Additional RACT Requirements for major sources of NOx and VOCs," which apply statewide, as noted in §129.96(b), as a SIP revision on May 16, 2016. EPA granted conditional approval of this SIP revision on May 9, 2019 (84FR20274). ACHD applies and enforces the requirements of the PA DEP "RACT II Rules," 25 Pa. Code §129.96 to §129.100. In support of the conditional approval, ACHD conducted a review of the major VOC and NOx sources operating in Allegheny County, and prepared case-by-case RACT determinations and related required permit modifications for the sources listed in Table 1, below, which are not subject to the presumptive RACT requirements of 25 Pa Code §129.97. The ACHD submitted its case by case RACT determinations/permits to PA DEP on April 24, 2020 as SIP Revision 84C with a certification that, with the SIP revision request submittal, it had submitted all of the case by case RACT determinations and averaging plans to the PA DEP required by the RACT II Conditional Approval, and that the additional enforceable measures in the RACT permits resolve the requirements of the EPA's RACT II Conditional Approval. PA DEP submitted this SIP revision to U.S. EPA, along with its own similar certification on May 8, 2020.

Table 1

Facility Name
Universal Stainless and Alloy Products, Inc.
PPG Industries, Inc. – Springdale Plant
Bellefield Boiler Plant
Cheswick Generating Station
Brunot Island Generating Station
Neville Chemical Company
ATI Flat Rolled Products Holdings, LLC
Energy Center Pittsburgh, LLC
North Shore Plant
United States Steel Corporation,
Edgar Thomson Works
United States Steel Corporation, Irvin Plant
Pittsburgh Allegheny County Thermal, LTD
Eastman Chemical Resins, Inc.
United States Steel Clairton Plant

<u>3. Final ACHD 2008 Ozone NAAQS SIP submittal – RACT for major stationary</u> <u>non-CTG VOC sources and major stationary NOx sources: Completion of RACT</u> <u>demonstration addressing remaining sources not already addressed in ACHD SIP</u> <u>Submittals 84A and 84C.</u>

This SIP Revision (84D) addresses RACT for all other major sources of NOX and VOC located in Allegheny County, i.e., those not already addressed by the CTG Certification SIP(84A), or the Case-by-Case Certification SIP(84C), and in so doing will complete the fulfilment of the requirements of Section 182(b)(2)(C) and 182(f)(1) of the CAA.

Table 2 lists all the major NOx and VOC sources in Allegheny County and indicates the SIP Revision that demonstrates RACT for each.

TABLE 2: Major VOC and NOx sources operating in Allegheny County and their RACT SIP coverageThe table below shows the major VOC and NOx sources operating in Allegheny County and indicates the SIP Revision submittal which demonstrates RACT for 8-hour ozone.

Facility name	SIP Addressed in:	Basic facility information	Permit	Issue Date
			number	
Allegheny Energy	SIP Revision 84D	Gas turbine power plant	0580-	7/21/2017
Springdale Plant			OP17	
University of	SIP Revision 84D	Boilers	0647-	12/19/2013
Pittsburgh			OP19	
These following normity	a are not nort of this CID submitt	al but are provided to present the evenal status of the		4
These following permits	s are not part of this SIP submitt	al, but are provided to present the overall status of the	KACI elloi	l.
Universal Stainless	ACHD SIP84C/ PA DEP	Steel mill	0027-	2/20/2020
	case-by-case SIP submittal	EPA approved this SIP submittal –see 86 FR 58220	OP17a	
		10/21/2021.		
PPG Springdale	ACHD SIP84C/ PA DEP	Manufactures coatings for the industrial markets and	0057-	2/28/2020
	case-by-case SIP submittal	includes administrative offices, manufacturing,	OP18a	
		warehousing, research & support laboratory operations		
		EPA approved this SIP submittal – see 87 FR 57609		
		9/21/2022.		
Bellefield Boiler	ACHD SIP84C/ PA DEP	The boiler plant provides steam to a consortium of	0047-	11/30/2020
	case-by-case SIP submittal	hospitals, universities & museums	I003a	
		NOTE: ACHD revised this RACT Plan permit and		
		DEP submitted it to EPA 2/11/2021. EPA approved		
		it – see 86 FR 58220 10/21/2021.		
ATI (Allegheny	ACHD SIP84C/ PA DEP	Producer of specialty metals, irons, & steels	0059-	12/3/2020
Ludlum)	case-by-case SIP submittal	(ingots, slabs, & coils)	I009a,	
·		NOTE: ACHD revised RACT Plan permit 0059-	and	4/21/2021
		1009 to 1009a and DEP submitted it to EPA	0059-	

Facility nameSIP Addressed in:Basic facility information		Basic facility information	Permit	Issue Date
			number	
		2/11/2021. ACHD then added RACT Plan permit	I008d	
		0059-I008d to the submittal and DEP submitted it		
		to EPA. EPA approved both – see 87 FR 50945		
		8/19/2022.		
Neville Chemical	ACHD SIP84C/ PA DEP	Manufacturing of synthetic hydrocarbon resins,	0060-	11/10/2020
	case-by-case SIP submittal	plasticizers, & Plasticizing oils	OP15d	
		Please see note above under Bellefield Boiler.		
Energy Center North	ACHD SIP84C/ PA DEP	Steam & chilled water supply for a district energy	0022-	11/30/2020
Shore	case-by-case SIP submittal	system. Boilers are fired primarily with natural gas	I003a	
		Please see note above under Bellefield Boiler.		
US Steel - Irvin	ACHD SIP84C/ PA DEP	Manufacturing of steel slabs, hot rolled, cold	0050-	12/7/2020
	case-by-case SIP submittal	reduced, & finished steel coils	OP16c	
		Please see note above under Bellefield Boiler.		
US Steel - Edgar	ACHD SIP84C/ PA DEP	Byproducts recovery facility for a steel mill. Major	0051-	12/7/2020
Thomson	case-by-case SIP submittal	by operations	I008a	
		Please see note above under Bellefield Boiler.		
PACT	ACHD SIP84C/ PA DEP	District steam heating supply for multiple	0044-	11/30/2020
	case-by-case SIP submittal	commercial, institutional & government buildings	I001a	
		Please see note above under Bellefield Boiler.		
Eastman Chemical	ACHD SIP84C/ PA DEP	Polymerizes petroleum distillates & aromatic	0058-	9/30/2020
	case-by-case SIP submittal	monomers into resins using Friedel Crafts type	I026a	
		catalysts in hydrocarbon diluents.		
		Please see note above under Bellefield Boiler.		
US Steel - Clairton	ACHD SIP84C/ PA DEP	Manufactures metallurgical coke for use in the	0052-	12/11/2020
	case-by-case SIP submittal	steelmaking process at various steel mills	I020b	
	-	Please see note above under Bellefield Boiler.		
Buckeye Pipeline	ACHD SIP84A –	Refined petroleum pipeline breakout station and	0040-	5/1/2019
• •	CTG certification SIP	bulk terminal	OP19a	

Facility nameSIP Addressed in:I		Basic facility information	Permit	Issue Date
			number	
Pittsburgh Terminals	ACHD SIP84A –	Bulk gasoline terminals	0041	6/22/2018
(Coraopolis)	CTG certification SIP			
Sunoco Pittsburgh	ACHD SIP84A –	Bulk gasoline terminals	0007	6/30/2011
	CTG certification SIP			
Neville Terminals	ACHD SIP84A –	Bulk gasoline terminals	0012a	6/27/2019
(now LHT Terminals)	CTG certification SIP			
Gulf Oil	ACHD SIP84A –	Bulk gasoline terminals	0062	8/30/2017
(now LHT Terminals)	CTG certification SIP		0012a	6/27/2019
Combined with #0012				

Only two facilities, Allegheny Energy Springdale, and the University of Pittsburgh, do not have RACT established by either of the two already submitted RACT SIP submittals – CTG based regulatory or Case-by-Case RACT Determination.

The ACHD analysis of these two facilities has established that:

- Neither facility is subject to case-by-case RACT review. All sources at the facilities either meet Presumptive RACT II requirements in 25 Pa. Code §129.97 or are exempt as per 25 Pa. Code §129.96(c).
- There are no existing requirements under RACT I at either facility.
- Neither facility is subject to the four applicable non-CTG-based regulations listed in 25 Pa. Code §129.96(a). (Those four are §129.65, Ethylene production plants; §129.72, Manufacture of surface active agents; §129.75, Mobile equipment repair and refinishing; and §129.301-§129.310, Control of NOx emissions from glass melting furnace.)

The analysis for each of the two facilities is found in the Appendix to this submittal.

Therefore, this RACT SIP revision demonstrates that:

1) RACT controls have already been implemented on the two remaining major stationary sources of VOC and NOx emissions not already addressed in a SIP Revision submittal; and

2) All RACT controls are certified to represent RACT control levels under the 1997 and 2008 8-hour ozone NAAQS.

Conclusion:

Allegheny County Health Department (ACHD) demonstrates through this SIP revision that the Allegheny County portion of the Pennsylvania SIP meets the CAA RACT requirements for the 50 ton per year (tpy) non-CTG major VOC sources and for 100 tpy NOx sources. Required RACT controls already exist on the two remaining major stationary sources of VOC and NOx emissions not already addressed in a SIP Revision submittal. ACHD certifies that all major, non-CTG sources under ACHD jurisdiction are controlled to RACT or better standards.

B.

Documentation of Public Hearing and Certifications

Public hearing notice Proof of publication of notice of hearing Transmittals of hearing notice to EPA & PA DEP Certification of hearing Comment and response document

NOTICE OF VIRTUAL PUBLIC HEARING for a Proposed State Implementation Plan (SIP) Revision for Reasonably Available Control Technology for Major Stationary Non-CTG VOC Sources and Major Stationary NOx Sources for the 2008 8-Hr Ozone National Ambient Air Quality Standard (NAAQS)

The Allegheny County Board of Health will hold a virtual public hearing on Thursday, October 8, 2020, at 2:00 PM to take testimony on a proposed revision to Allegheny County's portion of the Commonwealth of Pennsylvania's SIP for Ozone. This hearing is being held virtually in compliance with safety precautions due to the COVID-19 pandemic.

This SIP revision addresses the two remaining major stationary sources of VOC and NOx emissions not already addressed in an Allegheny County SIP revision submittal, and demonstrates that required RACT controls already exists on these two remaining major stationary sources of VOC and NOx emissions.

The proposed SIP revision may be examined on the Allegheny County Health Department web site: <u>https://www.alleghenycounty.us/Health-Department/Programs/Air-Quality/Regulations-and-SIPs.aspx</u>. Persons wishing to join the virtual hearing or to present testimony must contact Paulette Poullet, at <u>paulette.poullet@alleghenycounty.us</u> or 412-578-8103, to receive a link and phone number for connecting to the hearing, no less than 24 hours in advance of the virtual hearing. Testimony will be limited to 5 minutes, and written copies of the testimony are requested by email to Ms. Poullet. The Board will also accept written comments, beginning on Tuesday, September 8, 2020 and concluding at 4:00 PM on October 8, 2020, by mail to ACHD Air Program, 301 39th Street, Bldg. 7, Pittsburgh, PA 15201-1811, or by email to aqcomments@alleghenycounty.us. > Legal Notices (/pa/legal-notices/search)

NOTICE OF VIRTUAL PUBLIC HEARI ...

NOTICE OF VIRTUAL PUBLIC HEARING for a Proposed State Implementation Plan (SIP) Revision for Reasonably Available Control Technology for Major Stationary Non-CTG VOC Sources and Major Stationary NOx Sources for the 2008 8-Hr Ozone National Ambient Air Quality Standard (NAAQS) The Allegheny County Board of Health will hold a virtual public hearing on Thursday, October 8, 2020, at 2:00 PM to take testimony on a proposed revision to Allegheny County's portion of the Commonwealth of Pennsylvania's SIP for Ozone. This hearing is being held virtually in compliance with safety precautions due to the COVID-19 pandemic.

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The proposed SIP revision may be examined on the Allegheny County Health De- partment web site: https://www.allegheny county.us/ HealthDepartment/Programs/Air-Quality/Regulations-and-SIPs. aspx. Persons wishing to join the virtual hearing or to present testimony must contact Paul- ette Poullet, at paulette. poullet@alleghenycounty.us or 412-578-8103, to receive a link and phone number for connecting to the hearing, no less than 24 hours in advance of the virtual hearing. Testi- mony will be limited to 5 minutes, and written copies of the testimony are requested by email to Ms. Poullet. The Board will also accept written comments, beginning on Tuesday, September 8, 2020 and concluding at 4:00 PM on October 8, 2020, by mail to ACHD Air Program, 301 39th Street, Bldg. 7, Pittsburgh, PA 15201-1811, or by email to

aqcomments@allegheny county.us.

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https://classmart.post-gazette.com/pa/legal-notices/notice-of-virtual-public-heari/AC1E0395161fc0C360ceaM1BE4F5



September 4, 2020

Mr. Mark Hammond, Director Bureau of Air Quality Department of Environmental Protection Rachel Carson Building 400 Market Street P O Box 8468 Harrisburg, PA 17105-8468

Dear Mr. Hammond:

Enclosed is a Notice of Public Hearing for a proposed revision to Allegheny County's portion of the Pennsylvania State Implementation Plan for the 2008 8-Hr Ozone NAAQS. This SIP revision addresses the two remaining major stationary sources of VOC and NOx emissions not already addressed in an Allegheny County SIP revision submittal and demonstrates that required RACT controls already exists on these two sources. This revision is being tracked internally under our Revision Tracking Number 84D.

The proposed SIP revision is available for download at: <u>https://www.alleghenycounty.us/Health-Department/Programs/Air-Quality/Regulations-and-SIPs.aspx</u>. The public comment period begins September 8, 2020 and concludes October 8, 2020 at 4:00 PM. The public hearing will be held October 8, 2020. Your comments are welcome.

Sincerely,

Sandra Ezel

Sandra Etzel, Manager Air Quality Program Planning Section

cc: Kirit Dalal Steve Hepler

Enclosures

 Public Hearing Notice

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ALLEGHENY COUNTY HEALTH DEPARTMENT • AIR QUALITY PROGRAM 301 39TH STREET BUILDING #7 • PITTSBURGH, PA 15201-1811 PHONE (412) 578-8103 • FAX (412) 578-8144 Proposed ACHD SIP Revision

AIR QUALITY PROGRAM

301 39TH STREET - BUILDING #7



September 4, 2020

Ms. Christina Fernandez, Director Air Protection Division Region III (3AP00) U.S. Environmental Protection Agency 1650 Arch Street Philadelphia, PA 19103-2029

Dear Ms. Fernandez:

Enclosed is a Notice of Public Hearing for a proposed revision to Allegheny County's portion of the Pennsylvania State Implementation Plan for the 2008 8-Hr Ozone NAAQS. This SIP revision addresses the two remaining major stationary sources of VOC and NOx emissions not already addressed in an Allegheny County SIP revision submittal and demonstrates that required RACT controls already exists on these two sources. This revision is being tracked internally under our Revision Tracking Number 84D.

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Sincerely,

Sandra (Ezel

Sandra Etzel, Manager Air Quality Program Planning Section

cc: David Talley

Enclosures

Public Hearing Notice

ALLEGHENY COUNTY HEALTH DEPARTMENT • AIR QUALITY PROGRAM 301 39TH STREET BUILDING #7 • PITTSBURGH, PA 15201-1811 PHONE (412) 578-8103 • FAX (412) 578-8144

Revision 84D

Amendment to Allegheny County's Portion of the Pennsylvania State Implementation Plan for the 8-Hour Ozone National Ambient Air Quality Standard --RACT for Major Stationary Non-CTG VOC Sources and Major Stationary NOx Sources

Certification of Hearing

Thomas Lattner deposes and says that he is an Air Pollution Control Engineer in the Air Quality Program of the Allegheny County Health Department and hereby certifies that a Virtual Public Hearing was held on October 8, 2020 on the proposed amendment to Allegheny County's portion of the PA SIP demonstrating RACT for Major Stationary Non-CTG VOC Sources and Major Stationary NOx Sources for the 2008 8-Hr Ozone NAAQS; that the opportunity for written comments was given in accordance with the requirements of 40 CFR 51.102; that notice of such hearing was given by publication in a newspaper of general circulation on September 6, 2020; and to the best of his knowledge, belief and understanding, such proceedings were in full compliance with all applicable State and Federal laws, regulations, and other requirements.

Thomas Lattre-12-16-2022

Date

Thomas Lattner, Air Pollution Control Engineer Air Quality Program Allegheny County Health Department

SUMMARY OF COMMENTS AND RESPONSES

for

Proposed SIP Revision 84D

Amendment to Allegheny County's Portion of the Pennsylvania State Implementation Plan for the 2008 8-Hour Ozone National Ambient Air Quality Standard --

Reasonably Available Control Technology (RACT) Plans for Major Stationary Non-CTG VOC Sources and Major Stationary NOx Sources

> Public Comment Period: September 8 to October 8, 2020 Public Hearing: October 8, 2020

No public comments were received. However, in the interim between October 8, 2020 and December 2022 when this SIP was prepared for final submittal, there was a need for ACHD Permitting to revise nine of the Case-by-Case RACT Plan submittals, and there was a court case that involved the Cheswick Power Station. These changes resulted in the need to update Table 2 of this submittal. These are informational only.

1. **COMMENT** In the interim between October 8, 2020 and December 2022 when this SIP was prepared for final submittal, there was a need for ACHD Permitting to revise nine of the Case-by-Case RACT Plan submittals, and there was a court case that involved the Cheswick Power Station, and the Cheswick Plant shutdown, while Brunot Island's SIP submittal was withdrawn and its permit RACT requirements already met presumptive RACT. These changes resulted in the need to update Table 2 of this submittal. These are informational only changes.

COMMENTER: ACHD.

RESPONSE: ACHD has updated Table 2 with the changes shown below in bold, enlarged text and strikethroughs. The lines for Cheswick and Brunot Island have been removed because their case-by-case SIP submittals were not needed (Cheswick) and withdrawn (Brunot Island).

Facility name	SIP Addressed in:	Basic facility information	Permit number	Issue Date
These following permit	s are not part of this SIP Submi	ttal, but are provided to present the overall status of the	ne RACT eff	fort.
Universal Stainless	ACHD SIP84C/ PA DEP	Steel mill	0027-	2/20/2020
	case-by-case SIP submittal	EPA approved this SIP submittal –see 86	OP17a	
		FR 58220 10/21/2021.		
PPG Springdale	ACHD SIP84C/ PA DEP	Manufactures coatings for the industrial markets and	0057-	2/28/2020
	case-by-case SIP submittal	includes administrative offices, manufacturing,	OP18a	
		warehousing, research & support laboratory		
		operations		
		EPA approved this SIP submittal – see δ /		
		FR 57609 9/21/2022.	0047	4/14/2020
Bellefield Boiler	ACHD SIP84C/ PA DEP	I he boller plant provides steam to a consortium of bospitals, universities & museums	0047-	4/14/2020
	case-by-case SIF sublitual	NOTE: ACHD revised this BACT Plan	1003 a	11/30/2020
		normit and DED submitted it to EDA		
		permit and DEF submitted it to EFA 2/11/2021 EDA approved it see 86 ED		
		2/11/2021. EFA approved it – see 80 FK 58220 10/21/2021		
ATI (Allegheny	ACHD SIP84C/ PA DEP	Producer of specialty metals irons & steels	0059-	4/16/2020
Ludlum)	case-by-case SIP submittal	(ingots, slabs, & coils)	1009 a .	12/3/2020
,		NOTE: ACHD revised RACT Plan	and	
		permit 0059-I009 to I009a and DEP	0059-	4/21/2021
		submitted it to EPA 2/11/2021. ACHD	1008d	
		then added RACT Plan permit 0059-	20000	
		1008d to the submittal and DEP		
		submitted it to EPA. EPA approved		

Facility name	SIP Addressed in:	Basic facility information	Permit	Issue Date
		both soo 87 FD 50045 8/10/2022	number	
Chaquials Congrating		Dotti – See 87 FK 30943 8/19/2022.	0054	2/28/2020
Station	Case by case SID submittal	Electricity utility. NOTE: Cneswick snut	0034- 1005	2/20/2020
Station	case by case 511 sublittai	down on April 1, 2022. Its operating	(500	
		permit, #0054-OP17c, issued November	(See	
		21, 2017 and amended April 1, 2022, was	note)	
		formerly terminated. Installation		
		Permit 0054-I005 was revised and was		
		issued as #0054-I005a on 3/1/2022,		
		however, it was not submitted to EPA as		
		a SIP change because Cheswick was		
		shut down on 4/1/2022 and EPA		
		concurred that there was no need to		
		submit the revised RACT Plan.		
Brunot Island Gen.	DELETED FROM	Electricity generation	0056-	2/28/2020
Station	THE SIP	NOTE: The RACT Plan SIP for Brunot	1002	
	ACHD SIP84C/ PA DEP	Island was withdrawn as part of the PA		
	case-by-case SIP submittal	DEP response to Sierra Club v. EPA,		
		972 F.3d 290 (3d Cir. 2020) ("Sierra		
		Club"). Ref: 9/22/22 Ziadeh DEP letter		
		to EPA Ortiz, and 10/6/2022 Fernandez		
		EPA acknowledgement letter to DEP		
		Ziadeh, And Brunot Island had permit		
		provisions allowing the plant to meet		
		presumptive RACT regulations without		
		averaging.		

Facility name	SIP Addressed in:	Basic facility information	Permit number	Issue Date
Neville Chemical	ACHD SIP84C/ PA DEP	Manufacturing of synthetic hydrocarbon resins,	0060-	4/23/2020
	case-by-case SIP submittal	plasticizers, & Plasticizing oils	OP15 ed	11/10/2020
		Please see note above under Bellefield		
		Boiler.		
Energy Center North	ACHD SIP84C/ PA DEP	Steam & chilled water supply for a district energy	0022-	3/18/2020
Shore	case-by-case SIP submittal	system. Boilers are fired primarily with natural	I003 a	11/30/2020
		gas.		
		Please see note above under Bellefield		
		Boiler.		
US Steel - Irvin	ACHD SIP84C/ PA DEP	Manufacturing of steel slabs, hot rolled, cold	0050-	4/16/2020
	case-by-case SIP submittal	reduced, & finished steel coils.	OP16 bc	12/7/2020
		Please see note above under Bellefield		
		Boiler.		
US Steel - Edgar	ACHD SIP84C/ PA DEP	Byproducts recovery facility for a steel mill.	0051-	4/21/2020
Thomson	case-by-case SIP submittal	Major by operations	1008 a	12/7/2020
		Please see note above under Bellefield		
		Boiler.		
PACT	ACHD SIP84C/ PA DEP	District steam heating supply for multiple	0044-	3/25/2020
	case-by-case SIP submittal	commercial, institutional & government buildings	I001 a	11/30/2020
		Please see note above under Bellefield		
		Boiler.		
Eastman Chemical	ACHD SIP84C/ PA DEP	Polymerizes petroleum distillates & aromatic	0058-	4/21/2020
	case-by-case SIP submittal	monomers into resins using Friedel Crafts type catalysts in hydrocarbon diluents.	I026 a	9/30/2020
		Please see note above under Bellefield		
		Boiler.		

Facility name	SIP Addressed in:	Basic facility information	Permit	Issue Date
			number	
US Steel - Clairton	ACHD SIP84C/ PA DEP	Manufactures metallurgical coke for use in the	0052-	4/24/2020
	case-by-case SIP submittal	steelmaking process at various steel mills	1020 b	12/11/2020
		Please see note above under Bellefield		
		Boiler.		

A.1 RACT Determination for Allegheny Energy Springdale Plant

ALLEGHENY COUNTY HEALTH DEPARTMENT AIR QUALITY PROGRAM

May 13, 2020

SUBJECT: Reasonably Available Control Technology (RACT II) Determination Allegheny Energy Supply Company, LLC/First Energy Corp. 3412 Forbes Avenue Pittsburgh, PA 15260 Allegheny County

Title V Operating Permit No. 0580-OP17

- TO: JoAnn Truchan, P.E. Section Chief, Engineering
- FROM: Bernadette Lipari Air Quality Engineer

I. Executive Summary

The Allegheny Energy Springdale Plant is defined as a major source of NO_x and VOC emissions and was subjected to a Reasonably Achievable Control Technology II (RACT II) review by the Allegheny County Health Department (ACHD) required for the 1997 and 2008 Ozone National Ambient Air Quality Standard (NAAQS). The findings of the review established that the Allegheny Energy Springdale Plant is not subject to case-by-case RACT review.

Table 1A Technically and Financially Feasible Control Options Summary for NOx

Unit ID	Emissions Unit	Financially Feasible Control Option	Current NO _x PTE	RACT Reduction	Revised NO _X PTE	Annualized Control Cost (\$/yr)	Cost Effectiveness (\$/ton NO _X removed)
There are no additional technically and financially feasible control options available for NO _x reduction.							

Table 1B	Technically and Einancially Feasible Control Ontions Summary for VOC	

Unit ID	Emissions Unit	Financially Feasible Control Option	Current VOC PTE	RACT Reduction	Revised VOC PTE	Annualized Control Cost (\$/yr)	Cost Effectiveness (\$/ton NO _x removed)
There are no additional technically and financially feasible control options available for VOC reduction.							

These findings are based on the following documents:

 RACT analysis performed by ERG (RACT TSD – Allegheny Energy – draft – 2016-7-15.docx)

A.1 RACT Determination for Allegheny Energy Springdale Plant

II. <u>Regulatory Basis</u>

ACHD requested all major sources of NO_x (potential emissions of 100 tons per year or greater) and all major sources of VOC (potential emissions of 50 tons per year or greater) to reevaluate NO_x and/or VOC RACT for incorporation into Allegheny County's portion of the PA SIP. This document is the result of ACHD's determination of RACT for Allegheny Energy based on the materials submitted by the subject source and other relevant information.

III. Facility Description, Existing RACT I and Sources of NO_X

The Allegheny Energy Plant is a commercial electrical power generation facility. The source is composed of two 48 MWe natural gas & no.2 fuel oil fired simple cycle combustion turbines, two nominal 209 MWe natural gas-fired combined cycle combustion turbines each with a heat recovery steam generator and one 186 MWe steam turbine generator. The combined cycle combustion turbines fire natural gas exclusively and are equipped with dry low- NO_x burners and selective catalytic reduction (SCR) for control of NO_x emissions. The simple cycle combustion turbines fire natural gas and no.2 fuel oil exclusively and are equipped with water injection for NO_x control and use low sulfur (0.05% max.) fuel oil for SO₂ control. The steam turbine generator uses steam from the heat recovery steam generators and has no fuel supply and no emissions. Additional emission units consist of one 148,690 gallon per minute cooling tower and a 12,000-gallon aqueous ammonia storage tank. There are no existing requirements under RACT I at the facility.

Source	Description	Rating	NO _x PTE	VOC PTE	Basis for	Presumptive RACT
ID			(TPY)	(TPY)	Presumptive	Requirement
P001	2 Simple Cycle Turbines (AE1 & AE2)	48 MW (424 MMBtu/hr each (nominal)	98		< 42 ppmvd NOx	129.97 (g)(2)(iv)(A): The existing permit limit is less than presumptive RACT; Continued operation as permitted and conduct an annual tune-up on each turbine
P002	2 Combined Cycle Turbines (AE3 & AE4); 1 Steam Turbine	188 MW (2,094 MMBtu/hr) each (no duct burner)	175*		< 4 ppmvd NOx	129.97 (g)(2)(ii)(A): The existing permit limit is less than presumptive RACT; Continued operation as permitted and conduct an annual tune-up on each turbine
P001	2 Simple Cycle Turbines (AE1 & AE2)	48 MW (424 MMBtu/hr each (nominal)		10	< 9 ppmvd VOC	129.97 (g)(2)(iv)(C): The existing permit limit is less than presumptive RACT; Continued operation as permitted and conduct an annual tune-up on each turbine
P002	2 Combined Cycle Turbines (AE3 & AE4); 1 Steam Turbine (AE5)	188 MW (2,094 MMBtu/hr) each (no duct burner)		48	< 2 ppmvd VOC	129.97 (g)(2)(ii)(D): The existing permit limit is less than presumptive RACT; Continued operation as permitted and conduct an annual tune-up on each turbine

Table 2Facility Sources Subject to the Presumptive RACT II per PA Code 129.97

* Permit #0580-OP17 limits NO_x emissions to 210 tpy. However other restrictions effectively limit NO_x emissions to 175 tpy. See conditions IV.23 & IV.24 of the permit.

A.1 RACT Determination for Allegheny Energy Springdale Plant

Table 3	Facility Sources Exempt	from RACT II per PA Code	129.96(c) {< 1 TPY VOC}
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Source ID	Description	Rating	VOC PTE (TPY)
T-2	No. 2 Fuel Oil Storage Tank	500,000 gal	minimal

IV. <u>RACT Determination</u>

All sources at the facility either meet Presumptive RACT II requirements in PA Code 129.97 or are exempt as per PA Code 129.96(c).

Note that the PA Presumptive RACT would impose limits on simple cycle turbines the size of the Allegheny Energy simple cycle turbines of 42 ppmvd NO_x @ 15% oxygen when natural gas is fired and 96 ppmvd NO_x @ 15% oxygen when fuel oil is fired. These NO_x concentrations are greater than the current limits and performance of the Allegheny Energy simple cycle turbines and are equivalent to combined emission rates of 163 tpy NO_x when natural gas is combusted and 291 tons/yr of NO_x when fuel oil is combusted. The Proposed PA Presumptive RACT is 9 ppmvd of VOC (as propane) adjusted to 15% O₂ during either oil or natural gas firing; this is equivalent to approximately 42 tons/yr of VOC for both turbines combined when natural gas is fired and 42 tons/yr for both turbines combined when fuel oil is fired.¹ These PA Proposed Presumptive RACT VOC concentrations are greater than the current limits and performance of the simple cycle turbines.

Pursuant to operating permit 0580-OP17, issued July 21, 2017, NO_x emissions are limited as follows:

- Condition V.A.1.c, when natural gas is burned each turbine is limited to 41 lbs/hr;
- Condition V.A.1.c, when No. 2 fuel oil is burned each turbine is limited to 71 lbs/hr; and
- Condition V.A.1.c, total emissions from both turbines are limited to 98 tons/yr.

The above conditions effectively limit short-term emissions for each turbine to 0.1 lb/MMBtu when natural gas is burned [i.e., 41 lbs/hr divided by the turbine capacity 424 MMBtu/hr].

Pursuant to the operating permit, issued July 21, 2017, VOC emissions are limited as follows:

- Condition V.A.1.c, when natural gas is burned each turbine is limited to 5.0 lbs/hr;
- Condition V.A.1.c, when No. 2 fuel oil is burned each turbine is limited to 1.0 lbs/hr; and
- Condition V.A.1.c, total emissions from both turbines is limited to 10 tons/yr.

The above conditions effectively limit emissions to 0.0118 lb/MMBtu when natural gas is burned. Condition V.A.1.a restrict the total combined hours of operation to 4,450 hours per year.

For the natural gas fired combined cycle turbines, the PA presumptive RACT would impose limits of 4 ppmvd of NO_x and 2 ppmvd of VOC each adjusted to 15% O₂. These concentrations are equivalent to 285 tons/yr of NO_x and 170 tons/yr of VOC (with each limit being for both turbines combined). ² The current NO_x and VOC permit limits are less than the PA Proposed Presumptive RACT. The current performance of the combined cycle turbines, with respect to NO_x is better than the PA proposed presumptive RACT. Performance tests conducted in 2012 show that actual

¹ This calculation assumes the molecular weight of VOC is 55 lbs/mole.

² Id.

A.1 RACT Determination for Allegheny Energy Springdale Plant

VOC emissions are just over 1ppmvd for both turbines, which is less than both the PA proposed presumptive RACT and current permit limits.³

Pursuant to Title V Operating Permit #0580-OP17, issued July 21, 2017, NO_x emissions are limited as follows:

- Condition V.B.1.d, each turbine is limited to 2.5 ppmvd at 15% oxygen during any threehour period at or above 70% of full load;
- Condition V.B.1.i, each turbine is limited to 20 lbs/hr during any three-hour period; and
- Condition V.B.1.i, total emissions from both turbines are limited to 210 tons/yr.

The above conditions effectively limit emissions to 0.00955 lb/MMBtu [i.e., 20 lbs/hr divided by the turbine capacity 2,094 MMBtu/hr] or 87.6 tpy for each turbine. Condition V.B.1.i restricts the total combined NO_x emissions to 210 tpy, although the other limits effectively limit total emissions to 175.2 tpy.

Pursuant to the operating permit, issued July 21, 2017, VOC emissions are limited as follows:

- Condition V.B.1.i, when natural gas is burned each turbine is limited to 3.8 lbs/hr; and
- Condition V.B.1.i, total emissions from both turbines is limited to 48 tons/yr.

The above conditions effectively limit short term emissions to 0.0018 lb/MMBtu when natural gas is burned.

ACHD has determined that it is not necessary to conduct a RACT evaluation on the steam turbine (AE-5). It does not produce NO_X or VOC. Thermal energy from the natural gas turbines (AE-3 and AE-4) is channeled through the steam turbine, spins the rotor of a generator, and electric energy is produced.

ACHD has also determined that it is not necessary to conduct RACT evaluations for the 265 HP diesel fired emergency fire pump and the 830 HP diesel fired emergency generator. This decision was made based on the relatively low potential emissions of the pollutants identified from these units. ACHD considers it unlikely that additional controls would be technically and economically feasible for these units for the identified pollutants.

V. <u>New and Revised RACT II IP/OP Permit Conditions</u>

All sources at the facility either meet Presumptive RACT II requirements in PA Code 129.97 or are exempt as per PA Code 129.96(c). The Title V permit will be revised to add the appropriate PA RACT II regulation citations for each of these sources.

The following conditions will be cited for Presumptive RACT (25 Pa. Code, §129.97 (g)(2)(iv)(A) & (C)):

TVOP #0580 V.A.1.a, c

The following conditions will be cited for Presumptive RACT (25 Pa. Code, §129.97 (g)(2)(ii)(A) & (D)): TVOP #0580 V.B.1.d, I

³ Grace Consulting Inc., VOC Emission Test Performance of Units 3 and 4. Performed on August 14, 2012.

A.2 RACT Determination for University of Pittsburgh

ALLEGHENY COUNTY HEALTH DEPARTMENT AIR QUALITY PROGRAM

May 18, 2020

SUBJECT: Reasonably Available Control Technology (RACT II) Determination University of Pittsburgh 3412 Forbes Avenue Pittsburgh, PA 15260 Allegheny County

Title V Operating Permit No. 0647-OP19

- TO: JoAnn Truchan, P.E. Section Chief, Engineering
- FROM: Bernadette Lipari Air Quality Engineer

I. Executive Summary

The University of Pittsburgh is defined as a major source of NO_x emissions and was subjected to a Reasonably Achievable Control Technology II (RACT II) review by the Allegheny County Health Department (ACHD) required for the 1997 and 2008 Ozone National Ambient Air Quality Standard (NAAQS). The findings of the review established that the University of Pittsburgh is not subject to case-by-case RACT review.

Table 1	Technically and Financially Feasible Control Options Summary for NO _x

Unit ID	Emissions Unit	Financially Feasible Control Option	Current NO _X PTE	RACT Reduction	Revised NO _X PTE	Annualized Control Cost (\$/yr)	Cost Effectiveness (\$/ton NO _x removed)
There are no additional technically and financially feasible control options available for NO $_{\rm X}$ reduction.							

These findings are based on the following documents:

- RACT analysis performed by ERG (RACT-Pitt_06-17-2015 with track changes.docx)
- RACT analysis performed by University of Pittsburgh (0647c2014-01-29ract.pdf)
- BACT analysis performed by University of Pittsburgh (see Application for Permit No. 0678-1001 dated 11/20/2003 and No. 0678-1002 dated 11/2/2007

II. <u>Regulatory Basis</u>

ACHD requested all major sources of NO_x (potential emissions of 100 tons per year or greater) and all major sources of VOC (potential emissions of 50 tons per year or greater) to reevaluate NO_x and/or VOC RACT for incorporation into Allegheny County's portion of the PA SIP. This document is the result of ACHD's determination of RACT for University of Pittsburgh based on the materials submitted by the subject source and other relevant information.

III. Facility Description, Existing RACT I and Sources of NO_x

The University of Pittsburgh is a public university located in Pittsburgh. The source consists of one (1) campus-wide painting, one (1) Melwood spray booth, one printing operations, one (1) Melwood laminate spray area, seventy-five (75) natural gas-fired boilers, six (6) natural gas fired boilers using No. 2 fuel oil as backup fuel with two (2) diesel-fired emergency generator engines, thirteen (13) natural gas-fired space heaters, forty-three (43) natural gas-fired hot water heaters, seventy-two (72) diesel-fired emergency generator engines, and five (5) natural gas-fired emergency generator engines. There is one diesel storage tank associated with each diesel fired emergency generator and the boilers using fuel oil as backup fuel. The University also acquired the Biomedical Science Tower (BST) Incinerator in a transfer from the University of Pittsburgh Medical Center. The University of Pittsburgh is a major source of NO_X emissions. There are no existing requirements under RACT I at the facility.

Source	Description	Rating	NO _X PTE	Basis for	Presumptive RACT Requirement
ID			(TPY)	Presumptive	
B23A	Natural Gas Boiler	10.71	3.70	< 20 MMBtu/hr	129.97 (c)(3): Install, maintain and operate the
		MMBtu/hr			source in accordance with the manufacturer's
					specifications and with good operating practices
B23B	Natural Gas Boiler	8.67	3.00	< 20 MMBtu/hr	129.97 (c)(3): Install, maintain and operate the
		MMBtu/hr			source in accordance with the manufacturer's
					specifications and with good operating practices
B23C	Natural Gas Boiler	8.67	3.00	< 20 MMBtu/hr	129.97 (c)(3): Install, maintain and operate the
		MMBtu/hr			source in accordance with the manufacturer's
					specifications and with good operating practices
B48-1	Natural Gas Boiler	140	48.44	< 0.10 lb/MMBtu	129.97 (g)(1)(i): The existing permit limit is less
		MMBtu/hr			than presumptive RACT
B48-2	Natural Gas Boiler	140	48.44	< 0.10 lb/MMBtu	129.97 (g)(1)(i): The existing permit limit is less
		MMBtu/hr			than presumptive RACT
B48-3	Natural Gas Boiler	140	48.44	< 0.10 lb/MMBtu	129.97 (g)(1)(i): The existing permit limit is less
		MMBtu/hr			than presumptive RACT
B48-4	Natural Gas Boiler	140	48.44	< 0.10 lb/MMBtu	129.97 (g)(1)(i): The existing permit limit is less
		MMBtu/hr			than presumptive RACT
B48-5	Natural Gas Boiler	140	48.44	< 0.10 lb/MMBtu	129.97 (g)(1)(i): The existing permit limit is less
		MMBtu/hr			than presumptive RACT
B48-6	Natural Gas Boiler	140	48.44	< 0.10 lb/MMBtu	129.97 (g)(1)(i): The existing permit limit is less
		MMBtu/hr			than presumptive RACT
B55A	Natural Gas Boiler	3.5 MMBtu/hr	1.21	< 20 MMBtu/hr	129.97 (c)(3): Install, maintain and operate the
					source in accordance with the manufacturer's
					specifications and with good operating practices
B55B	Natural Gas Boiler	3.5 MMBtu/hr	1.21	< 20 MMBtu/hr	129.97 (c)(3): Install, maintain and operate the
					source in accordance with the manufacturer's
					specifications and with good operating practices
B56A	Natural Gas Boiler	3.5 MMBtu/hr	1.21	< 20 MMBtu/hr	129.97 (c)(3): Install, maintain and operate the
					source in accordance with the manufacturer's

Table 2 Facility Sources Subject to the Presumptive RACT II per PA Code 129.97

Source	Description	Rating	NO _X PTE	Basis for	Presumptive RACT Requirement
שו			(191)	Presumptive	specifications and with good operating practices
B56B	Natural Gas Boiler	3.5 MMBtu/br	1 21	< 20 MMBtu/br	129.97 (c)(3): Install maintain and operate the
5505	Natural Gas Doller	5.5 WIVIDCU/III	1.21		source in accordance with the manufacturer's
					specifications and with good operating practices
DG04	Diesel Emergency	912 hp	1.26	< 500 hr/yr	129.97 (c)(8): Install, maintain and operate the
	Generator				source in accordance with the manufacturer's
					specifications and with good operating practices
DG05	Diesel Emergency	805 hp	1.11	< 500 hr/yr	129.97 (c)(8): Install, maintain and operate the
	Generator				source in accordance with the manufacturer's
DC17	Disale	200 h .	1.01		specifications and with good operating practices
DGI7	Diesei Emergency	268 np	1.91	< 500 nr/yr	129.97 (C)(8): Install, maintain and operate the
	Generator				specifications and with good operating practices
DG29	Diesel Emergency	1.676 hp	2.31	< 500 hr/vr	129.97 (c)(8): Install, maintain and operate the
	Generator	_,		,	source in accordance with the manufacturer's
					specifications and with good operating practices
DG33-1	Diesel Emergency	1,341 hp	1.79	< 500 hr/yr	129.97 (c)(8): Install, maintain and operate the
	Generator				source in accordance with the manufacturer's
			. ==	(specifications and with good operating practices
DG33-2	Diesel Emergency	1,341 hp	1.79	< 500 hr/yr	129.97 (c)(8): Install, maintain and operate the
	Generator				specifications and with good operating practices
DG40	Diesel Emergency	1.341 hp	1.85	< 500 hr/yr	129.97 (c)(8): Install, maintain and operate the
2010	Generator	1)0 · 1 · ip	1.00		source in accordance with the manufacturer's
					specifications and with good operating practices
DG41	Diesel Emergency	1,207 hp	0.67	< 500 hr/yr	129.97 (c)(8): Install, maintain and operate the
	Generator				source in accordance with the manufacturer's
					specifications and with good operating practices
DG43	Diesel Emergency	2,012 hp	2.78	< 500 hr/yr	129.97 (c)(8): Install, maintain and operate the
	Generator				specifications and with good operating practices
DG44	Diesel Emergency	2.347 hp	3.24	< 500 hr/yr	129.97 (c)(8): Install, maintain and operate the
-	Generator	,		,,	source in accordance with the manufacturer's
					specifications and with good operating practices
DG47	Diesel Emergency	1,006 hp	1.39	< 500 hr/yr	129.97 (c)(8): Install, maintain and operate the
	Generator				source in accordance with the manufacturer's
DCF 4	Discol Free and an	1.072 hr	1.40	4 5 00 h # (m	specifications and with good operating practices
DG54	Generator	1,073 np	1.48	< 500 nr/yr	129.97 (C)(8): Install, maintain and operate the
	Generator				specifications and with good operating practices
DG56	Diesel Emergency	335 hp	2.39	< 500 hr/yr	129.97 (c)(8): Install, maintain and operate the
	Generator			.,	source in accordance with the manufacturer's
					specifications and with good operating practices
DG57	Diesel Emergency	201 hp	1.43	< 500 hr/yr	129.97 (c)(8): Install, maintain and operate the
	Generator				source in accordance with the manufacturer's
DOFO	Disale	005 h .			specifications and with good operating practices
DG58	Diesel Emergency	805 np	4.44	< 500 nr/yr	129.97 (c)(8): Install, maintain and operate the
	Generator				specifications and with good operating practices
DG59	Diesel Emergency	671 hp	3.70	< 500 hr/vr	129.97 (c)(8): Install, maintain and operate the
	Generator			,,	source in accordance with the manufacturer's
					specifications and with good operating practices
DG61	Diesel Emergency	1,073 hp	5.92	< 500 hr/yr	129.97 (c)(8): Install, maintain and operate the
	Generator				source in accordance with the manufacturer's
				/	specifications and with good operating practices
DG63	Diesel Emergency	2,012 hp	11.10	< 500 hr/yr	129.97 (c)(8): Install, maintain and operate the
	Generator				specifications and with good operating practices
DG77	Diesel Emergency	872 hn	1.55	< 500 hr/yr	129.97 (c)(8); Install, maintain and operate the
	Generator				source in accordance with the manufacturer's
					specifications and with good operating practices

ID (TPY) B1-89 Natural Gas Boiler 3.96 MMBtu/hr 1.37* B10-B11 Natural Gas Boiler 1.4 MMBtu/hr 0.48 B22 Natural Gas Boiler 1.0 SMMBtu/hr 0.36 B27 Natural Gas Boiler 1.0 SMMBtu/hr 0.35 B27 Natural Gas Boiler 1.0 MMBtu/hr 0.36 B27 Natural Gas Boiler 1.2 MMBtu/hr 0.41 B30A, B, C Natural Gas Boiler 0.45 MMBtu/hr 0.65 B33A, B, C Natural Gas Boiler 0.25 MMBtu/hr 0.16 B35A, B, C Natural Gas Boiler 0.24 MMBtu/hr 0.06 B37 Natural Gas Boiler 0.24 MMBtu/hr 0.17 B40A, B Natural Gas Boiler 0.25 MMBtu/hr 0.17 B41A, B Natural Gas Boiler 0.25 MMBtu/hr 0.28 B42A, B Natural Gas Boiler 0.29 MMBtu/hr 0.28 B43A, B Natural Gas Boiler 0.29 MMBtu/hr 0.28 B44A, B Natural Gas Boiler 0.29 MMBtu/hr 0.28	Source	Description	Rating	NO _x PTE
B1-89 Natural Gas Boiler 3.96 MMBtu/hr 1.37 B10-B11 Natural Gas Boiler 0.64 MMBtu/hr 0.48 B22 Natural Gas Boiler 0.64 MMBtu/hr 0.35 B26 Natural Gas Boiler 1.05 MMBtu/hr 0.36 B27 Natural Gas Boiler 1.0 MMBtu/hr 0.41 B30A, B.C Natural Gas Boiler 1.2 MMBtu/hr 0.41 B33A, B.C Natural Gas Boiler 0.25 MMBtu/hr 0.65 B33A, B.C Natural Gas Boiler 0.25 MMBtu/hr 0.16 B35A, B.C Natural Gas Boiler 0.25 MMBtu/hr 0.06 B33 Natural Gas Boiler 0.24 MMBtu/hr 0.17 B4AD, B. Natural Gas Boiler 0.25 MMBtu/hr 0.17 B4AA, B. Natural Gas Boiler 0.25 MMBtu/hr 0.17 B4AA, B. Natural Gas Boiler 0.29 MMBtu/hr 0.28 B4AA, B. Natural Gas Boiler 0.29 MMBtu/hr 0.28 B4AA, B. Natural Gas Boiler 0.29 MMBtu/hr 0.28 B4AA, B. Natural G	ID			(TPY)
110-B11 Natural Gas Boiler 1.4 MMBtu/hr 0.48 022 Natural Gas Boiler 0.64 MMBtu/hr 0.32 023 Natural Gas Boiler 1.05 MMBtu/hr 0.35 024 Natural Gas Boiler 1.2 MMBtu/hr 0.35 0250 Natural Gas Boiler 1.2 MMBtu/hr 0.41 0300, B, C Natural Gas Boiler 3.09 MMBtu/hr 0.65 0334, B, C Natural Gas Boiler 0.45 MMBtu/hr 0.16 0334, B, C Natural Gas Boiler 0.25 MMBtu/hr 0.26 0334, B, C Natural Gas Boiler 0.24 MMBtu/hr 0.16 0337 Natural Gas Boiler 0.17 MMBtu/hr 0.17 030A, B Natural Gas Boiler 0.25 MMBtu/hr 0.17 034A, B Natural Gas Boiler 0.25 MMBtu/hr 0.17 040A, B Natural Gas Boiler 0.29 MMBtu/hr 0.20 043A, B Natural Gas Boiler 0.29 MMBtu/hr 0.20 044A, B Natural Gas Boiler 0.29 MMBtu/hr 0.20 045A, B Natural Gas	B1-B9	Natural Gas Boiler	3.96 MMBtu/hr	1.37*
B22 Natural Gas Boiler 0.64 MMBtu/hr 0.22 B26 Natural Gas Boiler 1.05 MMBtu/hr 0.36 B27 Natural Gas Boiler 1.0 MMBtu/hr 0.36 B28A, B Natural Gas Boiler 1.2 MMBtu/hr 0.41 B30A, B, C Natural Gas Boiler 1.30 MMBtu/hr 0.65 B33A, B, C Natural Gas Boiler 0.25 MMBtu/hr 0.26 B34A, B, C Natural Gas Boiler 0.24 MMBtu/hr 0.86 B37 Natural Gas Boiler 0.14 MMBtu/hr 0.16 B38A, B, C Natural Gas Boiler 0.14 MMBtu/hr 0.19 B39A, B, C Natural Gas Boiler 0.14 MMBtu/hr 0.17 B40A, B Natural Gas Boiler 0.25 MMBtu/hr 0.17 B43A, B Natural Gas Boiler 0.29 MMBtu/hr 0.20 B43A, B Natural Gas Boiler 0.29 MMBtu/hr 0.21 B43A, B Natural Gas Boiler 0.29 MMBtu/hr 0.23 B43A, B Natural Gas Boiler 0.29 MMBtu/hr 0.31 B44A, B Natura	B10-B11	Natural Gas Boiler	1.4 MMBtu/hr	0.48
B26 Natural Gas Boiler 1.05 MMBtu/hr 0.35 B27 Natural Gas Boiler 1.2 MMBtu/hr 0.35 B32A, B Natural Gas Boiler 3.09 MMBtu/hr 0.41 B30A, B, C Natural Gas Boiler 3.09 MMBtu/hr 0.65 B33A, B, C Natural Gas Boiler 0.45 MMBtu/hr 0.16 B35A, B, C Natural Gas Boiler 0.25 MMBtu/hr 0.26 B36 Natural Gas Boiler 0.24 MMBtu/hr 0.06 B37 Natural Gas Boiler 0.18 MMBtu/hr 0.06 B38 Natural Gas Boiler 0.17 MMBtu/hr 0.17 B40A, B Natural Gas Boiler 0.25 MMBtu/hr 0.17 B41A, B Natural Gas Boiler 0.29 MMBtu/hr 0.28 B43A, B Natural Gas Boiler 0.29 MMBtu/hr 0.28 B43A, B Natural Gas Boiler 0.29 MMBtu/hr 0.31 B44A, B Natural Gas Boiler 0.29 MMBtu/hr 0.31 B45A, B Natural Gas Boiler 0.29 MMBtu/hr 0.31 B45A, B Natural Gas Bol	B22	Natural Gas Boiler	0.64 MMBtu/hr	0.22
B27 Natural Gas Boiler 1.0 MMBtu/hr 0.35 B28A, B Natural Gas Boiler 3.09 MMBtu/hr 0.41 B30A, B, C Natural Gas Boiler 3.09 MMBtu/hr 0.05 B33A, D, C Natural Gas Boiler 0.45 MMBtu/hr 0.06 B35A, D, C Natural Gas Boiler 0.45 MMBtu/hr 0.08 B35A, D, C Natural Gas Boiler 0.25 MMBtu/hr 0.08 B37 Natural Gas Boiler 0.18 MMBtu/hr 0.19 B39A, D, C Natural Gas Boiler 0.17 MMBtu/hr 0.17 B40A, B Natural Gas Boiler 0.25 MMBtu/hr 0.17 B42A, B Natural Gas Boiler 0.29 MMBtu/hr 0.20 B43A, B, C Natural Gas Boiler 0.29 MMBtu/hr 0.28 B43A, B Natural Gas Boiler 0.29 MMBtu/hr 0.28 B44A, B Natural Gas Boiler 0.29 MMBtu/hr 0.35 B45 Natural Gas Boiler 0.20 MMBtu/hr 0.35 B45 Natural Gas Boiler 0.20 MMBtu/hr 0.35 B51 Natura	B26	Natural Gas Boiler	1.05 MMBtu/hr	0.36
B28A, B. Natural Gas Boiler 1.2 MMBtu/hr 0.41 B30A, B, C. Natural Gas Boiler 3.09 MMBtu/hr 0.07 B31L Natural Gas Boiler 0.45 MMBtu/hr 0.16 B35A, B, C. Natural Gas Boiler 0.25 MMBtu/hr 0.26 B35A, B, C. Natural Gas Boiler 0.25 MMBtu/hr 0.08 B37 Natural Gas Boiler 0.24 MMBtu/hr 0.06 B38 Natural Gas Boiler 0.18 MMBtu/hr 0.17 B38 Natural Gas Boiler 0.17 MMBtu/hr 0.17 B40A, B Natural Gas Boiler 0.25 MMBtu/hr 0.17 B44A, B Natural Gas Boiler 0.29 MMBtu/hr 0.28 B43A, B Natural Gas Boiler 0.29 MMBtu/hr 0.28 B43A, B Natural Gas Boiler 0.29 MMBtu/hr 0.28 B43A, B Natural Gas Boiler 0.29 MMBtu/hr 0.31 B43A, B Natural Gas Boiler 0.29 MMBtu/hr 0.31 B43A, B Natural Gas Boiler 0.20 MMBtu/hr 0.31 B43A, B Natural Gas Boiler 0.20 MMBtu/hr 0.35 B43A, B Natural Gas Boiler 0.31 MMBtu/hr 0.31 B43A, B Natural Gas Boiler 0.31 MMBtu/hr 0.31 <t< td=""><td>B27</td><td>Natural Gas Boiler</td><td>1.0 MMBtu/hr</td><td>0.35</td></t<>	B27	Natural Gas Boiler	1.0 MMBtu/hr	0.35
830. B, C. Natural Gas Boiler 3.09 MMBtu/hr 1.07* 831 Natural Gas Boiler 1.89 MMBtu/hr 0.65 833.A, B, C. Natural Gas Boiler 0.25 MMBtu/hr 0.26 835.A, B, C. Natural Gas Boiler 0.24 MMBtu/hr 0.06 836 Natural Gas Boiler 0.18 MMBtu/hr 0.06 837 Natural Gas Boiler 0.17 MMBtu/hr 0.19 838, B, C. Natural Gas Boiler 0.25 MMBtu/hr 0.17 834, B, C. Natural Gas Boiler 0.25 MMBtu/hr 0.17 844, B Natural Gas Boiler 0.25 MMBtu/hr 0.17 843, B Natural Gas Boiler 0.29 MMBtu/hr 0.20 844, B Natural Gas Boiler 0.29 MMBtu/hr 0.28 845 Natural Gas Boiler 0.29 MMBtu/hr 0.31 844, B Natural Gas Boiler 0.29 MMBtu/hr 0.35 844, B Natural Gas Boiler 1.44 MMBtu/hr 0.05 844, B Natural Gas Boiler 1.44 MMBtu/hr 0.07 850, B Natura	B28A, B	Natural Gas Boiler	1.2 MMBtu/hr	0.41
B33 Natural Gas Boiler 1.89 MMBtu/hr 0.65 B33A, B, C Natural Gas Boiler 0.45 MMBtu/hr 0.16 B35A, B, C Natural Gas Boiler 0.24 MMBtu/hr 0.08 B36 Natural Gas Boiler 0.24 MMBtu/hr 0.08 B37 Natural Gas Boiler 0.18 MMBtu/hr 0.19 B39A, B, C Natural Gas Boiler 0.17 MMBtu/hr 0.17 B40A, B Natural Gas Boiler 0.25 MMBtu/hr 0.17 B44A, B Natural Gas Boiler 0.25 MMBtu/hr 0.28 B43A, B Natural Gas Boiler 0.29 MMBtu/hr 0.35 B44A, B Natural Gas Boiler 0.29 MMBtu/hr 0.35 B45 Natural Gas Boiler 0.44 MMBtu/hr 1.00* B50A, B Natural Gas Boiler 0.44 MMBtu/hr 0.05 B44A, B Natural G	B30A, B, C	Natural Gas Boiler	3.09 MMBtu/hr	1.07*
B33A, B, C Natural Gas Boiler 0.45 MMBtu/hr 0.16 B35A, B, C Natural Gas Boiler 0.24 MMBtu/hr 0.26 B36 Natural Gas Boiler 0.18 MMBtu/hr 0.06 B37 Natural Gas Boiler 0.14 MMBtu/hr 0.06 B38 Natural Gas Boiler 0.17 MMBtu/hr 0.19 B38A, B, C Natural Gas Boiler 0.25 MMBtu/hr 0.17 B40A, B Natural Gas Boiler 0.25 MMBtu/hr 0.17 B41A, B Natural Gas Boiler 0.29 MMBtu/hr 0.28 B43A, B Natural Gas Boiler 0.29 MMBtu/hr 0.20 B44A, B Natural Gas Boiler 0.29 MMBtu/hr 0.31 B45A, B Natural Gas Boiler 0.91 MMBtu/hr 0.31 B46A, B Natural Gas Boiler 1.44 MMBtu/hr 1.00* B50A, B Natural Gas Boiler 0.20 MMBtu/hr 0.35 B47 Natural Gas Boiler 0.20 MMBtu/hr 0.35 B50A, B Natural Gas Boiler 0.20 MMBtu/hr 0.35 B53A, B Natural G	B31	Natural Gas Boiler	1.89 MMBtu/hr	0.65
B356, B, C Natural Gas Boiler 0.25 MMBtu/hr 0.06 B36 Natural Gas Boiler 0.18 MMBtu/hr 0.08 B37 Natural Gas Boiler 0.54 MMBtu/hr 0.19 B39A, B, C Natural Gas Boiler 0.17 MMBtu/hr 0.17 B40A, B Natural Gas Boiler 0.25 MMBtu/hr 0.17 B41A, B Natural Gas Boiler 0.25 MMBtu/hr 0.17 B42A, B Natural Gas Boiler 0.29 MMBtu/hr 0.28 B43A, B Natural Gas Boiler 0.29 MMBtu/hr 0.28 B43A, B Natural Gas Boiler 0.29 MMBtu/hr 0.28 B44A, B Natural Gas Boiler 0.91 MMBtu/hr 0.31 B45 Natural Gas Boiler 0.91 MMBtu/hr 0.35 B47 Natural Gas Boiler 1.44 MMBtu/hr 0.50 B49A, B Natural Gas Boiler 0.20 MMBtu/hr 0.35 B51 Natural Gas Boiler 0.20 MMBtu/hr 0.35 B53A, B, Natural Gas Boiler 0.05 MMBtu/hr 0.35 B54 Natural Gas Boiler 0	B33A, B, C	Natural Gas Boiler	0.45 MMBtu/hr	0.16
B36 Natural Gas Boiler 0.24 MMBtu/hr 0.08 B37 Natural Gas Boiler 0.18 MMBtu/hr 0.06 B38 Natural Gas Boiler 0.54 MMBtu/hr 0.17 B30, B Natural Gas Boiler 0.25 MMBtu/hr 0.17 B41A, B Natural Gas Boiler 0.25 MMBtu/hr 0.17 B42A, B Natural Gas Boiler 0.29 MMBtu/hr 0.20 B43A, B Natural Gas Boiler 0.29 MMBtu/hr 0.28 B43A, B Natural Gas Boiler 0.29 MMBtu/hr 0.28 B45A Natural Gas Boiler 0.29 MMBtu/hr 0.28 B45A Natural Gas Boiler 0.50 MMBtu/hr 0.35 B47 Natural Gas Boiler 1.44 MMBtu/hr 1.00* B50A, B Natural Gas Boiler 1.44 MMBtu/hr 1.00* B53A, B Natural Gas Boiler 0.20 MMBtu/hr 0.35 B54 Natural Gas Boiler 0.05 MMBtu/hr 0.35 B53A, B Natural Gas Boiler 0.20 MMBtu/hr 0.35 B53A, B Natural Gas Boiler	B35A, B, C	Natural Gas Boiler	0.25 MMBtu/hr	0.26
B37 Natural Gas Boiler 0.18 MMBtu/hr 0.06 B38 Natural Gas Boiler 0.54 MMBtu/hr 0.19 B39A, B, C Natural Gas Boiler 0.17 MMBtu/hr 0.17 B40A, B Natural Gas Boiler 0.25 MMBtu/hr 0.17 B41A, B Natural Gas Boiler 0.29 MMBtu/hr 0.17 B42A, B Natural Gas Boiler 0.29 MMBtu/hr 0.28 B43A, B Natural Gas Boiler 0.29 MMBtu/hr 0.28 B44A, B Natural Gas Boiler 0.29 MMBtu/hr 0.28 B45 Natural Gas Boiler 0.91 MMBtu/hr 0.31 B44A, B Natural Gas Boiler 0.41 MMBtu/hr 0.30 B44A, B Natural Gas Boiler 1.44 MMBtu/hr 1.00* B54 Natural Gas Boiler 2.15 MMBtu/hr 0.35 B53A, B Natural Gas Boiler 0.20 MMBtu/hr 0.35 B53A, B Natural Gas Boiler 0.20 MMBtu/hr 0.35 B53A, B Natural Gas Boiler 0.20 MMBtu/hr 0.35 B53A, B Natural Gas Boi	B36	Natural Gas Boiler	0.24 MMBtu/hr	0.08
B33 Natural Gas Boiler 0.54 MMBtu/hr 0.17 B39A, B, C Natural Gas Boiler 0.17 MMBtu/hr 0.17 B41A, B Natural Gas Boiler 0.25 MMBtu/hr 0.17 B41A, B Natural Gas Boiler 0.25 MMBtu/hr 0.17 B42A, B Natural Gas Boiler 0.29 MMBtu/hr 0.28 B43A, B Natural Gas Boiler 0.29 MMBtu/hr 0.20 B44A, B Natural Gas Boiler 0.29 MMBtu/hr 0.28 B45 Natural Gas Boiler 0.29 MMBtu/hr 0.28 B45 Natural Gas Boiler 0.50 MMBtu/hr 0.31 B46A, B Natural Gas Boiler 0.50 MMBtu/hr 0.35 B47 Natural Gas Boiler 1.44 MMBtu/hr 1.00* B50A, B Natural Gas Boiler 0.20 MMBtu/hr 0.50 B50A, B Natural Gas Boiler 0.20 MMBtu/hr 0.35 B53A, B Natural Gas Boiler 0.20 MMBtu/hr 0.20* B52A, B Natural Gas Boiler 0.20 MMBtu/hr 0.20* B53A, B Natural Gas B	B37	Natural Gas Boiler	0.18 MMBtu/hr	0.06
B39A, B, C Natural Gas Boiler 0.17 MMBtu/hr 0.17 B40A, B Natural Gas Boiler 0.25 MMBtu/hr 0.17 B41A, B Natural Gas Boiler 0.29 MMBtu/hr 0.28 B43A, B Natural Gas Boiler 0.29 MMBtu/hr 0.28 B43A, B Natural Gas Boiler 0.29 MMBtu/hr 0.28 B43A, B Natural Gas Boiler 0.91 MMBtu/hr 0.28 B44A, B Natural Gas Boiler 0.91 MMBtu/hr 0.31 B46A, B Natural Gas Boiler 0.50 MMBtu/hr 0.35 B47 Natural Gas Boiler 1.44 MMBtu/hr 1.00* B50A, B Natural Gas Boiler 2.15 MMBtu/hr 1.08* B51 Natural Gas Boiler 0.05 MMBtu/hr 0.35 B54A, B Natural Gas Boiler 0.05 MMBtu/hr 0.35 B54A, B, C Natural Gas Boiler 0.20 MMBtu/hr 0.35 B54 Natural Gas Boiler 0.20 MMBtu/hr 0.35 B54 Natural Gas Boiler 0.20 MMBtu/hr 0.36 B54 Natural Gas Spa	B38	Natural Gas Boiler	0.54 MMBtu/hr	0.19
840A, B Natural Gas Boiler 0.25 MMBtu/hr 0.17 841A, B Natural Gas Boiler 0.29 MMBtu/hr 0.28 843A, B Natural Gas Boiler 0.29 MMBtu/hr 0.28 843A, B Natural Gas Boiler 0.29 MMBtu/hr 0.28 844A, B Natural Gas Boiler 0.29 MMBtu/hr 0.28 845 Natural Gas Boiler 0.91 MMBtu/hr 0.31 846A, B Natural Gas Boiler 0.50 MMBtu/hr 0.35 847 Natural Gas Boiler 1.44 MMBtu/hr 0.00* 850A, B Natural Gas Boiler 1.44 MMBtu/hr 1.00* 850A, B Natural Gas Boiler 0.20 MMBtu/hr 0.35 851 Natural Gas Boiler 0.20 MMBtu/hr 0.35 854 Natural Gas Boiler 0.05 MMBtu/hr 0.35 854 Natural Gas Space Heater 0.20 MMBtu/hr 0.29 857A, B, C Natural Gas Space Heater 0.20 MMBtu/hr 0.311 14A-B Natural Gas Swater Heater 0.20 MMBtu/hr 0.58 HW1- Nat	B39A, B, C	Natural Gas Boiler	0.17 MMBtu/hr	0.17
B41A, B Natural Gas Boiler 0.25 MMBtu/hr 0.17 B42A, B Natural Gas Boiler 0.29 MMBtu/hr 0.28 B43A, B Natural Gas Boiler 0.29 MMBtu/hr 0.20 B44A, B Natural Gas Boiler 0.29 MMBtu/hr 0.28 B45 Natural Gas Boiler 0.91 MMBtu/hr 0.31 B46A, B Natural Gas Boiler 0.50 MMBtu/hr 0.35 B47 Natural Gas Boiler 1.44 MMBtu/hr 0.50 B49A, B Natural Gas Boiler 2.15 MMBtu/hr 1.48* B51 Natural Gas Boiler 0.20 MMBtu/hr 0.35 B54 Natural Gas Boiler 0.05 MMBtu/hr 0.35 B54 Natural Gas Boiler 0.05 MMBtu/hr 0.35 B54 Natural Gas Boiler 0.20 MMBtu/hr 0.29 B57A, B, C Natural Gas Space Heater 0.90 MMBtu/hr 0.29 B57A, B, C Natural Gas Space Heater 0.90 MMBtu/hr 0.311 H3A-H3E Natural Gas Space Heater 0.90 MMBtu/hr 0.311 H3A-H3E	B40A, B	Natural Gas Boiler	0.25 MMBtu/hr	0.17
B42A, B Natural Gas Boiler 0.29 MMBtu/hr 0.28 B43A, B Natural Gas Boiler 0.29 MMBtu/hr 0.20 B44A, B Natural Gas Boiler 0.91 MMBtu/hr 0.28 B45 Natural Gas Boiler 0.91 MMBtu/hr 0.31 B46A, B Natural Gas Boiler 0.50 MMBtu/hr 0.35 B47 Natural Gas Boiler 1.44 MMBtu/hr 1.00* B50A, B Natural Gas Boiler 1.44 MMBtu/hr 1.00* B50A, B Natural Gas Boiler 0.20 MMBtu/hr 0.35 B51 Natural Gas Boiler 0.05 MMBtu/hr 0.35 B52A, B Natural Gas Boiler 0.05 MMBtu/hr 0.35 B53A, B Natural Gas Boiler 0.05 MMBtu/hr 0.29 B57A, B, C Natural Gas Space Heater 0.20 MMBtu/hr 0.29 H2A-H2F Natural Gas Space Heater 0.20 MMBtu/hr 0.311 HAA-H3E Natural Gas Water Heater 1.39 MMBtu/hr 0.584 HW1- Natural Gas Water Heater 1.6 MMBtu/hr 0.594 HW24	B41A, B	Natural Gas Boiler	0.25 MMBtu/hr	0.17
B43A, BNatural Gas Boiler0.29 MMBtu/hr0.20B44A, BNatural Gas Boiler0.29 MMBtu/hr0.28B45Natural Gas Boiler0.50 MMBtu/hr0.31B46A, BNatural Gas Boiler0.50 MMBtu/hr0.35B47Natural Gas Boiler1.44 MMBtu/hr1.00*B50A, BNatural Gas Boiler2.15 MMBtu/hr1.00*B52A, BNatural Gas Boiler0.05 MMBtu/hr0.35B53A, BNatural Gas Boiler0.05 MMBtu/hr0.35B53A, BNatural Gas Boiler0.05 MMBtu/hr0.35B53A, BNatural Gas Boiler0.05 MMBtu/hr0.29B57A, B, CNatural Gas Boiler0.20 MMBtu/hr0.29B57A, B, CNatural Gas Space Heater0.20 MMBtu/hr0.069H2A-H2FNatural Gas Space Heater0.20 MMBtu/hr0.311H3A-H3ENatural Gas Space Heater0.20 MMBtu/hr0.684HW1-Natural Gas Space Heater1.39 MMBtu/hr0.684HW11-HW12Natural Gas Water Heater1.6 MMBtu/hr0.54HW22Natural Gas Water Heater0.065 MMBtu/hr0.032HW23Natural Gas Water Heater0.055 MMBtu/hr0.032HW24Natural Gas Water Heater0.056 MMBtu/hr0.038HW25Natural Gas Water Heater0.056 MMBtu/hr0.038HW26Natural Gas Water Heater0.98 MMBtu/hr0.034HW27Natural Gas Water Heater0.98 MMBtu/hr0.034HW28Natural Gas Water Heater0	B42A, B	Natural Gas Boiler	0.29 MMBtu/hr	0.28
B44A, B Natural Gas Boiler 0.29 MMBtu/hr 0.31 B45A Natural Gas Boiler 0.50 MMBtu/hr 0.31 B46A, B Natural Gas Boiler 0.50 MMBtu/hr 0.33 B47 Natural Gas Boiler 1.44 MMBtu/hr 0.50 B49A, B Natural Gas Boiler 1.44 MMBtu/hr 1.00* B50A, B Natural Gas Boiler 2.15 MMBtu/hr 1.48* B51 Natural Gas Boiler 0.20 MMBtu/hr 0.07 B52A, B Natural Gas Boiler 0.05 MMBtu/hr 0.35 B53A, B Natural Gas Boiler 0.05 MMBtu/hr 0.35 B54 Natural Gas Boiler 0.05 MMBtu/hr 0.35 B54 Natural Gas Space Heater 0.20 MMBtu/hr 0.29 B7A, B, C Natural Gas Space Heater 0.20 MMBtu/hr 0.311 H3A-H3E Natural Gas Water Heater 0.20 MMBtu/hr 0.584 HW1- Natural Gas Water Heater 1.39 MMBtu/hr 0.684 HW23- Natural Gas Water Heater 1.6 MMBtu/hr 0.79 HW24	B43A, B	Natural Gas Boiler	0.29 MMBtu/hr	0.20
B45 Natural Gas Boiler 0.91 MMBtu/hr 0.33 B46A, B Natural Gas Boiler 0.50 MMBtu/hr 0.35 B47 Natural Gas Boiler 1.44 MMBtu/hr 0.50 B49A, B Natural Gas Boiler 1.44 MMBtu/hr 1.00* B50A, B Natural Gas Boiler 0.20 MMBtu/hr 0.07 B52A, B Natural Gas Boiler 0.05 MMBtu/hr 0.35 B53 B Natural Gas Boiler 0.05 MMBtu/hr 0.35 B54, B Natural Gas Boiler 0.05 MMBtu/hr 0.35 B57A, B, C Natural Gas Boiler 0.05 MMBtu/hr 0.29 B57A, B, C Natural Gas Space Heater 0.20 MMBtu/hr 0.069 H2A-H2F Natural Gas Space Heater 0.90 MMBtu/hr 0.311 H3A-H3E Natural Gas Water Heater 1.39 MMBtu/hr 0.684 HW1- HW1- Natural Gas Water Heater 1.6 MMBtu/hr 0.594 HW23 Natural Gas Water Heater 1.6 MMBtu/hr 0.322 HW24 Natural Gas Water Heater 0.076 MMBtu/hr 0.0	B44A, B	Natural Gas Boiler	0.29 MMBtu/hr	0.28
B46A, B Natural Gas Boiler 0.50 MMBtu/hr 0.50 B47 Natural Gas Boiler 1.44 MMBtu/hr 0.50 B49A, B Natural Gas Boiler 1.44 MMBtu/hr 1.00* B50A, B Natural Gas Boiler 2.15 MMBtu/hr 1.48* B51 Natural Gas Boiler 0.00 MMBtu/hr 0.03 B52A, B Natural Gas Boiler 0.05 MMBtu/hr 0.35 B54 Natural Gas Boiler 0.05 MMBtu/hr 0.35 B57A, B, C Natural Gas Boiler 0.05 MMBtu/hr 0.29 B57A, B, C Natural Gas Space Heater 0.20 MMBtu/hr 0.0511 H3A, B Natural Gas Space Heater 0.20 MMBtu/hr 0.311 H3A-H3E Natural Gas Space Heater 0.20 MMBtu/hr 0.684 HW1- Natural Gas Water Heater 1.39 MMBtu/hr 0.684 HW12 Natural Gas Water Heater 1.6 MMBtu/hr 0.79 HW23 Natural Gas Water Heater 1.0 MMBtu/hr 0.32 HW25 Natural Gas Water Heater 0.076 MMBtu/hr 0.032 <t< td=""><td>B45</td><td>Natural Gas Boiler</td><td>0.91 MMBtu/hr</td><td>0.31</td></t<>	B45	Natural Gas Boiler	0.91 MMBtu/hr	0.31
B47Natural Gas Boiler1.44 MMBtu/hr0.50B49A, BNatural Gas Boiler1.44 MMBtu/hr1.00*B50A, BNatural Gas Boiler2.15 MMBtu/hr1.48*B51Natural Gas Boiler0.20 MMBtu/hr0.35B53A, BNatural Gas Boiler0.05 MMBtu/hr0.35B53A, BNatural Gas Boiler0.05 MMBtu/hr0.35B54Natural Gas Boiler0.84 MMBtu/hr0.29B57A, B, CNatural Gas Space Heater0.20 MMBtu/hr0.069H2A-H2FNatural Gas Space Heater0.90 MMBtu/hr0.311H3A-H3ENatural Gas Space Heater0.90 MMBtu/hr0.584HW1-Natural Gas Space Heater1.39 MMBtu/hr0.684HW1-Natural Gas Water Heater1.39 MMBtu/hr0.684HW19-Natural Gas Water Heater1.6 MMBtu/hr0.79HW24Natural Gas Water Heater0.065 MMBtu/hr0.79HW25Natural Gas Water Heater0.065 MMBtu/hr0.032HW25Natural Gas Water Heater0.065 MMBtu/hr0.032HW27Natural Gas Water Heater0.19 MMBtu/hr0.034HW28Natural Gas Water Heater0.19 MMBtu/hr0.034HW29Natural Gas Water Heater0.19 MMBtu/hr0.032HW27Natural Gas Water Heater0.92 MMBtu/hr0.038HW28Natural Gas Water Heater0.93 MMBtu/hr0.98HW31A, BNatural Gas Water Heater1.98 MMBtu/hr0.98HW324Natural Gas Water Heater0.98	B46A, B	Natural Gas Boiler	0.50 MMBtu/hr	0.35
B49A, BNatural Gas Boiler1.44 MMBtu/hr1.00*B50A, BNatural Gas Boiler2.15 MMBtu/hr1.48*B51Natural Gas Boiler0.20 MMBtu/hr0.35B52A, BNatural Gas Boiler0.05 MMBtu/hr0.35B54Natural Gas Boiler0.05 MMBtu/hr0.29B57A, B, CNatural Gas Boiler0.20 MMBtu/hr0.29B57A, B, CNatural Gas Space Heater0.20 MMBtu/hr0.29B57A, B, CNatural Gas Space Heater0.20 MMBtu/hr0.311H3A, BNatural Gas Space Heater0.90 MMBtu/hr0.311H3A-H3ENatural Gas Space Heater0.90 MMBtu/hr0.311H3A-H3ENatural Gas Water Heater1.39 MMBtu/hr0.684HW1-Natural Gas Water Heater1.39 MMBtu/hr0.684HW12-Natural Gas Water Heater1.6 MMBtu/hr0.79HW23-Natural Gas Water Heater1.6 MMBtu/hr0.79HW24Natural Gas Water Heater0.055 MMBtu/hr0.032HW25Natural Gas Water Heater0.065 MMBtu/hr0.032HW27Natural Gas Water Heater0.065 MMBtu/hr0.038HW28Natural Gas Water Heater0.98 MMBtu/hr0.98HW31A, BNatural Gas Water Heater1.98 MMBtu/hr0.98HW32A, BNatural Gas Water Heater1.98 MMBtu/hr0.98HW32A, BNatural Gas Water Heater1.98 MMBtu/hr0.98HW32A, BNatural Gas Water Heater1.98 MMBtu/hr0.24HW32A, BNatural	B47	Natural Gas Boiler	1.44 MMBtu/hr	0.50
B50A, BNatural Gas Boiler2.15 MMBtu/hr1.48*B51Natural Gas Boiler0.20 MMBtu/hr0.07B52A, BNatural Gas Boiler0.05 MMBtu/hr0.35B53A, BNatural Gas Boiler0.05 MMBtu/hr0.35B54Natural Gas Boiler0.84 MMBtu/hr0.29B57A, B, CNatural Gas Space Heater0.20 MMBtu/hr0.069H2A, BNatural Gas Space Heater0.20 MMBtu/hr0.311H3A, BNatural Gas Space Heater0.20 MMBtu/hr0.311H3A-H3ENatural Gas Space Heater4.6 MMBtu/hr1.59*HW1-Natural Gas Water Heater1.39 MMBtu/hr0.684HW11-HW180.6840.055HW22Natural Gas Water Heater1.6 MMBtu/hr0.79HW23-Natural Gas Water Heater1.1 MMBtu/hr0.54HW241.1 MMBtu/hr0.541.1 MMBtu/hr0.032HW25Natural Gas Water Heater0.05 MMBtu/hr0.032HW27Natural Gas Water Heater0.19 MMBtu/hr0.098HW28Natural Gas Water Heater0.20 MMBtu/hr0.098HW30A, BNatural Gas Water Heater1.98 MMBtu/hr0.98HW31A, BNatural Gas Water Heater1.98 MMBtu/hr0.98HW32A-ENatural Gas Water Heater1.98 MMBtu/hr0.98HW32A, BNatural Gas Water Heater1.98 MMBtu/hr0.98HW32A, BNatural Gas Water Heater1.98 MMBtu/hr0.98HW32A, BNatural Gas Water Heater1.98 MMBt	B49A, B	Natural Gas Boiler	1.44 MMBtu/hr	1.00*
B51Natural Gas Boiler0.20 MMBtu/hr0.07B52A, BNatural Gas Boiler0.05 MMBtu/hr0.35B53A, BNatural Gas Boiler0.05 MMBtu/hr0.35B54Natural Gas Boiler0.84 MMBtu/hr0.29B57A, B, CNatural Gas Space Heater0.20 MMBtu/hr0.051H1A, BNatural Gas Space Heater0.20 MMBtu/hr0.311H3A-H3ENatural Gas Space Heater0.90 MMBtu/hr0.311H3A-H3ENatural Gas Space Heater1.39 MMBtu/hr0.684HW1-Natural Gas Space Heater1.39 MMBtu/hr0.684HW1-Natural Gas Water Heater1.6 MMBtu/hr2.09*HW221.6 MMBtu/hr0.6841.6HW23-Natural Gas Water Heater1.6 MMBtu/hr0.54HW241.6 MMBtu/hr0.0321.4HW25Natural Gas Water Heater0.065 MMBtu/hr0.032HW27Natural Gas Water Heater0.19 MMBtu/hr0.038HW28Natural Gas Water Heater0.19 MMBtu/hr0.094HW27Natural Gas Water Heater0.20 MMBtu/hr0.098HW30A, BNatural Gas Water Heater1.98 MMBtu/hr0.98HW31A, BNatural Gas Water Heater1.98 MMBtu/hr0.24HW34A, CNatural Gas Water Heater1.98 MMBtu/hr0.24HW35Natural Gas Water Heater1.98 MMBtu/hr0.24HW36Natural Gas Water Heater1.98 MMBtu/hr0.24HW33A, BNatural Gas Water Heater1.98 MMBtu/hr0.24	B50A, B	Natural Gas Boiler	2.15 MMBtu/hr	1.48*
B52A, B Natural Gas Boiler 0.05 MMBtu/hr 0.35 B53A, B Natural Gas Boiler 0.05 MMBtu/hr 0.35 B54 Natural Gas Boiler 0.84 MMBtu/hr 0.29 B57A, B, C Natural Gas Boiler 2.0 MMBtu/hr 0.069 H1A, B Natural Gas Space Heater 0.20 MMBtu/hr 0.311 H3A-H3E Natural Gas Space Heater 0.90 MMBtu/hr 0.311 H3A-H3E Natural Gas Space Heater 4.6 MMBtu/hr 1.59* HW1- Natural Gas Water Heater 1.39 MMBtu/hr 0.684 HW11- Natural Gas Water Heater 1.6 MMBtu/hr 0.54 HW22 Natural Gas Water Heater 1.6 MMBtu/hr 0.54 HW23- Natural Gas Water Heater 0.065 MMBtu/hr 0.032 HW24 Natural Gas Water Heater 0.076 MMBtu/hr 0.032 HW27 Natural Gas Water Heater 0.19 MMBtu/hr 0.038 HW28 Natural Gas Water Heater 0.20 MMBtu/hr 0.038 HW29 Natural Gas Water Heater 0.20 MMBtu/hr 0.98 HW27 Natural Gas Water Heater 0.20 MMBtu/hr 0.	B51	Natural Gas Boiler	0.20 MMBtu/hr	0.07
B53A, BNatural Gas Boiler0.05 MMBtu/hr0.35B54Natural Gas Boiler0.84 MMBtu/hr0.29B57A, B, CNatural Gas Space Heater2.0 MMBtu/hr0.069H2A, H2FNatural Gas Space Heater0.20 MMBtu/hr0.311H3A, H3ENatural Gas Space Heater4.6 MMBtu/hr0.311HW1-Natural Gas Space Heater4.6 MMBtu/hr0.684HW1-Natural Gas Water Heater1.39 MMBtu/hr0.684HW1-Natural Gas Water Heater1.39 MMBtu/hr0.684HW1-Natural Gas Water Heater1.6 MMBtu/hr0.79HW22Natural Gas Water Heater1.6 MMBtu/hr0.79HW24Natural Gas Water Heater0.055 MMBtu/hr0.032HW25Natural Gas Water Heater0.065 MMBtu/hr0.032HW26Natural Gas Water Heater0.076 MMBtu/hr0.038HW27Natural Gas Water Heater0.19 MMBtu/hr0.094HW29Natural Gas Water Heater1.98 MMBtu/hr0.098HW30A, BNatural Gas Water Heater1.98 MMBtu/hr0.98HW31A, BNatural Gas Water Heater1.98 MMBtu/hr0.98HW32A-CNatural Gas Water Heater1.92 MMBtu/hr0.32HW35Natural Gas Water Heater1.92 MMBtu/hr0.98HW31A, BNatural Gas Water Heater1.96 MMBtu/hr0.24HW35Natural Gas Water Heater1.92 MMBtu/hr0.32HW35Natural Gas Water Heater1.96 MMBtu/hr0.24HW36Natural G	B52A, B	Natural Gas Boiler	0.05 MMBtu/hr	0.35
B54Natural Gas Boiler0.84 MMBtu/hr0.29B57A, B, CNatural Gas Boiler2.0 MMBtu/hr2.07*H1A, BNatural Gas Space Heater0.20 MMBtu/hr0.311H3A-H3ENatural Gas Space Heater4.6 MMBtu/hr1.59*HW1-Natural Gas Space Heater4.6 MMBtu/hr0.684HW1-Natural Gas Water Heater1.39 MMBtu/hr0.684HW1-Natural Gas Water Heater1.39 MMBtu/hr0.684HW1-Natural Gas Water Heater4.24 MMBtu/hr0.684HW12Natural Gas Water Heater1.6 MMBtu/hr0.79HW22Natural Gas Water Heater1.6 MMBtu/hr0.79HW24Natural Gas Water Heater0.065 MMBtu/hr0.32HW25Natural Gas Water Heater0.076 MMBtu/hr0.032HW27Natural Gas Water Heater0.19 MMBtu/hr0.094HW28Natural Gas Water Heater0.20 MMBtu/hr0.098HW29Natural Gas Water Heater0.20 MMBtu/hr0.098HW31A, BNatural Gas Water Heater1.98 MMBtu/hr0.98HW31A, BNatural Gas Water Heater1.98 MMBtu/hr0.98HW31A, BNatural Gas Water Heater1.98 MMBtu/hr0.37HW35Natural Gas Water Heater1.06 MMBtu/hr0.37HW36Natural Gas Water Heater1.06 MMBtu/hr0.37HW35Natural Gas Water Heater1.06 MMBtu/hr0.37HW36Natural Gas Water Heater1.06 MMBtu/hr0.37HW35Natural Gas Water H	В53А, В	Natural Gas Boiler	0.05 MMBtu/hr	0.35
B57A, B, C Natural Gas Boiler 2.0 MMBtu/hr 2.07* H1A, B Natural Gas Space Heater 0.20 MMBtu/hr 0.069 H2A-H2F Natural Gas Space Heater 0.90 MMBtu/hr 0.311 H3A-H3E Natural Gas Space Heater 4.6 MMBtu/hr 1.59* HW1- Natural Gas Water Heater 1.39 MMBtu/hr 0.684 HW18	B54	Natural Gas Boiler	0.84 MMBtu/hr	0.29
H1A, BNatural Gas Space Heater0.20 MMBtu/hr0.069H2A.H2FNatural Gas Space Heater0.90 MMBtu/hr0.311H3A-H3ENatural Gas Space Heater4.6 MMBtu/hr1.59*HW1-Natural Gas Water Heater1.39 MMBtu/hr0.684HW1-Natural Gas Water Heater1.39 MMBtu/hr0.684HW11-HW180.684HW1221.6 MMBtu/hr0.684HW23-Natural Gas Water Heater1.6 MMBtu/hr0.79HW241.6 MMBtu/hr0.79HW25Natural Gas Water Heater1.1 MMBtu/hr0.32HW26Natural Gas Water Heater0.065 MMBtu/hr0.032HW27Natural Gas Water Heater0.076 MMBtu/hr0.032HW28Natural Gas Water Heater0.19 MMBtu/hr0.094HW29Natural Gas Water Heater1.98 MMBtu/hr0.98HW28Natural Gas Water Heater1.98 MMBtu/hr0.98HW27Natural Gas Water Heater1.98 MMBtu/hr0.98HW30A, BNatural Gas Water Heater1.98 MMBtu/hr0.98HW30A, BNatural Gas Water Heater1.98 MMBtu/hr0.98HW31A, BNatural Gas Water Heater1.06 MMBtu/hr0.24HW34A-CNatural Gas Water Heater1.06 MMBtu/hr0.37NG6Natural Gas Water Heater1.06 MMBtu/hr0.37NG6Natural Gas Emergency Generator0.60 MMBtu/hr0.014NG38Natural Gas Emergency Generator0.60 MMBtu/hr0.017NG20 <td< td=""><td>B57A, B, C</td><td>Natural Gas Boiler</td><td>2.0 MMBtu/hr</td><td>2.07*</td></td<>	B57A, B, C	Natural Gas Boiler	2.0 MMBtu/hr	2.07*
H2A-H2FNatural Gas Space Heater0.90 MMBtu/hr0.311H3A-H3ENatural Gas Space Heater4.6 MMBtu/hr1.59*HW1-Natural Gas Water Heater1.39 MMBtu/hr0.684HW1-Natural Gas Water Heater1.39 MMBtu/hr0.684HW1-HW19-Natural Gas Water Heater4.24 MMBtu/hr2.09*HW22Natural Gas Water Heater1.6 MMBtu/hr0.79HW2410.791HW25Natural Gas Water Heater1.1 MMBtu/hr0.32HW26Natural Gas Water Heater0.065 MMBtu/hr0.032HW27Natural Gas Water Heater0.076 MMBtu/hr0.038HW28Natural Gas Water Heater0.20 MMBtu/hr0.098HW29Natural Gas Water Heater0.20 MMBtu/hr0.098HW30A, BNatural Gas Water Heater1.98 MMBtu/hr0.98HW31A, BNatural Gas Water Heater9.25 MMBtu/hr0.24HW35A, BNatural Gas Water Heater1.16 MMBtu/hr0.40HW35A, BNatural Gas Water Heater1.16 MMBtu/hr0.98HW33A, BNatural Gas Water Heater1.98 MMBtu/hr0.98HW35A, BNatural Gas Water Heater1.16 MMBtu/hr0.37NG6Natural Gas Water Heater1.06 MMBtu/hr0.40HW36Natural Gas Emergency Generator0.60 MMBtu/hr0.014NG8Natural Gas Emergency Generator0.29 MMBtu/hr0.014NG20Natural Gas Emergency Generator0.20 MMBtu/hr0.100NG20 <t< td=""><td>H1A, B</td><td>Natural Gas Space Heater</td><td>0.20 MMBtu/hr</td><td>0.069</td></t<>	H1A, B	Natural Gas Space Heater	0.20 MMBtu/hr	0.069
H3A-H3ENatural Gas Space Heater4.6 MMBtu/hr1.59*HW1-Natural Gas Water Heater1.39 MMBtu/hr0.684HW1-HW1-1.39 MMBtu/hr0.684HW11-HW19-Natural Gas Water Heater4.24 MMBtu/hr2.09*HW22HW23-Natural Gas Water Heater1.6 MMBtu/hr0.79HW241.1 MMBtu/hr0.541.1 MMBtu/hr0.32HW25Natural Gas Water Heater0.065 MMBtu/hr0.032HW27Natural Gas Water Heater0.076 MMBtu/hr0.032HW28Natural Gas Water Heater0.19 MMBtu/hr0.094HW29Natural Gas Water Heater0.20 MMBtu/hr0.098HW30A, BNatural Gas Water Heater1.98 MMBtu/hr0.98HW31A, BNatural Gas Water Heater9.25 MMBtu/hr0.98HW32A-ENatural Gas Water Heater0.68 MMBtu/hr0.24HW36Natural Gas Water Heater1.16 MMBtu/hr0.24HW36Natural Gas Water Heater1.16 MMBtu/hr0.40HW36Natural Gas Water Heater1.06 MMBtu/hr0.40HW36Natural Gas Water Heater1.06 MMBtu/hr0.40HW36Natural Gas Emergency Generator0.60 MMBtu/hr0.014NG8Natural Gas Emergency Generator0.29 MMBtu/hr0.116NG18Natural Gas Emergency Generator0.29 MMBtu/hr0.116NG20Natural Gas Emergency Generator0.35 MMBtu/hr0.100DG01Diesel Emergency Generator0.35 MMBtu/hr0.100 <td>H2A-H2F</td> <td>Natural Gas Space Heater</td> <td>0.90 MMBtu/hr</td> <td>0.311</td>	H2A-H2F	Natural Gas Space Heater	0.90 MMBtu/hr	0.311
HW1- HW8 HW1- HW18Natural Gas Water Heater1.39 MMBtu/hr0.684HW11- HW18Natural Gas Water Heater4.24 MMBtu/hr2.09*HW22Natural Gas Water Heater4.24 MMBtu/hr0.79HW23- HW24Natural Gas Water Heater1.6 MMBtu/hr0.79HW24Natural Gas Water Heater1.1 MMBtu/hr0.54HW25Natural Gas Water Heater0.065 MMBtu/hr0.032HW27Natural Gas Water Heater0.076 MMBtu/hr0.038HW28Natural Gas Water Heater0.19 MMBtu/hr0.094HW29Natural Gas Water Heater1.98 MMBtu/hr0.98HW30A, BNatural Gas Water Heater1.98 MMBtu/hr0.98HW31A, BNatural Gas Water Heater1.98 MMBtu/hr0.98HW32A-ENatural Gas Water Heater0.68 MMBtu/hr0.24HW33A, BNatural Gas Water Heater0.68 MMBtu/hr0.24HW36Natural Gas Water Heater1.16 MMBtu/hr0.40HW36Natural Gas Water Heater1.06 MMBtu/hr0.37NG6Natural Gas Water Heater1.06 MMBtu/hr0.37NG6Natural Gas Emergency Generator0.60 MMBtu/hr0.014NG8Natural Gas Emergency Generator0.23 MMBtu/hr0.014NG20Natural Gas Emergency Generator0.34 MMBtu/hr0.017NG20Natural Gas Emergency Generator0.20 SMMBtu/hr0.100DG01Diesel Emergency Generator0.20 SMMBtu/hr0.100	НЗА-НЗЕ	Natural Gas Space Heater	4.6 MMBtu/hr	1.59*
HW8&HW11- HW18Natural Gas Water Heater4.24 MMBtu/hr2.09*HW22Natural Gas Water Heater1.6 MMBtu/hr0.79HW23- HW24Natural Gas Water Heater1.6 MMBtu/hr0.79HW24Natural Gas Water Heater0.065 MMBtu/hr0.032HW25Natural Gas Water Heater0.076 MMBtu/hr0.032HW27Natural Gas Water Heater0.076 MMBtu/hr0.038HW28Natural Gas Water Heater0.19 MMBtu/hr0.094HW29Natural Gas Water Heater0.20 MMBtu/hr0.098HW30A, BNatural Gas Water Heater1.98 MMBtu/hr0.98HW31A, BNatural Gas Water Heater9.25 MMBtu/hr0.98HW32A-ENatural Gas Water Heater9.25 MMBtu/hr0.24HW34A-CNatural Gas Water Heater0.68 MMBtu/hr0.24HW35Natural Gas Water Heater1.16 MMBtu/hr0.37NG6Natural Gas Water Heater1.06 MMBtu/hr0.029NG17Natural Gas Emergency Generator0.60 MMBtu/hr0.014NG8Natural Gas Emergency Generator0.20 MMBtu/hr0.014NG20Natural Gas Emergency Generator0.20 MMBtu/hr0.017NG20Natural Gas Emergency Generator0.20 MMBtu/hr0.010DG01Diesel Emergency Generator0.20 MMBtu/hr0.010DG01Diesel Emergency Generator0.20 MMBtu/hr0.010	HW1-	Natural Gas Water Heater	1.39 MMBtu/hr	0.684
HW11- HW18Natural Gas Water Heater4.24 MMBtu/hr2.09*HW22Natural Gas Water Heater1.6 MMBtu/hr0.79HW23- HW24Natural Gas Water Heater1.6 MMBtu/hr0.79HW25Natural Gas Water Heater0.065 MMBtu/hr0.032HW27Natural Gas Water Heater0.076 MMBtu/hr0.032HW28Natural Gas Water Heater0.076 MMBtu/hr0.038HW29Natural Gas Water Heater0.19 MMBtu/hr0.094HW29Natural Gas Water Heater1.98 MMBtu/hr0.98HW30A, BNatural Gas Water Heater1.98 MMBtu/hr0.98HW31A, BNatural Gas Water Heater9.25 MMBtu/hr0.24HW33A, BNatural Gas Water Heater0.68 MMBtu/hr0.24HW34A-CNatural Gas Water Heater1.16 MMBtu/hr0.37HW36Natural Gas Water Heater1.06 MMBtu/hr0.37NG6Natural Gas Emergency Generator0.60 MMBtu/hr0.029NG17Natural Gas Emergency Generator0.20 MMBtu/hr0.014NG8Natural Gas Emergency Generator0.20 MMBtu/hr0.100DG01Diesel Emergency Generator0.20 MMBtu/hr0.100	HW8 &			
HW18Natural Gas Water Heater4.24 MMBtu/hr2.09*HW22HW23-Natural Gas Water Heater1.6 MMBtu/hr0.79HW24HW25Natural Gas Water Heater1.1 MMBtu/hr0.54HW26Natural Gas Water Heater0.065 MMBtu/hr0.032HW27Natural Gas Water Heater0.076 MMBtu/hr0.038HW28Natural Gas Water Heater0.19 MMBtu/hr0.094HW29Natural Gas Water Heater0.20 MMBtu/hr0.098HW30A, BNatural Gas Water Heater1.98 MMBtu/hr0.98HW31A, BNatural Gas Water Heater9.25 MMBtu/hr0.98HW33A, BNatural Gas Water Heater0.68 MMBtu/hr0.24HW35Natural Gas Water Heater1.16 MMBtu/hr0.98HW34A-CNatural Gas Water Heater0.68 MMBtu/hr0.24HW35Natural Gas Water Heater1.06 MMBtu/hr0.24HW36Natural Gas Water Heater1.06 MMBtu/hr0.37NG6Natural Gas Emergency Generator0.60 MMBtu/hr0.016NG17Natural Gas Emergency Generator0.29 MMBtu/hr0.116NG20Natural Gas Emergency Generator0.24 MMBtu/hr0.017NG20Natural Gas Emergency Generator0.05 MMBtu/hr0.100DG01Diesel Emergency Generator2.05 MMBtu/hr0.100DG01Diesel Emergency Generator2.05 MMBtu/hr0.100				
HW19- HW22Natural Gas Water Heater4.24 MMBtu/hr2.09HW23- HW24Natural Gas Water Heater1.6 MMBtu/hr0.79HW241.1 MMBtu/hr0.54HW25Natural Gas Water Heater0.065 MMBtu/hr0.032HW27Natural Gas Water Heater0.065 MMBtu/hr0.038HW28Natural Gas Water Heater0.19 MMBtu/hr0.038HW29Natural Gas Water Heater0.19 MMBtu/hr0.094HW29Natural Gas Water Heater0.20 MMBtu/hr0.098HW30A, BNatural Gas Water Heater1.98 MMBtu/hr0.98HW31A, BNatural Gas Water Heater1.98 MMBtu/hr0.98HW32A-ENatural Gas Water Heater9.25 MMBtu/hr0.24HW33A, BNatural Gas Water Heater5.76 MMBtu/hr1.99*HW35Natural Gas Water Heater1.16 MMBtu/hr0.37HW36Natural Gas Water Heater1.06 MMBtu/hr0.37NG6Natural Gas Emergency Generator0.60 MMBtu/hr0.016NG17Natural Gas Emergency Generator0.29 MMBtu/hr0.017NG20Natural Gas Emergency Generator0.34 MMBtu/hr0.017NG20Natural Gas Emergency Generator0.34 MMBtu/hr0.100DG01Diesel Emergency Generator107 hn0.19		Natural Gas Water Heater	4 24 MARtu /br	2.00*
HW22- HW24Natural Gas Water Heater1.6 MMBtu/hr0.79HW241.1 MMBtu/hr0.54HW25Natural Gas Water Heater0.065 MMBtu/hr0.032HW26Natural Gas Water Heater0.065 MMBtu/hr0.032HW27Natural Gas Water Heater0.076 MMBtu/hr0.038HW28Natural Gas Water Heater0.19 MMBtu/hr0.094HW29Natural Gas Water Heater0.20 MMBtu/hr0.098HW30A, BNatural Gas Water Heater1.98 MMBtu/hr0.98HW31A, BNatural Gas Water Heater1.98 MMBtu/hr0.98HW32A-ENatural Gas Water Heater9.25 MMBtu/hr0.24HW33A, BNatural Gas Water Heater0.68 MMBtu/hr0.24HW34A-CNatural Gas Water Heater1.16 MMBtu/hr0.40HW35Natural Gas Water Heater1.06 MMBtu/hr0.37NG6Natural Gas Water Heater1.06 MMBtu/hr0.029NG17Natural Gas Emergency Generator0.60 MMBtu/hr0.116NG18Natural Gas Emergency Generator0.20 MMBtu/hr0.014NG8Natural Gas Emergency Generator0.34 MMBtu/hr0.017NG20Natural Gas Emergency Generator0.34 MMBtu/hr0.100DG01Diesel Emergency Generator107 hn0.19	HW19-	Natural Gas Water Heater	4.24 101018(0/11	2.09
HW22Historial Gas Water HeaterH.0 MMBtu/hr0.73HW241.1 MMBtu/hr0.54HW25Natural Gas Water Heater0.065 MMBtu/hr0.032HW26Natural Gas Water Heater0.076 MMBtu/hr0.038HW27Natural Gas Water Heater0.19 MMBtu/hr0.094HW29Natural Gas Water Heater0.19 MMBtu/hr0.098HW29Natural Gas Water Heater0.20 MMBtu/hr0.98HW30A, BNatural Gas Water Heater1.98 MMBtu/hr0.98HW31A, BNatural Gas Water Heater1.98 MMBtu/hr0.98HW32A-ENatural Gas Water Heater9.25 MMBtu/hr0.24HW33A, BNatural Gas Water Heater0.68 MMBtu/hr0.24HW34A-CNatural Gas Water Heater1.16 MMBtu/hr0.40HW35Natural Gas Water Heater1.06 MMBtu/hr0.37NG6Natural Gas Emergency Generator0.60 MMBtu/hr0.029NG17Natural Gas Emergency Generator0.60 MMBtu/hr0.116NG8Natural Gas Emergency Generator0.20 MMBtu/hr0.017NG20Natural Gas Emergency Generator0.34 MMBtu/hr0.017NG20Natural Gas Emergency Generator0.34 MMBtu/hr0.100DG01Diesel Emergency Generator107 hn0.19	HW22	Natural Gas Water Heater	1.6 MMBtu/br	0.79
HW25Natural Gas Water Heater1.1 MMBtu/hr0.54HW26Natural Gas Water Heater0.065 MMBtu/hr0.032HW27Natural Gas Water Heater0.076 MMBtu/hr0.038HW28Natural Gas Water Heater0.19 MMBtu/hr0.094HW29Natural Gas Water Heater0.20 MMBtu/hr0.098HW30A, BNatural Gas Water Heater1.98 MMBtu/hr0.98HW31A, BNatural Gas Water Heater1.98 MMBtu/hr0.98HW32A-ENatural Gas Water Heater9.25 MMBtu/hr0.24HW33A, BNatural Gas Water Heater0.68 MMBtu/hr0.24HW34A-CNatural Gas Water Heater5.76 MMBtu/hr1.99*HW35Natural Gas Water Heater1.16 MMBtu/hr0.40HW36Natural Gas Water Heater1.06 MMBtu/hr0.37NG6Natural Gas Emergency Generator0.60 MMBtu/hr0.029NG17Natural Gas Emergency Generator0.60 MMBtu/hr0.116NG8Natural Gas Emergency Generator0.34 MMBtu/hr0.017NG20Natural Gas Emergency Generator2.05 MMBtu/hr0.100DG01Diesel Emergency Generator0.107 hp0.19	HW/24	Natural Gas Water Heater	1.0 WWBtd/m	0.75
HW26Natural Gas Water Heater0.065 MMBtu/hr0.031HW27Natural Gas Water Heater0.065 MMBtu/hr0.038HW27Natural Gas Water Heater0.19 MMBtu/hr0.094HW28Natural Gas Water Heater0.19 MMBtu/hr0.098HW29Natural Gas Water Heater0.20 MMBtu/hr0.098HW30A, BNatural Gas Water Heater1.98 MMBtu/hr0.98HW31A, BNatural Gas Water Heater1.98 MMBtu/hr0.98HW32A-ENatural Gas Water Heater9.25 MMBtu/hr0.24HW33A, BNatural Gas Water Heater0.68 MMBtu/hr0.24HW34A-CNatural Gas Water Heater5.76 MMBtu/hr1.99*HW35Natural Gas Water Heater1.16 MMBtu/hr0.40HW36Natural Gas Water Heater1.06 MMBtu/hr0.37NG6Natural Gas Emergency Generator0.60 MMBtu/hr0.029NG17Natural Gas Emergency Generator0.60 MMBtu/hr0.116NG8Natural Gas Emergency Generator0.29 MMBtu/hr0.014NG8Natural Gas Emergency Generator0.34 MMBtu/hr0.017NG20Natural Gas Emergency Generator2.05 MMBtu/hr0.100DG01Diesel Emergency Generator107 hp0.19	HW25	Natural Gas Water Heater	1 1 MMBtu/br	0 54
HW22Natural Gas Water Heater0.0076 MMBtu/hr0.038HW28Natural Gas Water Heater0.19 MMBtu/hr0.094HW29Natural Gas Water Heater0.20 MMBtu/hr0.098HW30A, BNatural Gas Water Heater1.98 MMBtu/hr0.98HW31A, BNatural Gas Water Heater1.98 MMBtu/hr0.98HW31A, BNatural Gas Water Heater1.98 MMBtu/hr0.98HW32A-ENatural Gas Water Heater9.25 MMBtu/hr3.20HW33A, BNatural Gas Water Heater0.68 MMBtu/hr0.24HW34A-CNatural Gas Water Heater5.76 MMBtu/hr1.99*HW35Natural Gas Water Heater1.16 MMBtu/hr0.40HW36Natural Gas Water Heater1.06 MMBtu/hr0.37NG6Natural Gas Emergency Generator0.60 MMBtu/hr0.029NG17Natural Gas Emergency Generator0.60 MMBtu/hr0.116NG18Natural Gas Emergency Generator0.29 MMBtu/hr0.014NG20Natural Gas Emergency Generator2.05 MMBtu/hr0.100DG01Diesel Emergency Generator107 hp0.19	HW26	Natural Gas Water Heater	0.065 MMBtu/br	0.032
HW22Natural Gas Water Heater0.09 MMBtu/hr0.094HW28Natural Gas Water Heater0.19 MMBtu/hr0.098HW29Natural Gas Water Heater0.20 MMBtu/hr0.98HW30A, BNatural Gas Water Heater1.98 MMBtu/hr0.98HW31A, BNatural Gas Water Heater1.98 MMBtu/hr0.98HW32A-ENatural Gas Water Heater9.25 MMBtu/hr3.20HW33A, BNatural Gas Water Heater0.68 MMBtu/hr0.24HW34A-CNatural Gas Water Heater5.76 MMBtu/hr1.99*HW35Natural Gas Water Heater1.16 MMBtu/hr0.40HW36Natural Gas Water Heater1.06 MMBtu/hr0.37NG6Natural Gas Emergency Generator0.60 MMBtu/hr0.029NG17Natural Gas Emergency Generator0.60 MMBtu/hr0.116NG18Natural Gas Emergency Generator0.29 MMBtu/hr0.014NG20Natural Gas Emergency Generator2.05 MMBtu/hr0.100DG01Diesel Emergency Generator107 hn0.19	HW27	Natural Gas Water Heater		0.032
HW29Natural Gas Water Heater0.20 MMBtu/hr0.098HW30A, BNatural Gas Water Heater1.98 MMBtu/hr0.98HW31A, BNatural Gas Water Heater1.98 MMBtu/hr0.98HW32A-ENatural Gas Water Heater9.25 MMBtu/hr3.20HW33A, BNatural Gas Water Heater0.68 MMBtu/hr0.24HW34A-CNatural Gas Water Heater0.68 MMBtu/hr1.99*HW35Natural Gas Water Heater1.16 MMBtu/hr0.40HW36Natural Gas Water Heater1.06 MMBtu/hr0.37NG6Natural Gas Emergency Generator0.60 MMBtu/hr0.029NG17Natural Gas Emergency Generator0.60 MMBtu/hr0.116NG8Natural Gas Emergency Generator0.34 MMBtu/hr0.014NG8Natural Gas Emergency Generator2.05 MMBtu/hr0.100DG01Diesel Emergency Generator107 hn0.19	HW28	Natural Gas Water Heater	0.19 MMBtu/hr	0.094
HW30A, BNatural Gas Water Heater1.98 MMBtu/hr0.98HW31A, BNatural Gas Water Heater1.98 MMBtu/hr0.98HW31A, BNatural Gas Water Heater9.25 MMBtu/hr3.20HW32A-ENatural Gas Water Heater0.68 MMBtu/hr0.24HW33A, BNatural Gas Water Heater0.68 MMBtu/hr0.24HW34A-CNatural Gas Water Heater5.76 MMBtu/hr1.99*HW35Natural Gas Water Heater1.16 MMBtu/hr0.40HW36Natural Gas Water Heater1.06 MMBtu/hr0.37NG6Natural Gas Emergency Generator0.60 MMBtu/hr0.029NG17Natural Gas Emergency Generator0.60 MMBtu/hr0.116NG8Natural Gas Emergency Generator0.34 MMBtu/hr0.014NG20Natural Gas Emergency Generator2.05 MMBtu/hr0.100DG01Diesel Emergency Generator107 hn0.19	HW29	Natural Gas Water Heater	0.20 MMBtu/hr	0.098
HW31A, BNatural Gas Water Heater1.98 MMBtu/hr0.98HW32A-ENatural Gas Water Heater9.25 MMBtu/hr3.20HW33A, BNatural Gas Water Heater0.68 MMBtu/hr0.24HW34A-CNatural Gas Water Heater5.76 MMBtu/hr1.99*HW35Natural Gas Water Heater1.16 MMBtu/hr0.40HW36Natural Gas Water Heater1.06 MMBtu/hr0.37NG6Natural Gas Emergency Generator0.60 MMBtu/hr0.029NG17Natural Gas Emergency Generator0.60 MMBtu/hr0.116NG8Natural Gas Emergency Generator0.34 MMBtu/hr0.014NG8Natural Gas Emergency Generator0.34 MMBtu/hr0.017NG20Natural Gas Emergency Generator0.017 hn0.100DG01Diesel Emergency Generator107 hn0.19	HW30A, B	Natural Gas Water Heater	1.98 MMBtu/hr	0.98
HW32A-ENatural Gas Water Heater9.25 MMBtu/hr3.20HW33A, BNatural Gas Water Heater0.68 MMBtu/hr0.24HW33A, CNatural Gas Water Heater5.76 MMBtu/hr1.99*HW35Natural Gas Water Heater1.16 MMBtu/hr0.40HW36Natural Gas Water Heater1.06 MMBtu/hr0.37NG6Natural Gas Emergency Generator0.60 MMBtu/hr0.029NG17Natural Gas Emergency Generator0.60 MMBtu/hr0.116NG8Natural Gas Emergency Generator0.29 MMBtu/hr0.014NG8Natural Gas Emergency Generator0.34 MMBtu/hr0.017NG20Natural Gas Emergency Generator2.05 MMBtu/hr0.100DG01Diesel Emergency Generator107 hn0.19	HW31A, B	Natural Gas Water Heater	1.98 MMBtu/hr	0.98
HW33A, B Natural Gas Water Heater 0.68 MMBtu/hr 0.24 HW33A, C Natural Gas Water Heater 5.76 MMBtu/hr 1.99* HW35 Natural Gas Water Heater 1.16 MMBtu/hr 0.40 HW36 Natural Gas Water Heater 1.06 MMBtu/hr 0.37 NG6 Natural Gas Emergency Generator 0.60 MMBtu/hr 0.029 NG17 Natural Gas Emergency Generator 0.60 MMBtu/hr 0.116 NG18 Natural Gas Emergency Generator 0.29 MMBtu/hr 0.014 NG8 Natural Gas Emergency Generator 0.34 MMBtu/hr 0.017 NG20 Natural Gas Emergency Generator 2.05 MMBtu/hr 0.100 DG01 Diesel Emergency Generator 107 hp 0.19	HW32A-E	Natural Gas Water Heater	9.25 MMBtu/hr	3.20
HW34A-CNatural Gas Water Heater5.76 MMBtu/hr1.99*HW35Natural Gas Water Heater1.16 MMBtu/hr0.40HW36Natural Gas Water Heater1.06 MMBtu/hr0.37NG6Natural Gas Emergency Generator0.60 MMBtu/hr0.029NG17Natural Gas Emergency Generator0.60 MMBtu/hr0.116NG8Natural Gas Emergency Generator0.29 MMBtu/hr0.014NG8Natural Gas Emergency Generator0.34 MMBtu/hr0.017NG20Natural Gas Emergency Generator2.05 MMBtu/hr0.100DG01Diesel Emergency Generator107 hp0.19	HW33A, B	Natural Gas Water Heater	0.68 MMBtu/hr	0.24
HW35 Natural Gas Water Heater 1.16 MMBtu/hr 0.40 HW36 Natural Gas Water Heater 1.06 MMBtu/hr 0.37 NG6 Natural Gas Emergency Generator 0.60 MMBtu/hr 0.029 NG17 Natural Gas Emergency Generator 0.60 MMBtu/hr 0.116 NG18 Natural Gas Emergency Generator 0.29 MMBtu/hr 0.014 NG8 Natural Gas Emergency Generator 0.34 MMBtu/hr 0.017 NG20 Natural Gas Emergency Generator 2.05 MMBtu/hr 0.100 DG01 Diesel Emergency Generator 107 hp 0.19	HW34A-C	Natural Gas Water Heater	5.76 MMBtu/hr	1.99*
HW36 Natural Gas Water Heater 1.06 MMBtu/hr 0.37 NG6 Natural Gas Emergency Generator 0.60 MMBtu/hr 0.029 NG17 Natural Gas Emergency Generator 0.60 MMBtu/hr 0.116 NG18 Natural Gas Emergency Generator 0.29 MMBtu/hr 0.014 NG8 Natural Gas Emergency Generator 0.34 MMBtu/hr 0.017 NG20 Natural Gas Emergency Generator 2.05 MMBtu/hr 0.100 DG01 Diesel Emergency Generator 107 hp 0.19	HW35	Natural Gas Water Heater	1.16 MMBtu/hr	0.40
NG6 Natural Gas Emergency Generator 0.60 MMBtu/hr 0.029 NG17 Natural Gas Emergency Generator 0.60 MMBtu/hr 0.116 NG18 Natural Gas Emergency Generator 0.29 MMBtu/hr 0.014 NG8 Natural Gas Emergency Generator 0.34 MMBtu/hr 0.017 NG20 Natural Gas Emergency Generator 2.05 MMBtu/hr 0.100 DG01 Diesel Emergency Generator 107 hn 0.19	HW36	Natural Gas Water Heater	1.06 MMBtu/hr	0.37
NG17 Natural Gas Emergency Generator 0.60 MMBtu/hr 0.116 NG18 Natural Gas Emergency Generator 0.29 MMBtu/hr 0.014 NG8 Natural Gas Emergency Generator 0.34 MMBtu/hr 0.017 NG20 Natural Gas Emergency Generator 2.05 MMBtu/hr 0.100 DG01 Diesel Emergency Generator 107 hp 0.19	NG6	Natural Gas Emergency Generator	0.60 MMBtu/hr	0.029
NG18 Natural Gas Emergency Generator 0.29 MMBtu/hr 0.014 NG8 Natural Gas Emergency Generator 0.34 MMBtu/hr 0.017 NG20 Natural Gas Emergency Generator 2.05 MMBtu/hr 0.100 DG01 Diesel Emergency Generator 107 hp 0.19	NG17	Natural Gas Emergency Generator	0.60 MMBtu/hr	0.116
NG8 Natural Gas Emergency Generator 0.34 MMBtu/hr 0.017 NG20 Natural Gas Emergency Generator 2.05 MMBtu/hr 0.100 DG01 Diesel Emergency Generator 107 hp 0.19	NG18	Natural Gas Emergency Generator	0.29 MMBtu/hr	0.014
NG20 Natural Gas Emergency Generator 2.05 MMBtu/hr 0.100 DG01 Diesel Emergency Generator 107 hp 0.19	NG8	Natural Gas Emergency Generator	0.34 MMBtu/hr	0.017
DG01 Diesel Emergency Generator 107 hp 0.10	NG20	Natural Gas Emergency Generator	2.05 MMBtu/hr	0.100
	DG01	Diesel Emergency Generator	107 hp	0.19

Table 3 Facility Sources Exempt from RACT II per PA Code 129.96(c) {< 1 TPY NOx}</th>

Source	Description	Rating	NO _X PTE
ID			(TPY)
DG02	Diesel Emergency Generator	67 hp	0.12
DG03	Diesel Emergency Generator	268 hp	0.48
DG06	Diesel Emergency Generator	335 hp	0.60
DG07	Diesel Emergency Generator	80 hp	0.14
DG08	Diesel Emergency Generator	168 hp	0.30
DG09	Diesel Emergency Generator	134 hp	0.96
DG10	Diesel Emergency Generator	268 hp	0.48
DG11	Diesel Emergency Generator	34 hp	0.06
DG12	Diesel Emergency Generator	235 hp	0.42
DG13	Diesel Emergency Generator	402 hp	0.72
DG14	Diesel Emergency Generator	308 hp	0.55
DG16	Diesel Emergency Generator	107 hp	0.76
DG18	Diesel Emergency Generator	101 hp	0.18
DG19	Diesel Emergency Generator	268 hp	0.48
DG21	Diesel Emergency Generator	335 hp	0.60
DG22	Diesel Emergency Generator	134 hp	0.24
DG23	Diesel Emergency Generator	201 hp	0.36
DG24	Diesel Emergency Generator	369 hp	0.66
DG25	Diesel Emergency Generator	268 hp	0.48
DG26	Diesel Emergency Generator	536 hp	0.96
DG27	Diesel Emergency Generator	308 hp	0.55
DG28	Diesel Emergency Generator	355 hp	0.63
DG30	Diesel Emergency Generator	536 hp	0.96
DG31	Diesel Emergency Generator	110 hp	0.20
DG32	Diesel Emergency Generator	87 hp	0.16
DG34	Diesel Emergency Generator	536 hp	0.96
DG35	Diesel Emergency Generator	47 hp	0.08
DG36	Diesel Emergency Generator	134 hp	0.24
DG37	Diesel Emergency Generator	83 hp	0.15
DG42	Diesel Emergency Generator	536 hp	0.96
DG45	Diesel Emergency Generator	168 hp	0.30
DG46	Diesel Emergency Generator	308 hp	0.55
DG48	Diesel Emergency Generator	107 hp	0.19
DG50	Diesel Emergency Generator	402 hp	0.72
DG51	Diesel Emergency Generator	21 hp	0.04
DG52	Diesel Emergency Generator	15 hp	0.03
DG53	Diesel Emergency Generator	9 hp	0.02
DG60	Diesel Emergency Generator	80 hp	0.57
DG62	Diesel Emergency Generator	134 hp	0.96
DG64	Diesel Emergency Generator	201 hp	0.36
DG65	Diesel Emergency Generator	134 hp	0.24
DG66	Diesel Emergency Generator	87 hp	0.16
DG67	Diesel Emergency Generator	268 hp	0.48
DG68	Diesel Emergency Generator	335 hp	0.60
DG69	Diesel Emergency Generator	402 hp	0.72
DG70	Diesel Emergency Generator	268 hp	0.48
DG71	Diesel Emergency Generator	398 hp	0.13
DG72	Diesel Emergency Generator	900 hp	0.63
DG73	Diesel Emergency Generator	520 hp	0.25
DG74	Diesel Emergency Generator	1,135 hp	0.74
DG75	Diesel Emergency Generator	168 hp	0.30
DG76	Diesel Emergency Generator	134 hp	0.24
1004	Natural Gas Incinerator	5 MMBtu/hr	0.53

*Individual units are less than 1 TPY

A.2 RACT Determination for University of Pittsburgh

IV. <u>RACT Determination</u>

All sources at the facility either meet Presumptive RACT II requirements in PA Code 129.97 or are exempt as per PA Code 129.96(c).

Boilers B48-1 through B48-6 meet BACT requirements. Boilers B23A-C, B55A-B, and B56A-B meet presumptive RACT II requirements per PA Code 129.97(c)(3). The boilers in Table 3 are exempt from RACT II per PA Code 129.97(c)(1).

Laboratory fume hood emissions are negligible.

V. New and Revised RACT II IP/OP Permit Conditions

All sources at the facility either meet Presumptive RACT II requirements in PA Code 129.97 or are exempt as per PA Code 129.96(c). The Title V permit will be revised to add the appropriate PA RACT II regulation citations for each of these sources.

The following conditions were cited for compliance Presumptive RACT (25 Pa. Code, §129.97(c)(1)):

TVOP #0647-OP19	
V.G.1.a, c, m	V.G.6

The following conditions were cited for compliance with Presumptive RACT (25 Pa. Code, §129. 97(c)(3)):

TVOP #0647-OP19	
V.B.1.e	V.C.1.d
V.B.6	V.C.6

The following conditions were cited for compliance with Presumptive RACT (25 Pa. Code, §129. 97(c)(8)):

TVOP #0647-OP19	
V.E.1.c, d, g, j, k, m, n	V.F.1.b
V.E.6	V.F.6

The following conditions were cited for compliance with Presumptive RACT (25 Pa. Code, §129. 97(g)(1)(i)):

TVOP #0647-OP19	
V.D.1.o, v	V.D.6.a