

BUREAU OF AIR MANAGEMENT TITLE V OPERATING PERMIT

Issued pursuant to Title 22a of the Connecticut General Statutes (CGS) and Section 22a-174-33 of the Regulations of Connecticut State Agencies (RCSA) and pursuant to the Code of Federal Regulations (CFR), Title 40, Part 70.

Title V Permit Number	098-0029-TV
Client/Sequence/Town/Premises Numbers	1138/1/98/15
Date Issued	May 20, 2019
Minor Modification Issue Date	April 28, 2022
Expiration Date	May 20, 2024

Corporation:

The University of Connecticut – Storrs Campus

Premises Location:

25 LeDoyt Road, Storrs, CT 06269-3252

Name of Responsible Official and Title:

Radenka Maric, Interim President

All the following attached pages, 2 through 110, are hereby incorporated by reference into this Title V permit.

Katherine S. Dykes Commissioner April 28, 2022

Date

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Title V Operating Permit

All conditions in Sections III, IV, and VI of this Title V permit are enforceable by both the Administrator and the commissioner unless otherwise specified. Applicable requirements and compliance demonstration are set forth in Section III of this Title V permit. The Administrator or any citizen of the United States may bring an action to enforce all permit terms or conditions or requirements contained in Sections III, IV, and VI of this Title V permit in accordance with the Clean Air Act, as amended.

LIST OF ABBREVIATIONS/ACRONYMS

Abbreviation/Acronym

Description

ccfOne hundred cubic feetCEMContinuous Emission MonitorCFRCode of Federal RegulationsCGSConnecticut General Statutes

CO Carbon Monoxide

P Construction Permit/Operating Permit

DEEP Department of Energy and Environmental Protection

EDR Emergency Demand Response

EO&M Emergency, Operational & Maintenance EPA Environmental Protection Agency

EU Emissions Unit ft³/hr Feet cube per hour

gm/bk hp-hr Grams per brake horsepower hour

GEU Grouped Emissions Unit
GHG Green House Gases
HAP Hazardous Air Pollutant

HC Hydrocarbon hp Horsepower hr Hour

HVAC Heating, Ventilation and Air Conditioning

kW Kilowatt

kWe Electrical power output in Kilowatts

lb Pound

LPG Liquefied Petroleum Gas
MMBtu Million British Thermal Units

MMcf Million Cubic Feet
MMft³ Million cubic feet
MW Megawatts
NG Natural Gas

NO_x Natural Gas
NO_x Nitrogen Oxides
NSR New Source Review

 $\begin{array}{ccc} O_2 & & Oxygen \\ P & & Permit \\ Pb & & Lead \end{array}$

PM Particulate Matter

 $\begin{array}{ccc} PM_{10} & Particulate \ Matter \ less \ than \ 10 \ microns \\ PM_{2.5} & Particulate \ Matter \ less \ than \ 2.5 \ microns \\ ppmvd & Parts \ per \ million, \ volumetric \ basis \ dry \\ \end{array}$

R Registration

RCSA Regulations of Connecticut State Agencies
RICE Reciprocating Internal Combustion Engine

scf Standard cubic feet SI Spark Ignition

SIC Standard Industrial Classification Code

SO₂ Sulfur Dioxide SOx Sulfur Oxides

LIST OF ABBREVIATIONS/ACRONYMS, continued

Abbreviation/Acronym	Description
SOS	Standard Operating Scenario
TPY	Tons per year
TSP	Total Suspended Particulate
ULSD	Ultra Low Sulfur Diesel
VOC	Volatile Organic Compound
WPCF	Water Pollution Control Facility

Section I: Premises Information/Description

A. PREMISES INFORMATION

Nature of Business: The University of Connecticut

Primary SIC: 8221

Facility Mailing Address: 25 LeDoyt Road, Unit 3252, Storrs, CT 06269-3252

Telephone Number: (860) 486-2000

B. PREMISES DESCRIPTION

The University of Connecticut (UCONN), Storrs Campus is an institution of higher education offering both graduate and undergraduate courses of study. The campus includes laboratories, classrooms, administrative offices, and residential buildings as well as other buildings and areas associated with the operation of a university such as a wastewater treatment facility, central utility plant, cogeneration facility, infirmary, various places of worship, library, and sports facilities.

UCONN is a Title V source located in a serious ozone non-attainment area as defined in RCSA section 22a-174-1.

UCONN is a **major source for NOx, VOC, CO, SOx, PM, PM**₁₀, and **GHG**. Because particle size data and specific $PM_{2.5}$ emission factors are not available for many of UCONN's emissions sources, it is conservatively assumed that all PM emissions are in the form of $PM_{2.5}$ and that UCONN is, therefore, also a major source of $PM_{2.5}$.

Permit Nos. 098-0056, 098-0061 and 098-0062 were originally issued on September 13, 2004 and have a Premises Wide Emission Cap for HAPs limiting annual HAP emissions for the premises to less than 10 TPY of a single HAP and less than 25 TPY of any combination of HAPs. As such UCONN is considered an **area source for HAPs**.

The air emissions units located at the premises with source specific applicable requirements are as follows:

Central Utility Plant:

- Two boilers (Boiler 1 and 2) operating under Permit Nos. 098-0063 and 098-0064 and subject to 40 CFR Part 60 Subpart Db Standards of Performance for Industrial, Commercial, Institutional Steam Generating Units and 40 CFR Part 63 Subpart JJJJJ National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial and Institutional Boilers for Area Sources (EU-1442 and EU-1443).
- One registered boiler (Boiler 7) operating under Consent Order No. 8311, Modification 2. This order restricts the maximum operating capacity of Boiler 7. This boiler is subject to 40 CFR Part 63 Subpart JJJJJ National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources (EU-17).
- Boiler No. 9 operating under Permit No. 098-0026 and subject to 40 CFR Part 60 Subpart Db Standards of Performance for Industrial, Commercial, Institutional Steam Generating Units and 40 CFR Part 63 Subpart JJJJJ National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial and Institutional Boilers for Area Sources (EU-558).
- Two 1,250 kW diesel fired emergency engines subject to the requirements of 40 CFR Part 63 Subpart ZZZZ – National Emission Standard for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (EU-565, EU-566).
- One 1,500 kW emergency diesel engine which provides black-start emergency power to the Cogeneration Facility. This black-start emergency engine is subject to the requirements of 40

Section I: Premises Information/Description

- CFR Part 63 Subpart ZZZZ National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (EU-598).
- Four TECOCHILL CH-400 units, each driven by two natural gas fired non-emergency engines. The engines are subject to 40 CFR Part 60 Subpart JJJJ Standards of Performance for Stationary Spark Ignition Internal Combustion Engines (EU-1436, EU-1437, EU-1438, EU-1439).

Supplemental Utility Plant:

One boiler (Boiler 10) operating under Permit No. 098-0065 and subject to 40 CFR Part 60 Subpart Db – Standards of Performance for Industrial, Commercial, Institutional Steam Generating Units and 40 CFR Part 63 Subpart JJJJJ – National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial and Institutional Boilers For Area Sources (EU-1444).

The South Campus Chiller Plant:

One natural gas fired chiller non-emergency engine and one diesel fired emergency engine. The
engines are subject to 40 CFR Part 63 Subpart ZZZZ – National Emission Standards for
Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (EU-569,
EU-579).

The Cogeneration Facility:

• Three combustion turbines each with a corresponding duct burner. The combustion turbines are subject to 40 CFR Part 60 Subpart GG – Standards of Performance for Stationary Gas Turbines; while the duct burners are subject to 40 CFR Part 60 Subpart Dc – Standards of Performance for Small Industrial, Commercial, Institutional Steam Generating Units (EU-600, EU-601, EU-602).

Water Pollution Control Facility:

 Oil fired boiler subject to 40 CFR Part 63 Subpart JJJJJJ – National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial and Institutional Boilers Area Sources (EU-549).

Additionally, UCONN operates several emergency engines under NSR permits or RCSA section 22a-174-3b. The emergency engines may be subject to one of the following federal regulations:

- 40 CFR Part 63 Subpart ZZZZ;
- 40 CFR Part 60 Subpart IIII; or
- 40 CFR Part 60 Subpart JJJJ.

At the Motor Pool, gasoline and diesel fuel are stored and dispensed for use in campus vehicles. The fuel distribution operations are subject to RCSA sections 22a-174-20, 22a-174-30a and 40 CFR Part 63 Subpart CCCCCC – National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities (EU-551).

UCONN also operates a reclaimed water facility, a "less than 90 day" hazardous waste storage facility, HVAC cooling towers and a woodworking shop.

A. EMISSIONS UNITS DESCRIPTION

Emissions units are set forth in Table II.A. It is not intended to incorporate by reference these NSR Permits, Orders, Registrations, or Regulations into this Title V permit.

	TABLE II.A: EMISSIONS UNITS DESCRIPTION			
Emissions Unit/ Grouped Emissions Units	Emissions Unit Description	Control Unit Description	Permit, Order, Registration, or Regulation Number	
EU-1	3.88 MMBtu/hr (350 kWe/568 hp) Kohler Model 350 ROZD emergency engine	N/A	P 098-0011	
	Construction date: 1992		RCSA §22a-174-22e	
	Beach Building		40 CFR Part 63 Subpart ZZZZ	
EU-2	6.65 MMBtu/hr (600 kWe/947 hp) Kohler Model 600 ROZD 81 emergency engine	N/A	P 098-0012	
			RCSA §22a-174-22e	
	Construction date: 1992		40 CFR Part 63 Subpart	
	School of Psychology		ZZZZ	
777.2	1.55 MMBtu/hr (150 kWe/250 hp) Kohler	N/A	P 098-0015	
EU-5	Model 150 ROZD emergency engine Construction date: 1993		40 CFR Part 63 Subpart ZZZZ	
	Biobehavioral Building No. 4 Annex			
	2.40 MMBtu/hr (200 kWe/335 hp*) Cummins	N/A	P 098-0018	
EU-8	Model NT-855GS2 emergency engine			
	Construction date: 1990		40 CFR Part 63 Subpart ZZZZ	
	Gampel Pavilion			
	4.6 MMBtu/hr (400 kWe/643 hp) Kohler	N/A	P 098-0019	
EU-9	Model 400 ROZD 71 emergency engine			
			RCSA §22a-174-22e	
	Construction date: 1993		40 CED D 1 60 C 1	
	Fenton River Well Field		40 CFR Part 63 Subpart ZZZZ	
	81.05 MMBtu/hr on Natural Gas	N/A	R 098-0020-R	
EU-17	98.95 MMBtu/hr on No. 2 Fuel Oil		RCSA §22a-174-22e	
	Bigelow Boiler No. 7 - Serial No. 13001		D 000 002 5	
	Construction date: 1971		P 098-0026 Collateral Conditions	
	Central Utility Plant			

TABLE II.A: EMISSIONS UNITS DESCRIPTION			
Emissions Unit/ Grouped Emissions Units	Emissions Unit Description	Control Unit Description	Permit, Order, Registration, or Regulation Number
			Consent Order No. 8311 Mod 2
			110. 0311 11100 2
			40 CFR Part 63 Subpart JJJJJJ
EU-19	2.50 MMBtu/hr (170 kWe/285 hp*) Onan	N/A	40 CFR Part 63 Subpart
	emergency engine		ZZZZ
	Construction date: pre-1989		
	Biobehavioral Building No. 4		
EU-20	0.60 MMBtu/hr (30 kWe/50 hp*) Onan	N/A	40 CFR Part 63 Subpart
	emergency engine		ZZZZ
	Construction date: 1971		
	Ellsworth Hall		
EU-23	1.06 MMBtu/hr (100kWe/168 hp) Kohler	N/A	40 CFR Part 63 Subpart
	emergency engine		ZZZZ
	Construction date: pre-1989		
	Communication and the contraction		
_	Atwater Laboratory		
EU-27	0.18 MMBtu/hr (15 kWe/25 hp*) Onan	N/A	40 CFR Part 63
	emergency engine		Subpart ZZZZ
	Construction date: 1955		
EU-30	Hollister Hall 1.81 MMBtu/hr (100 kWe/220 hp) Cummins	N/A	40 CED Dort 62 Subport
EU-30	emergency engine	IN/A	40 CFR Part 63 Subpart ZZZZ
	emergency engine		
	Construction date: 1995		
	Facilities Management		
EU-42	0.18 MMBtu/hr (15 kWe/25 hp*) Onan	N/A	40 CFR Part 63 Subpart
	emergency engine		ZZZZ
	Construction date: 1970		
	New Fine Arts Building		
EU-48	1.2 MMBtu/hr (80 kWe/150 hp) Kohler	N/A	40 CFR Part 63 Subpart
	emergency engine		ZZZZ

	TABLE II.A: EMISSIONS UNITS DESCRIPTION			
Emissions Unit/ Grouped Emissions Units	Emissions Unit Description	Control Unit Description	Permit, Order, Registration, or Regulation Number	
	Construction date: 1974			
	Whitney Hall	NT/A	DCGA 800 174 01 ()	
EU-54	2.63 MMBtu/hr (230 kWe/370 hp) Kohler 230ROZD emergency engine	N/A	RCSA §22a-174-3b(e)	
EU-34	Serial No. 273354		40 CFR Part 63 Subpart	
	Serial 1(0, 27333)		ZZZZ	
	Construction date: 1991			
	~			
	Commissary Warehouse	N/A	DCSA \$220 174 2h(a)	
EU-55	5.38 MMBtu/hr (500 kWe/749 hp) Caterpillar 3412 emergency engine	IN/A	RCSA §22a-174-3b(e) RCSA §22a-174-22e	
20 33	Serial No. 81Z17892		10011 3224 17 1 220	
			40 CFR Part 63 Subpart	
	Construction date: 1996		ZZZZ	
	Thomas J. Dodd Research Center			
	2.93 MMBtu/hr (250 kWe/419 hp*) Cummins	N/A	40 CFR Part 63 Subpart	
EU-56	emergency engine	1,712	ZZZZ	
	Construction date: 1988			
	Student Health Services			
	2.93 MMBtu/hr (250 kWe/419 hp*) Onan	N/A	40 CFR Part 63 Subpart	
EU-57	emergency engine	- ,,	ZZZZ	
	Construction date: 1970			
	Institute of Materials Science			
EU-59	0.29 MMBtu/hr (25 kWe/66 hp) Kohler	N/A	40 CFR Part 63 Subpart	
20 07	emergency engine	1,712	ZZZZ	
	Construction date: 1953			
	Jorgensen Auditorium			
	4.7 MMBtu/hr (500 kW/838 hp*) Onan 500	N/A	P 098-0054	
EU-63	DFFB emergency engine	- "		
			RCSA §22a-174-22e	
	Construction date: 1995		40 CED D : 62 C 1	
	Woton Dollution Control Engility		40 CFR Part 63 Subpart ZZZZ	
	Water Pollution Control Facility			

	TABLE II.A: EMISSIONS UNITS DESCRIPTION			
Emissions Unit/ Grouped Emissions Units	Emissions Unit Description	Control Unit Description	Permit, Order, Registration, or Regulation Number	
EU-66	0.51 MMBtu/hr (35 kWe/66 hp) Onan emergency engine Serial No. L940562448 Construction date: 1995	N/A	P 098-0026 Collateral Conditions 40 CFR Part 63 Subpart ZZZZ	
EU-67	WPCF at Eastwood Road 0.51 MMBtu/hr (35 kWe/66 hp) Onan emergency engine Serial No. L940562446	N/A	P 098-0026 Collateral Conditions	
	Construction date: 1995 WPCF at Mansfield Apartments		40 CFR Part 63 Subpart ZZZZ	
EU-68	0.51 MMBtu/hr (35 kWe/66 hp) Onan emergency engine Serial No. L940562447	N/A	P 098-0026 Collateral Conditions 40 CFR Part 63 Subpart	
	Construction date: 1995 WPCF at Northwood Apartments 6.65 MMBtu/hr Weil-McLain boiler No. 1	N/A	ZZZZ RCSA §22a-174-22e	
EU-442	Construction date: unknown	N/A	RCSA §22a-174-22e	
	Putnam Refectory		7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	
EU-443	6.65 MMBtu/hr Weil-McLain boiler No. 2 Construction date: unknown Putnam Refectory	N/A	RCSA §22a-174-22e	
EU-549	2.0 MMBtu/hr boiler Construction date: unknown	N/A	40 CFR Part 63 Subpart JJJJJJ	
	Water Pollution Control Facility			
EU-551	Motor Pool Fuel Distribution Construction date: 1995	Vapor Recovery	RCSA §22a-174-20 RCSA §22a-174-30a	
	Motor Pool		40 CFR Part 63 Subpart CCCCCC	
EU-558	121.2 MMBtu/hr (NG) & 115.5 MMBtu/hr (oil) Boiler No. 9, English D-Type boiler	Low NOx burners & Flue Gas Recirculation	P 098-0026	

TABLE II.A: EMISSIONS UNITS DESCRIPTION			
Emissions Unit/ Grouped Emissions Units	Emissions Unit Description	Control Unit Description	Permit, Order, Registration, or Regulation Number
	Model APP-100-250		RCSA §22a-174-22e
	Construction date: 2001		40 CFR Part 60 Subpart Db
	Central Utility Plant		40 CFR Part 63 Subpart
EU-565	12 MMBtu/hr (1,250 kWe/1,881 hp) Mitsubishi RM-1250 S12R-PTA emergency engine No. 1	N/A	RCSA §22a-174-3b(e) RCSA §22a-174-22e 40 CFR Part 63
	Construction date: 1997		Subpart ZZZZ
	Central Utility Plant		
EU-566	12 MMBtu/hr (1,250 kWe/1,881 hp) Mitsubishi RM-1250 S12R-PTA emergency engine No. 2	N/A	RCSA §22a-174-3b(e) RCSA §22a-174-22e
	Construction date: 1997		40 CFR Part 63 Subpart ZZZZ
EU 577	Central Utility Plant	NT/A	DCCA 822- 174 21-(-)
EU-567	1.14 MMBtu/hr (100 kWe/168 hp) Spectrum Detroit Model 100DS emergency engine	N/A	RCSA §22a-174-3b(e)
	Detroit Woder 100D3 emergency engine		40 CFR Part 63
	Construction date: 2001		Subpart ZZZZ
	North Campus Parking Garage		
EU-568	4.05 MMBtu/hr (325 kWe/531 hp) Cummins	N/A	RCSA §22a-174-3b(e)
	emergency engine		RCSA §22a-174-22e
	Construction date: 1999		40 CFR Part 63 Subpart ZZZZ
	Ag-Biotech Building		*
EU-569	3.88 MMBtu/hr (430 hp) Waukesha Model	N/A	RCSA §22a-174-22e
	F18GLD chiller non-emergency engine		
	Construction date: 1998		40 CFR Part 63 Subpart ZZZZ
	South Campus Chiller Plant		
EU-575	0.65 MMBtu/hr (30 kWe/82 hp) Kohler emergency engine	N/A	40 CFR Part 63 Subpart ZZZZ

	TABLE II.A: EMISSIONS UNITS DESCRIPTION			
Emissions Unit/ Grouped Emissions Units	Emissions Unit Description	Control Unit Description	Permit, Order, Registration, or Regulation Number	
	Construction date:1997			
	Field House			
EU-576	1.47 MMBtu/hr (150 kWe/250 hp) Kohler 150ROZJ emergency fire pump engine	N/A	RCSA §22a-174-3b(e) 40 CFR Part 63 Subpart	
	Construction date: 1997		ZZZZ	
	Field House			
EU-579	5.06 MMBtu/hr (450 kWe/760 hp) Kohler Model 450ROZD emergency engine	N/A	RCSA §22a-174-3b(e) RCSA §22a-174-22e	
	Construction date: 1998		40 CFR Part 63 Subpart ZZZZ	
	South Campus Chiller Plant		7.000.004	
EU-584	2.19 MMBtu/hr (160 kWe/268 hp*) Caterpillar Model SR4B emergency engine	N/A	P 098-0026 Collateral Conditions	
	Construction date: 2002		40 CFR Part 63 Subpart ZZZZ	
	Alumni Quad			
EU-585	1.09 MMBtu/hr (80 kWe/150 hp) Kohler Model 80 RZG emergency engine	N/A	P 098-0026 Collateral Conditions	
	Construction date: 2002		40 CFR Part 63 Subpart ZZZZ	
	Buckley Hall			
EU-586	0.90 MMBtu/hr (60 kWe/105 hp) Kohler Model 60 RZG emergency engine	N/A	P 098-0026 Collateral Conditions	
	Construction date: 2002		40 CFR Part 63 Subpart ZZZZ	
	Shippee Hall			
EU-587	0.91 MMBtu/hr (55 kWe/92 hp*) Onan emergency engine	N/A	P 098-0026 Collateral Conditions	
	Construction date: 2002		40 CFR Part 63 Subpart ZZZZ	
	McMahon Hall			
EU-588	1.6 MMBtu/hr (100 kWe/173 hp) Caterpillar emergency engine	Catalytic Converter	P 098-0026 Collateral Conditions	
	Construction date: 2001		40 CFR Part 63 Subpart	

	TABLE II.A: EMISSIONS UNITS DESCRIPTION			
Emissions Unit/ Grouped Emissions Units	Emissions Unit Description	Control Unit Description	Permit, Order, Registration, or Regulation Number	
			ZZZZ	
EU 501	Hilltop (Capstone) Apartments	NI/A	D 000 0026	
EU-591	0.30 MMBtu/hr (17 kWe/37 hp) Kohler Emergency engine	N/A	P 098-0026 Collateral Conditions	
	Construction date: 2002		40 CFR Part 63 Subpart ZZZZ	
	Hilltop Dorms			
EU-598	14.88 MMBtu/hr (1,500 kWe/2,172 hp)	N/A	RCSA §22a-174-3b(e)	
	Caterpillar - Black start emergency engine		RCSA §22a-174-22e	
	Construction date: 2005		40 CFR Part 63 Subpart ZZZZ	
	Central Utility Plant			
EU-599	0.49 MMBtu/hr (35 kWe/57 hp) Cummins	N/A	P 098-0056,	
	emergency engine		098-0061 and	
	Construction date: 2004		098-0062 Collateral Conditions	
	Construction date. 2004		Conactal Conditions	
	Poultry Facility		40 CFR Part 63	
			Subpart ZZZZ	
EU-600	7 MW Solar Taurus Model 70 Combustion	Selective Catalytic	P 098-0056	
	Turbine with a 60 MMBtu/hr duct burner	Reduction, Oxidation Catalyst	RCSA §22a-174-22e	
	Construction date: 2004		40 CFR Part 60	
	C	Turbine Only: Dry-	Subparts Dc (duct	
	Cogeneration Facility	Low NOx Combustor	burner) and GG (turbine)	
EU-601	7 MW Solar Taurus Model 70 Combustion	Selective Catalytic	P 098-0061	
	Turbine with a 60 MMBtu/hr duct burner	Reduction, Oxidation	RCSA §22a-174-22e	
		Catalyst	40 CFR Part 60	
	Construction date: 2004	m 1: 6: 5	Subparts Dc (duct	
	Cogonovation Facility	Turbine Only: Dry-	burner) and GG	
EU-602	Cogeneration Facility 7 MW Solar Taurus Model 70 Combustion	Low NOx Combustor Selective Catalytic	(turbine) P 098-0062	
EU-002	Turbine with a 60 MMBtu/hr duct burner	Reduction, Oxidation	RCSA §22a-174-22e	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Catalyst		
	Construction date: 2004	•		
		Turbine Only: Dry-	40 CFR Part 60	
	Cogeneration Facility	Low NOx Combustor	Subparts Dc (duct	
			burner) and GG (turbine)	
			(turonie)	

TABLE II.A: EMISSIONS UNITS DESCRIPTION			
Emissions Unit/ Grouped Emissions Units	Emissions Unit Description	Control Unit Description	Permit, Order, Registration, or Regulation Number
EU-606	0.79 MMBtu/hr (60 kWe/115 hp) Cummins emergency engine Construction date: 2006 Burton Football Complex	N/A	P 098-0056, 098-0061 and 098-0062 Collateral Conditions 40 CFR Part 63 Subpart ZZZZ
EU-607	2.88 MMBtu/hr (250 kW/383 hp) Cummins emergency engine Construction date: 2003 Towers Dorms	N/A	RCSA §22a-174-3b(e) 40 CFR Part 63 Subpart ZZZZ
EU-608	0.28 MMBtu/hr (30 kWe/45 hp) Perkins emergency fire pump engine Construction date: 1998 Ice Rink	N/A	40 CFR Part 63 Subpart ZZZZ
GEU-8 Subgroup 1	Nine Laars RHEOS+ Model 1600 and three Laars RHEOS+ Model 2000 boilers or equivalent Hilltop Apartments	N/A	P 098-0056, 098-0061 and 098-0062 Collateral Conditions
GEU-8 Subgroup 2	All natural gas fired heating equipment Charter Oak Apartments and Suites, Husky Village, Hilltop Apartments Community Center (2353 Alumni Drive), and Hilltop Apartments Building No. 22 (22 Husky Circle)	N/A	P 098-0056, 098-0061 and 098-0062 Collateral Conditions
GEU-8 Subgroup 3	All natural gas fired heating equipment Hilltop Suites	N/A	P 098-0056, 098-0061 and 098-0062 Collateral Conditions
GEU-8 Subgroup 4	All natural gas fired heating equipment Next Generation Connecticut Hall	N/A	P 098-0026 Collateral Conditions
GEU-8 Subgroup 5	All natural gas fired heating equipment Northwood Apartments	N/A	P 098-0026 Collateral Conditions
GEU-8 Subgroup 6	All natural gas fired heating equipment Innovation Partnership Building	N/A	P 098-0026 Collateral Conditions

	TABLE II.A: EMISSIONS UNIT	TS DESCRIPTION	
Emissions Unit/ Grouped Emissions Units	Emissions Unit Description	Control Unit Description	Permit, Order, Registration, or Regulation Number
EU-1282	1.95 MMBtu/hr (175 kWe/274 hp) Caterpillar CD174-2 emergency engine Construction date: 2011	N/A	RCSA §22a-174-3b(e) 40 CFR Part 60 Subpart IIII
EU-1283	Police/Fire Complex 5.85 MMBtu/hr (600 kWe/900 hp) Caterpillar	N/A	RCSA §22a-174-3b(e)
EU-1203	C18 ATAAC emergency engine Construction date: 2011	IVA	RCSA §22a-174-30(c) RCSA §22a-174-22e 40 CFR Part 60 Subpart IIII
	Willimantic Well Field		
EU-1284	2.12 MMBtu/hr (150 kWe/224 hp) Olympian Emergency engine	N/A	P 098-0026 Collateral Conditions
	Construction date: 2012		40 CFR Part 60 Subpart JJJJ
EU-1285	Floriculture Building 0.29 MMBtu/hr (20 kW/34 hp*) Generac	N/A	P 098-0026
EU-1283	Emergency engine	IVA	Collateral Condition
	Construction date: 2012 President's Residence		40 CFR Part 60 Subpart JJJJ
EU-1286	4.53 MMBtu/hr (500 kWe/752 hp) MTU Onsite Energy emergency engine	N/A	RCSA §22a-174-3b(e) RCSA §22a-174-22e
	Construction date: 2012 Reclaimed Water Facility Building		40 CFR Part 60 Subpart IIII
EU-1314	1.95 MMBtu/hr (150 kWe/225 hp) Cummins Emergency engine	N/A	40 CFR Part 60 Subpart JJJJ
	Construction date: 2013		
EII 1215	Young Building	NT / A	DCCA 822° 174 21(-)
EU-1315	0.59 MMBtu/hr (40 kWe/64 hp) Cummins 40 GGPB Emergency engine	N/A	RCSA §22a-174-3b(e) 40 CFR Part 60 Subpart
	Construction date: 2014		JJJJ

TABLE II.A: EMISSIONS UNITS DESCRIPTION			
Emissions Unit/ Grouped Emissions Units	Emissions Unit Description	Control Unit Description	Permit, Order, Registration, or Regulation Number
	Basketball Training Facility		
EU-1322	1.50 MMBtu/hr (153 kWe/241 hp) Marathon	N/A	RCSA §22a-174-3b(e)
	MMG175 Emergency engine		
	Construction date: 2014		40 CFR Part 60 Subpart IIII
	Mobile Generator		
EU-1323	0.72 MMBtu/hr (65 kWe/99 hp) Ingersoll-	N/A	P 098-0026
	Rand S60 Emergency engine		Collateral Condition
	Construction date: 2015		40 CFR Part 63 Subpart ZZZZ
	WHUS Radio Tower		
EU-1324	4.82 MMBtu/hr (500 kWe/762 hp) Taylor TMC500 Emergency engine	N/A	RCSA §22a-174-3b(e) RCSA §22a-174-22e
	Construction date: 2015		40 CFR Part 60 Subpart IIII
	Mobile Generator		
EU-1325	1.12 MMBtu/hr (100 kWe/149 hp) Generac SG100 Emergency engine	N/A	RCSA §22a-174-3b(e)
	Construction date: 2017		40 CFR Part 60 Subpart JJJJ
	77 · A 1.0		
EU-1330	Main Accumulation Area 4.82 MMBtu/hr (400 kWe/636 hp) Generac	N/A	P 098-0026 Collateral
E0-1330	MG400 Emergency engine	IV/A	Conditions
	Construction date: 2016		RCSA §22a-174-22e
	Putnam Refectory		40 CFR Part 60 Subpart JJJJ
EU-1331	4.82 MMBtu/hr (400 kWe/636 hp) Generac MG400 Emergency engine	N/A	P 098-0026 Collateral Conditions
	Construction date: 2016		RCSA §22a-174-22e
	Putnam Refectory		40 CFR Part 60 Subpart JJJJ
EU-1332	4.82 MMBtu/hr (400 kWe/636 hp) Generac MG400 Emergency engine	N/A	P 098-0026 Collateral Conditions

	TABLE II.A: EMISSIONS UNI	ITS DESCRIPTION	
Emissions Unit/ Grouped Emissions Units	Emissions Unit Description	Control Unit Description	Permit, Order, Registration, or Regulation Number
	Construction date: 2016		RCSA §22a-174-22e
	Putnam Refectory		40 CFR Part 60 Subpart JJJJ
EU-1347	4.15 MMBtu/hr (450 kWe/755 hp)	N/A	RCSA §22a-174-3b(e)
	Cummins 450 DFEJ Emergency engine		RCSA §22a-174-22e
	Construction date: 2016		40 CFR Part 60 Subpart IIII
	Gurleyville Lift Station		
EU-1348	4.86 MMBtu/hr (400 kWe/637 hp) Caterpillar G3412C LE Emergency engine	N/A	P 098-0026 Collateral Conditions
	Construction date: 2017		RCSA §22a-174-22e
	Innovation Partnership Building		40 CFR Part 60 Subpart JJJJ
EU-1407	0.93 MMBtu/hr (60 kWe/98 hp) Generac C60	N/A	RCSA §22a-174-3b(e)
	Natural Gas Emergency engine		
	Construction date: 2017		40 CFR Part 60 Subpart JJJJ
	Bronwell Building		
EU-1434	6.97 MMBtu/hr (750/1100 hp) Cummins 750	N/A	RCSA §22a-174-3b(e)
	DQBB Emergency Engine		RCSA §22a-174-22e
	Construction Date: 2019		40 CFR Part 60 Subpart IIII
	HI-Head Pump Station		
EU-1435	2.06 MMBtu/hr (150 kWe/251 hp*) Generac	N/A	P 098-0026
	QT150 Emergency engine		Collateral Condition
	Construction date: 2018		40 CFR Part 60 Subpart JJJJ
	Kellogg Barn		
EU-1436	3.065 MMBtu/hr TECOCHILL CH-400 engine driven chiller powered by two 161 hp	Catalytic converter	P 098-0026 Collateral Condition
	TecoDrive 7400LE ULTRA natural gas fired		Condition
	non-emergency engines		
	Construction date: 2019		40 CFR Part 60 Subpart JJJJ
	Central Utility Plant		1,322

TABLE II.A: EMISSIONS UNITS DESCRIPTION			
Emissions Unit/ Grouped Emissions Units	Emissions Unit Description	Control Unit Description	Permit, Order, Registration, or Regulation Number
EU-1437	3.065 MMBtu/hr TECOCHILL CH-400 engine driven chiller powered by two 161 hp TecoDrive 7400LE ULTRA natural gas fired non-emergency engines Construction date: 2019	Catalytic converter	P 098-0026 Collateral Condition 40 CFR Part 60 Subpart JJJJ
	Central Utility Plant		
EU-1438	3.065 MMBtu/hr TECOCHILL CH-400 engine driven chiller powered by two 161 hp TecoDrive 7400LE ULTRA natural gas fired non-emergency engines Construction date: 2019	Catalytic converter	P 098-0026 Collateral Condition 40 CFR Part 60 Subpart JJJJ
	Central Utility Plant		
EU-1439	3.065 MMBtu/hr TECOCHILL CH-400 engine driven chiller powered by two 161 hp TecoDrive 7400LE ULTRA natural gas fired non-emergency engines Construction date: 2019	Catalytic converter	P 098-0026 Collateral Condition 40 CFR Part 60 Subpart JJJJ
	Central Utility Plant		
EU-1442	120 MMBtu/hr on Natural Gas 113.3 MMBtu/hr on No. 2 Fuel Oil Cleaver Brooks Boiler No. 1 Construction Date: 2021 Central Utility Plant	Low NOx Burner Flue Gas Recirculation	P 098-0063 RCSA §22a-174-22e 40 CFR Part 60 Subpart Db 40 CFR Part 63 Subpart JJJJJJ
EU-1443	120 MMBtu/hr on Natural Gas	Low NOx Burner	P 098-0064
	113.3 MMBtu/hr on No. 2 Fuel Oil Cleaver Brooks Boiler No. 2 Construction Date: 2021 Central Utility Plant	Flue Gas Recirculation	RCSA §22a-174-22e 40 CFR Part 60 Subpart Db 40 CFR Part 63 Subpart JJJJJJ
EU-1444	120 MMBtu/hr on Natural Gas	Low NOx Burner	P 098-0065
	113.3 MMBtu/hr on No. 2 Fuel Oil		
	Cleaver Brooks Boiler No. 10	Flue Gas Recirculation	RCSA §22a-174-22e

	TABLE II.A: EMISSIONS UN	ITS DESCRIPTION	
Emissions Unit/ Grouped Emissions Units	Emissions Unit Description	Control Unit Description	Permit, Order, Registration, or Regulation Number
	Construction Date: 2021 Supplemental Utility Plant		40 CFR Part 60 Subpart Db 40 CFR Part 63 Subpart JJJJJJ

^{*} Engine rating was estimated since no manufacturer's data was available for this engine.

B. GROUPED EMISSIONS UNITS DESCRIPTION

TABLE II.B: GROUPED EMISSIONS UNITS DESCRIPTION		
Grouped Emissions Units (GEU)	Grouped Emissions Unit Description	
GEU-1	EU-54, 567, 576, 607, 1282, 1315, 1322, 1325, 1407: Emergency engines	
	• Operating under RCSA §22a-174-3b(e)	
	• Subject to 40 CFR Part 63 Subpart ZZZZ: 54, 567, 576, 607	
	• Subject to 40 CFR Part 60 Subpart IIII: 1282, 1322	
	• Subject to 40 CFR Part 60 Subpart JJJJ: 1315, 1325, 1407	
	Not subject to RCSA §22a-174-22e	
GEU-2	EU-55, 565, 566, 568, 579, 598, 1283, 1286, 1324, 1347, 1434: Emergency engines	
	• Operating under RCSA §22a-174-3b(e)	
	• Subject to RCSA §22a-174-22e	
	• Subject to 40 CFR Part 63 Subpart ZZZZ: 55, 565, 566, 568, 579, 598	
	• Subject to 40 CFR Part 60 Subpart IIII: 1283, 1286, 1324, 1347, 1434	
	EU-66, 67, 68, 584, 585, 586, 587, 588, 591, 599, 606, 1323: Emergency engines	
	• Subject to 40 CFR Part 63 Subpart ZZZZ	
GEU-5	• Limited to 500 hr/yr of operation (collateral conditions in P 098-0026): 66, 67, 68	
	• Limited to 300 hr/yr of operation (collateral conditions in P 098-0026): 584, 585, 586, 587, 588, 591, 1323	
	• Limited to 300 hr/yr of operation (collateral conditions in P 098-0056, 0998-0061 and 098-0062): 599, 606	
	Not subject to RCSA §22a-174-22e	
	EU-1284, 1285 and 1435: Emergency engines	
	• Subject to 40 CFR Part 60 Subpart JJJJ,	
	• Limited to 300 hr/yr of operation (collateral conditions in P 098-0026)	
	Not subject to RCSA §22a-174-22e	
	EU-1330, 1331, 1332 and 1348: Emergency engines	
	• Subject to RCSA §22a-174-22e	
	• Subject to 40 CFR Part 60 Subpart JJJJ	

ı	TABLE II.B: GROUPED EMISSIONS UNITS DESCRIPTION		
Grouped Emissions Units (GEU)			
GEU-7	 Limited to 300 hr/yr of operation (collateral condition in P 098-0026) EU-600, 601, 602: Solar Taurus Model 70 Combustion Turbines with Duct Burners Operating under NSR Permit Nos. 098-0056, 098-0061 and 098-0062 Subject to RCSA §22a-174-22e Subject to 40 CFR Part 60 Subparts Dc (Duct burner) and GG (turbine) 		
	Subgroup 1: Nine Laars RHEOS+ Model 1600 and three Laars RHEOS+ Model 2000 Natural gas fired boilers or equivalent – Hilltop Apartments • Subject to Collateral Conditions in P 098-0056, 098-0061 and 098-0062 Subgroup 2: All natural gas fired heating equipment – Charter Oak Apartments and Suites, Husky Village, Hilltop Apartments Community Center (2353 Alumni Drive), and Hilltop Apartments Building No. 22 (22 Husky Circle) • Subject to Collateral Conditions in P 098-0056, 098-0061 and 098-0062		
GEU-8	Subgroup 3: All natural Gas fired heating equipment – Hilltop Suites • Subject to Collateral Conditions in P 098-0056, 098-0061 and 098-0062		
	Subgroup 4: All natural gas fired heating equipment – Next Generation Connecticut Hall Subject to Collateral Conditions in P 098-0026 Subgroup 5: All natural gas fired heating equipment – Northwood Apartments Subject to Collateral Conditions in P 098-0026		
	Subgroup 6: All natural gas fired heating equipment – Innovation Partnership Building Subject to Collateral Conditions in P 098-0026		
GEU-9	EU-442, 443: Natural gas fired boilers • Subject to RCSA §22a-174-22e • Not subject to RCSA §22a-174-3a		
GEU-10	 EU-1, 2, 9, 63: Emergency engines Operating under NSR Permit Nos. 098-0011, 098-0012, 098-0019, 098-0054 Subject to RCSA §22a-174-22e Subject to 40 CFR Part 63 Subpart ZZZZ 		
GEU-11	 EU-5, 8: Emergency engines Operating under NSR Permit Nos. 098-0015, 098-0018 Subject to 40 CFR Part 63 Subpart ZZZZ 		
GEU-13	 EU-19, 20, 23, 27, 30, 42, 48, 56, 57, 59, 575, 608, 1314: Emergency engines Subject to 40 CFR Part 63 Subpart ZZZZ: 19, 20, 23, 27, 30, 42, 48, 56, 57, 59, 575, 608 Subject to 40 CFR Part 60 Subpart JJJJ: 1314 Not subject to RCSA §22a-174-3a or 22a-174-22e 		
GEU-14	 EU-1436, 1437, 1438, 1439: TECOCHILL Chillers (non-emergency engines) Not subject to RCSA §22a-174-3a Subject to Collateral Conditions in Permit No. 098-0026 		

TABLE II.B: GROUPED EMISSIONS UNITS DESCRIPTION		
Grouped Emissions Units (GEU)	Grouped Emissions Unit Description	
	Subject to 40 CFR Part 60 Subpart JJJJ	
GEU-15	 EU- 1442, 1443, 1444: Permitted Boilers Operating under NSR Permit Nos. 098-0063, 098-0064, 098-0065 Subject to RCSA §22a-174-22e Subject to 40 CFR Part 60 Subpart Db Subject to 40 CFR Part 63 Subpart JJJJJJ 	

C. STANDARD OPERATING SCENARIO IDENTIFICATION

Standard Operating Scenario

The Permittee shall be allowed to operate under the following standard operating scenario without notifying the commissioner, provided that such operations are explicitly provided for and described below.

The Permittee has identified the following standard operating scenarios:

- 1. Emergency engines: the standard use of the emergency engines is to provide power to the facility in case of a utility power outage, brownout, or other emergency.
- 2. Boilers: the standard use of the boilers is to provide steam for building heating, hot water and to operate some absorption chillers.
- 3. Motor pool fuel distribution: the standard use for the motor pool fuel distribution is to store and dispense gasoline and diesel fuel for campus vehicles.
- 4. Combustion turbines and duct burners: the standard use of the combustion turbines and duct burners is to provide electrical power for campus operation and steam for building heating and cooling.
- 5. Other small heating equipment: the standard use of other small heating equipment is to provide for building heating and hot water.
- 6. Chiller engines/Chillers: the standard use of the non-emergency engines is to provide chilled water for cooling various buildings on campus.

Alternative Operating Scenario

There are no alternative operating scenarios.

The following contains summaries of applicable regulations and compliance demonstration for each identified Emissions Unit and Operating Scenario, regulated by this Title V permit.

A. GROUPED EMISSIONS UNIT 1 (GEU-1): Emergency Engines

- EU-54: 2.63 MMBtu/hr (370 hp) Kohler diesel fired emergency engine Commissary Warehouse 1.14 MMBtu/hr (168 hp) Spectrum Detroit Diesel fired emergency engine North Campus Parking Garage
- EU-576: 1.47 MMBtu/hr (250 hp) Kohler diesel fired emergency fire pump engine Field House EU-607: 2.88 MMBtu/hr (383 hp) Cummins natural gas fired emergency engine Towers Dorms
- **EU-1282:** 1.95 MMBtu/hr (274 hp) Caterpillar CD175-2 diesel fired emergency engine Police/Fire Complex
- **EU-1315:** 0.59 MMBtu/hr (64 hp) Cummins natural gas fired emergency engine Basketball Training Facility
- EU-1322: 1.50 MMBtu/hr (241 hp) Marathon diesel fired emergency engine Mobile Generator
- EU-1325: 1.12 MMBtu/hr (149 hp) Generac natural gas fired emergency engine Main Accumulation Area
- EU-1407: 0.93 MMBtu/hr (98 hp) Generac natural gas fired emergency engine Bronwell Building

Classification:

- Emergency engines operating under RCSA §22a-174-3b(e)
- Not subject to RCSA §22a-174-22e

1. Operational Restrictions, Maximum Hours of Operation and Fuel Sulfur Content

- a. Limitation or Restriction
 - i. The Permittee shall operate each engine as an emergency engine as defined in RCSA §22a-174-22e(a)(13). [RCSA §§22a-174-22e and 22a-174-33(j)(1)(K)(ii)]
 - ii. The Permittee shall not allow any of the emergency engines to operate except during periods of testing and scheduled maintenance or during an emergency and unless the following conditions are met: [RCSA §22a-174-3b(e)(2)]
 - (A) The Permittee shall operate the emergency engine for a maximum of 300 hours during any 12 month rolling aggregate. [RCSA §22a-174-3b(e)(2)(C)]
 - (B) Any non-gaseous fuel consumed by each engine shall not exceed the sulfur content of motor vehicle diesel fuel where "motor vehicle diesel fuel" is defined in RCSA §22a-174-42. [RCSA §22a-174-3b(e)(2)(D)]
- b. Monitoring and Testing Requirements

Record keeping specified in Section III.A.1.c of this Title V permit shall be sufficient to meet other Monitoring and Testing Requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

The Permittee shall make and keep the following records:

i. Hours of operation for each month and each 12 month rolling aggregate.

[RCSA §22a-174-3b(e)(4)]

- ii. Any of the records listed below are sufficient to demonstrate the sulfur content of fuel used: [RCSA §§22a-174-3b(h)(1) through (3)]
 - (A) A fuel certification for a delivery of non-gaseous fuel from a bulk petroleum provider;
 - (B) A sales receipt for the sale of motor vehicle diesel fuel from a retail location; or
 - (C) A copy of a current contract with the fuel supplier supplying the fuel as a condition of each shipment.
- iii. All records above shall be maintained for a period of five years and made available to the commissioner to inspect and copy upon request. [RCSA §22a-174-3b(e)(3)]

d. Reporting Requirements

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

2. 40 CFR Part 63 Subpart ZZZZ – National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

EU-54, 567, 576, 607 ONLY

Classification:

- Engine Category: Institutional Emergency
- At the time of this Title V renewal (Application No. 201806541), each unit is an Existing Stationary Engine located at an Area Source of HAPs, constructed before June 12, 2006. The emergency engines meet the definition of Emergency Stationary RICE in 40 CFR §63.6675 and operate according to the provisions of 40 CFR §63.6640(f). The emergency engines are not contractually obligated to be used in Emergency Demand Response (EDR) or for local reliability criteria per 40 CFR §63.6585(f).
- The Permittee should re-evaluate the requirements of 40 CFR Part 63 Subpart ZZZZ if any of the above conditions change.
- a. Limitation or Restriction

The Permittee may operate the emergency stationary RICE for a maximum of 100 hours per calendar year for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The Permittee may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of the emergency engine beyond 100 hours per calendar year. [40 CFR §63.6640(f)(2)]

Note:

- The Permittee must maintain compliance with these operating limitations in order to be considered an emergency engine and maintain exemption from other requirements of 40 CFR Part 63 Subpart ZZZZ.
- The 100 hours and any additional approved time used for maintenance checks and readiness

testing as described in Section III.A.2.a of this Title V permit shall count towards the hours of operation in Section III.A.1.a.ii.A of this Title V permit.

b. Monitoring and Testing Requirements

Record keeping specified in Section III.A.2.c of this Title V permit shall be sufficient to meet other Monitoring and Testing Requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

The Permittee must keep records of the operation of each engine in emergency and non-emergency service through the non-resettable hour meter. The Permittee must record the time of operation for each engine and the reason the engine was in operation during that time.

[40 CFR §63.6655(f)]

d. Reporting Requirements

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA $\S 22a-174-33(j)(1)(X)$]

3. 40 CFR Part 60 Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

EU-1282, 1322 ONLY

Classification:

- Emergency engine
- At the time of this Title V renewal (Application No. 201806541), each unit is an Emergency Compression Ignition Engine constructed after June 11, 2005 where the engines were manufactured after April 1, 2006 (EU-1282: Model year 2011 and EU-1322: Model year 2014).
- The Permittee should re-evaluate the requirements of 40 CFR Part 60 Subpart IIII if any of the above conditions change.

a. Limitation or Restriction

- i. The Permittee shall comply with the applicable emission standards for all pollutants for a new non-road compression ignition emergency engine, of the same model year and maximum engine power as EU-1282 and EU-1322 as listed in 40 CFR §60.4202. [40 CFR §60.4205(b)]
- ii. The Permittee may operate the emergency stationary RICE for a maximum of 100 hours per calendar year for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The Permittee may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of the emergency engine beyond 100 hours per calendar year.

 [40 CFR §60.4211(f)(2)]

Note:

- The Permittee must maintain compliance with these operating limitations in order to be considered an emergency engine and maintain exemption from other requirements of 40 CFR Part 60 Subpart IIII.
- The 100 hours and any additional approved time used for maintenance checks and readiness testing as described in Section III.A.3.a.ii of this Title V permit shall count towards the hours of operation in Section III.A.1.a.ii.A of this Title V permit.
- b. Monitoring and Testing Requirements

The Permittee shall comply with all monitoring and testing requirements of the General Provisions in 40 CFR §§60.1 through 60.19, inclusive, as specified in 40 CFR Part 60 Subpart IIII, Table 8. [40 CFR §60.4218]

- c. Record Keeping Requirements
 - i. The Permittee shall comply with all record keeping requirements of the General Provisions in 40 CFR §\$60.1 through 60.19, inclusive, as specified in 40 CFR Part 60 Subpart IIII, Table 8. [40 CFR §60.4218]
 - ii. The Permittee shall maintain appropriate records indicating compliance with the emission limitation requirements in Sections III.A.3.a of this Title V permit. Such records may include, but are not limited to, manufacturer's specifications and operating recommendations, purchase records and internal operating procedures.

 [RCSA §22a-174-33(j)(l)(K)(ii)]
 - iii. If the emergency engine does not meet the standards applicable to non-emergency engines in the applicable model year, the Permittee must keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. The Permittee must record the time of operation of the engine and the reason the engine was in operation during that time. [40 CFR §60.4214(b)]
- d. Reporting Requirements

The Permittee shall comply with all reporting requirements of the General Provisions in 40 CFR §§60.1 through 60.19, inclusive, as specified in 40 CFR Part 60 Subpart IIII, Table 8. [40 CFR §60.4218]

4. 40 CFR Part 60 Subpart JJJJ – Standards of Performance for Stationary Spark Ignition Internal Combustion Engines EU-1315, 1325, 1407 ONLY

Classification:

- Emergency engine
- At the time of this Title V renewal (Application No. 201806541), each unit is an Emergency Spark Ignition Engine constructed after June 12, 2006 where the engines were manufactured on or after January 1, 2009.
- Pursuant to 40 CFR §63.6590(c), each emergency engine meets the requirements of 40 CFR Part 63 Subpart ZZZZ by complying with 40 CFR Part 60 Subpart JJJJ.
- The Permittee should re-evaluate the requirements of 40 CFR Part 60 Subpart JJJJ if any of the above

conditions change.

a. Limitation or Restriction

- i. The Permittee shall comply with the applicable emission standards for all pollutants for a new spark ignition emergency engine as listed in 40 CFR §§60.4233(d) and (e) and 40 CFR Part 60 Subpart JJJJ Table 1 by purchasing an engine certified according to the procedures specified in 40 CFR Part 60 Subpart JJJJ for the same model year.

 [40 CFR §60.4243(b)(1)]
- ii. The Permittee shall operate and maintain the engines to achieve the emission standards as required in 40 CFR §60.4233 over the entire life of the engine. [40 CFR §60.4234]
- iii. The Permittee shall operate and maintain each certified stationary spark ignition engine according to the manufacturer's emission related written instructions.

 [40 CFR §60.4243(a)(1)]
- iv. The Permittee may operate the emergency stationary reciprocating internal combustion engine for a maximum of 100 hours per calendar year for maintenance, checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, the Regional Transmission Organization or equivalent balancing authority and transmission operator, or the insurance Company associated with the engine. The Permittee may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the Permittee maintains records indicating that federal, state or local standards require maintenance and testing of the emergency engine beyond 100 hours per calendar year.

 [40 CFR §§60.4243(d)(2)(i)]

Note:

- The Permittee must maintain compliance with these operating limitations in order to be considered an emergency engine and maintain exemption from other requirements of 40 CFR Part 60 Subpart JJJJ.
- The 100 hours and any additional approved time used for maintenance checks and readiness testing as described in Section III.A.4.a.iv of this Title V permit shall count towards the hours of operation in Section III.A.1.a.ii.A of this Title V permit.
- b. Monitoring and Testing Requirements

Record keeping specified in Section III.A.4.c of this Title V permit shall be sufficient to meet other monitoring and testing requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(1)(K)(ii)]

- c. Record Keeping Requirements
 - i. The Permittee shall comply with all record keeping requirements of the General Provisions in 40 CFR §\$60.1 through 60.19, inclusive, as specified in 40 CFR Part 60 Subpart JJJJ, Table 3. [40 CFR §60.4246]
 - ii. The Permittee shall keep records of maintenance conducted on each engine. [40 CFR §60.4245(a)(2)]

- iii. The Permittee shall keep documentation from the manufacturer certifying compliance with the emissions standards in Section III.A.4.a.i of this Title V permit. [40 CFR §60.4245(a)(3)]
- iv. The Permittee shall keep records of all notifications submitted to comply with 40 CFR Part 60 Subpart JJJJ and all documentation supporting any notification. [40 CFR §60.4245(a)]

d. Reporting Requirements

The Permittee shall comply with all reporting requirements of the General Provisions in 40 CFR §§60.1 through 60.19, inclusive, as specified in 40 CFR Part 60 Subpart JJJJ. [40 CFR §60.4246]

B. GROUPED EMISSIONS UNIT 2 (GEU-2): Emergency Engines

- EU-55: 5.38 MMBtu/hr (749 hp) Caterpillar diesel fired emergency engine Thomas J. Dodd Research Center
- EU-565: 12 MMBtu/hr (1,881 hp) Mitsubishi diesel fired emergency engine No. 1 Central Utility Plant
- EU-566: 12 MMBtu/hr (1,881 hp) Mitsubishi diesel fired emergency engine No. 2 Central Utility Plant EU-568: 4.05 MMBtu/hr (531 hp) Cummins natural gas fired emergency engine Ag Biotech Building
- EU-579: 5.06 MMBtu/hr (760 hp) Kohler diesel fired emergency engine South Campus Chiller Plant
- **EU-598:** 14.88 MMBtu/hr (2,172 hp) Caterpillar diesel fired black start emergency engine Central Utility Plant
- EU-1283: 5.85 MMBtu/hr (900 hp) Caterpillar diesel fired emergency engine Willimantic Well Field
- **EU-1286**: 4.53 MMBtu/hr (752 hp) MTU Onsite Energy diesel fired emergency engine Reclaimed Water Facility Building
- EU-1324: 4.82 MMBtu/hr (762 hp) Taylor diesel fired emergency engine Mobile Generator
- EU-1347: 4.15 MMBtu/hr (755 hp) Cummins diesel fired emergency engine Gurleyville Lift Station
- EU-1434: 6.97 MMBtu/hr (1,100 hp) Cummins diesel fired emergency engine Hi-Head Pump Station

Classification:

- Emergency engines operating under RCSA §22a-174-3b(e)
- Subject to RCSA §22a-174-22e

1. Operational Restrictions, Maximum Hours of Operation and Fuel Sulfur Content

- a. Limitation or Restriction
 - i. The Permittee shall operate each engine as an emergency engine as defined in RCSA \$22a-174-22e(a)(13). [RCSA §\$22a-174-22e and 22a-174-33(j)(1)(K)(ii)]
 - ii. The Permittee shall not allow any of the emergency engines to operate except during periods of testing and scheduled maintenance or during an emergency and unless the following conditions are met: [RCSA §22a-174-3b(e)(2)]
 - (A) The Permittee shall operate each emergency engine for a maximum of 300 hours during any 12-month rolling aggregate. [RCSA §22a-174-3b(e)(2)(C)]
 - (B) Any non-gaseous fuel consumed by each engine shall not exceed the sulfur content of motor vehicle diesel fuel where "motor vehicle diesel fuel" is defined in RCSA §22a-174-42. [RCSA §22a-174-3b(e)(2)(D)]

(C) The Permittee shall not operate any emergency engine in GEU-2 for routine scheduled testing or maintenance on any day for which the commissioner has forecast that ozone levels will be "Moderate to Unhealthy for Sensitive Groups" or greater. If, subsequent to the initial forecast of "Moderate to Unhealthy for Sensitive Groups" or greater, the forecast is revised to "Moderate" or lower, the Permittee is no longer prohibited from operating each engine for routine, scheduled testing or maintenance for the remainder of that day. The Permittee may rely on an ozone forecast of "Moderate" or lower obtained after 3 P.M. on the preceding day. Subsequent changes to the ozone forecast after 3 P.M. that forecast ozone levels of "Moderate to Unhealthy for Sensitive Groups" or greater shall not obligate the Permittee to refrain from operation of each emergency engine on the following day. [RCSA §22a-174-22e(d)(14)]

b. Monitoring and Testing Requirements

Record keeping specified in Section III.B.1.c of this Title V permit shall be sufficient to meet other monitoring and testing requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

The Permittee shall make and keep the following records:

- i. Hours of operation for each month and each 12-month rolling aggregate. [RCSA §22a-174-3b(e)(4)]
- ii. Any of the records listed below are sufficient to demonstrate the sulfur content of fuel used: [RCSA §\$22a-174-3b(h)(1) through (3)]
 - (A) A fuel certification for a delivery of non-gaseous fuel from a bulk petroleum provider;
 - (B) A sales receipt for the sale of motor vehicle diesel fuel from a retail location; or
 - (C) A copy of the current contract with the fuel supplier supplying the fuel as a condition of each shipment.
- iii. All records above shall be maintained for a period of five years and made available to the commissioner to inspect and copy upon request. [RCSA §22a-174-3b(e)(3)]

d. Reporting Requirements

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA $\S 22a-174-33(j)(1)(X)$]

2. NOx

a. Limitation or Restriction

The Permittee shall operate each engine as an emergency engine as defined in RCSA §22a-174-22e(a)(13). [RCSA §\$22a-174-22e and 22a-174-33(j)(1)(K)(ii)]

b. Monitoring and Testing Requirements

Record keeping specified in Section III.B.2.c of this Title V permit shall be sufficient to meet other Monitoring and Testing Requirements pursuant to RCSA §22a-174-33. [RCSA §§22a-174-33(j)(1)(K)(ii)]

- c. Record Keeping Requirements
 - i. The Permittee shall make and keep the following records:
 - (A) For an emergency engine not subject to 40 CFR Part 63 Subpart ZZZZ, records of total operating hours of such engine, identifying the dates and operating hours of emergency use and the reason for non-emergency operation.

 [RCSA §22a-174-22e(j)(2)(A)]
 - (B) For an emergency engine subject to 40 CFR Part 63 Subpart ZZZZ, records shall be those required by 40 CFR §63.6655. [RCSA §22a-174-22e(j)(2)(A)]
 - ii. The date and work performed for repairs, replacement of parts and other maintenance. [RCSA 22a-174-22e(j)(2)(B)]
 - iii. Copies of all documents submitted to the commissioner pursuant to RCSA §22a-174-22e. [RCSA §22a-174-22e(j)(2)(F)]
 - iv. Any other records or reports required by an order or permit issued by the commissioner pursuant to RCSA §22a-174-22e. [RCSA §22a-174-22e(j)(2)(G)]
 - v. The Permittee shall retain all records and reports produced pursuant to RCSA §22a-174-22e for five years. Such records and reports shall be available for inspection at reasonable hours by the commissioner or the Administrator. Such records and reports shall be retained at the premises where each emission unit is located, unless the commissioner approves in writing the use of another location in Connecticut. [RCSA §22a-174-22e(j)(1)]
- d. Reporting Requirements

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

3. 40 CFR Part 63 Subpart ZZZZ – National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

EU-55, 565, 566, 568, 579, 598 ONLY

Classification:

- Engine Category: Institutional Emergency
- At the time of this Title V renewal (Application No. 201806541), each unit is an Existing Stationary Engine located at an Area Source of HAPs, constructed before June 12, 2006. The emergency engines meet the definition of Emergency Stationary RICE in 40 CFR §63.6675 and operate according to the provisions of 40 CFR §63.6640(f). The emergency engines are not contractually obligated to be used in

Emergency Demand Response (EDR) or for local reliability criteria per 40 CFR §63.6585(f).

• The Permittee should re-evaluate the requirements of 40 CFR Part 63 Subpart ZZZZ if any of the above conditions change.

a. Limitation or Restriction

The Permittee may operate the emergency stationary RICE for a maximum of 100 hours per calendar year for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The Permittee may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the Permittee maintains records indicating that federal, state, or local standards require maintenance and testing of emergency RICE beyond 100 hours per calendar year. [40 CFR §§63.6640(f)(2)]

Note:

- The Permittee must maintain compliance with these operating limitations in order to be considered an emergency engine and maintain exemption from other requirements of 40 CFR Part 63 Subpart ZZZZ.
- The 100 hours and any additional approved time used for maintenance checks and readiness testing as described in Section III.B.3.a of this Title V permit shall be counted towards the hours of operation in Section III.B.1.a.ii.A of this Title V permit.

b. Monitoring and Testing Requirements

Record keeping specified in Section III.B.3.c of this Title V permit shall be sufficient to meet other Monitoring and Testing Requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

The Permittee must keep records of the operation of each engine in emergency and non-emergency service through the non-resettable hour meter. The Permittee must record the time of operation for each engine and the reason the engine was in operation during that time.

[40 CFR §63.6655(f)]

d. Reporting Requirements

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

4. 40 CFR Part 60 Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

EU-1283, 1286, 1324, 1347, 1434 ONLY

Classification:

- Emergency engines
- At the time of this Title V renewal (Application No. 201806541), each unit is an Emergency

Compression Ignition Engine constructed after June 11, 2005 where the engine was manufactured after April 1, 2006 (EU-1283 - Model Year: 2011, EU-1286 - Model Year: 2012, EU-1324 - Model Year: 2015, EU-1347 - Model Year: 2015, EU-1434 - Model Year: 2018).

• The Permittee should re-evaluate the requirements of 40 CFR Part 60 Subpart IIII if any of the above conditions change.

a. Limitation or Restriction

- i. The Permittee shall comply with the applicable emission standards for all pollutants for a new non-road compression ignition emergency engine of the same model year and maximum engine power as EU-1283, 1286, 1324, 1347, and 1434, respectively, as listed in 40 CFR §60.4202. [40 CFR §60.4205(b)]
- ii. The Permittee may operate the emergency stationary RICE for a maximum of 100 hours per calendar year for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The Permittee may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of the emergency engine beyond 100 hours per calendar year.

 [40 CFR §60.4211(f)(2)]

Note:

- The Permittee must maintain compliance with these operating limitations in order to be considered an emergency engine and maintain exemption from other requirements of 40 CFR Part 60 Subpart IIII.
- The 100 hours and any additional approved time used for maintenance checks and readiness testing as described in Section III.B.4.a.ii of this Title V permit shall count towards the hours of operation in Section III.B.1.a.ii.A of this Title V permit.
- b. Monitoring and Testing Requirements

The Permittee shall comply with all monitoring and testing requirements of the General Provisions in 40 CFR §\$60.1 through 60.19, inclusive, as specified in 40 CFR Part 60 Subpart IIII, Table 8. [40 CFR §60.4218]

c. Record Keeping Requirements

- i. The Permittee shall comply with all record keeping requirements of the General Provisions in 40 CFR §\$60.1 through 60.19, inclusive, as specified in 40 CFR Part 60 Subpart IIII, Table 8. [40 CFR §60.4218]
- ii. The Permittee shall maintain appropriate records indicating compliance with the emission limitation requirements in Sections III.B.4.a of this Title V permit. Such records may include, but are not limited to, manufacturer's specifications and operating recommendations, purchase records and internal operating procedures.

 [RCSA §22a-174-33(j)(l)(K)(ii)]
- iii. If the emergency engine does not meet the standards applicable to non-emergency engines in the applicable model year, the Permittee must keep records of the operation of the engine in emergency

and non-emergency service that are recorded through the non-resettable hour meter. The Permittee must record the time of operation of the engine and the reason the engine was in operation during that time. [40 CFR §60.4214(b)]

d. Reporting Requirements

The Permittee shall comply with all reporting requirements of the General Provisions in 40 CFR §§60.1 through 60.19, inclusive, as specified in 40 CFR Part 60 Subpart IIII, Table 8. [40 CFR §60.4218]

C. GROUPED EMISSIONS UNIT 5 (GEU-5): Emergency Engines

EU-66:	0.51 MMBtu/hr (66 hp) Onan diesel fired emergency engine - WPCF Eastwood Road
EU-67:	0.51 MMBtu/hr (66 hp) Onan diesel fired emergency engine – WPCF Mansfield Apartments
EU-68:	0.51 MMBtu/hr (66 hp) Onan diesel fired emergency engine – WPCF Northwood Apartments
EU-584:	2.19 MMBtu/hr (268 hp) Caterpillar LPG fired emergency engine –Alumni Quad
EU-585:	1.09 MMBtu/hr (150 hp) Kohler LPG fired emergency engine – Buckley Hall
EU-586:	0.90 MMBtu/hr (105 hp) Kohler LPG fired emergency engine – Shippee Hall
EU-587:	0.91 MMBtu/hr (92 hp) Onan LPG fired emergency engine – McMahon Hall
EU-588:	1.6 MMBtu/hr (173 hp) Caterpillar natural gas fired emergency engine – Hilltop (Capstone)
	Apartments
EU-591:	0.30 MMBtu/hr (37 hp) Kohler natural gas fired emergency engine – Hilltop Dorms
EU-599:	0.49 MMBtu/hr (54 hp) Cummins natural gas fired emergency engine – Poultry Facility
EU-606:	0.79 MMBtu/hr (115 hp) Cummins natural gas fired emergency engine – Burton Football
	Complex
EU-1284:	2.12 MMBtu/hr (224 hp) Olympian LPG fired emergency engine – Floriculture Building
EU-1285:	0.29 MMBtu/hr (34 hp) Generac natural gas fired emergency engine – President's Residence
EU-1323:	0.72 MMBtu/hr (99 hp) Ingersoll – Rand diesel fired emergency engine – WHUS Radio Tower
EU-1330:	4.82 MMBtu/hr (636 hp) Generac natural gas fired emergency engine – Putnam Refectory
EU-1331:	4.82 MMBtu/hr (636 hp) Generac natural gas fired emergency engine – Putnam Refectory
EU-1332:	4.82 MMBtu/hr (636 hp) Generac natural gas fired emergency engine – Putnam Refectory
EU-1348:	4.86 MMBtu/hr (637 hp) Caterpillar natural gas fired emergency engine – Innovation Partnership
= 5 20 100	Building
EU-1435:	2.06 MMBtu/hr (251 hp) Generac natural gas fired emergency engine – Kellogg Barn

Classification:

- Emergency engines operating under collateral conditions in P 098-0026, P 098-0056, 098-0061 and 098-0062
- Subject to RCSA §22a-174-22e
- Subject to 40 CFR Part 63 Subpart ZZZZ
- Subject to 40 CFR Part 60 Subpart JJJJ
- Not subject to RCSA §22a-174-3a

1. Maximum Hours of Operation

- a. Limitation or Restriction
 - i. **Collateral Condition in P 098-0026:** EU-584, 585, 586, 587, 588, 591, 1284, 1285, 1323, 1330, 1331, 1332, 1348, 1435:

The Permittee shall not operate each emergency engine for more than 300 hours over any consecutive 12-month period.

ii. Collateral condition in Permit Nos. 098-0056, 098-0061 and 098-0062: EU-599, 606:

The Permittee shall not operate each emergency engine for more than 300 hours over any consecutive 12-month period.

iii. Collateral condition in P 098-0026: EU-66, 67, 68:

The Permittee shall not operate the emergency engines for more than 500 hours over any consecutive 12-month period.

b. Monitoring and Testing Requirements

The Permittee shall monitor monthly and consecutive 12-month period operating hours for each emergency engine. [P 098-0026, P 098-0056, 098-0061, 098-0062]

c. Record Keeping Requirements

- i. The Permittee shall keep records for each emergency engine of monthly and consecutive 12-month period of the operating hours. The 12 consecutive month period shall be determined by adding, for each emergency engine, the current month's operating hours to that of the previous 11 months. The Permittee shall make these calculations within 30 days of the end of the previous month. [P 098-0026, P 098-0056, 098-0061, 098-0062]
- ii. The Permittee shall keep records on the premises indicating continual compliance with the above conditions at all times and shall make them available upon request by the commissioner. The Permittee shall retain all required records and reports for five years. [P 098-0026, P 098-0056, 098-0061, 098-0062]

d. Reporting Requirements

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA $\S 22a-174-33(j)(1)(X)$]

2. NOx

EU-1330, 1331, 1332, 1348 ONLY

a. Limitation or Restriction

- The Permittee shall operate each engine as an emergency engine as defined in RCSA \$22a-174-22e(a)(13).
 [P 098-0026, RCSA §\$22a-174-22e and 22a-174-33(j)(1)(K)(ii)]
- ii. The Permittee of an emergency engine shall not operate the emergency engine for routine, scheduled testing or maintenance on any day for which the commissioner has forecast that ozone levels will be "moderate to unhealthy for sensitive groups" or greater. If, subsequent to the initial forecast of "moderate to unhealthy for sensitive groups" or greater, the forecast is revised to "moderate" or lower, the owner or operator is no longer prohibited from operating the engine for routine, scheduled testing or maintenance for the remainder of that day. An owner or operator of an emergency engine may rely on an ozone forecast of "moderate" or lower obtained after 3 p.m. on the preceding day.

Subsequent changes to the ozone forecast after 3 p.m. that forecast ozone levels of "moderate to unhealthy for sensitive groups" or greater shall not obligate the owner or operator to refrain from operation of the emergency engine at the facility on the following day. The commissioner may exempt, by permit or order, the owner or operator of an emergency engine from this subdivision if such emergency engine is unattended and the testing is automated and cannot be modified from a remote location. [RCSA §22a-174-22e(d)(14)]

b. Monitoring and Testing Requirements

Record keeping specified in Section III.C.2.c of this Title V permit shall be sufficient to meet other Monitoring and Testing Requirements pursuant to RCSA §22a-174-33. [RCSA §822a-174-33(j)(1)(K)(ii)]

- c. Record Keeping Requirements
 - i. The Permittee of an emergency engine shall make and keep the following records: [RCSA §22a-174-22e(j)(2)]
 - (A) Records of total monthly operating hours of each engine, identifying the dates and operating hours of non-emergency use and the reason for non-emergency operation;
 - (B) The date and work performed for repairs, replacement of parts and other maintenance; and
 - (C) Copies of all documents submitted to the commissioner pursuant to RCSA \$22a-174-22e.

d. Reporting Requirements

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA $\S 22a-174-33(j)(1)(X)$]

3. 40 CFR Part 63 Subpart ZZZZ – National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

EU-66, 67, 68, 584, 585, 586, 587, 588, 591, 599, 606, 1323 ONLY

Classification:

- Engine Category: Institutional Emergency
- At the time of this Title V renewal (Application No. 201806541), each unit is an Existing Stationary Engine located at an Area Source of HAPs, constructed before June 12, 2006. The emergency engines meet the definition of Emergency Stationary RICE in 40 CFR §63.6675 and operate according to the provisions of 40 CFR §63.6640(f). The emergency engines are not contractually obligated to be used in Emergency Demand Response (EDR) or for local reliability criteria per 40 CFR §63.6585(f).
- The Permittee should re-evaluate the requirements of 40 CFR Part 63 Subpart ZZZZ if any of the above conditions change.
- a. Limitation or Restriction

The Permittee may operate the emergency stationary RICE for a maximum of 100 hours per calendar year for maintenance checks and readiness testing, provided that the tests are recommended by federal,

state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The Permittee may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of the emergency engine beyond 100 hours per calendar year. [40 CFR §63.6640(f)(2)(i)]

Note:

- The Permittee must maintain compliance with these operating limitations in order to be considered an emergency engine and maintain exemption from other requirements of 40 CFR Part 63 Subpart ZZZZ.
- The 100 hours and any additional approved time used for maintenance checks and readiness testing as described in Section III.C.3.a of this Title V permit shall count towards the hours of operation in Sections III.C.1.a.i, ii and iii of this Title V permit.
- b. Monitoring and Testing Requirements
 - i. Each engine must be equipped with a non-resettable hour meter. [40 CFR §63.6625(f)]
 - ii. Record keeping specified in Section III.C.3.c of this Title V permit shall be sufficient to meet other Monitoring and Testing Requirements pursuant to RCSA §22a-174-33.
 [RCSA §22a-174-33(j)(1)(K)(ii)]
- c. Record Keeping Requirements

The Permittee must keep records of the operation of the engine in emergency and non-emergency service through the non-resettable hour meter. The Permittee must record the time of operation of the engine and the reason the engine was in operation during that time.

[40 CFR §63.6655(f)]

d. Reporting Requirements

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA 22a-174-33(j)(1)(X)]

4. 40 CFR Part 60 Subpart JJJJ – Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

EU-1284, 1285, 1330, 1331, 1332, 1348, 1435 ONLY

Classification:

- Emergency Spark Ignition Engine constructed after June 12, 2006 where the engine was manufactured on or after January 1, 2009
- Pursuant to 40 CFR §63.6590(c), these emergency engines meet the requirements of 40 CFR Part 63 Subpart ZZZZ by complying with 40 CFR Part 60 Subpart JJJJ.
- The Permittee should re-evaluate the requirements of 40 CFR Part 60 Subpart JJJJ if any of the above conditions change.

a. Limitation or Restriction

- i. The Permittee shall comply with the applicable emission standards for all pollutants for a new spark ignition emergency engine as listed in 40 CFR §§60.4233(d) and (e) and 40 CFR Part 60 Subpart JJJJ, Table 1 by purchasing an engine certified according to the procedures specified in 40 CFR Part 60 Subpart JJJJ for the same model year.

 [40 CFR §60.4243(b)(1)]
- ii. The Permittee shall operate and maintain the engines to achieve the emission standards as required in 40 CFR §60.4233 over the entire life of the engine. [40 CFR §60.4234]
- iii. The Permittee shall operate and maintain each certified stationary SI internal combustion engine according to the manufacturer's emission related written instructions.

 [40 CFR §60.4243(a)(1)]
- iv. The Permittee may operate the emergency stationary RICE for a maximum of 100 hours per calendar year for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The Permittee may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of the emergency engine beyond 100 hours per calendar year.

 [40 CFR §60.4243(d)(2)(i)]

Note:

- The Permittee must maintain compliance with these operating limitations in order to be considered an emergency engine and maintain exemption from other requirements of 40 CFR Part 60 Subpart JJJJ.
- The 100 hours and any additional approved time used for maintenance checks and readiness testing as described in Section III.C.4.a.iv of this Title V permit shall count towards the hours of operation in Section III.C.1.a of this Title V permit.
- b. Monitoring and Testing Requirements

Record keeping specified in Section III.C.4.c of this Title V permit shall be sufficient to meet other Monitoring and Testing Requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(1)(K)(ii)]

- c. Record Keeping Requirements
 - i. The Permittee shall comply with all record keeping requirements of the General Provisions in 40 CFR §\$60.1 through 60.19, inclusive, as specified in 40 CFR Part 60 Subpart JJJJ, Table 3. [40 CFR §60.4246]
 - ii. The Permittee shall keep records of maintenance conducted on each engine. [40 CFR §60.4245(a)(2)]
 - iii. The Permittee shall keep documentation from the manufacturer certifying compliance with the emissions standards in Sections III.C.4.a.i of this Title V permit. [40 CFR §60.4245(a)(3)]

iv. The Permittee shall keep records of all notifications submitted to comply with 40 CFR Part 60 Subpart JJJJ and all documentation supporting any notification.

[40 CFR §60.4245(a)(1)]

d. Reporting Requirements

The Permittee shall comply with all reporting requirements of the General Provisions in 40 CFR §§60.1 through 60.19, inclusive, as specified in 40 CFR Part 60 Subpart JJJJ, Table 3. [40 CFR §60.4246]

D. GROUPED EMISSIONS UNIT 7 (GEU-7): Combustion Turbines with Duct Burners

EU-600, 601, 602: Three - 7 MW Solar Taurus Model 70 combustion turbines with 60 MMBtu/hr duct burners - Central Utility Plant

Classification:

- Operating under Permit Nos. 098-0056, 098-0061, 098-0062
- Subject to RCSA §22a-174-22e
- Subject to 40 CFR Part 60 Subparts Dc (duct burners) and GG (turbines)

1. Fuel Type and Consumption, Sulfur Content in Fuel Oil and Natural Gas, Continuous Emission Monitoring Requirements

- a. Limitation or Restriction
 - i. Fuel Type: [P 098-0056, 098-0061, 098-0062]
 - (A) Combustion turbines: the Permittee shall only burn No. 2 fuel oil or natural gas.
 - (B) Duct burners: the Permittee shall only burn natural gas.
 - ii. Maximum Fuel Consumption: [P 098-0056, 098-0061, 098-0062]
 - (A) Combustion turbines:
 - (1) No. 2 fuel oil: total of 2,781,900 gallons over any consecutive 12-month period for EU-600, EU-601 and EU-602, combined.
 - (2) Natural gas: total of 2,089.37 MMcf [(0.079504 MMcf/hr) x (Operating Hours Firing Oil)] over any consecutive 12-month period for EU-600, EU-601 and EU-602 combined.
 - (B) Duct burners: total of 1,410.54 MMcf over any consecutive 12-month period for EU-600, EU-601 and EU-602, combined.
 - iii. Sulfur Content in Fuel Oil and Natural Gas
 - (A) The sulfur content in the fuel shall not exceed 15 ppm by weight. [RCSA §22a-174-19(b)]
 - (B) Combustion turbines and duct burners: natural gas: maximum sulfur content shall not exceed 20.0 grains/100 scf. [40 CFR §60.331, P 098-0056, 098-0061, 098-0062]

- iv. Continuous Emission Monitoring Requirements [P 098-0056, 098-0061, 098-0062]
 - (A) Combustion turbines:
 - (1) Operational Parameter: fuel flow to each turbine
 - (2) Averaging times: continuous
 - (B) Duct burners:
 - (1) Operational Parameter: fuel flow to each duct burner
 - (2) Averaging times: continuous
- b. Monitoring and Testing Requirements
 - i. The Permittee shall install fuel-metering devices to continuously monitor fuel flow to each turbine and duct burner. [P 098-0056, 098-0061, 098-0062]
 - ii. The Permittee shall operate the turbine and duct burner using good combustion practices. [P 098-0056, 098-0061, 098-0062]
 - iii. The Permittee shall comply with the requirements of RCSA §22a-174-4, Source Monitoring, Record Keeping and Reporting. [P 098-0056, 098-0061, 098-0062]
- c. Record Keeping Requirements
 - i. The Permittee shall keep records of annual fuel consumption for each turbine and each duct burner separately. Annual fuel consumption shall be based on any consecutive 12-month time period and shall be determined by adding (for each fuel) the current month's fuel usage to that of the previous 11 months. The Permittee shall make these calculations within 30 days of the end of the previous month. [P 098-0056, 098-0061, 098-0062]
 - ii. The Permittee shall keep records of the fuel certification for each delivery of fuel from a bulk petroleum provider or a copy of the current contract with the fuel supplier supplying the fuel used by the equipment that includes the applicable sulfur content of the fuel as a condition of each shipment. The shipping receipt or contract shall include the date of delivery, the name of the fuel supplier, type of fuel delivered, the percentage of sulfur in such fuel, by weight, dry basis, and the method used to determine the sulfur content of such fuel. [P 098-0056, 098-0061, 098-0062]
 - iii. The Permittee shall keep records of the amount of natural gas combusted during each day in each duct burner. [40 CFR Part 60 Subpart Dc]
 - iv. The Permittee shall keep records of a current valid purchase contract, tariff sheet, or transportation contract which demonstrates the maximum total sulfur content of the natural gas burned in the combustion turbines. [40 CFR Part 60 Subpart GG]
 - v. The Permittee shall keep records on premises indicating continual compliance with all above conditions at all times and shall make them available upon request by the commissioner for the duration of Permit Nos. 098-0056, 098-0061, 098-0062, or for the previous five years, whichever is less. [P 098-0056, 098-0061, 098-0062]

d. Reporting Requirements

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA $\S22a-174-33(j)(1)(X)$]

2. Hours of Operation

a. Limitation or Restriction

Combustion turbines: No. 2 fuel oil: total of 4,500 hours over any consecutive 12-month period for EU-600, EU-601 and EU-602 combined. [P 098-0056, 098-0061, 098-0062]

b. Monitoring and Testing Requirements

Record keeping specified in Section III.D.2.c of this Title V permit shall be sufficient to meet other Monitoring and Testing Requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(1)(K)(ii)]

- c. Record Keeping Requirements
 - i. The Permittee shall keep records of the annual operating hours of the combustion turbine for operations firing No. 2 fuel oil. Operating hours shall be recorded to the nearest 0.1 hour. The annual operating hours firing oil shall be based on any consecutive 12-month time period and shall be determined by adding the current month's operating hours firing oil to that of the previous 11 months. The Permittee shall make these calculations within 30 days of the end of the previous month. [P 098-0056, 098-0061, 098-0062]
 - ii. The Permittee shall keep records on premises indicating continual compliance with all above conditions at all times and shall make them available upon request by the commissioner for the duration of Permit Nos. 098-0056, 098-0061, 098-0062, or for the previous five years, whichever is less. [P 098-0056, 098-0061, 098-0062]

d. Reporting Requirements

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

3. PM/PM₁₀, SOx, VOC, CO, Pb, Ammonia

a. Limitation or Restriction

The Permittee shall not exceed the emission limits stated herein at any time, as determined in accordance with the applicable limitations or restrictions in Section III.D.1 of this Title V permit or as specified in an approved stack test protocol, except during periods of start-up, shutdown, and/or malfunction. [P 098-0056, 098-0061, 098-0062]

i. PM/PM₁₀: [P 098-0056, 098-0061, 098-0062]

- (A) Natural gas: combustion turbines: Emissions of PM/PM₁₀ shall not exceed 2.10 lb/hr for each combustion turbine.
- (B) No. 2 fuel oil: combustion turbines:
 - (1) Emissions of PM/PM₁₀ shall not exceed 3.00 lb/hr for each combustion turbine.
 - (2) Emissions of PM/PM₁₀ shall not exceed 6.75 TPY for EU-600, EU-601 and EU-602 combined.
- (C) Natural gas: duct burners: Emissions of PM/PM₁₀ shall not exceed 0.44 lb/hr for each duct burner.
- (D) Total Allowable Emissions for three combustion turbines and three duct burners: Emissions of PM/PM₁₀ shall not exceed 34.98 TPY for EU-600, EU-601 and EU-602.
- ii. SOx: [P 098-0056, 098-0061, 098-0062]
 - (A) Natural gas: combustion turbines: Emissions of SOx shall not exceed 0.32 lb/hr for each combustion turbine.
 - (B) No. 2 fuel oil: combustion turbines:
 - (1) Emissions of SOx shall not exceed 4.32 lb/hr for each combustion turbine.
 - (2) Emissions of SOx shall not exceed 9.73 TPY for EU-600, EU-601 and EU-602 combined.
 - (C) Natural gas: duct burners: Emissions of SOx shall not exceed 0.04 lb/hr for each duct burner.
 - (D) Total Allowable Emissions for three combustion turbines and three duct burners: Emissions of SOx shall not exceed 13.17 TPY for EU-600, EU-601 and EU-602.
- iii. VOC: [P 098-0056, 098-0061, 098-0062]
 - (A) Natural gas: combustion turbines: Emissions of VOC shall not exceed 0.33 lb/hr for each combustion turbine.
 - (B) No. 2 fuel oil: combustion turbines:
 - (1) Emissions of VOC shall not exceed 5.41 lb/hr for each combustion turbine.
 - (2) Emissions of VOC shall not exceed 12.18 TPY for EU-600, EU-601 and EU-602 combined.
 - (C) Natural gas: duct burners: Emissions of VOC shall not exceed 0.18 lb/hr for each duct burner.
 - (D) Total Allowable Emissions for three combustion turbines and three duct burners: Emissions of VOC shall not exceed 17.38 TPY for EU-600, EU-601 and EU-602.
- iv. CO: [P 098-0056, 098-0061, 098-0062]

- (A) Natural gas: combustion turbines: Emissions of CO shall not exceed 2.08 lb/hr and 10 ppmvd at 15% O₂ for each combustion turbine.
- (B) No. 2 fuel oil: combustion turbines:
 - (1) Emissions of CO while operating at 80-100% load shall not exceed 10 ppmvd at 15% O₂ for each combustion turbine.
 - (2) Emissions of CO while operating at 55-79.9% load shall not exceed 20 ppmvd at 15% O₂ for each combustion turbine.
 - (3) Emissions of CO shall not exceed 3.44 lb/hr for each combustion turbine.
 - (4) Emissions of CO shall not exceed 7.73 TPY for EU-600, EU-601 and EU-602 combined.
- (C) Natural gas: duct burners: Emissions of CO shall not exceed 0.98 lb/hr for each duct burner.
- (D) Total Allowable Emissions for three combustion turbines and three duct burners: Emissions of CO shall not exceed 39.03 TPY for EU-600, EU-601 and EU-602.
- v. Pb: [P 098-0056, 098-0061, 098-0062]
 - (A) No. 2 fuel oil: combustion turbines:
 - (1) Emissions of Pb shall not exceed 1.20E-03 lb/hr for each combustion turbine.
 - (2) Emissions of Pb shall not exceed 2.70E-03 TPY for EU-600, EU-601 and EU-602 combined.
 - (B) Natural gas: duct burners: Emissions of Pb shall not exceed 2.92E-05 lb/hr for each duct burner.
 - (C) Total Allowable Emissions for three combustion turbines and three duct burners: Emissions of Pb shall not exceed 3.05E-03 TPY for EU-600, EU-601 and EU-602 combined.
- vi. Ammonia: [P 098-0056, 098-0061, 098-0062] Emissions of Ammonia shall not exceed 10 ppmvd at 15% O₂.
- vii. The Permittee shall maintain a current EO&M Plan on-site and shall update it on a yearly basis and kept on site. The EO&M Plan shall apply to all equipment covered by Permit Nos. 098-0056, 098-0061 and 098-0062 and shall include, but not be limited to, consideration of: maintenance of spare parts, start-up/shut-down provisions, procedures, protocols, and methodologies for demonstrating continuous compliance with applicable emission limitations. Any revision to this plan which conflicts or may conflict with any condition of Permit Nos. 098-0056, 098-0061 and 098-0062 shall be reviewed by the commissioner and shall receive the commissioner's written approval prior to such revision. [P 098-0056, 098-0061, 098-0062]
- viii. The Permittee shall demonstrate compliance with the allowable emission limits in this Title V permit by calculating the emission rates using emission factors from the following sources: [P 098-0056, 098-0061, 098-0062]

- (A) Duct Burner Emissions: AP-42 5th Edition (7/98)
 - (1) CO: 84 lb/MMcf Section 1.4, Table 1.4-1
 - (2) VOC: 5.5 lb/MMcf Section 1.4, Table 1.4-2
 - (3) SOx: 0.6 lb/MMcf Section 1.4, Table 1.4-2
 - (4) PM/PM₁₀: 7.6 lb/MMcf Section 1.4, Table 1.4-2
- (B) Uncontrolled Turbine Emissions (Natural Gas) @ 50-100% load: Solar Turbines
 - (1) CO: 10.40 lb/hr, 50 ppmvd@15% O₂
 - (2) VOC: 0.60 lb/hr, 25 ppmvd@15% O₂
 - (3) SOx: 3.4E-3 lb/MMBtu AP42 Section 3.1, Table 3.1-2a, 5th Edition (4/00)
 - (4) PM/PM₁₀: 2.10 lb/hr
- (C) Uncontrolled Turbine Emissions (No. 2 Fuel Oil) @ 55-79.9% load: Solar Turbines
 - (1) CO: 17.18 lb/hr, 100 ppmvd@15% O₂
 - (2) VOC: 9.84 lb/hr, 100 ppmvd@15% O₂
 - (3) SOx: 0.0505 lb/MMBtu AP42 Section 3.1, Table 3.1-2a, 5th Edition (4/00)
 - (4) PM/PM₁₀: 2.55 lb/hr
 - (5) Pb: 1.4E-05 lb/MMBtu AP42 Section 3.1, Table 3.1-5, 5th Edition (4/00)
- (D) Uncontrolled Turbine Emissions (No. 2 Fuel Oil) @ 80-100% load: Solar Turbines
 - (1) CO: 10.13 lb/hr, 96 ppmvd@15% O₂
 - (2) VOC: 2.90 lb/hr, 25 ppmvd@15% O₂
 - (3) SOx: 0.0505 lb/MMBtu AP42 Section 3.1, Table 3.1-2a, 5th Edition (4/00)
 - (4) PM/PM_{10} : 3.00 lb/hr
 - (5) Pb: 1.4E-05 lb/MMBtu AP42 Section 3.1, Table 3.1-5, 5th Edition (4/00)

The above statement shall not preclude the commissioner from requiring other means (e.g., stack testing) to demonstrate compliance with the above emission limits, as allowed by state or federal statute, law or regulations.

- b. Monitoring and Testing Requirements
- i. The Permittee shall conduct recurrent stack testing for CO, PM₁₀ and Ammonia within five years from the previous stack test to demonstrate compliance with the limits in Section III.D.3.a of this

Title V permit. [P 098-0056, 098-0061, 098-0062]

ii. The Permittee shall conduct stack testing for all fuels and for combined operations of each turbine and duct burner to show compliance with the limits in Section III.D of this Title V permit. [P 098-0056, 098-0061, 098-0062]

c. Record Keeping Requirements

- i. The Permittee shall keep records of PM/PM₁₀, SOx, VOC, CO, Pb, Ammonia and Formaldehyde annual emissions. Annual emissions shall be based on any consecutive 12-month time period and shall be determined by adding the current month's emissions to that of the previous 11 months. The Permittee shall make these calculations within 30 days of the end of the previous month. [P 098-0056, 098-0061, 098-0062]
- ii. The Permittee shall keep records on premises indicating continual compliance with all above conditions at all times and shall make them available upon request by the commissioner for the duration of P 098-0056, 098-0061, 098-0062, or for the previous five years, whichever is less. [P 098-0056, 098-0061, 098-0062]

d. Reporting Requirements

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA $\S 22a-174-33(j)(1)(X)$]

4. NOx

a. Limitation or Restriction

The Permittee shall not exceed the emission limits stated herein at any time, as determined in accordance with the applicable limitations or restrictions in Section III.D.1 of this Title V permit or as specified in an approved stack test protocol, except during periods of start-up, shutdown, and/or malfunction. [P 098-0056, 098-0061, 098-0062]

- i. Natural gas: combustion turbine: Emissions of NOx shall not exceed 0.85 lb/hr and 2.5 ppmvd at 15% O₂ for each combustion turbine. [P 098-0056, 098-0061, 098-0062]
- ii. No. 2 fuel oil: combustion turbines: [P 098-0056, 098-0061, 098-0062]
 - (A) Emissions of NOx operating at 80-100% load shall not exceed 9.6 ppmvd at 15% O₂ for each combustion turbine.
 - (B) Emissions of NOx operating at 55-79.9% load shall not exceed 12 ppmvd at 15% O2 for each combustion turbine.
 - (C) Emissions of NOx shall not exceed 3.25 lb/hr for each combustion turbine.
 - (D) Emissions of NOx shall not exceed 7.31 TPY for EU-600, EU-601 and EU-602 combined.
- iii. Natural gas: duct burners: Emissions of NOx shall not exceed 0.58 lb/hr for each duct burner. [P 098-0056, 098-0061, 098-0062]

- iv. Total Allowable Emissions for three combustion turbines and three duct burners: Emissions of NOx shall not exceed 22.35 TPY for EU-600, EU-601 and EU-602. [P 098-0056, 098-0061, 098-0062]
- v. The Permittee shall not cause or allow an emission unit to exceed the following: [RCSA §§22a-174-22e(d)(5)(A) and (C)]
 - (A) Phase I (Beginning June 1, 2018 and ending May 31, 2023)

Natural Gas: 42 ppmvd

No. 2 fuel Oil: 65 ppmvd

(B) Phase II (Beginning June 1, 2023 and continuing thereafter)

Natural Gas: 25 ppmvd

No. 2 fuel Oil: 42 ppmvd

vi. The Permittee of an emission unit shall not cause or allow an emission unit to exceed the applicable emissions limitations specified in Section III.D.4.a.iv.(B) in this Title V permit unless the Permittee undertakes one of the following actions:

[RCSA §§22a-174-22e(d)(1)(A), (B) and (C)]

- (A) Implements an alternative compliance mechanism as provided in RCSA §22a-174-22e(g);
- (B) Operates under a case-by-case RACT determination as provided in RCSA §22a-174-22e(h);
- (C) Ceases operation as provided in RCSA §22a-174-22e(f).
- b. Monitoring and Testing Requirements
 - The Permittee shall conduct recurrent stack testing for NOx within five years from the previous stack test to show compliance with the limits in Section III.D.4.a of this Title V permit. [P 098-0056, 098-0061, 098-0062]
 - ii. The Permittee shall conduct stack testing for all fuels and for combined operations of the turbine and duct burner to show compliance with the limits in Section III.D of this Title V permit. [P 098-0056, 098-0061, 098-0062]
 - iii. The Permittee shall operate and maintain this equipment in accordance with the manufacturer's specifications and written recommendations. [P 098-0056, 098-0061, 098-0062]
 - iv. The Permittee shall comply with the requirements of RCSA §22a-174-4, Source Monitoring, Record Keeping and Reporting. [P 098-0056, 098-0061, 098-0062]
 - v. The Permittee shall conduct an initial NOx emissions test on each emission on a date during Phase 1 that is no more than 63 calendar months following the date of the last emission test performed pursuant to former RCSA §22a-174-22(k).

[RCSA §22a-174-22e(1)(4)]

vi. The Permittee of an existing emission unit subject to RCSA §22a-174-22e shall conduct the emission test following the initial emissions test on a date after May 31, 2023 and no later than June 1, 2025. Subsequently, the Permittee shall conduct emission tests within every 63 calendar months following the date the previous emission test was conducted or the date the previous emission test was required to be conducted, whichever is earlier. [RCSA §22a-174-22e(1)(5)]

c. Record Keeping Requirements

i. The Permittee shall keep records of NOx annual emissions. Annual emissions shall be based on any consecutive 12-month time period and shall be determined by adding the current month's emissions to that of the previous 11 months. The Permittee shall make these calculations within 30 days of the end of the previous month.

[P 098-0056, 098-0061, 098-0062]

- ii. The Permittee shall demonstrate compliance with emission limits for the combustion turbines and duct burners by calculating the emission rates using emission factors provided by the combustion turbine manufacturer or from AP-42.
 [P 098-0056, 098-0061, 098-0062]
- iii. The Permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction of the operation of the combustion turbines or duct burners. The Permittee shall also maintain records of the malfunction of any air pollution control equipment or any periods during which a continuous monitoring system or monitoring device is inoperative.

 [40 CFR Part 60 Subpart A]
- iv. The Permittee shall make and keep records of the date and work performed for repairs, replacement of parts and other maintenance. [RCSA §22a-174-22e(j)(2)(B)]
- v. The Permittee shall make and keep copies of all documents submitted to the commissioner pursuant to RCSA §22a-174-22e. [RCSA §22a-174-22e(j)(2)(F)]
- vi. The Permittee shall keep records on premises indicating continual compliance at all times and shall make them available upon request by the commissioner for the duration of Permit 098-0056, 098-0061, 098-0062, or for the previous five years, whichever is less.

 [P 098-0056, 098-0061, 098-0062, RCSA §22a-174-22e(j)(1)]

d. Reporting Requirements

- i. The Permittee shall submit and maintain an updated standby plan pursuant to RCSA §22a-174-6, "Air Pollution" emergency episode procedures. [P 098-0056, 098-0061, 098-0062]
- ii. The Permittee shall submit a written report of the results of stack testing conducted in accordance with Section III.D.4.b of this Title V permit to the commissioner not later than 60 days after completion of the testing. [RCSA §22a-174-22e(k)(1)]
- iii. The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

5. Control Equipment

a. Limitation or Restriction

The Permittee shall use Selective Catalytic Reduction, Dry Low NOx Combustor and Oxidation Catalyst to achieve emissions limits in Section III.D of this Title V permit. [P 098-0056, 098-0061, 098-0062]

b. Monitoring and Testing Requirements

The Permittee shall comply with the requirements of RCSA §22a-174-7. [P 098-0056, 098-0061, 098-0062]

c. Record Keeping Requirements

The Permittee shall maintain records sufficient to determine compliance with the limitation or restriction in Section III.D.5.a of this Title V permit. [RCSA §22a-174-33(j)(1)(K)]

d. Reporting Requirements

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA $\S 22a-174-33(j)(1)(X)$]

E. GROUPED EMISSIONS UNIT 8 (GEU-8): Small Boilers and Heating Equipment

Small boilers and heating equipment operating under collateral conditions in P 098-0056, 098-0061, 098-0062

Subgroup 1: Nine Laars RHEOS+ Model 1600 and three Laars RHEOS+ Model 2000 natural gas fired boilers or equivalent – Hilltop Apartments

Subgroup 2: All natural gas fired heating equipment – Charter Oak Apartments and Suites, Husky Village, Hilltop Apartments Community Center (2353 Alumni Drive), and Hilltop Apartments Building No. 22 (22 Husky Circle)

Subgroup 3: All natural gas fired heating equipment – Hilltop Suites

Small boilers and heating equipment operating under collateral conditions in P 098-0026

Subgroup 4: All natural gas fired heating equipment – Next Generation Connecticut Hall

Subgroup 5: All natural gas fired heating equipment – Northwood Apartments

Subgroup 6: All natural gas fired heating equipment – Innovation Partnership Building

1. Fuel Consumption

- a. Limitation or Restriction
 - i. Subgroup 1: Total natural gas consumption over any consecutive 12-month period shall not exceed 536,112 ccf for the 12 Laars boilers or equivalent located at Hilltop Apartments, combined. [P 098-0056, 098-0061, 098-0062]

- ii. Subgroup 2: Total natural gas consumption over any consecutive 12-month period shall not exceed 689,482 ccf for all natural gas fired heating equipment located at Charter Oak Apartments and Suites, Husky Village, Hilltop Apartments Community Center and Hilltop Apartments Building No. 22, combined. [P 098-0056, 098-0061, 098-0062]
- iii. Subgroup 3: Total natural gas consumption over any consecutive 12-month period shall not exceed 142,700 ccf for all natural gas fired heating equipment located at Hilltop Suites, combined. [P 098-0056, 098-0061, 098-0062]
- iv. Subgroup 4: Total natural gas consumption over any consecutive 12-month period shall not exceed 28,905,372 ft³ for all natural gas fired heating equipment located at the Next Generation Connecticut Hall. [P 098-0026]
- v. Subgroup 5: Total natural gas consumption over any consecutive 12-month period shall not exceed 39,104,640 ft³ for all natural gas fired heating equipment located at the Northwood Apartments. [P 098-0026]
- vi. Subgroup 6: Total natural gas consumption over any consecutive 12-month period shall not exceed 70,693,200 ft³ for all natural gas fired heating equipment located at the Innovation Partnership Building. [P 098-0026]

b. Monitoring and Testing Requirements

The Permittee shall monitor total monthly and total consecutive 12-month fuel consumption for each subgroup listed above. [P 098-0056, 098-0061, 098-0062, 098-0026]

c. Record Keeping Requirements

i. The Permittee shall keep records of the total monthly and total annual fuel consumption for the equipment at each subgroup listed above. These records shall be obtained from monthly utility billing records. Annual fuel consumption shall be based on the fuel consumption determined from any 12 consecutive months of billing records and shall be calculated by adding the fuel consumption from the current month's billing records to the fuel consumption obtained from the previous 11 months of billing records.

Subgroups 1, 2 and 3: The Permittee shall make these calculations within 30 days after the date that each month's billing records become available. [P 098-0056, 098-0061, 098-0062]

Subgroups 4, 5 and 6: The Permittee shall make these calculations within 30 days of the end of the previous month. [P 098-0026]

ii. The Permittee shall keep records on the premises indicating continual compliance with the applicable fuel consumption limits at all times and shall make them available upon request by the commissioner for the duration of Permit 098-0056, 098-0061, 098-0062 and 098-0026, or for the previous five years, whichever is less.

[P 098-0056, 098-0061, 098-0062, 098-0026]

d. Reporting Requirements

The Permittee shall submit additional information in writing, at the commissioner's request, within 30

days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA $\S 22a-174-33(j)(1)(X)$]

F. GROUPED EMISSIONS UNIT 9 (GEU-9): Natural Gas Fired Boilers

EU-442: 6.65 MMBtu/hr Weil-McLain No. 1 – natural gas fired boiler – Putnam Refectory **EU-443**: 6.65 MMBtu/hr Weil-McLain No. 2 – natural gas fired boiler – Putnam Refectory

Classification:

- Subject to RCSA §22a-174-22e
- Not subject to RCSA §22a-174-3a

1. NOx

- a. Limitation or Restriction
 - i. The Permittee shall not cause or allow EU-442 or EU-443 to exceed the following emission limitations: [RCSA §§22a-174-22e(d)(3)(A) and (C)]
 - (A) Phase 1: Effective June 1, 2018

Natural gas: 0.20 lb/MMBtu

(B) Phase 2: Effective June 1, 2023

Natural gas: 0.20 lb/MMBtu

ii. Tune-up requirements:

The Permittee shall conduct an inspection and tune-up of each emission unit a minimum of once per calendar year beginning with year 2018. Each subsequent annual tune-up shall be performed no earlier than 180 days after the previous tune-up conducted under this section. The inspection and tune-up of the emission unit shall be conducted according to the manufacturer's recommended procedures, or, if the manufacturer's recommendations are no longer available, according to best available practices. [RCSA §22a-174-22e(i)(1)]

b. Monitoring and Testing Requirements

- i. The Permittee shall conduct an initial emissions test on a date during Phase 1 that is no more than 63 calendar months following the date of the last emission test performed pursuant to former RCSA §22a-174-22(k). [RCSA §22a-174-22e(l)(4)]
- ii. The Permittee shall conduct the emission test following the initial emissions test on a date after May 31, 2023 and no later than June 1, 2025. Subsequently, the Permittee shall conduct emission tests within every 63 calendar months following the date the previous emission test was conducted or the date the previous emission test was required to be conducted, whichever is earlier. [RCSA §22a-174-22e(1)(5)]
- iii. The Permittee shall conduct stack testing in accordance with RCSA §22a-174-22e(l). [RCSA §22a-174-22e]

c. Record Keeping Requirements

- i. The Permittee shall make and keep records of the date and work performed for repairs, replacement of parts and other maintenance. [RCSA §22a-174-22e(j)(2)(B)]
- ii. The Permittee shall make and keep records of the dates and times of all emission testing required by RCSA §22a-174-22e, the persons performing the measurements, the testing methods used, the operating conditions at the time of testing, and the results of such testing.

 [RCSA §22a-174-22e(j)(2)(C)]
- iii. The Permittee shall make and keep records for each tune-up, for each emission unit in accordance with RCSA §22a-174-22e(j)(2)(E). [RCSA §22a-174-22e(j)(2)(E)]
- iv. The Permittee shall make and keep copies of all documents submitted to the commissioner pursuant to RCSA §22a-174-22e and any other records or reports required by an order or permit issued by the commissioner pursuant to RCSA §22a-174-22e. [RCSA §\$22a-174-22e(j)(2)(F) and 22a-174-22e(j)(2)(G)]

d. Reporting Requirements

The Permittee shall submit a written report of the results of the stack testing to the commissioner not more than 60 days after the completion of emission tests. [RCSA §22a-174-22e(k)(1)]

G. GROUPED EMISSIONS UNIT 10 (GEU-10): Emergency Engines

EU-1: 3.88 MMBtu/hr (568 hp) Kohler No. 2 fuel oil fired emergency engine – Beach Building
 EU-2: 6.65 MMBtu/hr (947 hp) Kohler No. 2 fuel oil fired emergency engine – School of Psychology
 EU-9: 4.6 MMBtu/hr (643 hp) Kohler Diesel or No. 2 fuel oil fired emergency engine – Fenton River Well Field

EU-63: 4.7 MMBtu/hr (838 hp) Onan Diesel fired emergency engine – Water Pollution Control Facility

Classification:

- Emergency engines operating under NSR Permit Nos. 098-0011, 098-0012, 098-0019, 098-0054
- Subject to RCSA §22a-174-22e
- Subject to RCSA §40 CFR Part 63 Subpart ZZZZ

1. Maximum Hours of Operation

- a. Limitation or Restriction
 - i. EU-1, 2, 9: The Permittee shall not exceed 170 hours of operation per engine over any consecutive 12-month period. [P 098-0011, 098-0012, 098-0019]
 - ii. EU-63: The Permittee shall not exceed 500 hours of operation over any consecutive 12-month period. [P 098-0054]
 - iii. The Permittee shall operate each engine as an emergency engine as defined in RCSA 22a-174-22e(a)(13). [RCSA §§22a-174-22e and 22a-174-33(j)(1)(K)(ii)]

b. Monitoring and Testing Requirements

The Permittee shall monitor annual operating hours for each engine. [P 098-0011, 098-0012, 098-0019, 098-0054]

c. Record Keeping Requirements

- i. The Permittee shall keep records of monthly and annual operating hours for each engine. Annual operating hours shall be based on any 12 consecutive month period and shall be determined by adding the current month's operating hours to that of the previous 11 months. The Permittee shall make these calculations within 30 days of the end of the previous month. [P 098-0011, 098-0012, 098-0019, 098-0054]
- ii. The Permittee shall keep records on premises indicating continual compliance with all above conditions at all times and shall make them available upon request by the commissioner for the duration of Permit Nos. 098-0011, 098-0012, 098-0019 and 098-0054, or for the previous five years, whichever is less.

[P 098-0011, 098-0012, 098-0019, 098-0054]

d. Reporting Requirements

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA 22a-174-33(j)(1)(X)]

2. Fuel Type and Fuel Sulfur Content

- a. Limitation or Restriction
 - i. Fuel Type
 - (A) EU-1, 2: The Permittee shall only burn No. 2 fuel oil in each emergency engine. [P 098-0011, 098-0012]
 - (B) EU-9: The Permittee shall only burn No. 2 fuel oil or diesel fuel oil. [P 098-0019]
 - (C) EU-63: The Permittee shall only burn diesel fuel. [P 098-0054]

ii. Fuel Sulfur Content

EU-1, 9 and EU-2, 63: The sulfur content in the fuel shall not exceed 15 ppm by weight. [RCSA §22a-174-19(b)]

b. Monitoring and Testing Requirements

Record keeping specified in Section III.G.2.c of this Title V permit shall be sufficient to meet other Monitoring and Testing Requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

- i. The Permittee shall keep records of the fuel certification for each delivery of fuel to each engine from a bulk petroleum provider or a copy of the current contract with the fuel supplier supplying the fuel used by the equipment that includes the applicable sulfur content of the fuel as a condition of each shipment. The shipping receipt or contract shall include the date of delivery, the name of the fuel supplier, type of fuel delivered, the percentage of sulfur in such fuel, by weight, dry basis, and the method used to determine the sulfur content of such fuel.

 [P 098-0012, 098-0054, RCSA §22a-174-33]
- ii. The Permittee shall keep records on premises indicating continual compliance with all above conditions at all times and shall make them available upon request by the commissioner for the duration of Permit Nos. 098-0011, 098-0012, 098-0019 and 098-0054, or for the previous five years, whichever is less.

 [P 098-0011, 098-0012, 098-0019, 098-0054]

d. Reporting Requirements

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA $\S 22a-174-33(j)(1)(X)$]

3. TSP/PM₁₀, SOx, NOx, VOC, CO

- a. Limitation or Restriction
 - i. The Permittee shall operate each engine as an emergency engine as defined in RCSA \$22a-174-22e(a)(13). [RCSA §\$22a-174-22e and 22a-174-33(j)(1)(K)(ii)]
 - ii. TSP/PM_{10} :
 - (A) EU-1: emissions shall not exceed 0.10 lb/MMBtu, 0.10 TPY. [P 098-0011]
 - (B) EU-2: emissions shall not exceed 0.10 lb/MMBtu, 0.06 TPY. [P 098-0012]
 - (C) EU-9: emissions shall not exceed 0.10 lb/MMBtu, 0.04 TPY. [P 098-0019]
 - (D) EU-63: emissions shall not exceed 0.10 lb/MMBtu, 0.12 TPY. [P 098-0054]
 - iii. SOx:
 - (A) EU-1: emissions shall not exceed 0.30 lb/MMBtu, 0.10 TPY. [P 098-0011]
 - (B) EU-2: emissions shall not exceed 0.05 lb/MMBtu, 0.03 TPY. [P 098-0012]
 - (C) EU-9: emissions shall not exceed 0.30 lb/MMBtu, 0.12 TPY. [P 098-0019]
 - (D) EU-63: emissions shall not exceed 0.05 lb/MMBtu, 0.06 TPY. [P 098-0054]
 - iv. NOx:
 - (A) EU-1: emissions shall not exceed 4.41 lb/MMBtu, 1.45 TPY. [P 098-0011]

- (B) EU-2: emissions shall not exceed 3.20 lb/MMBtu, 1.81 TPY. [P 098-0012]
- (C) EU-9: emissions shall not exceed 3.20 lb/MMBtu, 1.25 TPY. [P 098-0019]
- (D) EU-63: emissions shall not exceed 3.20 lb/MMBtu, 3.76 TPY. [P 098-0054]

v. VOC:

- (A) EU-1: emissions shall not exceed 0.36 lb/MMBtu, 0.12 TPY. [P 098-0011]
- (B) EU-2: emissions shall not exceed 0.09 lb/MMBtu, 0.05 TPY. [P 098-0012]
- (C) EU-9: emissions shall not exceed 0.09 lb/MMBtu, 0.04 TPY. [P 098-0019]
- (D) EU-63: emissions shall not exceed 0.09 lb/MMBtu, 0.11 TPY. [P 098-0054]

vi. CO:

- (A) EU-1: emissions shall not exceed 0.95 lb/MMBtu, 0.31 TPY. [P 098-0011]
- (B) EU-2: emissions shall not exceed 0.85 lb/MMBtu, 0.48 TPY. [P 098-0012]
- (C) EU-9: emissions shall not exceed 0.85 lb/MMBtu, 0.33 TPY. [P 098-0019]
- (D) EU-63: emissions shall not exceed 0.85 lb/MMBtu, 1.00 TPY. [P 098-0054]

b. Monitoring and Testing Requirements

Record keeping specified in Section III.G.3.c of this Title V permit shall be sufficient to meet other Monitoring and Testing Requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

- i. The Permittee shall calculate emissions using emission factors from AP-42 and SOx: CT DEEP Memorandum 05/23/1991. [P 098-0011, 098-0012, 098-0019, 098-0054]
- ii. The Permittee shall keep records on premises indicating continual compliance with all above conditions at all times and shall make them available upon request by the commissioner for the duration of Permit Nos. 098-0011, 098-0012, 098-0019 and 098-0054, or for the previous five years, whichever is less.

[P 098-0011, 098-0012, 098-0019, 098-0054]

d. Reporting Requirements

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA $\S 22a-174-33(j)(1)(X)$]

4. Operational Conditions and Non-Emergency Operation

a. Limitation or Restriction

Note: RCSA §22a-174-22 was repealed on June 1, 2018 and RCSA §22a-174-22e became effective on December 22, 2016 which made the related language in the existing NSR permits obsolete. The Permittee will not be required to modify the NSR permits at the time of this Title V renewal (Application No. 201806541).

- i. The Permittee of each emergency engine shall not operate the emergency engine for routine, scheduled testing or maintenance on any day for which the commissioner has forecast that ozone levels will be "moderate to unhealthy for sensitive groups" or greater. If, subsequent to the initial forecast of "moderate to unhealthy for sensitive groups" or greater, the forecast is revised to "moderate" or lower, the owner or operator is no longer prohibited from operating the engine for routine, scheduled testing or maintenance for the remainder of that day. An owner or operator of an emergency engine may rely on an ozone forecast of "moderate" or lower obtained after 3 p.m. on the preceding day. Subsequent changes to the ozone forecast after 3 p.m. that forecast ozone levels of "moderate to unhealthy for sensitive groups" or greater shall not obligate the owner or operator to refrain from operation of the emergency engine at the facility on the following day. The commissioner may exempt, by permit or order, the Permittee of an emergency engine from this subdivision if such emergency engine is unattended and the testing is automated and cannot be modified from a remote location. [RCSA §22a-174-22e(d)(14)]
- ii. The Permittee shall operate each engine as an emergency engine as defined in RCSA 22a-174-22e(a)(13). [RCSA §§22a-174-22e and 22a-174-33(j)(1)(K)(ii)]
- b. Monitoring and Testing Requirements

Record keeping specified in Section III.G.4.c of this Title V permit shall be sufficient to meet other Monitoring and Testing Requirements pursuant to RCSA §22a-174-33. [RCSA §§22a-174-33(j)(1)(K)(ii) and 22a-174-22e(c)(5)]

c. Record Keeping Requirements

The Permittee shall retain all records and reports produced pursuant to this section for five years. Such records and reports shall be available for inspection at reasonable hours by the commissioner or the Administrator. Such records and reports shall be retained at the premises where the emission unit is located, unless the commissioner approves in writing the use of another location in Connecticut. [RCSA §§22a-174-22e(j)(1) and 22a-174-33(j)(1)(K)(ii)]

- i. Daily records of operating hours of each engine, identifying the operating hours of emergency and non-emergency use. [P 098-0011, 098-0012, 098-0019, 098-0054]
- ii. Records of all tune-ups, repairs, replacement of parts and other maintenance. [P 098-0011, 098-0012, 098-0019, 098-0054]
- iii. The date and work performed for repairs, replacement of parts and other maintenance. [RCSA §22a-174-22e(j)(2)(B)]
- iv. Copies of all documents submitted to the commissioner pursuant to RCSA §22a-174-22e. [RCSA §22a-174-22e(j)(2)(F)]

v. Any other records or reports required by an order or permit issued by the commissioner pursuant to RCSA §22a-174-22e. [RCSA §22a-174-22e(j)(2)(G)]

d. Reporting Requirements

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of the receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

5. 40 CFR Part 63 Subpart ZZZZ – National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

Classification:

- Engine Category: Institutional Emergency
- At the time of this Title V renewal (Application No. 201806541), each unit is an Existing Stationary Engine located at an Area Source of HAPs, constructed before June 12, 2006. The emergency engines meet the definition of Emergency Stationary RICE in 40 CFR §63.6675. The engines operate according to the provisions of 40 CFR §63.6640(f) and are not contractually obligated to be used in Emergency Demand Response (EDR) or for local reliability criteria per 40 CFR §63.6585(f).
- The Permittee should re-evaluate the requirements of 40 CFR Part 63 Subpart ZZZZ if any of the above conditions change.

a. Limitation or Restriction

The Permittee may operate the emergency stationary RICE for a maximum of 100 hours per calendar year for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The Permittee may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of the emergency engine beyond 100 hours per calendar year. [40 CFR §63.6640(f)(2)]

Note:

- The Permittee must maintain compliance with these operating limitations in order to be considered an emergency engine and maintain exemption from other requirements of 40 CFR Part 63 Subpart ZZZZ.
- The 100 hours and any additional approved time used for maintenance checks and readiness testing as described in Section III.G.5.a of this Title V permit shall count towards the hours of operation in Sections III.G.1.a.i and ii of this Title V permit.
- b. Monitoring and Testing Requirements

Record keeping specified in Section III.G.5.c of this Title V permit shall be sufficient to meet other Monitoring and Testing Requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

The Permittee must keep records of the operation of the engine in emergency and non-emergency service through the non-resettable hour meter. The Permittee must record the time of operation of the engine and the reason the engine was in operation during that time.

[40 CFR §63.6655(f)]

d. Reporting Requirements

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

H. GROUPED EMISSIONS UNIT 11 (GEU-11): Emergency Engines

EU-5: 1.55 MMBtu/hr (250 hp) Kohler No. 2 fuel oil fired emergency engine – Biobehavioral Building

EU-8: 2.40 MMBtu/hr (335 hp) Cummins No. 2 fuel oil fired emergency engine – Gampel Pavilion

Classification:

- Emergency engines operating under NSR Permit Nos. 098-0015, 098-0018
- Subject to 40 CFR Part 63 Subpart ZZZZ
- Not subject to RCSA §22a-174-22e

1. Maximum Hours of Operation

- a. Limitation or Restriction
 - i. The Permittee shall not operate each emergency engine for more than 170 hours over any consecutive 12-month period. [P 098-0015, 098-0018]
 - ii. The Permittee shall operate each engine as an emergency engine as defined in RCSA §22a-174-22e(a)(13). [RCSA §822a-174-22e(a) and 22a-174-33(j)(1)(K)(ii)]
- b. Monitoring and Testing Requirements

The Permittee shall monitor monthly and annual operating hours. [P 098-0015, 098-0018]

- c. Record Keeping Requirements
 - i. The Permittee shall keep records of monthly and annual operating hours for each engine. Annual operating hours shall be based on any 12 consecutive month period and shall be determined by adding the current month's operating hours to that of the previous 11 months. The Permittee shall make these calculations within 30 days of the end of the previous month. [P 098-0015, 098-0018]
 - ii. The Permittee shall keep records on premises indicating continual compliance with the permit at all times and shall make them available upon request by the commissioner for the duration of Permit Nos. 098-0015 and 098-0018, or the previous five years, whichever is less. [P 098-0015, 098-0018]

d. Reporting Requirements

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of the receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

2. Fuel Type and Fuel Sulfur Content

- a. Limitation or Restriction
 - i. The Permittee shall only burn No. 2 fuel oil. [P 098-0015, 098-0018]
 - ii. The sulfur content in the fuel shall not exceed 15 ppm by weight. [RCSA §22a-174-19(b)]
- b. Monitoring and Testing Requirements

Record keeping specified in Section III.H.2.c of this Title V permit shall be sufficient to meet other Monitoring and Testing Requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(1)(K)(ii)]

- c. Record Keeping Requirements
 - i. The Permittee shall maintain records of the sulfur content of the fuel combusted and the quantity purchased for combustion. A written certification or a written contract with a fuel supplier is sufficient if the certification or contract identifies:
 - (A) The name of the fuel seller;
 - (B) The type of fuel purchased;
 - (C) The sulfur content of the fuel purchased; and
 - (D) The method used to determine the sulfur content of the fuel purchased. [RCSA $\S 22a-174-19b(g)(3)$]
 - ii. The Permittee shall keep records on premises indicating continual compliance with the conditions of the permit at all times and shall make them available upon request by the commissioner for the duration of Permit Nos. 098-0015 and 098-0018, or for the previous five years, whichever is less. [P 098-0015, 098-0018]
- d. Reporting Requirements

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of the receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

3. TSP/PM₁₀, SOx, NOx, VOC and CO

- a. Limitation or Restriction
 - i. TSP/PM_{10} :
 - (A) EU-5: emissions shall not exceed 0.10 lb/MMBtu, 0.04 TPY. [P 098-0015]
 - (B) EU-8: emissions shall not exceed 0.10 lb/MMBtu, 0.06 TPY. [P 098-0018]
 - ii. SOx:
 - (A) EU-5: emissions shall not exceed 0.30 lb/MMBtu, 0.04 TPY. [P 098-0015]
 - (B) EU-8: emissions shall not exceed 0.30 lb/MMBtu, 0.06 TPY. [P 098-0018]
 - iii. NOx:
 - (A) EU-5: emissions shall not exceed 4.41 lb/MMBtu, 0.58 TPY. [P 098-0015]
 - (B) EU-8: emissions shall not exceed 4.41 lb/MMBtu, 0.90 TPY. [P 098-0018]
 - iv. VOC:
 - (A) EU-5: emissions shall not exceed 0.36 lb/MMBtu, 0.05 TPY. [P 098-0015]
 - (B) EU-8: emissions shall not exceed 0.36 lb/MMBtu, 0.07 TPY. [P 098-0018]
 - v. CO:
 - (A) EU-5: emissions shall not exceed 0.95 lb/MMBtu, 0.13 TPY. [P 098-0015]
 - (B) EU-8: emissions shall not exceed 0.95 lb/MMBtu, 0.19 TPY. [P 098-0018]
- b. Monitoring and Testing Requirements

Record keeping specified in Section III.H.3.c of this Title V permit shall be sufficient to meet other Monitoring and Testing Requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(1)(K)(ii)]

- c. Record Keeping Requirements
 - i The Permittee shall calculate emissions using emission factors from AP-42 and SOx: CT DEEP Memorandum 05/23/1991. [P 098-0015, 098-0018]
 - ii. The Permittee shall keep records on the premises indicating continual compliance with all above conditions at all times and shall make them available upon request by the commissioner for the duration of Permit Nos. 098-0015, 098-0018, or for the previous five years, whichever is less. [P 098-0015, 098-0018]
- d. Reporting Requirements

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of the receipt of notice from the commissioner or by such other date specified by the commissioner,

whichever is earlier. [RCSA $\S 22a-174-33(j)(1)(X)$]

4. 40 CFR Part 63 Subpart ZZZZ – National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

Classification:

- Engine Category: Institutional Emergency
- At the time of this Title V renewal (Application No. 201806541), each unit is an Existing Stationary Engine located at an Area Source of HAPs, constructed before June 12, 2006. The emergency engines meet the definition of Emergency Stationary RICE in 40 CFR §63.6675 and operate according to the provisions of 40 CFR §63.6640(f). The emergency engines are not contractually obligated to be used in Emergency Demand Response (EDR) or for local reliability criteria per 40 CFR §63.6585(f).
- The Permittee should re-evaluate the requirements of 40 CFR Part 63 Subpart ZZZZ if any of the above conditions change.
- a. Limitation or Restriction

The Permittee may operate the emergency stationary RICE for a maximum of 100 hours per calendar year for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The Permittee may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of the emergency engine beyond 100 hours per calendar year. [40 CFR §63.6640(f)(2)]

Note:

- The Permittee must maintain compliance with these operating limitations in order to be considered an emergency engine and maintain exemption from other requirements of 40 CFR Part 63 Subpart ZZZZ.
- The 100 hours and any additional approved time used for maintenance checks and readiness testing as described in Section III.H.4.a of this Title V permit shall count towards the hours of operation in Section III.H.1.a of this Title V permit.
- b. Monitoring and Testing Requirements

Record keeping specified in Section III.H.4.c of this Title V permit shall be sufficient to meet other Monitoring and Testing Requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

The Permittee must keep records of the operation of the engine in emergency and non-emergency service through the non-resettable hour meter. The Permittee must record the time of operation of the engine and the reason the engine was in operation during that time.

[40 CFR §63.6655(f)]

d. Reporting Requirements

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner,

whichever is earlier. [RCSA $\S 22a-174-33(j)(1)(X)$]

I. GROUPED EMISSIONS UNIT 13 (GEU-13): Emergency Engines

- EU-19: 2.50 MMBtu/hr (285 hp) Onan natural gas fired emergency engine Biobehavioral Building No. 4
 EU-20: 0.60 MMBtu/hr (50 hp) Onan natural gas fired emergency engine Ellsworth Hall
 EU-23: 1.06 MMBtu/hr (168 hp) Kohler LPG fired emergency engine Atwater Laboratory
 EU-27: 0.18 MMBtu/hr (25 hp) Onan LPG fired emergency engine Hollister Hall
- EU-30: 1.81 MMBtu/hr (220 hp) Marathon LPG fired emergency engine Facilities Management 0.18 MMBtu/hr (25 hp) Onan LPG fired emergency engine New Fine Arts Building
- EU-42: 0.18 MMBtu/hr (25 hp) Onan LPG fired emergency engine New Fine Arts Building EU-48: 1.2 MMBtu/hr (150 hp) Kohler natural gas fired emergency engine Whitney Hall
- EU-56: 2.93 MMBtu/hr (419 hp) Cummins diesel fired emergency engine Student Health Services EU-57: 2.93 MMBtu/hr (419 hp) Onan diesel fired emergency engine Institute of Material Science
- EU-59: 0.29 MMBtu/hr (66 hp) Kohler emergency diesel fired engine Jorgensen Auditorium
- EU-575: 0.65 MMBtu/hr (82 hp) Kohler LPG fired emergency engine Field House EU-608: 0.28 MMBtu/hr (45 hp) Perkins emergency fired diesel engine Ice Rink
- EU-1314: 1.95 MMBtu/hr (225 hp) Cummins natural gas fired emergency engine Young Building

Classification:

- Engine Category: Institutional Emergency
- Subject to 40 CFR Part 63 Subpart ZZZZ
- Subject to 40 CFR Part 60 Subpart JJJJ
- Not subject to RCSA §§22a-174-3a or 22a-174-22e
- EU-56 and EU-57 were not subject to RCSA §22a-174-3 (Regulations applicable at the time of construction; Construction dates: 1988 and 1970)

1. 40 CFR Part 63 Subpart ZZZZ – National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

Classification:

All except EU-1314

- Engine Category: Institutional emergency
- At the time of this Title V renewal (Application No. 201806541), each unit is an Existing Stationary Engine located at an Area Source of HAPs, constructed before June 12, 2006. The emergency engines meet the definition of Emergency Stationary RICE in 40 CFR §63.6675 and operate according to the provisions of 40 CFR §63.6640(f). The emergency engines are not contractually obligated to be used in Emergency Demand Response (EDR) or for local reliability criteria per 40 CFR §63.6585(f).
- The Permittee should re-evaluate the requirements of 40 CFR Part 63 Subpart ZZZZ if any of the above conditions change.

a. Limitation or Restriction

- i. The Permittee must operate the emergency stationary RICE according to the following requirements:
 - (A) There is no limit on the use of emergency stationary RICE in emergency situations. [40 CFR §63.6640(f)(1)]

- (B) The Permittee may operate the emergency stationary RICE for a maximum of 100 hours per calendar year for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The Permittee may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of the emergency engine beyond 100 hours per calendar year. [40 CFR §63.6640(f)(2)]
- ii. The Permittee may operate the emergency stationary RICE for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing provided in Section III.I.1.a.i.(B) of this Title V permit. [40 CFR §63.6640(f)]

Note:

The Permittee must maintain compliance with these operating limitations in order to be considered an emergency engine and maintain exemption from other requirements of 40 CFR Part 63 Subpart ZZZZ.

b. Monitoring and Testing Requirements

Record keeping specified in Section III.I.1.c of this Title V permit shall be sufficient to meet other Monitoring and Testing Requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

The Permittee must keep records of the operation of the engine in emergency and non-emergency service through the non-resettable hour meter. The Permittee must record the time of operation of the engine and the reason the engine was in operation during that time.

[40 CFR §63.6655(f)]

d. Reporting Requirements

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

2. 40 CFR Part 60 Subpart JJJJ – Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

EU-1314 ONLY

Classification:

- Emergency Spark Ignition Engine constructed after June 12, 2006 where the engine was manufactured on or after January 1, 2009
- Pursuant to 40 CFR §63.6590(c), EU-1314 meets the requirements of 40 CFR Part 63 Subpart ZZZZ by complying with 40 CFR Part 60 Subpart JJJJ.
- The Permittee should re-evaluate the requirements of 40 CFR Part 60 Subpart JJJJ if any of the above conditions change.

a. Limitation or Restriction

- i. The Permittee shall comply with the applicable emission standards for all pollutants for a new spark ignition emergency engine as listed in 40 CFR §60.4233(d) and (e) and 40 CFR Part 60 Subpart JJJJ, Table 1 by purchasing an engine certified according to the procedures specified in 40 CFR Part 60 Subpart JJJJ for the same model year.

 [40 CFR §60.4243(b)(1)]
- ii. The Permittee shall operate and maintain the engines to achieve the emission standards as required in 40 CFR §60.4233 over the entire life of the engine. [40 CFR §60.4234]
- iii. The Permittee shall operate and maintain each certified stationary SI internal combustion engine according to the manufacturer's emission related written instructions.

 [40 CFR §60.4243(a)(1)]
- iv. There is no limit on the use of the emergency stationary RICE in emergency situations. [40 CFR §60.4243(d)(1)]
- v. The Permittee may operate the emergency stationary RICE for a maximum of 100 hours per calendar year for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The Permittee may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the Permittee maintains records indicating that federal, state, or local standards require maintenance and testing of the emergency engine beyond 100 hours per calendar year. [40 CFR §60.4243(d)(2)(i)]
- vi. Emergency stationary RICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing.

 [40 CFR §60.4243(d)(3)]

Note:

The Permittee must maintain compliance with these operating limitations in order to be considered an emergency engine and maintain exemption from other requirements of 40 CFR Part 60 Subpart JJJJ.

b. Monitoring and Testing Requirements

Record keeping specified in Section III.I.2.c of this Title V permit shall be sufficient to meet other Monitoring and Testing Requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(1)(K)(ii)]

- c. Record Keeping Requirements
 - i. The Permittee shall comply with all record keeping requirements of the General Provisions in 40 CFR §\$60.1 through 60.19, inclusive, as specified in 40 CFR Part 60 Subpart JJJJ, Table 3. [40 CFR §60.4246]
 - ii. The Permittee shall keep records of maintenance conducted on each engine. [40 CFR §60.4245(a)(2)]

- iii. The Permittee shall keep documentation from the manufacturer certifying compliance with the emission standards in Section III.I.2.a of this Title V permit. [40 CFR §60.4245(a)(3)]
- iv. The Permittee shall keep records of all notifications submitted to comply with 40 CFR Part 60 Subpart JJJJ and all documentation supporting any notification. [40 CFR §60.4245(a)(1)]

d. Reporting Requirements

The Permittee shall comply with all reporting requirements of the General Provisions in 40 CFR §§60.1 through 60.19, inclusive, as specified in 40 CFR Part 60 Subpart JJJJ, Table 3. [40 CFR §60.4246]

J. GROUPED EMISSIONS UNIT 14 (GEU-14): Four TECOCHILL CH-400 Chillers

EU-1436: TECOCHILL CH-400 Engine-driven chiller with two 161 hp TecoDrive 7400LE natural gas fired non-emergency engines

EU-1437: TECOCHILL CH-400 Engine-driven chiller with two 161 hp TecoDrive 7400LE natural gas fired non-emergency engines

EU-1438: TECOCHILL CH-400 Engine-driven chiller with two 161 hp TecoDrive 7400LE natural gas fired non-emergency engines

EU-1439: TECOCHILL CH-400 Engine-driven chiller with two 161 hp TecoDrive 7400LE natural gas fired non-emergency engines

Classification:

- Non-emergency Spark Ignition Engines
- Not subject to RCSA §22a-174-3a (Each EU)
- Not subject to RCSA §22a-174-22e (Each EU)
- Operating under Collateral Conditions in Permit No. 098-0026
- Subject to 40 CFR Part 60 Subpart JJJJ
- Pursuant to 40 CFR §63.6590(c), EU-1436, EU-1437, EU-1438 and EU-1439 meet the requirements of 40 CFR Part 63 Subpart ZZZZ by complying with 40 CFR Part 60 Subpart JJJJ

1. Fuel Consumption

a. Limitation or Restriction

Total natural gas consumption over any consecutive 12-month period shall not exceed 53,698,800 ft³ for the four emission units listed above combined. [P 098-0026]

b. Monitoring and Testing Requirements

The Permittee shall monitor monthly and consecutive 12-month period natural gas consumption for the emission units listed above. [P 098-0026]

- c. Record Keeping Requirements
 - i. The Permittee shall keep records of monthly and consecutive 12-month period natural gas consumption for the emission units listed above. These records shall be obtained from monthly utility billing records for the four emission units combined. The consecutive 12-month fuel consumption shall be calculated by adding the fuel consumption from the current month's billing record to the fuel

consumption obtained from the previous 11 months of billing records. The Permittee shall make these calculations within 30 days of the end of the previous month. [P 098-0026]

ii. The Permittee shall keep records on the premises indicating continual compliance with the above conditions at all times and shall make them available upon request by the commissioner for the duration of this permit, or for the previous five years, whichever is less. [P 098-0026]

d. Reporting Requirements

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such date specified by the commissioner whichever is earlier. [RCSA 22a-174-33(j)(1)(X)]

2. 40 CFR Part 60 Subpart JJJJ – Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

- a. Limitation or Restriction
 - i. The Permittee shall comply with the applicable emission standards for all pollutants for a new spark ignition emergency engine as listed in 40 CFR §60.4233(e) and 40 CFR Part 60 Subpart JJJJ, Table 1 by purchasing an engine certified according to the procedures specified in 40 CFR Part 60 Subpart JJJ for the same model year. [40 CFR §60.4243(b)(1)]
 - ii. The Permittee shall operate and maintain the engines to achieve the emission standards as required in 40 CFR §60.4233 over the entire life of the engine. [40 CFR §60.4234]
 - iii. The Permittee shall operate and maintain each certified stationary SI internal combustion engine according to the manufacturer's emission related written instructions. [40 CFR §60.4243(a)(1)]
 - iv. The Permittee must maintain and operate appropriately the air-to fuel ratio (AFR) controller on each engine in order to ensure proper operation of the engine and control device to minimize emissions at all times. [40 CFR §§60.4243(g)]

Note:

The Permittee must maintain compliance with these operating limitations in order to maintain exemption from other requirements of 40 CFR Part 60 Subpart JJJJ.

b. Monitoring and Testing Requirements

Record keeping specified in Section III.J.2.c of this Title V permit shall be sufficient to meet other Monitoring and Testing Requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(1)(K)(ii)]

- c. Record Keeping Requirements
 - i. The Permittee shall comply with all record keeping requirements of the General Provisions in 40 CFR §\$60.1 through 60.19, inclusive, as specified in 40 CFR Part 60 Subpart JJJJ, Table 3. [40 CFR §60.4246]
 - ii. The Permittee shall keep records of maintenance conducted on each engine. [40 CFR §60.4245(a)(2)]

- iii. The Permittee shall keep documentation from the manufacturer certifying compliance with the emission standards in Section III.J.2.a of this Title V permit.

 [40 CFR §60.4245(a)(3)]
- iv. The Permittee shall keep records of all notifications submitted to comply with 40 CFR Part 60 Subpart JJJJ and all documentation supporting any notification.
 [40 CFR §60.4245(a)(1)]

d. Reporting Requirements

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such date specified by the commissioner whichever is earlier. [RCSA 22a-174-33(j)(1)(X)]

K. GROUPED EMISSIONS UNIT 15 (GEU-15): Permitted Boilers

EU-1442: 120 MMBtu/hr (NG) and 113.3 MMBtu/hr (oil) Boiler No. 1, Cleaver Brooks Boiler, Central Utility Plant

EU-1443: 120 MMBtu/hr (NG) and 113.3 MMBtu/hr (oil) Boiler No. 2, Cleaver Brooks Boiler, Central Utility Plant

EU-1444: 120 MMBtu/hr (NG) and 113.3 MMBtu/hr (oil) Boiler No. 10, Cleaver Brooks Boiler, Supplemental Utility Plant

Classification:

- Boiler operating under NSR Permit Nos. 098-0063, -0064, -0065
- Subject to RCSA §22a-174-22e
- Subject to 40 CFR Part 60 Subpart Db
- Subject to 40 CFR Part 63 Subpart JJJJJJ

The Permittee shall resubmit for review and approval a best available control technology (BACT) analysis if such construction or phased construction has not commenced within the 18 months following the commissioner's approval of the current BACT determination (permit issue date March 19, 2021) for such construction or phase of construction. [P 098-0063, 098-0064, 098-0065]

1. Fuel Types, Fuel Sulfur Content and Fuel Consumption

- a. Limitation or Restriction
 - i. Maximum fuel consumption over any consecutive 12-month period for Permit Nos. 098-0063, 098-0064 and 098-0065 combined:
 - (A) If boilers burn only natural gas: 510,216,000 CF
 - (B) If boilers burn a combination of natural gas and ULSD:
 - (1) Natural Gas consumption, in CF = {(510,216,000 CF) [(137) X (ULSD Gallons consumed in any consecutive 12-month period)]}
 - (2) ULSD consumption shall not exceed 768,000 gallons in any consecutive 12-month period.
 - ii. Maximum ULSD fuel content (by weight, dry basis) shall not exceed 0.0015%. [P 098-0063, 098-0064, 098-0065]

b. Monitoring and Testing Requirements

The Permittee shall continuously monitor fuel consumption using a non-resettable totalizing fuel meter per boiler. [P 098-0063, 098-0064, 098-0065]

c. Record Keeping Requirements

- i. The Permittee shall keep records of monthly and consecutive 12-month fuel consumption per boiler and combined. The consecutive 12-month fuel consumption shall be determined by adding (for each fuel) the current month's fuel consumption to that of the previous 11 months. The Permittee shall make these calculations within 30 days of the end of the previous month. [P 098-0063, 098-0064, 098-0065]
- ii. The Permittee shall keep records of the fuel certification for each delivery of ULSD from a bulk petroleum provider or a copy of the current contract with the fuel supplier supplying the fuel used by this equipment that includes the applicable sulfur content of the fuel as a condition of each shipment. The shipping receipt or contract shall include the date of delivery, the name of the fuel supplier, type of fuel delivered, the percentage of sulfur in such fuel, by weight, dry basis, and the method used to determine the sulfur content of such fuel. [P 098-0063, 098-0064, 098-0065]

d. Reporting Requirements

- i. The Permittee shall submit report certifying the combustion of only very low sulfur fuel in the reporting period. The reporting period for the reports required under 40 CFR part 60 subpart Db is each six-month period. All reports shall be submitted to the Environmental Protection Agency and shall be postmarked by the 30th day following the end of the reporting period.

 [40 CFR §60.49b(r) and §60.49b(w)]
- ii. The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

2. Boiler and Control Equipment Operations and Continuous Emission Monitoring Requirements

a. Limitation or Restriction

The Permittee shall comply with the CEM requirements as set forth in RCSA §22a-174-4. CEM shall be required for the following pollutant/operational parameters and enforced on the following basis:

i. Opacity: Averaging Time: six-minute block Emission Limit: 10% opacity [P 098-0063, 098-0064, 098-0065]

ii. NOx: Averaging Time: daily block average

Emission Limit: Natural Gas: 0.011 lb/MMBtu

ULSD: 0.098 lb/MMBtu

[P 098-0063, 098-0064, 098-0065]

iii. O₂: Averaging Time: one hour block [P 098-0063, 098-0064, 098-0065]

iv. The Permittee shall properly operate the control equipment at all times when this equipment is in operation and emitting air pollutants. [P 098-0063, 098-0064, 098-0065]

b. Monitoring and Testing Requirements

- i. The Permittee shall notify the commissioner in writing at least 30 days prior to conducting any performance or quality assurance testing of any CEM for NOx. Any such testing shall be done in accordance with RCSA §22a-174-22e(m). [P 098-0063, 098-0064, 098-0065]
- ii. The Permittee shall perform inspections of the control devices as recommended by the manufacturer. [P 098-0063, 098-0064, 098-0065]
- iii. The Permittee shall collect quality assured CEM data for all emission unit operating conditions. Data collection shall include periods of startup or shutdown, monitoring system malfunctions, out-of-control periods, while conducting maintenance or repairs, and periods of required monitoring system quality assurance or quality control activities, such as calibration checks and required zero and span adjustments. [RCSA §22a-174-22e(m)(2)]

c. Record Keeping Requirements

- i. The Permittee shall make and keep records of the date and work performed for repairs, replacement parts and other maintenance [P 098-0063, 098-0064, 098-0065]
- ii. The Permittee shall make and keep records of all inspections of the burners and flue gas recirculation system. [P 098-0063, 098-0064, 098-0065]
- iii. The Permittee shall keep records of the manufacturer's written specifications and written recommendations for operation and maintenance. [P 098-0063, 098-0064, 098-0065]
- iv. For the CEM system, the Permittee shall make and keep records of all performance evaluations, calibration checks and adjustments on such monitor. [P 098-0063, 098-0064, 098-0065]
- v. For the CEM system, the Permittee shall make and keep records of maintenance performed. [P 098-0063, 098-0064, 098-0065]
- vi. For the CEM system, the Permittee shall keep records of all data necessary to complete the quarterly reports. [P 098-0063, 098-0064, 098-0065]
- vii. The Permittee shall keep charts, electronically stored data, and printed records produced by such CEM system. [P 098-0063, 098-0064, 098-0065]
- viii. The Permittee shall keep copies of all reports and notifications submitted to the commissioner or administrator as required in Section III.K.2.d of this Title V permit. [P 098-0063, 098-0064, 098-0065]

d. Reporting Requirements

i. The Permittee shall notify the commissioner, in writing of the date of commencement of construction and the date of the initial startup of the boilers. Such written notifications shall be submitted no later than 30 days after the subject event. [P 098-0063, 098-0064, 098-0065]

- ii. The Permittee shall notify the commissioner, in writing of the date of initial startup of the boilers. Such notifications shall be submitted no later than 15 days after the subject event. [40 CFR §§60.7(a)(3) and 60.49b(a)]
- iii. The Permittee shall notify the commission in writing of any exceedance of an operating parameter, and shall identify the cause or likely cause of such exceedance, all corrective actions and preventative measures taken with respect thereto, and the dates of such actions and measures as follows:

 [P 098-0063, 098-0064, 098-0065]
 - (A) For any hazardous air pollutant, no later than 24 hours after such exceedance commenced; and
 - (B) For any other regulated air pollutant or operating parameter, no later than ten days after such exceedance commenced.
- iv. The Permittee shall submit excess emission reports for any excess emissions occurred during the reporting period. The reporting period for the reports required under 40 CFR Part 60 Subpart Db is each six-month period. All reports shall be submitted to the Environmental Protection Agency and shall be postmarked by the 30th day following the end of the reporting period. [40 CFR §60.49b(h) and §60.49b(w)]
- v. The Permittee shall notify the commissioner in writing of any malfunction of the boiler or the air pollution equipment. Permittee shall submit such notification within ten days of the malfunction. The notification shall include the following: [P 098-0063, 098-0064, 098-0065]
 - (A) A description of the malfunction and a description of the circumstances surrounding the cause or likely cause of such malfunction; and
 - (B) A description of all corrective actions and preventive measures taken and/or planned with respect to such malfunction and the dates of such actions and measures.
- vi. The Permittee shall submit to the commissioner, on forms provided by the commissioner, written quarterly reports of excess emissions and CEM system malfunctions. Such reports shall be submitted to the commissioner on or before January 30, April 30, July 30 and October 30 of each year and shall include: [P 098-0063, 098-0064, 098-0065]
 - (A) All daily block average data, in a format acceptable to the commissioner, for the three calendar month period ending the month before the due date of the report;
 - (B) The date and time of commencement and completion of each period of excess emissions;
 - (C) The magnitude and suspected cause of the excess emissions;
 - (D) Actions taken to correct the excess emissions;
 - (E) The date and time when each malfunction of the CEM system commenced and ended;
 - (F) Actions taken to correct each malfunction; and
 - (G) If no emissions or CEM system malfunctions occur during a quarter, the Permittee shall

indicate that no excess emissions or malfunctions occurred during the quarter.

vii. Upon written notice, the commissioner may require the permittee to provide all hourly CEM data, in a format acceptable to the commissioner, for the three calendar month period identified in such written notice. [P 098-0063, 098-0064, 098-0065]

3. PM, PM₁₀, PM_{2.5}, SO₂, VOC, Pb, and Hazardous Air Pollutants

- a. Limitation or Restriction
 - i. PM, PM₁₀, PM_{2.5}
 - (A) Natural Gas: PM, PM₁₀, PM_{2.5} emissions shall not exceed 0.008 lb/MMBtu per boiler. [P 098-0063, 098-0064, 098-0065]
 - (B) ULSD: PM and PM₁₀ emissions shall not exceed 0.017 lb/MMBtu per boiler. [P 098-0063, 098-0064, 098-0065]
 - (C) ULSD: PM_{2.5} emissions shall not exceed 0.016 lb/MMBtu per boiler. [P 098-0063, 098-0064, 098-0065]
 - (D) Total PM and PM₁₀ emissions shall not exceed 2.46 TPY for natural gas and ULSD, for Permit Nos. 098-0063, 098-0064 and 098-0065 combined. [P 098-0063, 098-0064, 098-0065]
 - (E) Total PM_{2.5} emissions shall not exceed 2.37 TPY for natural gas and ULSD, for Permit Nos. 098-0063, 098-0064 and 098-0065 combined. [P 098-0063, 098-0064, 098-0065]

ii. SO₂:

- (A) Natural Gas: emissions shall not exceed 0.001 lb/MMBtu per boiler. [P 098-0063, 098-0064, 098-0065]
- (B) ULSD: emissions shall not exceed 0.002 lb/MMBtu per boiler. [P 098-0063, 098-0064, 098-0065]
- (C) Total SO₂ emissions shall not exceed 0.21 TPY for natural gas and ULSD, for Permit Nos. 098-0063, 098-0064 and 098-0065 combined. [P 098-0063, 098-0064, 098-0065]

iii. VOC:

- (A) Natural Gas: emissions shall not exceed 0.006 lb/MMBtu per boiler. [P 098-0063, 098-0064, 098-0065]
- (B) ULSD: emissions shall not exceed 0.002 lb/MMBtu per boiler. [P 098-0063, 098-0064, 098-0065]
- (C) Total VOC emissions shall not exceed 1.41 TPY for natural gas and ULSD, for Permit Nos. 098-0063, 098-0064 and 098-0065 combined. [P 098-0063, 098-0064, 098-0065]

iv. Pb:

- (A) Natural Gas: emissions shall not exceed 5.0E-07 lb/MMBtu per boiler. [P 098-0063, 098-0064, 098-0065]
- (B) ULSD: emissions shall not exceed 9.0E-06 lb/MMBtu per boiler. [P 098-0063, 098-0064, 098-0065]
- (C) Total Pb emissions shall not exceed 5.70E-04 TPY for natural gas and ULSD, for Permit Nos. 098-0063, 098-0064 and 098-0065 combined. [P 098-0063, 098-0064, 098-0065]

v. Hazardous Air Pollutants:

This equipment shall not cause an exceedance of the maximum allowable stack concentration (MASC) for any hazardous air pollutants (HAP) emitted and listed in RCSA §22a-174-29. [P 098-0063, 098-0064, 098-0065]

b. Monitoring and Testing Requirements

Record keeping specified in Section III.K.3.c of this Title V permit shall be sufficient to meet other monitoring and testing requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(1)(K)(ii)]

- c. Record Keeping Requirements
 - i. The Permittee shall calculate and record the monthly and consecutive 12-month PM, PM₁₀, PM_{2.5}, SO₂, VOC and lead emissions in units of tons per boiler and for Permit Nos. 098-0063, 098-0064 and 098-0065 combined. The consecutive 12-month emissions shall be determined by adding (for each pollutant) the current month's emissions to that of the previous 11 months. Such records shall include a sample calculation for each pollutant. The permittee shall make these calculations within 30 days of the end of the previous month. [P 098-0063, 098-0054, 098-0065]
 - ii. The Permittee shall demonstrate compliance with the emission limits in Section III.K.3.a of this Title V permit by calculating the emission rates using the most recent approved stack test results for the pollutant (except for pollutants that have CEM), or if unavailable, emission factors from the following sources: [P 098-0063, 098-0064, 098-0065]
 - (A) Natural Gas:
 - (1) VOC, PM, PM₁₀, PM_{2.5}, Pb, SOx: AP-42 5th Edition, Table 1.4-2
 - (B) ULSD:
 - (1) VOC: AP-42 5th Edition, Table 1.3-3
 - (2) PM, PM₁₀, PM₂₅: AP-42 5th Edition, Table 1.3-2 and 1.3-7
 - (3) SOx: AP-42 5th Edition, Table 1.3-1
 - (4) Pb: AP-42 5th Edition, Table 1.3-10
 - (5) The commissioner may require other means (e.g., stack testing) to demonstrate compliance

with the emission limits in Section III.K.3.a of this Title V permit, as allowed by state or federal statute, law or regulation.

d. Reporting Requirements

The permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(x)]

4. NOx

- a. Limitation or Restriction
 - i. NOx:
 - (A) Natural Gas: Emissions shall not exceed 0.011 lb/MMBtu and 9 ppmvd @ 3% O₂ per boiler. [P 098-0063, 098-0064, 098-0065]
 - (B) ULSD: Emissions shall not exceed 0.098 lb/MMBtu and 75 ppmvd @ 3% O₂ per boiler. [P 098-0063, 098-0064, 098-0065]
 - (C) Total NOx emissions shall not exceed 7.41 TPY for natural gas and ULSD, for Permit Nos. 098-0063, 098-0064 and 098-0065 combined. [P 098-0063, 098-0064, 098-0065]
 - ii. The Permittee shall not cause or allow EU-1442, EU-1443 or EU-1444 to exceed the following emission limitations: [RCSA §\$22a-174-22e(d)(3)(A) and (C)]
 - (A) Phase 1: Effective June 1, 2018 Natural Gas: 0.20 lb/MMBtu No. 2 Fuel Oil: 0.20 lb/MMBtu
 - (B) Phase 2: Effective June 1, 2023 Natural Gas: 0.10 lb/MMBtu No. 2 Fuel Oil: 0.15 lb/MMBtu
- b. Monitoring and Testing Requirements
 - i. Initial stack testing shall be required for NOx. [P 098-0063, 098-0064, 098-0065]
 - ii. Stack emission testing shall be performed in accordance with the emission test guidelines available on the DEEP website. [P 098-0063, 098-0064, 098-0065]
 - iii. The Permittee shall conduct NOx testing in accordance with RCSA 22a-174-22e. [P 098-0063, 098-0064, 098-0065]
 - iv. Stack test results shall be reported as follows: all pollutants in units of lb/MMBtu and ppmvd at 3% O₂. [P 098-0063, 098-0064, 098-0065]
 - v. The Permittee shall conduct initial stack testing within 60 days of achieving the maximum production rate, but not later than 180 days after initial startup. [P 098-0063, 098-0064, 098-0065]

- vi. If required by the commissioner, the permittee shall measure NOx emissions using EPA Method 7 stack test. [RCSA §§22a-174-5(b)(7) and 22a-174-33(j)(1)(K)(ii)]
- vii. The Permittee may conduct tune-ups according to the schedule and procedures of the applicable requirements of 40 CFR part 63 Subpart JJJJJJ. If the period between tune-ups in the applicable requirements of 40 CFR Part 63 Subpart JJJJJJ is greater than 60 months, a tune-up shall be conducted at least once every 60 months. [RCSA §22a-174-22e(i)(2)]
- viii. Emissions data used to determine compliance with the applicable emissions limitations in Section III.K.4.a.ii of this Title V permit shall not include data collected during the following periods: [RCSA §22a-174-22e(m)(3)]
 - (A) When the monitoring system is out-of-control as specified in the facility-specific monitoring plan;
 - (B) While conducting required monitoring system quality assurance or quality control activities, including calibration checks and required zero and span adjustments;
 - (C) While conducting maintenance or repairs of the monitoring system to prevent or correct a malfunction; or
 - (D) When the emission unit is not operating.
- ix. The Permittee shall comply with the emission limitations of Section III.K.4.a.ii, of this Title V permit based on a daily block average, with a NOx CEM. A daily block average means the arithmetic mean of all hourly emission concentrations or rates recorded when an emission unit is operating measured over a 24-hour period from 12 a.m. (midnight) TO 12 a.m. (midnight). [RCSA §§22a-174-22e(a)(7) and 22a-174-22e(d)(3)]

c. Record Keeping Requirements

- i. The Permittee shall calculate and record the monthly and consecutive 12-month NOx emissions in units of tons per boiler and for Permit Nos. 098-0063, 098-0064 and 098-0065 combined. The consecutive 12-month emissions shall be determined by adding (for each pollutant) the current month's emissions to that of the previous 11 months. Such records shall include a sample calculation for each pollutant. The permittee shall make these calculations with 30 days of the end of the previous month. [P 098-0063, 098-0064, 098-0065]
- ii. The Permittee shall demonstrate compliance the emission limits in Section III.K.4.a.i of this Title V permit by calculating the emission rates using NOx CEM for natural gas and ULSD. [P 098-0063, 098-0064, 098-0065]
- iii. The commissioner may require other means (e.g., stack testing) to demonstrate compliance with the emission limits in Section III.K.4.a.i of this Title V permit, as allowed by state or federal statute, law or regulation. [P 098-0063, 098-0064, 098-0065]
- iv. The Permittee shall make and keep records of the dates and times of all emissions testing. Such records shall include the persons performing the measurements, the testing methods used, the operating conditions at the time of testing, and the results of such testing. [P 098-0063, 098-0064, 098-0065]

v. The Permittee shall make and keep records where applicable to show compliance with RCSA Section 22a174-22e. [P 098-0063, 098-0064, 098-0065]

d. Reporting Requirements

- i. The Permittee shall submit a written report of the results of the stack testing results not more than 60 days after the completion of the emission test. [P 098-0063, 098-0064, 098-0065]
- ii. The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

5. CO

a. Limitation or Restriction

- i. CO:
 - (A) Natural Gas: emissions shall not exceed 0.038 lb/MMBtu and 50 ppmvd @ 3% O₂ per boiler. [P 098-0063, 098-0064, 098-0065]
 - (B) ULSD: emissions shall not exceed 0.060 lb/MMBtu and 75 ppmvd @ 3% O₂ per boiler. [P 098-0063, 098-0064, 098-0065]
 - (C) Total CO emissions shall not exceed 10.74 TPY for natural gas and ULSD, for Permit Nos. 098-0063, 098-0064 and 098-0065 combined. [P 098-0063, 098-0064, 098-0065]

b. Monitoring and Testing Requirements

- i. Initial stack testing shall be required for CO. [P 098-0063, 098-0064, 098-0065]
- ii. Stack emission testing shall be performed in accordance with the emission test guidelines available on the DEEP website. [P 098-0063, 098-0064, 098-0065]
- iii. Stack test results shall be reported as follows: all pollutants in units of lb/MMBtu and ppmvd at 3% O₂. [P 098-0063, 098-0064, 098-0065]
- iv. The Permittee shall conduct initial stack testing within 60 days of achieving the maximum production rate, but not later than 180 days after initial startup. [P 098-0063, 098-0064, 098-0065]
- v. Recurrent stack testing for CO shall be conducted within five years from the date of the previous stack test. [P 098-0063, 098-0064, 098-0065]

c. Record Keeping Requirements

- i. The Permittee shall calculate and record the monthly and consecutive 12-month CO emissions in units of tons per boiler and for Permit Nos. 098-0063, 098-0064 and 098-0065 combined. The consecutive 12-month emissions shall be determined by adding (for each pollutant) the current month's emissions to that of the previous 11 months. Such records shall include a sample calculation for each pollutant. The permittee shall make these calculations with 30 days of the end of the previous month. [P 098-0063, 098-0054, 098-0065]
- ii. The Permittee shall demonstrate compliance the CO emission limits in Section III.K.5.a of this Title V permit by calculating the emission rates using the most recent approved stack test results for the

pollutant or if unavailable, emission factors from the following sources: [P 098-0063, 098-0064, 098-0065]

- (A) Natural Gas: Manufacturer's Information (CO, 50 ppmv @ 3% O₂, dry)
- (B) ULSD: Manufacturer's Information (CO, 75 ppmv @ 3% O₂, dry)
- (C) The commissioner may require other means (e.g., stack testing) to demonstrate compliance with the emission limits in Section III.K.5.a of this Title V permit, as allowed by state or federal statute, law or regulation.
- iii. The Permittee shall make and keep records of the dates and times of all emissions testing. Such records shall include the persons performing the measurements, the testing methods used, the operating conditions at the time of testing, and the results of such testing. [P 098-0063, 098-0064, 098-0065]

d. Reporting Requirements

- i. The Permittee shall submit a written report of the results of the stack testing results not more than 60 days after the completion of the emission test. [P 098-0063, 098-0064, 098-0065]
- ii. The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

6. Opacity

a. Limitation or Restriction

This equipment shall not exceed 10% opacity during any six-minute block average as measured by 40 CFR Part 60, Appendix A, Reference Method 9. [P 098-0063, 098-0064, 098-0065]

b. Monitoring and Testing Requirements

- i. Initial stack test shall be required for opacity (ULSD only). [P 098-0063, 098-0064, 098-0065]
- ii. Stack emission testing shall be performed in accordance with the emission test guidelines available on the DEEP website. [P 098-0063, 098-0064, 098-0065]
- iii. The Permittee shall conduct initial stack testing within 60 days of achieving the maximum production rate, but not later than 180 days after initial startup. [P 098-0063, 098-0064, 098-0065]

c. Record Keeping Requirements

i. The Permittee shall make and keep records of the dates and times of all emissions testing. such records shall include the persons performing the measurements, the testing methods used, the operating conditions at the time of testing, and the results of such testing. [P 098-0063, 098-0064, 098-0065]

d. Reporting Requirements

i. The Permittee shall submit a written report of the results of the stack testing results not more than 60 days after the completion of the emission test. [P 098-0063, 098-0064, 098-0065]

ii. The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

7. 40 CFR Part 63 Subpart JJJJJJ – National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources

Classification:

- New oil- fired boilers at an area source of HAPs
- Boilers equipped with Oxygen Trim System
- The Permittee should re-evaluate the requirements of 40 CFR Part 63 Subpart JJJJJJ if any of the above conditions change.
- a. Limitation or Restriction
 - i. The Permittee shall demonstrate initial compliance with 40 CFR Part 63 Subpart JJJJJJ within 180 days after startup of each boiler. [40 CFR §63.11210(j)(2)]
 - ii. The Permittee shall minimize the boilers' startup and shutdown periods according to the manufacturer's recommended procedures. [Table 2 to Subpart JJJJJJ of 40 CFR Part 63]
 - iii. The Permittee shall conduct a tune-up of each boiler every five years as specified in 40 CFR §63.11223. Each five-year tune-up must be conducted no more than 61 months after the previous tune- up. The permittee must conduct the tune-up while burning the type of fuel that provided the majority of the heat input to the boiler over the 12 months prior to the tune-up. [40 CFR §63.11223(a) and (c)]
 - iv. The Permittee, at all times, shall operate and maintain each boiler in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the permittee to make any further efforts to reduce emissions if levels required by 40 CFR Part 63 Subpart JJJJJJ have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the sources. [40 CFR §63.11205(a)]
- b. Monitoring and Testing Requirements

Record keeping specified in Section III.K.7.c of this Title V permit shall be sufficient to meet other monitoring and testing requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(1)(K)(ii)]

- c. Record Keeping Requirements
 - i. The Permittee shall keep, as required in 40 CFR §63.10(b)(2)(xiv), a copy of each notification and report that is submitted to comply with 40 CFR Part 63 Subpart JJJJJJ and all documentation supporting any initial notification or notification of compliance status that is submitted.

 [40 CFR §63.11225(c)(1)]
 - ii. The Permittee shall keep records that identify the boilers, the dates of tune-ups, the procedures followed for tune-ups, and the manufacturer's specifications to which the boilers were tuned.

[40 CFR §63.11225(c)(2)(i)]

- iii. The Permittee shall keep records of the occurrence and duration of each malfunction of the boilers. [40 CFR §63.11225(c)(4)]
- iv. The Permittee shall keep records of actions taken during periods of malfunction to minimize emissions in accordance with the general duty to minimize emissions in 40 CFR §63.11205(a), including corrective actions to restore the malfunctioning boiler to its normal or usual manner of operation. [40 CFR §63.11225(c)(5)]
- v. The Permittee shall keep records of the concentration of CO in the effluent stream in parts per million, by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of each boiler. [40 CFR §63.11223(b)(6)(i)]
- vi. The Permittee shall keep records of any corrective actions taken as part of the tune-up of each boiler. [40 CFR §63.11223(b)(6)(ii)]
- vii. The Permittee shall keep records of the type and amount of fuel used over the 12 months prior to the tune-up of each boiler, but only if it was physically and legally capable of using more than one type of fuel during that period. [40 CFR §63.11223(b)(6)(iii)]

d. Reporting Requirements

- i. The Permittee shall prepare a five-year compliance certification report for the previous calendar year containing the information in 40 CFR §§63.11225(b)(1) and (2). This report shall be prepared by March 1 of the calendar year that follows the year that the compliance tune-up was performed and shall be submitted to the delegated authority upon request. The report must be submitted by March 15 if there were any instances described in paragraph 40 CFR §63.11225(b)(3). [40 CFR §63.11225(b)]
- ii. The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

L. EMISSIONS UNIT 17 (EU-17): Registered Boiler

Central Utility Plant

EU-17: Bigelow Boiler No. 7 (Registration No. 098-0020-R)

Classification:

- Registered Boiler
- Collateral Conditions in Permit No. 098-0026
- Subject to Consent Order No. 8311 Modification 2
- Subject to RCSA §22a-174-22e
- Subject to 40 CFR Part 63 Subpart JJJJJJ

1. NOx

- a. Limitation or Restriction
 - i. The Permittee shall not cause or allow an emission unit to exceed the following: [RCSA §§22a-174-22e(d)(A) and (C)]

(A) Phase I (Beginning June 1, 2018 and Ending May 31, 2023):

Natural Gas: 0.20 lb/MMBtu No. 2 Fuel Oil: 0.20 lb/MMBtu

(B) Phase II (Beginning June 1, 2023 and continuing thereafter):

Natural Gas: 0.10 lb/MMBtu No. 2 Fuel Oil: 0.15 lb/MMBtu

- ii. The Permittee shall not cause or allow an emission unit to exceed the applicable emission limitations specified in Section III.L.1.a.i.(B) of this permit unless the permittee undertakes one of the following actions: [RCSA §§22a-174-22e(d)(1)(A), (B) and (C)]
 - (A) Implements an alternative compliance mechanism as provided in RCSA §22a-174-22e(g);
 - (B) Operates under a case-by-case RACT determination as provided in RCSA §22a-174-22e(h); or
 - (C) Ceases operation as provided in RCSA §22a-174-22e(f).
- iii. The Permittee shall conduct tune-ups according to the schedule and procedures of the applicable requirements of 40 CFR Part 63 Subpart JJJJJJ. If the period between tune-ups in the applicable requirements of 40 CFR Part 63 Subpart JJJJJJ is greater than 60 months, a tune-up shall be conducted at least once every 60 months. [RCSA §22a-174-22e(i)(2)]

b. Monitoring and Testing Requirements

- The Permittee of an existing emission unit shall conduct an initial emissions test on a date during Phase 1 that is no more than 63 calendar months following the date the last emission test performed pursuant to former RCSA §22a-174-22(k). [RCSA §22a-174-22e(l)(4)]
- ii. The Permittee of an existing emission unit subject to RCSA §22a-174-22e shall conduct the emission test following the initial emission test on a date after May 31, 2023 and no later than June 1, 2025. Subsequently, the permittee shall conduct emission tests within every 63 calendar months following the date the previous emission test was conducted or the date the previous emission test was required to be conducted, whichever is earlier. [RCSA §22a-174-22e(l)(5)]
- iii. The Permittee shall conduct each emission test in accordance with RCSA §22a-174-5 and compliance with the emissions limitations in RCSA §22a-174-22e shall be determined as prescribed by RCSA §\$22a-174-22e(l)(6) through (l)(8). [RCSA §\$22a-174-22e(l)(6) through (l)(8)]
- c. Record Keeping Requirements
 - i. The Permittee of an emission unit subject to RCSA §22a-174-22e shall make and keep the following records on and after May 1, 2018: [RCSA §22a-174-22e(j)]
 - (A) The date and work performed for repairs, replacement of parts and other maintenance;
 - (B) Copies of all documents submitted to the commissioner pursuant to RCSA §22a-174-22e;
 - (C) Records of the dates and times of all emission testing required by RCSA §22a-174-22e, the persons performing the measurements, the testing method used, the operating conditions at the

time of testing, and the results of such testing; and

- (D) For each tune-up, for each emission unit, conducted pursuant to RCSA §22a-174-22e(i):
 - (1) The date on which the emission unit is tuned-up; the name, title and affiliation of the person performing the tune-up, and a description of work performed; and
 - (2) The procedures used to inspect and perform adjustments.

d. Reporting Requirements

Not more than 60 days after the completion of an emission test, the permittee shall submit a written report of such testing to the commissioner. [RCSA §22a-174-22e(k)(1)]

2. Fuel Type and Fuel Sulfur Content

- a. Limitation or Restriction
 - i. The Permittee shall burn Natural Gas or No. 2 Fuel Oil. [Collateral Condition in P 098-0026]
 - ii. The sulfur content in the fuel shall not exceed 15 PPM by weight. [RCSA §22a-174-19(b)]
- b. Monitoring and Testing Requirements

Record keeping specified in Section III.L.2.c of this Title V permit shall be sufficient to meet other monitoring and testing requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(1)(K)(ii)]

- c. Record Keeping Requirements
 - i. Any person combusting fuel subject to the requirements of this section shall maintain records of the sulfur content of the fuel combusted and the quantity purchased for combustion. A written certification or a written contract with a fuel supplier is sufficient to satisfy the requirements of this subdivision if the certification or contract identifies: [RCSA §22a-174-19b(g)(3)]
 - (A) The name of the fuel seller;
 - (B) The type of fuel purchased;
 - (C) The sulfur content of the fuel purchased; and
 - (D) The method used to determine the sulfur content of the fuel purchased.
 - ii. The Permittee shall make and keep records for a minimum of five years; commencing on the date such records were created. [RCSA §22a-174-33(o)(2)]

d. Reporting Requirements

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA $\S 22a-174-33(j)(1)(X)$]

3. Particulate Matter

a. Limitation or Restriction

The Permittee shall emit no more than the following particulate matter levels:

- i. 0.10 lb/MMBtu when burning Natural Gas [RCSA §22a-174-18(e)(2)(B)]
- ii. 0.12 lb/MMBtu when burning No. 2 Fuel Oil [RCSA §22a-174-18(e)(2)(C)]
- b. Monitoring and Testing Requirements

Record keeping specified in Section III.L.3.c of this Title V permit shall be sufficient to meet other monitoring and testing requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(1)(K)(ii)]

- c. Record Keeping Requirements
 - i. The Permittee shall maintain records sufficient to determine compliance with the limitation or restriction in Section III.L.3.a of this Title V permit. [RCSA §22a-174-33(j)(1)(K)]
 - ii. The Permittee shall make and keep records for a minimum of five years; commencing on the date such records were created. [RCSA §22a-174-33(o)(2)]
- d. Reporting Requirements

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA $\S 22a-174-33(j)(1)(X)$]

4. Maximum Capacity Restrictions

a. Limitation or Restriction

The Permittee shall comply with the maximum capacity restrictions as follows: [Consent Order No. 8311, Modification 2- C.1]:

Natural Gas: 81.05 MMBtu/hr No. 2 Fuel Oil: 98.95 MMBtu/hr

b. Monitoring and Testing Requirements

The Permittee shall conduct emissions testing when the emission unit is operating at or above 90% of maximum capacity, unless allowed otherwise by the commissioner in a permit or order. [Consent Order No. 8311, Modification 2 - A.4]

c. Record Keeping Requirements

[Consent Order No. 8311, Modification 2 - C.2]

- i. The Permittee shall retain records and supporting documentation including but not limited to, actual gallons or cubic feet per hour of fuel burned and heat input per hour to demonstrate that Boiler 7 is operating in compliance with the maximum capacity restrictions in Section III.L.4.a of this Title V permit
- ii. The Permittee shall retain records and supporting documentation for a minimum of five years; commencing on the date such records were created.
- iii. The Permittee shall provide the records specified above to the commissioner within 30 days of receipt of a written request from the commissioner.
- iv. All records shall be maintained in accordance with RCSA §22a-174-4 and §22a-174-22e.

d. Reporting Requirements

[Consent Order No. 8311, Modification 2 – C.3]

- i. The Permittee shall notify the commissioner within 30 days after discovery of an exceedance of the limits in Section III.L.4.a of this Title V permit.
- ii. Thereafter, the highest heat input rate achieved above operating limits shall supersede the limit specified in Section III.L.4.a of this Title V permit.
- iii. The Permittee shall conduct NOx emissions testing at no less than 90 percent of that heat input rate.

5. 40 CFR Part 63 Subpart JJJJJJ – National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources

Classification:

- Existing oil-fired boiler (Table 2, Options 14 and 16)
- Boiler equipped with Oxygen Trim System
- The Permittee should re-evaluate the requirements of 40 CFR Part 63 Subpart JJJJJJ if any of the above conditions change.
- a. Limitation or Restriction
 - i. The Permittee shall demonstrate initial compliance with 40 CFR Part 63 Subpart JJJJJJ according to the applicable provisions in 40 CFR §63.7(a)(2), except as provided in 40 CFR §63.11210(j). [40 CFR §63.11210(c)]
 - ii. The Permittee shall conduct a tune-up every five years as specified in 40 CFR §63.11223. Each five-year tune-up must be conducted no more than 61 months after the previous tune- up. The permittee must conduct the tune-up while burning the type of fuel (or fuels in the case of boilers that routinely burn two types of fuels at the same time) that provided the majority of the heat input to the boiler over the 12 months prior to the tune-up. [40 CFR §§63.11223(a) and (c)]
 - iii. The Permittee, at all times, shall operate and maintain this boiler in a manner consistent with safety and good air pollution control practices for minimizing emissions. the general duty to minimize emissions does not require the permittee to make any further efforts to reduce emissions if levels required by 40 CFR Part 63 Subpart JJJJJJ have been achieved. Determination of whether such

operation and maintenance procedures are being used will be based on information available to the administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. [40 CFR §63.11205(a)]

b. Monitoring and Testing Requirements

Record keeping specified in Section III.L.5.c of this Title V permit shall be sufficient to meet other monitoring and testing requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

- i. The Permittee shall keep, as required in 40 CFR §63.10(b)(2)(xiv), a copy of each notification and report that is submitted to comply with 40 CFR Part 63 Subpart JJJJJJ and all documentation supporting any initial notification or notification of compliance status that is submitted. [40 CFR §63.11225(c)(1)]
- ii. The Permittee shall keep records that identify each boiler, the date of tune-up, the procedures followed for tune-up, and the manufacturer's specifications to which the boiler was tuned. [40 CFR §63.11225(c)(2)(i)]
- iii. The Permittee shall keep records of the concentrations of CO in the effluent stream in parts per million, by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler. [40 CFR §63.11223(b)(6)(i)]
- iv. The Permittee shall keep records of any corrective actions taken as a part of the tune-up of the boiler. [40 CFR §63.11223(b)(6)(ii)]
- v. The Permittee shall keep records of the type and amount of fuel used over the 12 months prior to the tune-up of the boiler, but only if the unit was typically and legally capable of using more than one type of fuel during that period. units sharing a fuel meter may estimate the fuel used by each unit. [40 CFR §63.11223(b)(6)(iii)]
- vi. The Permittee shall keep a copy of the Energy Assessment Report. [40 CFR §63.11225(c)(2)(iii)]
- vii. The Permittee shall keep records of the occurrence and duration of each malfunction of the boiler. [40 CFR §63.11225(c)(4)]
- viii. The Permittee shall keep records of actions taken during periods of malfunction to minimize emissions in accordance with the general duty to minimize emissions in 40 CFR §63.11205(a), including corrective actions to restore the malfunctioning boiler to its normal or usual manner of operation. [40 CFR §63.11225(c)(5)]

d. Reporting Requirements

i. The Permittee shall prepare a five-year compliance certification report for the previous calendar year containing the information in 40 CFR §§63.11225(b)(1) and (2). This report shall be prepared by March 1 of the calendar year that follows the year that the compliance tune-up was performed and submitted to the delegated authority upon request. The report must be submitted by March 15 if there were any instances described in paragraph 40 CFR §63.11225(b)(3). [40 CFR §63.11225(b)]

- ii. No later than 120 days after the compliance date specified in 40 CFR §63.11196, the permittee shall submit a signed statement in the notification of compliance status report that indicates that the permittee conducted a tune-up of the boiler. [40 CFR §63.11214(b)]
- iii. No later than 120 days after the compliance date specified in 40 CFR §63.11196, the permittee shall submit a signed certification in the notification of compliance status report that an energy assessment of the boiler and its energy use systems was completed according to Table 2 of 40 CFR Part 63 Subpart JJJJJJ and is an accurate depiction of the permittee's facility. [40 CFR §63.11214(c)]

M. EMISSIONS UNIT 549 (EU-549): Boiler

EU-549: 2.0 MMBtu/hr No. 2 fuel oil fired boiler – Water Pollution Control Facility

Classification:

- Subject to 40 CFR Part 63 Subpart JJJJJJ National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial and Institutional Boilers Area Sources
- Existing oil-fired boiler (Table 2 to 40 CFR Part 63 Subpart JJJJJJ, Option 12)
- Oil fired boiler with heat input capacity of equal to or less than 5 MMBtu/hr
- Not subject to RCSA §22a-174-3a or 22a-174-22e

1. 40 CFR Part 63 Subpart JJJJJJ – National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial and Institutional Boilers Area Sources

- a. Limitation or Restriction
 - The Permittee shall at all times, operate and maintain the boiler in a manner consistent with safety and good air pollution control practices for minimizing emissions.
 [40 CFR §63.11205(a)]
 - ii. The Permittee shall conduct a tune-up of the boiler every five years as specified in 40 CFR §63.11223. Each five-year tune-up must be conducted no more than 61 months after the previous tune-up. [40 CFR §63.11223, Table 2 Option 12]
- b. Monitoring and Testing Requirements

Record keeping specified in Section III.M.1.c of this Title V permit shall be sufficient to meet other Monitoring and Testing requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(1)(K)(ii)]

- c. Record Keeping Requirements
 - i. The Permittee must maintain the following records:
 - (A) Copy of each notification and report submitted to comply with 40 CFR Part 63 Subpart JJJJJJ and all documentation supporting any initial notification or notification of compliance status. [40 CFR §63.11225(c)(1)]
 - (B) Records of the occurrence and duration of each malfunction of the boiler. [40 CFR §63.11225(c)(4)]
 - (C) Records of actions taken during periods of malfunction to minimize emissions in accordance with the general duty to minimize emissions in 40 CFR §63.11205(a), including corrective

actions to restore the malfunctioning boiler to its normal or usual manner of operation. [40 CFR §63.11225(c)(5)]

- (D) Records of each tune-up identifying the boiler, the date of the tune-up, the procedures followed for the tune-up, and the manufacturer's specifications to which the boiler was tuned. [40 CFR §63.11225(c)(2)(i)]
- (E) The concentration of CO in the effluent stream in parts per million, by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler. [40 CFR §63.11223(b)(6)(i)]
- (F) A description of any corrective actions taken as part of the tune-up of the boiler. [40 CFR §63.11223)(b)(6)(ii)]
- (G) The type and amount of fuel used over the 12 months prior to the tune-up of the boiler, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel use by each unit. [40 CFR §63.11223(b)(6)(iii)]

d. Reporting Requirements

- i. The Permittee must submit applicable notifications in accordance with 40 CFR §63.11225(a). [40 CFR §63.11225(a)]
- ii. The Permittee must prepare, by March 1 of each year, and submit to the delegated authority upon request a five-year compliance report as specified in 40 CFR §§63.11225(b)(1) and (b)(2). The Permittee must submit the report by March 15 if there was an instance as described by 40 CFR §63.11225(b)(3). [40 CFR §63.11225(b)]

N. EMISSIONS UNIT 558 (EU-558): Boiler

EU-558: 121.2 MMBtu/hr (NG) and 115.5 MMBtu/hr (oil) Boiler No. 9, English D-Type boiler Central Utility Plant

Classification:

- Boiler operating under NSR Permit No. 098-0026
- Subject to RCSA §22a-174-22e
- Subject to 40 CFR Part 60 Subpart Db
- Subject to 40 CFR Part 63 Subpart JJJJJJ

1. Fuel Types, Fuel Sulfur Content and Fuel Consumption

a. Limitation or Restriction

The Permittee shall burn No. 2 fuel oil or natural gas. [P 098-0026]

- i. The sulfur content in the fuel shall not exceed 15 ppm by weight. [RCSA §22a-174-19(b)]
- ii. Maximum fuel consumption over any consecutive 12-month period shall not exceed 772.87 MMft³ of natural gas and 496,440 gallons of No. 2 fuel oil. [P 098-0026]

b. Monitoring and Testing Requirements

The Permittee shall continuously monitor fuel consumption using a non-resettable totalizing fuel meter when more than one fuel supply tank is to service this source or when multiple sources are supplied by one fuel tank. [P 098-0026]

c. Record Keeping Requirements

- i. The Permittee shall keep records of monthly and annual fuel consumption. Annual fuel consumption shall be based on any consecutive 12-month period and shall be determined by adding (for each fuel) the current month's fuel usage to that of the previous 11 months. The Permittee shall make these calculations within 30 days of the end of the previous month. [P 098-0026]
- ii. The Permittee shall keep records of the fuel certification for each delivery of fuel from a bulk petroleum provider or a copy of the current contract with the fuel supplier supplying the fuel used by the equipment that includes the applicable sulfur content of the fuel as a condition of each shipment. The shipping receipt or contract shall include the date of delivery, the name of the fuel supplier, type of fuel delivered, the percentage of sulfur in such fuel, by weight, dry basis, and the method used to determine the sulfur content of such fuel. [P 098-0026]

d. Reporting Requirements

- i. The Permittee shall submit report certifying the combustion of only very low sulfur fuel in the reporting period. The reporting period for the reports required under 40 CFR Part 60 Subpart Db is each six-month period. All reports shall be submitted to the Environmental Protection Agency and shall be postmarked by the 30th day following the end of the reporting period. [40 CFR §60.49b(r) and §60.49b(w)]
- ii. The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

2. Continuous Emission Monitoring Requirements

a. Limitation or Restriction

The Permittee shall comply with the CEM requirements as set forth in RCSA §22a-174-4. CEM shall be required for the following pollutant/operational parameters and enforced on the following basis:

i. Opacity: Averaging time: six-minute block

Emission Limit: 20% opacity

[P 098-0026, 40 CFR Part 60 Subpart Db]

ii. NOx: Averaging time: 24 hour rolling

Emission Limit: Natural gas: 0.040 lb/MMBtu

No. 2 fuel oil: 0.10 lb/MMBtu

[P 098-0026, 40 CFR Part 60 Subpart Db]

iii. O₂: Averaging time: one hour block [P 098-0026, 40 CFR Part 60 Subpart Db]

b. Monitoring and Testing Requirements

The Permittee shall notify the commissioner in writing at least 30 days prior to conducting any performance or quality assurance testing of any CEM for NOx. Any such testing shall be conducted in accordance with a testing protocol approved by the commissioner. Any CEM for NOx shall be installed, calibrated and operated in accordance with the performance and quality assurance specifications contained in RCSA §22a-174-4 and 40 CFR 60, Subpart A, Appendix B and Appendix F. [RCSA §22a-174-22e(m)(4)]

c. Record Keeping Requirements

- i. The Permittee shall comply with the record keeping requirements of the CEM guidelines. [P 098-0026]
- ii. The Permittee shall maintain reports of all monitoring and test data in accordance with RCSA §22a-174-4(c). [RCSA §22a-174-4(c)]
- iii. The Permittee shall make and keep records of all performance evaluations, calibrations checks and adjustments on the NOx CEM. [RCSA §22a-174-22e(j)(2)(D)(i)]
- iii. The Permittee shall make and keep records of maintenance performed. [RCSA §22a-174-22e(j)(2)(D)(ii)]

d. Reporting Requirements

The Permittee shall comply with the reporting requirements of the CEM guidelines. [P 098-0026]

3. PM₁₀, SO₂, VOC, CO and Pb

- a. Limitation or Restriction
 - i. PM₁₀:
 - (A) Natural gas: emissions shall not exceed 0.61 lb/hr, 0.005 lb/MMBtu and 2.01 TPY. [P 098-0026]
 - (B) No. 2 fuel oil: emissions shall not exceed 5.78 lb/hr, 0.05 lb/MMBtu and 1.73 TPY. [P 098-0026]
 - (C) Total PM₁₀ emissions shall not exceed 3.74 TPY for natural gas and No. 2 fuel oil, combined. [P 098-0026]
 - ii. SO₂:
 - (A) Natural gas: emissions shall not exceed 0.12 lb/hr, 0.001 lb/MMBtu and 0.40 TPY. [P 098-0026]
 - (B) No. 2 fuel oil: emissions shall not exceed 26.57 lb/hr, 0.23 lb/MMBtu and 7.97 TPY.

[P 098-0026]

(C) Total SO₂ emissions shall not exceed 8.37 TPY for natural gas and No. 2 fuel oil, combined. [P 098-0026]

iii. VOC:

- (A) Natural gas: emissions shall not exceed 0.34 lb/hr, 0.003 lb/MMBtu and 1.12 TPY. [P 098-0026]
- (B) No. 2 fuel oil: emissions shall not exceed 0.81 lb/hr, 0.01 lb/MMBtu and 0.24 TPY. [P 098-0026]
- (C) Total VOC emissions shall not exceed 1.36 TPY for natural gas and No. 2 fuel oil, combined. [P 098-0026]

iv. CO:

- (A) Natural gas: emissions shall not exceed 3.03 lb/hr, 0.025 lb/MMBtu and 10.00 TPY. [P 098-0026]
- (B) No. 2 fuel oil: emissions shall not exceed 4.62 lb/hr, 0.04 lb/MMBtu and 1.39 TPY. [P 098-0026]
- (C) Total CO emissions shall not exceed 11.39 TPY for natural gas and No. 2 fuel oil, combined. [P 098-0026]

v. Pb:

No. 2 fuel oil: emissions shall not exceed 0.001 lb/hr, 9.0 E-6 lb/MMBtu and 0.0003 TPY. [P 098-0026]

b. Monitoring and Testing Requirements

Record keeping specified in Section III.N.3.c of this Title V permit shall be sufficient to meet other Monitoring and Testing requirements pursuant to RCSA §22a-74-33. [RCSA §22a-174-33(j)(1)(K)(ii)]

- c. Record Keeping Requirements
 - i. The Permittee shall calculate and record the monthly and consecutive 12-month PM₁₀, SO₂, VOC, CO and Pb emissions in units of tons. The consecutive 12-month emissions shall be determined by adding (for each pollutant) the current month's emissions to that of the previous 11 months. Such records shall include a sample calculation for each pollutant. The Permittee shall make these calculations with 30 days of the end of the previous month.

 [P 098-0026, RCSA §22a-174-33(j)(1)(K)]
 - ii. The Permittee shall demonstrate compliance with Section III.N.3.a of this Title V permit by calculating the emission rates using emission factors from the following sources: [P 098-0026]
 - (A) Manufacturer's emission factors provided by COEN Company (burner manufacturer).

- (B) For calculation of emissions of lead from No. 2 fuel oil, AP- 42, Chapter 1.3, Supplement E, September 1998.
- (C) For calculation of emissions of Hazardous Air Pollutants, AP-42, 5th Edition, Chapter 1.3, Supplement E, September 1998; Chapter 1.4 Supplement D, March 1998.
- (D) Sulfuric Acid emissions are based on a DEEP emission factor (2.45 x S lb/1000 gal of oil, where S represents sulfur content).

d. Reporting Requirements

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA $\S22a-174-33(j)(1)(X)$]

4. NOx/Control Equipment

- a. Limitation or Restriction
 - i. NOx:
 - (A) Natural gas: emissions shall not exceed 4.85 lb/hr, 0.040 lb/MMBtu and 16.01 TPY. [P 098-0026]
 - (B) No. 2 fuel oil: emissions shall not exceed 11.55 lb/hr, 0.10 lb/MMBtu and 3.47 TPY. [P 098-0026]
 - (C) Total NOx emissions shall not exceed 19.48 TPY for natural gas and No. 2 fuel oil, combined. [P 098-0026]
 - (D) Low NOx burner and flue gas recirculation: Guaranteed NOx emission rate: [P 098-0026]

Natural gas: 0.04 lb/MMBtu No. 2 fuel oil: 0.10 lb/MMBtu

- ii. The Permittee shall not cause or allow EU-558 to exceed the following emission limitations: $[RCSA \S 22a-174-22e(d)(3)(A) \text{ and } (C)]$
 - (A) Phase 1: Effective June 1, 2018 Natural gas: 0.20 lb/MMBtu No. 2 fuel oil: 0.20 lb/MMBtu/hr
 - (B) Phase 2: Effective June 1, 2023 Natural gas: 0.10 lb/MMBtu No. 2 fuel oil: 0.15 lb/MMBtu
- iii. The Permittee shall operate and maintain this equipment in accordance with the manufacturer's specifications and written recommendations. [P 098-0026]
- iv. The Permittee shall properly operate the control equipment at all times that this equipment is in

operation and emitting air pollutants. [P 098-0026]

- b. Monitoring and Testing Requirements
 - i. If required by the commissioner, the Permittee shall measure NOx emissions using EPA Method 7 stack test. [RCSA §\$22a-174-5(b)(7) and 22a-174-33(j)(1)(K)(ii)]
 - ii. The Permittee may conduct tune-ups according to the schedule and procedures of the applicable requirements of 40 CFR Part 63 Subpart JJJJJJ. If the period between tune-ups in the applicable requirements of 40 CFR Part 63 Subpart JJJJJ is greater than 60 months, a tune-up shall be conducted at least once every 60 months. [RCSA §22a-174-22e(i)(2)]
 - iii. The Permittee shall collect quality assured CEM data for all emission unit operating conditions. Data collection shall include periods of startup or shutdown, monitoring system malfunctions, out-of-control periods, while conducting maintenance or repairs, and periods of required monitoring system quality assurance or quality control activities, such as calibration checks and required zero and span adjustments. [RCSA §22a-174-22e(m)(2)]
 - iv. Emissions data used to determine compliance with the applicable emissions limitations in Section III.N.4.a.ii of this Title V permit shall not include data collected during the following periods: [RCSA §22a-174-22e(m)(3)]
 - (A) When the monitoring system is out-of-control as specified in the facility-specific monitoring plan;
 - (B) While conducting required monitoring system quality assurance or quality control activities, including calibration checks and required zero and span adjustments;
 - (C) While conducting maintenance or repairs of the monitoring system to prevent or correct a malfunction; or
 - (D) When the emission unit is not operating.
 - v. The Permittee shall comply with the emission limitations of Section III.N.4.a.ii, based on a daily block average, with a NOx CEM. A daily block average means the arithmetic mean of all hourly emission concentrations or rates recorded when an emission unit is operating measured over a 24-hour period from 12 a.m. (midnight) to 12 a.m. (midnight). [RCSA §§22a-174-22e(a)(7) and 22a-174-22e(d)(3)]
- c. Record Keeping Requirements
 - The Permittee shall calculate and record the monthly and consecutive 12-month NOx emissions in units of tons. The consecutive 12-month emissions shall be determined by adding the current month's emissions to that of the previous 11 months. Such records shall include a sample calculation. The Permittee shall make these calculations within 30 days of the end of the previous month. [P 098-0026]
 - ii. The Permittee shall retain all records and reports produced pursuant to this section for five years. Such records and reports shall be available for inspection at reasonable hours by the commissioner or the Administrator. Such records and reports shall be retained at the premises where the emission unit is located, unless the commissioner approves in writing the use of another location in Connecticut. [RCSA §22a-174-22e(j)(1)]

- iii. The Permittee shall make and keep the following records: [RCSA §\$22a-174-22e(j)(2)(B), (D)(i) through(iv), (E), (F) and (G)]
 - (A) Date and work performed for repairs, replacement of parts and other maintenance;
 - (B) Records of all performance evaluations, calibration checks and adjustments performed on the NOx CEM system;
 - (C) Records of maintenance performed on the NOx CEM system;
 - (D) All data necessary to complete the quarterly reports required under RCSA §22a-174-22e(k)(3);
 - (E) Charts, electronically stored data, and printed records produced by the CEM system as needed to demonstrate compliance with RCSA §22a-174-22e;
 - (F) For each tune-up, for each emission unit, conducted pursuant to RCSA §22a-174-22e(i);
 - (1) the date on which the emission unit is tune-up;
 - (2) a description of the work performed;
 - (3) the procedures used to inspect and perform adjustments.
 - (G) Copies of all documents submitted to the commissioner pursuant to RCSA §22a-174-22e; and
 - (H) Any other records or reports required by an order or permit issued by the commissioner pursuant to RCSA §22a-174-22e.

d. Reporting Requirements

- i. The Permittee shall submit, not more than 60 days after the completion of a certification test conducted under the requirements of RCSA §22a-174-22e(m) a written report of the results of such testing to the commissioner. [RCSA §22a-174-22e(k)(2)]
- ii. The Permittee shall submit to the commissioner, on forms provided by the commissioner, written quarterly reports of excess emissions and CEM system malfunctions. Such reports shall be submitted to the commissioner on or before January 30, April 30, July 30 and October 30 of each year in accordance with RCSA §22a-174-22e(k)(3). [RCSA §22a-174-22e(k)]

5. Opacity

a. Limitation or Restriction

This equipment shall not exceed 20% opacity during any six-minute block average as measured by 40 CFR Part 60, Appendix A, Reference Method 9. [P 098-0026]

b. Monitoring and Testing Requirements

If required by the commissioner, the Permittee shall verify opacity using visible emissions testing as measured by 40 CFR Part 60, Appendix A, Reference Method 9 or other method approved by the Department. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

The Permittee shall make and keep records of all required monitoring data and supporting information for at least five years from the date such data and information were obtained.

The Permittee shall make such records available for inspection at the site and shall submit such records to the commissioner upon request. [RCSA §22a-174-33(j)(1)(K)(ii)]

d. Reporting Requirements

- i. The Permittee shall submit excess emission reports for any excess emissions occurred during the reporting period. The reporting period for the reports required under 40 CFR Part 60 Subpart Db is each six-month period. All reports shall be submitted to the Environmental Protection Agency and shall be postmarked by the 30th day following the end of the reporting period. [40 CFR §60.49b(h) and §60.49b(w)]
- ii. The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier, including information to determine whether cause exists for modifying, revoking, reopening, reissuing, suspending or to determine compliance with this Title V permit. [RCSA §22a-174-33(j)(1)(X)]

6. 40 CFR Part 63 Subpart JJJJJJ – National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources

Classification:

- Existing oil-fired boiler at an area source of HAPs
- Boiler is equipped with an oxygen trim system

a. Limitation or Restriction

- i. The Permittee shall demonstrate initial compliance with 40 CFR Part 63 Subpart JJJJJJ according to the applicable provisions in 40 CFR §63.7(a)(2), except as provided in 40 CFR §63.11210(j). [40 CFR §63.11210(c)]
- ii. The Permittee shall conduct a tune-up every five years as specified in 40 CFR §63.11223. Each five-year tune-up must be conducted no more than 61 months after the previous tune-up. The Permittee must conduct the tune-up while burning the type of fuel that provided the majority of the heat input to the boiler over the 12 months prior to the tune-up.

 [40 CFR §63.11223(a) and (c)]
- iii. The Permittee, at all times, shall operate and maintain this boiler in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the Permittee to make any further efforts to reduce emissions if levels required by 40 CFR Part 63 Subpart JJJJJJ have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and

maintenance procedures, review of operation and maintenance records, and inspection of the source. [40 CFR §63.11205(a)]

b. Monitoring and Testing Requirements

Record keeping specified in Section III.N.6.c of this Title V permit shall be sufficient to meet other Monitoring and Testing Requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

- i. The Permittee shall keep, as required in 40 CFR §63.10(b)(2)(xiv), a copy of each notification and report that is submitted to comply with 40 CFR Part 63 Subpart JJJJJJ and all documentation supporting any Initial Notification or Notification of Compliance Status that is submitted. [40 CFR §63.11225(c)(1)]
- ii. The Permittee shall keep records that identify the boiler, the date of tune-up, the procedures followed for tune-up, and the manufacturer's specifications to which the boiler was tuned.

 [40 CFR §63.11225(c)(2)(i)]
- iii. The Permittee shall keep a copy of the energy assessment report. [40 CFR §63.11225(c)(2)(iii)]
- iv. The Permittee shall keep records of the occurrence and duration of each malfunction of the boiler. [40 CFR §63.11225(c)(4)]
- v. The Permittee shall keep records of actions taken during periods of malfunction to minimize emissions in accordance with the general duty to minimize emissions in 40 CFR §63.11205(a), including corrective actions to restore the malfunctioning boiler to its normal or usual manner of operation. [40 CFR §63.11225(c)(5)]
- vi. The Permittee shall keep records of the concentration of CO in the effluent stream in parts per million, by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler. [40 CFR §63.11223(b)(6)(i)]
- vii. The Permittee shall keep records of any corrective actions taken as part of the tune-up of the boiler. [40 CFR §63.11223(b)(6)(ii)]
- viii. The Permittee shall keep records of the type and amount of fuel used over the 12 months prior to the tune-up of the boiler, but only if it was physically and legally capable of using more than one type of fuel during that period. [40 CFR §63.11223(b)(6)(iii)]

d. Reporting Requirements

- i. The Permittee shall prepare a five-year compliance certification report for the previous calendar year containing the information in 40 CFR §§63.11225(b)(1) and (2). This report shall be prepared by March 1 of the calendar year that follows the year that the compliance tune-up was performed and shall be submitted to the delegated authority upon request. The report must be submitted by March 15 if there were any instances described in paragraph 40 CFR §63.11225(b)(3). [40 CFR §63.11225(b)]
- ii. The Permittee shall submit a signed statement in the Notification of Compliance Status report that

indicates that the Permittee conducted a tune-up of the boiler. [40 CFR §63.11214(b)]

- iii. The Permittee shall submit a signed certification in the Notification of Compliance Status report that an energy assessment of the boiler and its energy use systems was completed according to Table 2 of 40 CFR Part 63 Subpart JJJJJJ and is an accurate depiction of the Permittee's facility. [40 CFR §63.11214(c)]
- iv. The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier. [RCSA §22a-174-33(j)(1)(X)]

O. EMISSIONS UNIT 569 (EU-569): Non-Emergency Chiller Engine

EU-569: 3.88 MMBtu/hr (430 hp) Waukesha Model F18GLD Non-emergency Chiller Engine – South Campus Chiller Plant

Classification:

- Subject to RCSA §22a-174-22e
- Subject to 40 CFR Part 63 Subpart ZZZZ
- Not subject to RCSA §22a-174-3a

1. NOx

- a. Limitation or Restriction
 - i. The Permittee shall not cause or allow EU-569 to exceed the following emission limitations: [RCSA §\$22a-174-22e(d)(6)(A) and (B)]
 - (A) Phase 1: Effective June 1, 2018 Natural gas: 2.5 g/bk hp-hr
 - (B) Phase 2: Effective June 1, 2023 Natural gas: 1.5 g/bk hp-hr
 - ii. The Permittee shall conduct an inspection and tune-up of the emission unit a minimum of once per calendar year beginning with year 2018. Each subsequent annual tune-up shall be performed no earlier than 180 days after the previous tune-up conducted under this section. The inspection and tune-up of the emission unit shall be conducted according to the manufacturer's recommended procedures, or, if the manufacturer's recommendations are no longer available, according to best available practices. [RCSA §22a-174-22e(i)(1)]
- b. Monitoring and Testing Requirements
 - i. The Permittee shall conduct an initial emissions test on a date during Phase 1 that is no more than 63 calendar months following the date of the last emission test performed pursuant RCSA §22a-174-22(k). [RCSA §22a-174-22e(l)(4)]
 - ii. The Permittee shall conduct the emission test following the initial emissions test on a date after May 31, 2023 and no later than June 1, 2025. Subsequently, the Permittee shall conduct emission tests within every 63 calendar months following the date the previous emission test was conducted or the

date the previous emission test was required to be conducted, whichever is earlier. [RCSA §22a-174-22e(l)(5)]

- iii. Each emission test shall be conducted in accordance with RCSA §22a-174-5 and compliance with the emissions limitations of RCSA §22a-174-22e shall be determined based on the average of three one-hour tests, each performed over a consecutive 60-minute period in accordance with RCSA §22a-174-22e(j)(6). [RCSA §22a-174-22e(j)(l)(6)]
- iv. The Permittee shall demonstrate compliance with the emissions limitations of RCSA §22a-174-22e using sampling and analytical procedures under 40 CFR 60, Appendix A or under procedures in RCSA section 22a-174-5(d). Sampling shall be conducted when the emission unit is at normal operating temperature and, unless allowed otherwise by the commissioner in a permit or order, is operating at or above 90 percent of maximum capacity, except as described in RCSA §\$22a-174-22e(1)(7)(A) and (B). [RCSA §22a-174-22e(1)(7)]

c. Record Keeping Requirements

- i. The Permittee shall retain all records and reports produced pursuant to this section for five years. Such records and reports shall be available for inspection at reasonable hours by the commissioner or the Administrator. Such records and reports shall be retained at the premises where the emission unit is located, unless the commissioner approves in writing the use of another location in Connecticut. [RCSA §22a-174-22e]
- ii. The Permittee shall make and keep the following records: [RCSA §§22a-174-22e(2)(B), (C), (E)(i) and (ii), (F) and (G)]
 - (A) The date and work performed for repairs, replacement of parts and other maintenance;
 - (B) Records of the dates and times of all emission testing required by this section, the persons performing the measurements, the testing methods used, the operating conditions at the time of testing, and the results of such testing;
 - (C) For each tune-up, for each emission unit, conducted pursuant to RCSA §22a-174-22e(i);
 - (1) the date on which the emission unit is tune-up;
 - (2) a description of the work performed;
 - (3) the procedures used to inspect and perform adjustments.
 - (D) Copies of all documents submitted to the commissioner pursuant to this section; and
 - (E) Any other records or reports required by an order or permit issued by the commissioner pursuant to RCSA §22a-174-22e.

d. Reporting Requirements

Not more than 60 days after the completion of emission tests conducted under the requirements of RCSA §22a-174-22e(1), the Permittee of such emission unit shall submit a written report of the results of such testing to the commissioner. [RCSA §22a-174-22e(k)(1)]

2. 40 CFR Part 63 Subpart ZZZZ – National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

Classification:

- Non-emergency Spark Ignition 4 Stroke Lean Burn Engine
- Constructed before June 12, 2006
- a. Limitation or Restriction
 - i. The Permittee shall change oil and filter every 1,440 hours of operation or annually, whichever comes first. [40 CFR §63.6603(a), Table 2d, Option 7]
 - ii. The Permittee shall inspect spark plugs every 1,440 hours of operation or annually, whichever comes first, and replace if necessary. [40 CFR §63.6603(a), Table 2d, Option 7]
 - iii. The Permittee shall inspect all hoses and belts every 1,440 hours of operation or annually, whichever comes first, and replace if necessary. [40 CFR §63.6603(a), Table 2d, Option 7]
 - iv. The permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR §63.6625(h)]
 - v. The Permittee must operate and maintain the engine and after treatment control devices according to the manufacturer's emission related written instruction.

 [40 CFR §63.6625(e)(7)]
- b. Monitoring and Testing Requirements

The Permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirements in 40 CFR Part 63 Subpart ZZZZ, Table 2d. The oil analysis must be performed in accordance with 40 CFR §63.6625(j).

[40 CFR Part 63 Subpart ZZZZ, Table 2d, Footnote No.1]

- c. Record Keeping Requirements
 - i. The Permittee shall make and keep records of the parameters that are analyzed as part of the oil analysis program, the results of the analysis, and the oil changes for the engine.

 [40 CFR §63.6625(j)]
 - ii. The Permittee shall make and keep records to show continuous compliance with the requirements to operate and maintain the engine in accordance with 40 CFR §63.6655(d).
 [40 CFR §63.6655(d) and 40 CFR Part 63 Subpart ZZZZ, Table 6, Option 9]
 - iii. The Permittee shall make and keep all records in a form suitable for expeditious review according to 40 CFR §63.10(b)(1). All records must be kept readily accessible in hard copy or electronic form for at least five years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. [40 CFR §63.6660(c)]

d. Reporting Requirements

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such date specified by the commissioner whichever is earlier. [RCSA 22a-174-33(j)(1)(X)]

P. EMISSIONS UNIT 551 (EU-551): Motor Pool Fuel Distribution

Classification:

- Subject to RCSA §22a-174-20
- Subject to RCSA §22a-174-30a
- Subject to 40 CFR Part 63 Subpart CCCCCC
- Stationary storage tank for gasoline at a dispensing facility with capacity of more than 250 gallons and monthly throughput of 10,000 gallons or more but less than 100,000 gallons.

1. Gasoline Storage Tank

a. Limitation or Restriction:

The Permittee shall not place, store, or hold in any stationary storage vessel of more than 250 gallon (950 liter) capacity any VOC with a vapor pressure of 0.75 pounds per square inch or greater under standard conditions unless such vessel is equipped with a permanent submerged fill pipe or is a pressure tank as described in RCSA §22a-174-20(a)(2)(A). Submerged fill pipes installed on or prior to the effective date of this subsection shall have a discharge point no more than 18 inches from the bottom of the storage tank or be compliant with the requirements of 40 CFR Part 63 Subpart CCCCCC. Submerged fill pipes installed after the effective date of this subsection shall have a discharge point no more than six inches from the bottom of the storage tank. [RCSA §22a-174-20(a)(5)]

b. Monitoring and Testing Requirements

Record keeping specified in Section III.P.1.c of this Title V permit shall be sufficient to meet other Monitoring and Testing Requirements pursuant to RCSA §22a-174-33. [RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

The Permittee shall maintain records including, at a minimum, the information described in RCSA §22a-174-20(a)(10)(B). All such records shall be: [RCSA §22a-174-20(A)(10)(A)]

- i. Made available to the commissioner to inspect and copy upon request, and
- ii. Maintained for five years from the date such record is created.

d. Reporting Requirements

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such date specified by the commissioner whichever is earlier. [RCSA $\S 22a-174-33(j)(1)(X)$]

2. Stage I Vapor Recovery (RCSA §22a-174-30a)

- a. Limitation or restrictions
 - i. The Permittee of a gasoline dispensing facility shall not transfer or allow the transfer of gasoline between a delivery vehicle and a gasoline transfer facility stationary storage tank unless such stationary storage tank is equipped with a Stage I vapor recovery system that includes: [RCSA §22a-174-30a(c)(1)]
 - (A) A California Air Resources Board approved fill adapter; and
 - (B) A pressure/vacuum vent valve on each gasoline dispensing facility storage tank vent pipe.
 - ii. Any pressure/vacuum vent valve installed on and after July 1, 2015 shall be a California Air Resources Board approved pressure/vacuum vent valve. [RCSA §22a-174-30a(c)(2)]
 - iii. The pressure specifications for any pressure/vacuum vent valve shall be as follows: [RCSA §22a-174-30a(c)(3)]
 - (A) For any pressure/vacuum vent valve installed prior to July 1, 2015:
 - (1) A positive pressure setting of:
 - (a) 3.0 inches of water, plus or minus 0.5 inch, or
 - (b) 2.5 to 6.0 inches of water, and
 - (2) A vacuum setting of 8.0 inches of water, plus or minus 2.0 inches; and
 - (B) For any pressure/vacuum vent valve installed on and after July 1, 2015:
 - (1) A positive pressure setting of 2.5 to 6.0 inches of water,
 - (2) A negative pressure setting of 6.0 to 10.0 inches of water, and
 - (3) The total leak rate of all pressure/vacuum vent valves at an affected facility, including connections, shall not exceed 0.17 cubic foot per hour at a pressure of 2.0 inches of water and 0.63 cubic foot per hour at a vacuum of 4 inches of water.
 - iv. Except as provided in RCSA \$22a-174-30a(c)(5), a gasoline dispensing facility storage tank shall be equipped with a two-point Stage I vapor recovery system. The vapor exit port of the two-point Stage I vapor recovery system shall be designed and maintained to seal in a manner that will prevent the discharge of gasoline vapors to the atmosphere when the vapor return hose is disconnected. [RCSA \$22a-174-30a(c)(4)]
- b. Monitoring and Testing Requirements
 - i. The Permittee of any gasoline dispensing facility shall conduct each of the following tests at least once per calendar year:

[RCSA §§22a-174-30a(d)(1)(A) through (C), (4), (5) and (7)]

- (A) For every pressure/vacuum vent valve, a pressure/vacuum vent valve test. The pressure/vacuum vent valve tests shall be conducted according to the current version of California Air Resources Board TP-201.1E, *Leak Rate and Cracking Pressure of Pressure/Vacuum Vent Valves*, as may be revised from time to time, or another test method approved by the commissioner and the Administrator:
- (B) A pressure decay test. The pressure decay tests shall be conducted according to the current version of California Air Resources Board TP-201.3, *Determination of 2 Inch WC Static Pressure Performance of Vapor Recovery Systems of Dispensing Facilities*, as may be revised from time to time, or another test method approved by the commissioner and the Administrator; and
- (C) A vapor-space tie-in test. Vapor-space tie-in tests shall be conducted according to the current version of California Air Resources Board TP-201.3C, *Determination of Vapor Piping Connections to Underground Gasoline Storage Tanks (Tie-Tank Test)*, as may be revised from time to time, or another test method approved by the commissioner and the Administrator.
- ii. If an owner or operator of any gasoline dispensing facility fails any test required by RCSA \$22a-174-30a, the Permittee shall take corrective actions and retest no later than 60 days after failing the test. [RCSA §22a-174-30a(d)(10)]

c. Record Keeping Requirements

- i. The Permittee shall maintain the following records: [RCSA §\$22a-174-30a(e)(1)(A) through (F)]
 - (A) All licenses, as that term is defined in CGS §4-166, to construct or operate the gasoline dispensing facility or to construct or operate a specific system at the gasoline dispensing facility.
 - (B) All records and results of tests performed pursuant to RCSA §22a-174-30a including the date of the testing and the names, addresses, and phone numbers of the persons who performed the tests.
 - (C) A record of any maintenance or repair conducted on any part of the Stage I vapor recovery system, including a description of the maintenance or repair performed, identification of any part repaired or replaced on such Stage I vapor recovery system, the dates the maintenance or repair was performed, and a general description of the location of any part repaired or replaced.
 - (D) A chronological file of all inspection reports of the gasoline dispensing facility issued by a representative of the commissioner or Administrator for inspections performed at the gasoline dispensing facility.
 - (E) A chronological file of all compliance records, including orders, warnings and notices of violations, issued by a representative of the commissioner or Administrator; and
 - (F) A chronological register of daily throughput.
- ii. The Permittee shall make records required by RCSA §22a-174-30a available to the commissioner or the Administrator upon request. The Permittee shall make records available to the commissioner or Administrator no later than three business days after receiving such request. [RCSA §22a-174-30a(e)(3)]

- iii. The Permittee shall maintain the records for five years from the date of creation. [RCSA §22a-174-30a(e)(4)]
- iv. The Permittee shall display in a conspicuous location at the gasoline dispensing facility the address at which the records are maintained. [RCSA §22a-174-30a(e)(5)]

d. Reporting Requirements

- i. The Permittee of any gasoline dispensing facility shall: [RCSA §§22a-174-30a(d)(9)(A) and 22a-174-30a(d)(9)(B)]
 - (A) Notify the Department's Bureau of Air Management, Field Operations Section in writing of the time and location of a test required by this subsection at least seven business days in advance; and
 - (B) Submit a copy of the test report on a form provided by the Department to the Department's Bureau of Air Management, Field Operations Section within ten days after performing a test required by RCSA §22a-174-30a.

3. 40 CFR Part 63 Subpart CCCCCC - National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities

- a Limitation or Restriction
 - i. The Permittee must, at all times, operate and maintain the affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of the operation and maintenance procedures, review of the operation and maintenance records, and inspection of the source.

[40 CFR §63.11115(a)]

- ii. The Permittee must not allow gasoline to be handled in a manner that would result in vapor releases to the atmosphere for extended periods of time. Measures to be taken include, but are not limited to, the following: [40 CFR §63.11116(a)]
 - (A) Minimize gasoline spills;
 - (B) Clean up spills as expeditiously as practicable;
 - (C) Cover all open gasoline containers and all gasoline storage tank fill-pipes with a gasket seal when not in use;
 - (D) Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators.
- iii. The Permittee must only load gasoline into the storage tank by utilizing a submerged fill pipe that is no more than 12 inches from the bottom of the tank. [40 CFR §63.11117(b)(1)]

b. Monitoring and Testing requirements

Record keeping specified in Section III.P.3.c of this Title V permit shall be sufficient to meet other Monitoring and Testing Requirements pursuant to RCSA §22a-174-33(j)(1)(K)(ii)]

c. Record Keeping Requirements

The Permittee shall keep records of monthly throughput of gasoline dispensed from the storage tank and provide those records to the Administrator within 24 hours of request. Records shall be kept for a period of five years. [40 CFR §§63.1111(e), (h) and 63.11117(d)]

d. Reporting Requirements

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such date specified by the commissioner whichever is earlier. [RCSA 22a-174-33(1)(1)(X)]

O. PREMISES-WIDE GENERAL REQUIREMENTS

- 1. Annual Emission Statements: The Permittee shall submit annual emission statements requested by the commissioner as set forth in RCSA §22a-174-4(d)(1).
- **2. Emission Testing:** The Permittee shall comply with the procedures for sampling, emission testing, sample analysis, and reporting as set forth in RCSA §22a-174-5.
- **3. Emergency Episode Procedures:** The Permittee shall comply with the procedures for emergency episodes as set forth in RCSA §22a-174-6.
- **4. Reporting of Malfunctioning Control Equipment:** The Permittee shall comply with the reporting requirements of malfunctioning control equipment as set forth in RCSA §22a-174-7.
- **5. Prohibition of Air Pollution:** The Permittee shall comply with the requirement to prevent air pollution as set forth in RCSA §22a-174-9.
- **6. Public Availability of Information:** The public availability of information shall apply, as set forth in RCSA §22a-174-10.
- **7. Prohibition Against Concealment/Circumvention:** The Permittee shall comply with the prohibition against concealment or circumvention as set forth in RCSA §22a-174-11.
- **8. Violations and Enforcement:** The Permittee shall not violate or cause the violation of any applicable regulation as set forth in RCSA §22a-174-12.
- **9. Variances:** The Permittee may apply to the commissioner for a variance from one or more of the provisions of these regulations as set forth in RCSA §22a-174-13.
- **10. No Defense to Nuisance Claim:** The Permittee shall comply with the regulations as set forth in RCSA §22a-174-14.
- **11. Severability:** The Permittee shall comply with the severability requirements as set forth in RCSA §22a-174-15.

- **12. Responsibility to Comply:** The Permittee shall be responsible to comply with the applicable regulations as set forth in RCSA §22a-174-16.
- **13. Particulate Emissions:** The Permittee shall comply with the standards for control of particulate matter and visible emissions as set forth in RCSA §22a-174-18.
- **14. Fuel Sulfur Content:** The Permittee shall not use No. 2 heating oil that exceeds fifteen parts per million of sulfur by weight as set forth in CGS §16a-21a(a)(2)(B).
- **15. Sulfur Dioxide Emissions:** The Permittee shall comply with the requirements for Control of Sulfur Dioxide Emissions from Power Plants and other large stationary sources of air pollution as set forth in RCSA §22a-174-19a.
- **16. Sulfur Compound Emissions:** The Permittee shall comply with the requirements for control of sulfur compound emissions as set forth in RCSA §\$22a-174-19, 22a-174-19a and 22a-174-19b, as applicable.
- **17. Organic Compound Emissions:** The Permittee shall comply with the requirements for control of organic compound emissions as set forth in RCSA §22a-174-20.
- **18. Nitrogen Oxide Emissions:** The Permittee shall comply with the requirements for control of nitrogen oxide emissions as set forth in RCSA §22a-174-22e.
- **19. Ambient Air Quality:** The Permittee shall not cause or contribute to a violation of an ambient air quality standard as set forth in RCSA §22a-174-24(b).
- **20. Open Burning:** The Permittee is prohibited from conducting open burning, except as may be allowed by CGS §22a-174(f).
- 21. Asbestos: Should the premises, as defined in 40 CFR §61.145, become subject to the national emission standard for asbestos regulations in 40 CFR Part 61 Subpart M when conducting any renovation or demolition at this premises, then the Permittee shall submit proper notification as described in 40 CFR §61.145(b) and shall comply with all other applicable requirements of 40 CFR Part 61 Subpart M.
- 22. Emission Fees: The Permittee shall pay an emission fee as set forth in RCSA §22a-174-26(d).
- 23. Hazardous Air Pollutant (HAP) Emissions: Annual HAP emissions for the premises shall be less than 10 TPY of a single HAP and less than 25 TPY of any combination of HAPs. The 12 consecutive month record of HAP emissions shall be determined by adding the current month's record to that of the previous 11 months for the premises. [P 098-0056, 098-0061, 098-0062]
- **24. Odor:** The Permittee shall not cause or permit the emissions of any substance or combination of substances which creates or contributes to an odor beyond the property boundary of the premises that constitutes a nuisance as set forth in RCSA Section 22a-174-23 [P 098-0063, 098-0064, 098-0065]
- **25. Noise:** The Permittee shall operate this facility at all times in a manner so as not to violate or contribute significantly to the violation of any applicable state noise control regulations, as set forth in RCSA Sections 22a-69-1 through 22a-69-7,4. [P 098-0063, 098-0064, 098-0065]

Section IV: Compliance Schedule

TABLE IV: COMPLIANCE SCHEDULE				
Emissions Unit	Applicable Regulations	Steps Required for Achieving Compliance (Milestones)	Date by which Each Step is to be Completed	Dates for Monitoring, Record Keeping, and Reporting
		No Steps are required for achieving compliance at this time		

Section V: State Enforceable Terms and Conditions

Only the Commissioner of the Department of Energy and Environmental Protection has the authority to enforce the terms, conditions and limitations contained in this section.

SECTION V: STATE ENFORCEABLE TERMS AND CONDITIONS

- **A.** This Title V permit does not relieve the Permittee of the responsibility to conduct, maintain and operate the emissions units in compliance with all applicable requirements of any other Bureau of the Department of Energy and Environmental Protection or any federal, local or other state agency. Nothing in this Title V permit shall relieve the Permittee of other obligations under applicable federal, state and local law.
- **B.** Nothing in this Title V permit shall affect the commissioner's authority to institute any proceeding or take any other action to prevent or abate violations of law, prevent or abate pollution, investigate air pollution, recover costs and natural resource damages, and to impose penalties for violations of law, including but not limited to violations of this or any other permit issued to the Permittee by the commissioner.

C. Additional Emissions Units

- 1. The Permittee shall make and submit a written record, at the commissioner's request, within 30 days of receipt of notice from the commissioner, or by such other date specified by the commissioner, of each additional emissions unit or group of similar or identical emissions units at the premises.
- 2. Such record of additional emissions units shall include each emissions unit, or group of emissions units, at the premises which is not listed in Section II.A of this Title V permit, unless the emissions unit, or group of emissions units, is:
 - a. an insignificant emissions unit as defined in RCSA §22a-174-33; or
 - b. an emissions unit or activity listed in *White Paper for Streamlined Development of Part 70 Permit Applications, Attachment A* (EPA guidance memorandum dated July 10, 1995).
- **3.** For each emissions unit, or group of emissions units, on such record, the record shall include, as available:
 - a. Description, including make and model;
 - b. Year of construction/installation or if a group, range of years of construction/installation;
 - c. Maximum throughput or capacity; and
 - d. Fuel type, if applicable.
- **D.** Odors: The Permittee shall not cause or permit the emission of any substance or combination of substances which creates or contributes to an odor that constitutes a nuisance beyond the property boundary of the premises as set forth in RCSA §22a-174-23.
- **E.** Noise: The Permittee shall operate in compliance with the regulations for the control of noise as set forth in RCSA §§22a-69-1 through 22a-69-7.4, inclusive.
- **F.** Hazardous Air Pollutants (HAPs): The Permittee shall operate in compliance with the regulations for the control of HAPs as set forth in RCSA §22a-174-29.

The Administrator of the United States Environmental Protection Agency and the Commissioner of the Department of Energy and Environmental Protection have the authority to enforce the terms and conditions contained in this section.

SECTION VI: TITLE V REQUIREMENTS

A. SUBMITTALS TO THE COMMISSIONER & ADMINISTRATOR

The date of submission to the commissioner of any document required by this Title V permit shall be the date such document is received by the commissioner. The date of any notice by the commissioner under this Title V permit, including, but not limited to notice of approval or disapproval of any document or other action, shall be the date such notice is delivered or the date three days after it is mailed by the commissioner, whichever is earlier. Except as otherwise specified in this Title V permit, the word "day" means calendar day. Any document or action which is required by this Title V permit to be submitted or performed by a date which falls on a Saturday, Sunday or legal holiday shall be submitted or performed by the next business day thereafter.

Any document required to be submitted to the commissioner under this Title V permit shall, unless otherwise specified in writing by the commissioner, be directed to: Compliance Analysis and Coordination Unit, Bureau of Air Management, Department of Energy and Environmental Protection; 79 Elm Street, 5th Floor; Hartford, Connecticut 06106-5127.

Any submittal to the Administrator of the Environmental Protection Agency shall be submitted per the procedure required by the applicable requirement or otherwise in a computer-readable format and addressed to: Director, Enforcement and Compliance Assurance Division, U.S. EPA Region I, 5 Post Office Square, Suite 100 (Mailcode: 04-02), Boston, Massachusetts 02109-3912, Attn: Air Compliance Clerk.

B. CERTIFICATIONS [RCSA §22a-174-33(b)]

In accordance with RCSA §22a-174-33(b), any report or other document required by this Title V permit and any other information submitted to the commissioner or Administrator shall be signed by an individual described in RCSA §22a-174-2a(a), or by a duly authorized representative of such individual. Any individual signing any document pursuant to RCSA §22a-174-33(b) shall examine and be familiar with the information submitted in the document and all attachments thereto, and shall make inquiry of those individuals responsible for obtaining the information to determine that the information is true, accurate, and complete, and shall also sign the following certification as provided in RCSA §22a-174-2a(a)(4):

"I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that any false statement made in the submitted information may be punishable as a criminal offense under Section 22a-175 of the Connecticut General Statutes, under Section 53a-157b of the Connecticut General Statutes, and in accordance with any applicable statute."

C. SIGNATORY RESPONSIBILITY [RCSA §22a-174-2a(a)]

For purposes of signing any Title V-related application, document, report or certification required by RCSA §22a-174-33, any corporation's duly authorized representative may be either a named individual or any individual occupying a named position. Such named individual or individual occupying a named position is a duly authorized representative if such individual is responsible for the overall operation of one or more manufacturing, production or operating facilities subject to RCSA §22a-174-33 and either:

- 1. The facilities employ more than 250 persons or have gross annual sales or expenditures exceeding 25 million dollars in second quarter 1980 dollars; or
- 2. The delegation of authority to the duly authorized representative has been given in writing by an officer of the corporation in accordance with corporate procedures and the following:
 - i. Such written authorization specifically authorizes a named individual, or a named position, having responsibility for the overall operation of the Title V premises or activity,
 - ii. Such written authorization is submitted to the commissioner and has been approved by the commissioner in advance of such delegation. Such approval does not constitute approval of corporate procedures, and
 - iii. If a duly authorized representative is a named individual in an authorization submitted under subclause ii. of this subparagraph and a different individual is assigned or has assumed the responsibilities of the duly authorized representative, or, if a duly authorized representative is a named position in an authorization submitted under subclause ii. of this subparagraph and a different named position is assigned or has assumed the duties of the duly authorized representative, a new written authorization shall be submitted to the commissioner prior to or together with the submission of any application, document, report or certification signed by such representative.

D. ADDITIONAL INFORMATION [RCSA §22a-174-33(j)(1)(X), RCSA §22a-174-33(h)(2)]

The Permittee shall submit additional information in writing, at the commissioner's request, within 30 days of receipt of notice from the commissioner or by such other date specified by the commissioner, whichever is earlier, including information to determine whether cause exists for modifying, revoking, reopening, reissuing, or suspending this Title V permit or to determine compliance with this Title V permit.

In addition, the Permittee shall submit information to address any requirements that become applicable to the subject source and shall submit correct, complete, and sufficient information within 15 days of the applicant's becoming aware of any incorrect, incomplete, or insufficient submittal, during the pendency of the application, or any time thereafter, with an explanation for such deficiency and a certification pursuant to RCSA §22a-174-2a(a)(5).

E. MONITORING REPORTS [RCSA §22a-174-33(o)(1)]

A Permittee, required to perform monitoring pursuant to this Title V permit, shall submit to the commissioner, on forms prescribed by the commissioner, written monitoring reports on March 1 and September 1 of each year or on a more frequent schedule if specified in such permit. Such monitoring reports shall include the date and description of each deviation from a permit requirement including, but not limited to:

- 1. Each deviation caused by upset or control equipment deficiencies; and
- **2.** Each deviation of a permit requirement that has been monitored by the monitoring systems required under this Title V permit, which has occurred since the date of the last monitoring report; and
- **3.** Each deviation caused by a failure of the monitoring system to provide reliable data.

F. PREMISES RECORDS [RCSA §22a-174-33(o)(2)]

Unless otherwise required by this Title V permit, the Permittee shall make and keep records of all required monitoring data and supporting information for at least five years from the date such data and information were obtained. The Permittee shall make such records available for inspection at the site of the subject source and shall submit such records to the commissioner upon request. The following information, in addition to required monitoring data, shall be recorded for each permitted source:

- 1. The type of monitoring or records used to obtain such data, including record keeping;
- 2. The date, place, and time of sampling or measurement;
- **3.** The name of the individual who performed the sampling or the measurement and the name of such individual's employer;
- **4.** The date(s) on which analyses of such samples or measurements were performed;
- 5. The name and address of the entity that performed the analyses;
- **6.** The analytical techniques or methods used for such analyses;
- 7. The results of such analyses;
- 8. The operating conditions at the subject source at the time of such sampling or measurement; and
- **9.** All calibration and maintenance records relating to the instrumentation used in such sampling or measurements, all original strip-chart recordings or computer printouts generated by continuous monitoring instrumentation, and copies of all reports required by the subject permit.

G. PROGRESS REPORTS [RCSA §22a-174-33(q)(1)]

The Permittee shall, on March 1 and September 1 of each year, or on a more frequent schedule if specified in this Title V permit, submit to the commissioner a progress report on forms prescribed by the commissioner, and certified in accordance with RCSA §22a-174-2a(a)(5). Such report shall describe the Permittee's progress in achieving compliance under the compliance plan schedule contained in this Title V permit. Such progress report shall:

- 1. Identify those obligations under the compliance plan schedule in this Title V permit which the Permittee has met, and the dates on which they were met; and
- 2. Identify those obligations under the compliance plan schedule in this Title V permit which the Permittee has not timely met, explain why they were not timely met, describe all measures taken or to be taken to meet them and identify the date by which the Permittee expects to meet them.

Any progress report prepared and submitted pursuant to RCSA §22a-174-33(q)(1) shall be simultaneously submitted by the Permittee to the Administrator.

H. COMPLIANCE CERTIFICATIONS [RCSA §22a-174-33(q)(2)]

The Permittee shall, on March 1 of each year, or on a more frequent schedule if specified in this Title V permit, submit to the commissioner a written compliance certification certified in accordance with RCSA §22a-174-2a(a)(5) and which includes the information identified in 40 CFR §§70.6(c)(5)(iii)(A) to (C), inclusive.

Any compliance certification prepared and submitted pursuant to RCSA §22a-174-33(q)(2) shall be simultaneously submitted by the Permittee to the Administrator.

I. PERMIT DEVIATION NOTIFICATIONS [RCSA §22a-174-33(p)], [P 098-0063, 098-0064, 098-0065]

Notwithstanding Section VI.E. of this Title V permit, the Permittee shall notify the commissioner in writing, on forms prescribed by the commissioner, of any deviation from an emissions limitation, and shall identify the cause or likely cause of such deviation, all corrective actions and preventive measures taken with respect thereto, and the dates of such actions and measures as follows:

- 1. For any hazardous air pollutant, no later than 24 hours after such deviation commenced; and
- 2. For any other regulated air pollutant, no later than ten days after such deviation commenced.

J. PERMIT RENEWAL [RCSA §22a-174-33(j)(1)(B)]

All of the terms and conditions of this Title V permit shall remain in effect until the renewal permit is issued or denied provided that a timely renewal application is filed in accordance with RCSA §§22a-174-33(g), -33(h), and -33(i).

K. OPERATE IN COMPLIANCE [RCSA §22a-174-33(j)(1)(C)]

The Permittee shall operate the source in compliance with the terms of all applicable regulations, the terms of this Title V permit, and any other applicable provisions of law. In addition, any noncompliance constitutes a violation of the Clean Air Act and Chapter 446c of the Connecticut General Statutes and is grounds for federal and/or state enforcement action, permit termination, revocation and reissuance, or modification, and denial of a permit renewal application.

L. COMPLIANCE WITH PERMIT [RCSA §22a-174-33(j)(1)(G)]

This Title V permit shall not be deemed to:

- 1. Preclude the creation or use of emission reduction credits or allowances or the trading thereof in accordance with RCSA §§22a-174-33(j)(1)(I) and -33(j)(1)(P), provided that the commissioner's prior written approval of the creation, use, or trading is obtained;
- 2. Authorize emissions of an air pollutant so as to exceed levels prohibited pursuant to 40 CFR Part 72;
- **3.** Authorize the use of allowances pursuant to 40 CFR Parts 72 through 78, inclusive, as a defense to noncompliance with any other applicable requirement; or
- **4.** Impose limits on emissions from items or activities specified in RCSA §§22a-174-33(g)(3)(A) and -33(g)(3)(B) unless imposition of such limits is required by an applicable requirement.

M. INSPECTION TO DETERMINE COMPLIANCE [RCSA §22a-174-33(j)(1)(M)]

The commissioner may, for the purpose of determining compliance with this Title V permit and other applicable requirements, enter the premises at reasonable times to inspect any facilities, equipment, practices, or operations regulated or required under such permit; to sample or otherwise monitor substances or parameters; and to review and copy relevant records lawfully required to be maintained at such premises in accordance with this Title V permit. It shall be grounds for permit revocation should entry, inspection, sampling, or monitoring be denied or effectively denied, or if access to and the copying of relevant records is denied or effectively denied.

N. PERMIT AVAILABILITY

The Permittee shall have available at the facility at all times a copy of this Title V permit.

O. SEVERABILITY CLAUSE [RCSA §22a-174-33(j)(1)(R)]

The provisions of this Title V permit are severable. If any provision of this Title V permit or the application of any provision of this Title V permit to any circumstance is held invalid, the remainder of this Title V permit and the application of such provision to other circumstances shall not be affected.

P. NEED TO HALT OR REDUCE ACTIVITY [RCSA §22a-174-33(j)(1)(T)]

It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this Title V permit.

Q. PERMIT REQUIREMENTS [RCSA §22a-174-33(j)(1)(V)]

The filing of an application or of a notification of planned changes or anticipated noncompliance does not stay the Permittee's obligation to comply with this Title V permit.

R. PROPERTY RIGHTS [RCSA §22a-174-33(j)(1)(W)]

This Title V permit does not convey any property rights or any exclusive privileges. This Title V permit is subject to, and in no way derogates from any present or future property rights or other rights or powers of the State of Connecticut, and is further subject to any and all public and private rights and to any federal, state or local laws or regulations pertinent to the facility or regulated activity affected thereby, including CGS §4-181a(b) and RCSA §22a-3a-5(b). This Title V permit shall neither create nor affect any rights of persons who are not parties to this Title V permit.

S. ALTERNATIVE OPERATING SCENARIO RECORDS [RCSA §22a-174-33(o)(3)]

The Permittee shall, contemporaneously with making a change authorized by this Title V permit from one alternative operating scenario to another, maintain a record at the premises indicating when changes are made from one operating scenario to another and shall maintain a record of the current alternative operating scenario.

T. OPERATIONAL FLEXIBILITY AND OFF-PERMIT CHANGES [RCSA §22a-174-33(r)(2)]

The Permittee may engage in any action allowed by the Administrator in accordance with 40 CFR §§70.4(b)(12)(i) to (iii)(B), inclusive, and 40 CFR §§70.4(b)(14)(i) to (iv), inclusive, without a Title V non-minor permit modification, minor permit modification or revision and without requesting a Title V non-minor permit

modification, minor permit modification or revision provided such action does not:

- 1. Constitute a modification under 40 CFR Part 60, 61 or 63;
- **2.** Exceed emissions allowable under the subject permit;
- 3. Constitute an action which would subject the Permittee to any standard or other requirement pursuant to 40 CFR Parts 72 to 78, inclusive; or
- 4. Constitute a non-minor permit modification pursuant to RCSA §22a-174-2a(d)(4).

At least seven days before initiating an action specified in RCSA §22a-174-33(r)(2)(A), the Permittee shall notify the Administrator and the commissioner in writing of such intended action.

U. INFORMATION FOR NOTIFICATION [RCSA §22a-174-33(r)(2)(A)]

Written notification required under RCSA §22a-174-33(r)(2)(A) shall include a description of each change to be made, the date on which such change will occur, any change in emissions that may occur as a result of such change, any Title V permit terms and conditions that may be affected by such change, and any applicable requirement that would apply as a result of such change. The Permittee shall thereafter maintain a copy of such notice with the Title V permit. The commissioner and the Permittee shall each attach a copy of such notice to their copy of the Title V permit.

V. TRANSFERS [RCSA §22a-174-2a(g)]

No person other than the Permittee shall act or refrain from acting under the authority of this Title V permit unless such permit has been transferred to another person in accordance with RCSA §22a-174-2a(g).

The proposed transferor and transferee of a permit shall submit to the commissioner a request for a permit transfer on a form provided by the commissioner. A request for a permit transfer shall be accompanied by any fees required by any applicable provision of the general statutes or regulations adopted thereunder. The commissioner may also require the proposed transferee to submit with any such request, the information identified in CGS §22a-6o.

W. REVOCATION [RCSA §22a-174-2a(h)]

The commissioner may revoke this Title V permit on his own initiative or on the request of the Permittee or any other person, in accordance with CGS §4-182(c), RCSA §22a-3a-5(d), and any other applicable law. Any such request shall be in writing and contain facts and reasons supporting the request. The Permittee requesting revocation of this Title V permit shall state the requested date of revocation and provide evidence satisfactory to the commissioner that the subject source is no longer a Title V source.

Pursuant to the Clean Air Act, the Administrator has the power to revoke this Title V permit. Pursuant to the Clean Air Act, the Administrator also has the power to reissue this Title V permit if the Administrator has determined that the commissioner failed to act in a timely manner on a permit renewal application.

This Title V permit may be modified, revoked, reopened, reissued, or suspended by the commissioner, or the Administrator in accordance with RCSA §22a-174-33(r), CGS §22a-174c, or RCSA §22a-3a-5(d).

X. REOPENING FOR CAUSE [RCSA §22a-174-33(s)]

This Title V permit may be reopened by the commissioner, or the Administrator in accordance with RCSA §22a-174-33(s).

Y. CREDIBLE EVIDENCE

Notwithstanding any other provision of this Title V permit, for the purpose of determining compliance or establishing whether a Permittee has violated or is in violation of any permit condition, nothing in this Title V permit shall preclude the use, including the exclusive use, of any credible evidence or information.