

AIR QUALITY SYTHETIC MINOR SOURCE PERMIT TO OPERATE

Permit No.: AAIR16-0943

Permit Expiration: January 1, 2030

Permit Issued To: University of Nevada, Reno – Main Campus
Physical Address: 1664 N. Virginia Street, M/S0328, Reno, NV 89557
Mailing Address: 1664 N. Virginia Street, M/S0328, Reno, NV 89557
Billing Address: 1664 N. Virginia Street, M/S0328, Reno, NV 89557
Responsible Official: Cheston Carpenter, EH&S Executive Director

Phone: (775) 327-5040

Facility Description:

University of Nevada, Reno – Main Campus is a university that operates gasoline dispensing equipment, dual fuel boilers, natural gas fired equipment, emergency engines, laboratory equipment, and surface coating equipment.

As a university, the source is classified under SIC code 8221, “Colleges, Universities, and Professional Schools” and NAICS code 611310, “Colleges, Universities, and Professional Schools”.

Allowable Emissions:

The following quantities of emissions are the facility’s allowable emissions based upon the source’s potential to emit, as determined by the physical and operational design of the equipment and any practically enforceable permit conditions that limit the emissions of the source based on use of emissions control equipment, controlled operating rates, hours of operation, or other emissions control methods. The following quantities are used to determine annual permit maintenance fees and are enforceable emissions limits. The owner or operator shall ensure that this facility, subject to a Synthetic Minor Operating Permit, emits no more than the following quantities of emissions in any twelve (12) month rolling period: (DBOH 010.090 E.2.c)

1. 20 tons of PM10
2. 20 tons of PM2.5
3. 10 tons of sulfur dioxide
4. 79 tons of nitrous oxides
5. 75 tons of carbon monoxide
6. 25 tons of volatile organic compounds
7. 3.82 tons of combined HAP’s

Facility Emissions Unit List:

System A – Gasoline Dispensing Equipment (40 CFR PART 63, Subpart CCCCC)

EU ID	Equipment Description
A.001	500-Gallon Containment Solutions Aboveground Gasoline Storage Tank
A.002	Gasoline Nozzle
CT.001	OPW Phase I Coaxial Vapor Recovery (CARB Executive Order G-70-47)

System B – Gasoline Dispensing Equipment (40 CFR PART 63, Subpart CCCCC)

EU ID	Equipment Description
B.001	500-Gallon Containment Solutions Aboveground Gasoline Storage Tank
B.002	Gasoline Nozzle
CT.002	OPW Phase I Enhanced Vapor Recovery (CARB Executive Order VR-401)

System C01 – Boiler – Natural Gas Fuel Combustion (40 CFR PART 60, Subpart Dc)

EU ID	Make	Model Number	Serial Number	Heat Input
C01.001	Cleaver Brooks	CB-DW-34-400	SP-4192	15.00 MMBtu

System C02 – Boiler – Diesel Fuel Combustion (40 CFR PART 60, Subpart Dc)

EU ID	Make	Model Number	Serial Number	Heat Input
C02.001	Cleaver Brooks	CB-DW-34-400	SP-4192	15.00 MMBtu

System D01 – Boilers – Natural Gas Fuel Combustion (40 CFR PART 60, Subpart Dc)

EU ID	Make	Model Number	Serial Number	Heat Input
D01.001	Cleaver Brooks	DW-60	F-4716	30.00 MMBtu
D01.002	Cleaver Brooks	DW-60-400	CP-4354	30.00 MMBtu

System D02 – Boilers – Diesel Fuel Combustion (40 CFR PART 60, Subpart Dc)

EU ID	Make	Model Number	Serial Number	Heat Input
D02.001	Cleaver Brooks	DW-60	F-4716	30.00 MMBtu
D02.002	Cleaver Brooks	DW-60-400	CP-4354	30.00 MMBtu

System E – Natural Gas Fuel Combustion				
EU ID	Make	Model Number	Serial Number	Heat Input
E.001	Lochinvar Boiler	FBN5001	21367559	4.999 MMBtu
E.002	Lochinvar Boiler	FBN5001	21367560	4.999 MMBtu
E.003	Lochinvar Boiler	FBN5001	21366922	4.999 MMBtu
E.004	Lochinvar Boiler	FBN5001	21366923	4.999 MMBtu
E.005	Lochinvar Boiler	FBN5001	21368065	4.999 MMBtu
E.006	Lochinvar Boiler	FBN5001	21366579	4.999 MMBtu
E.007	Lochinvar Boiler	AQH1500NPM	2111123485838	1.50 MMBtu
E.008	Peerless Boiler	170-9	179-5008	1.36 MMBtu
E.009	Lochinvar Boiler	FBN2500	1721106195734	2.50 MMBtu
E.010	Lochinvar Boiler	FBN2500	1721106195735	2.50 MMBtu
E.011	Lochinvar Boiler	FBN2500	1720106106563	2.50 MMBtu
E.012	Fulton Boiler	VMP150	108544	5.978 MMBtu
E.013	Fulton Boiler	VMP150	108554	5.978 MMBtu
E.014	Fulton Boiler	VMP150	108582	5.978 MMBtu
E.015	Fulton Boiler	VMP150	108569	5.978 MMBtu
E.016	Fulton Boiler	VMP150	108559	5.978 MMBtu
E.017	Laars Boiler	RHCH2000NACF2EXX	A08206066	1.999 MMBtu
E.018	Hydrotherm Boiler	KN16	KN-16-M12NB-8972	1.60 MMBtu
E.019	Hydrotherm Boiler	KN16	KN-16-M12NB-8976	1.60 MMBtu
E.020	Kewanee Boiler	L3W125GO	R4262	4.184 MMBtu
E.021	Lochinvar Boiler	CFN1261PM	H06H00189670	1.26 MMBtu
E.022	Weil McLain Boiler	1688	Unknown	5.124 MMBtu
E.023	Cleaver Brooks Boiler	CFM	02309-1-1	1.969 MMBtu
E.024	Kewanee Boiler	L3W-60-G0	R4422	2.511 MMBtu
E.025	Kewanee Boiler	L3W-200-G0	R4424	8.37 MMBtu
E.026	Kewanee Boiler	L3W-200-G0	4423	8.37 MMBtu
E.027	Cleaver Brooks Boiler	FLX	BT-5879	9.167 MMBtu

E.028	Cleaver Brooks Boiler	FLX	BT-5878	9.167 MMBtu
E.029	Fulton Boiler	ICW30	PV580KK/114403	1.256 MMBtu
E.030	Fulton Boiler	VMP50	93568	2.10 MMBtu
E.031	Fulton Boiler	VMP50	93570	2.10 MMBtu
E.032	Superior Boiler	100LS	4374	4.18 MMBtu
E.033	Bryan Boiler	Ab300wfdglx	98563	3.00 MMBtu
E.034	Bryan Boiler	Ab300wfdglx	98564	3.00 MMBtu
E.035	Fulton Boiler	ICW30	PV388KK/114028	1.256 MMBtu
E.036	Lochinvar Boiler	Fbn3000	114h00268808	3.00 MMBtu
E.037	Lochinvar Boiler	Fbn3000	114h00268423	3.00 MMBtu
E.038	Lochinvar Boiler	Fbn1500	114h00268408	1.50 MMBtu
E.039	Laars Boiler	RHSH2400NACF2FXX	A10223045	2.40 MMBtu
E.040	Laars Boiler	RHCH2400NACF2FXX	A10223046	2.40 MMBtu
E.041	Laars Boiler	RHCH2400NACF2FXX	A10223047	2.40 MMBtu
E.042	Bryan Boiler	Ab250wfdg	96295	2.50 MMBtu
E.043	Bryan Boiler	Ab250wfdg	96298	2.50 MMBtu
E.044	Reco Elite Boiler	R32-1992-FG	R32-1992-FG	1.60 MMBtu

System F – Emergency Power Generation (40 CFR PART 63, Subpart ZZZZ)			
EU ID	Equipment Description	Model Number	Serial Number
F.001	Engine: 703 hp Detroit Diesel (mfg. 1985)	81237305	12VF001932
	Generator: 440 kW International Electric	0424HEJ-002	DF-14889
F.002	Engine: 896 hp Cat (mfg. 2000)	3412	3FZ01520
	Generator: 550 kW Cat	3412	AFE00072

System G – Emergency Power Generation (40 CFR PART 60, Subpart IIII)			
EU ID	Equipment Description	Model Number	Serial Number
G.001	Engine: 2206 hp Cat (mfg. 2009)	3512C	EBG00683
	Generator: 1500 kW Cat	SR4B-GD	G4W00827

G.002	Engine: 2206 hp Cat (mfg. 2009)	3512C	EBG00682
	Generator: 1500 kW Cat	SR4B-GD	G4W008280
G.003	Engine: 896 hp Detroit Diesel (mfg. 2010)	S1600	16701001231
	Generator: 600 kW MTU	DS00600DSRAH1483	319899-1-1-0410
G.004	Engine: 1220 hp Cummins (mfg. 2010)	QSK23-G7	321721
	Generator: 600 kW Cummins	DQCA-5379301	J100165193
G.005	Engine: 1675 hp Cummins (mfg. 2007)	QSKTA50-G3	33167362
	Generator: 1250 kW Cummins	DQGAA-5773153	C070032093A
G.006	Engine: 750 hp Cummins (mfg. 2004)	QSX15-G9NR2	79082687
	Generator: 500 kW MagnaMax	572RSL4027	WA555123-1106
G.007	Engine: 1502 hp Cat (mfg. 2008)	C32	SYC04373
	Generator: 1000 kW Cat	SR4B-GD	G5C03135
G.008	Engine: 900 hp Cat (mfg. 2007)	C18	EST00450
	Generator: 600 kW Cat	LC7	G7A01766
G.009	Engine: 804 hp Cummins (mfg. 2015)	QSX15-G9	79828057
	Generator: 600 kW Cummins	DFEJ1505153	D150820581
G.010	Engine: 804 hp Detroit Diesel (mfg. 2011)	12V1600G805	16701002377
	Generator: 600 kW MTU	DS00600D6SRAH1484	337099-1-1-0911
G.011	Engine: 923 hp Cat (mfg. 2017)	C18	FST01765
	Generator: 600 kW Cat	600	G7A06054
G.012	Engine: 4218 hp Cat (mfg. 2019)	3516C	CAT3516CHLY500230
	Generator: 2000 kW Cat	3516C	G2D00219
G.013	Engine: 625 hp Cat (mfg. 2020)	C18	FST02413
	Generator: 550 kW Cat	550	07A06978

System H – Laboratory Chemical Use	
EU ID	Equipment Description
N/A	Chemical use associated with university laboratories

System IA – Insignificant Activities (Natural Gas Fuel Combustion)				
EU ID	Make	Model Number	Serial Number	Heat Input
IA.001	Cleaver Brooks Boiler	MTF200250060HW	MB735	0.735 MMBtu
IA.002	RBI Boiler	MB750	011260898	0.75 MMBtu
IA.003	Camus	DMNH-0391-MSI-HLS	041826332	0.399 MMBtu
IA.004	Lochinvar Boiler	FBN1001	2219129465798	0.999 MMBtu
IA.005	Lochinvar Boiler	FBN1001	2219129465795	0.999 MMBtu
IA.006	State Industries Boiler	TPG400-600000	0910R000067	0.60 MMBtu
IA.007	State Industries Boiler	TPG-300	0825R000029	0.30 MMBtu
IA.008	Dri-Steem Humidifier	GTS04-600	1166670-01-01	0.54 MMBtu
IA.009	Dri-Steem Humidifier	GTS04-600	1166670-01-02	0.54 MMBtu
IA.010	Dri-Steem Humidifier	GTS04-700	1166670-02-02	0.63 MMBtu
IA.011	Dri-Steem Humidifier	GTS04-700	1166670-02-01	0.63 MMBtu
IA.012	Dri-Steem Humidifier	GTS04-700	1166670-03-02	0.63 MMBtu
IA.013	Dri-Steem Humidifier	GTS04-700	1166670-03-01	0.63 MMBtu
IA.014	Dri-Steem Humidifier	GTS04-700	1166670-02-03	0.63 MMBtu
IA.015	Camus Boiler	DMNH-0211-MSI-HL	101827477	0.199 MMBtu
IA.016	Cleaver Brooks Boiler	WTW-7A-1000	G-05624-M3	0.84 MMBtu
IA.017	Ajax Boiler	WRFG-525	67901	0.525 MMBtu
IA.018	Lochinvar Boiler	RJA200	119247719	0.70 MMBtu
IA.019	Lochinvar Boiler	KBN400	C13H10228423	0.40 MMBtu
IA.020	Dri-Steem Humidifier	GTS04-700	1185564-01-01	0.70 MMBtu
IA.021	Dri-Steem Humidifier	GTS04-700	1185564-02-01	0.70 MMBtu
IA.022	Lochinvar Boiler	KBN701	J13H10271139	0.70 MMBtu
IA.023	Lochinvar Boiler	KBN701	113H10269673	0.70 MMBtu
IA.024	Lochinvar Boiler	MFNH-1400-2H0	2336135524933	0.999 MMBtu

System IA – Insignificant Activities (Emergency Power Generation)			
EU ID	Equipment Description	Model Number	Serial Number
IA.025	Engine: 368.6 hp Volvo (mfg. 2004)	TAD1031GE	2100329130
	Generator: 275 kW MQ Power	43PSL6210	WA-543675
IA.026	Engine: 280 hp Detroit Diesel (mfg. 1981)	1063-7305	6A0422940
	Generator: 150 kW Lima Energy Products	3170-0812	BA19997DE
IA.027	Engine: 40.2 hp Ford (mfg. 1973)	240GF6005-A	03899 B-1-HA
	Generator: 30 kW Ford	6CTA6362	274759723
IA.028	Engine: 135 hp Cummins (mfg. 1996)	6BT5.9G-1	45440882
	Generator: 80 kW DMT Corporation	DMT-80C	96-203773-1
IA.029	Engine: 207 hp Cummins (mfg. 1991)	6CT8.3-G	44657681
	Generator: 125 kW DMT	DMT-125CA2	9.1184-1
IA.030	Engine: 241.3 hp Cummins (mfg. 1978)	NT855G	53480
	Generator: 180 kW Onan	180.oDFE-16R/19766L	H780350643
IA.031	Engine: 201.1 hp Cummins (mfg. 1991)	6CTA8.3G	44668582
	Generator: 150 kW DMT	DMT-150CB1	91224-1
IA.032	Engine: 71 hp John Deere (mfg. 1982)	4039DF001	T04039D4259334039DF 001
	Generator: 25 kW Kohler	20R0ZJ81	338943
IA.033	Engine: 8 hp Onan (mfg. 1987)	6.0DJB-18R/29419AC	D870890745
	Generator: 6 kW Onan	6.0DJB-18R/29419AC	AD131656SMC
IA.034	Engine: 207 hp Cummins (mfg. 1988)	6CT8.3	44245528
	Generator: 150 kW LaMarche	A18J-3-12V-A1	Unknown
IA.035	Engine: 152 hp Perkins England (mfg. 1999)	1797/1500	U691590F
	Generator: 75 kW Olympian	D100P1	E4683A/001
IA.036	Engine: 60.3 hp Allis-Chalmers (mfg. 1979)	3500MKII	3D.61579
	Generator: 75 kW Onan	75.ODYC-15R	D790408745
IA.037	Engine: 31.5 hp Isuzu (mfg. 2004)	AA-4LE2	8971711260
	Generator: 14 kW Whisperwatt	DF-027012	7107721

IA.038	Engine: 210 hp John Deere (mfg. 2008)	6068HF120	PE6068H616465
	Fire Pump: Clarke	Unknown	Unknown
IA.039	Engine: 490 hp Detroit (mfg. 1998)	80637416	06VF220467
	Generator: 300 kW Detroit Diesel	300DS	601539
IA.040	Engine: 350 hp International (mfg. 1999)	GA350	WJ3890N1177911
	Generator: 230 kW Olympian	D230P1	E3427AI001
IA.041	Engine: 490 hp Detroit Diesel (mfg. 2003)	6063MK35	06R0725446
	Generator: 275 kW Detroit Diesel	275DSE	0757406
IA.042	Engine: 144 hp John Deere (mfg. 2005)	6068TF150	PE6068T44698
	Generator: 105 kW Katolight	SED105FRJ4	108033-0305
IA.043	Engine: 140.8 hp John Deere (mfg. 2005)	6068TF150	PE6068T460131
	Generator: 105 kW Katolight	SED105FPJ4	114137-0805
IA.044	Engine: 98 hp John Deere (mfg. 2004)	4045FTF150	PE4045T480271
	Generator: 75 kW Katolight	SED75FRJ4	112451-0605
IA.045	Engine: 89.5 hp Isuzu (mfg. 2004)	4JJ1X	198943
	Generator: 36 kW Hoketsu	SDG65S	1476A60187
IA.046	Engine: 55.3 hp Isuzu (mfg. 2007)	BB-43GIT	7402112
	Generator: 36 kW MQ Power	DB-050112	679749
IA.047	Engine: 48.2 hp John Deere (mfg. 2006)	4024TF270	PE4024T078417
	Generator: 30 kW Katolight	SED30FRJ4T2	123783-0306
IA.048	Engine: 427 hp John Deere (mfg. 2006)	6125HF070	RG6125H056431
	Generator: 375 kW Katolight	SED300FPJ4	130036-0806
IA.049	Engine: 335 hp IVECO (mfg. 2007)	F2CE9685	WA-561116-0907
	Generator: 275 kW MQ Power	MQP250IV	Unknown
IA.050	Engine: 352 hp Cummins (mfg. 2006)	6CTAA8.365	21726190
	Generator: 230 kW Cummins	DGFS-5778289	J060985497
IA.051	Engine: 200 hp Cummins (mfg. 2013)	SB7-G5	73604491
	Generator: 125 kW Cummins	DSGAB-1340965	K130592082

IA.052	Engine: 469 hp MTU (mfg. 2013)	8V1600G70S	16501001801
	Generator: 350 kW MagnaPlus	433PSL7516	MX-194192-0413
IA.053	Engine: 280 hp Cat (mfg. 2016)	C7.1	E5500171
	Generator: 175 kW Cat	D175-4	G5A08465
IA.054	Engine: 325 hp Cummins (mfg. 2018)	QSB7-G5	74310606
	Generator: 240 kW Cummins	DSGAE-1849113	E180357900
IA.055	Engine: 464 hp Cummins (mfg. 2015)	DQDAA-1505152	D150819815
	Generator: 352 kW Cummins	DQDAA-1505152	73823652
IA.056	Engine: 85.8 hp Cat (mfg. 2019)	C4.4	E3L6114B
	Generator: 40 kW Cat	D40-2LC	LSB02567
IA.057	Engine: 350 hp John Deere (mfg. 2008)	6090HF485V,W,X,Y	337099-1-1-0911
	Generator: 225 kW Stamford	1/14	M08A223907-02
IA.058	Engine: 167.6 hp Cummins (mfg. 2012)	QSB7-G5NR3	73407328
	Generator: 125 kW Cummins	DSGAB-1206225	F120347842
IA.059	Engine: 422 hp John Deere (mfg. 2021)	6090HF484	RG6090L146141
	Generator: 250 kW Marathon	MTU 6R0150 DS250	95090503172
IA.060	Engine: 11.7 hp Kubota (mfg. 2014)	D1005-BG-EF02	1EJ3487
	Generator: 7 kW Athlon	AG164T16	AG13101466
IA.061	Engine: 227 hp Isuzu (mfg. 2019)	BQ-6HK1X	D18401000011
	Generator: 180 kW Isuzu	SSG-3180SI	D18401000011
IA.062	Engine: 20 hp Continental (unknown mfg.)	F162	240653
	Generator: 15 kW Onan	15HQ-4XR-2100G	120C652240
IA.063	Engine: 100 hp Ford (mfg. 1990)	LSG-8751-6003-C	12747T-07-12L
	Generator: 75 kW Onan	100ENBA	J930522419
IA.064	Engine: 100 hp Ford (mfg. 1993)	LSG-8751-6005-A	03723 B-27-RK
	Generator: 100 kW Onan	75ENT L38667C	I900347132
IA.065	Engine: 80 hp Cummins (mfg. 2008)	WSG-1068	A080142389
	Generator: 83 kW Stamford	M07L22373602	S223736-02

IA.066	Engine: 100 hp Cummins (mfg. 1990)	G743	25169658
	Generator: 100 kW MagnaPlus	3285A-1261A	AD 13656 SMG

System IA – Insignificant Activities (Surface Coating – Facility-Wide Maintenance Use)	
EU ID	Equipment Description
IA.067	Binks Spray Booth (Model Number: Unknown)

DRAFT

Issued by the Northern Nevada Public Health - Air Quality Management Division (AQMD) pursuant to its authority under District Board of Health Regulations Governing Air Quality Management Chapter 030, Source Permitting and Operation.

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I. General Provisions

- A. Transfer of Ownership** – A permit may not be transferred from one owner or piece of equipment to another unless otherwise specified in DBOH 030.000.C.2.c.(5). An owner or operator may apply for an administrative amendment reflecting a change of ownership or the name of the stationary source. The request for an administrative amendment shall be made on an application provided by the Control Officer, and the application must be accompanied by a fee as determined by the District Board of Health. (DBOH 030.000 C.2)
- B. Posting of Permit** – The owner or operator shall post this permit conspicuously at or near the stationary source. (DBOH 030.020 A.2.c.(15))
- C. Modifications of Permit** – It is unlawful for any person to make any modifications affecting the emissions of any equipment covered by this permit without Control Officer approval. Modification of the equipment covered by this permit outside of routine operation and maintenance may require a Permit to Construct. (DBOH 030.200 C.1.a)
- D. Record Keeping** – The owner or operator shall keep adequate records concerning pollutant emissions for any equipment or process for which the permit was issued. All owners and operators operating add-on emissions control equipment shall maintain records sufficient to legally demonstrate that the equipment has operated in compliance with all applicable Federal, State and Health District regulations. The owner or operator shall also record any times or occasions when the emissions control equipment is not in operation due to equipment failure, maintenance or any other reason. The owner or operator shall retain records of all required monitoring data and supporting information for five (5) years after the date of the sample collection, measurement, report or analysis, where supporting information includes all records regarding calibration and maintenance of the monitoring equipment and all original strip-chart recordings for continuous monitoring instrumentation. (DBOH 030.040 B.11, DBOH 030.020 A.2.c.(2))
- E. Right of Entry** – Upon presentation of credentials and other documents as may be required by law, the owner or operator shall allow the Control Officer or an authorized representative to enter the premises where a source is located, or emissions related activity is conducted and to: (DBOH 030.200 D.1q)
1. Have access to and copy any records that must be kept under the conditions of the permit.
 2. Inspect any facilities, equipment (including monitoring and air pollution control equipment), practices or operations regulated or required under the permit.
 3. Sample or monitor substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.
 4. Document alleged violations using devices such as cameras or video equipment.
- F. Opacity** – Except as otherwise provided in DBOH Regulations 030.000 B.5, no owner or operator may cause or permit the discharge into the atmosphere from any emission unit which is of an opacity equal to or greater than 20 percent. Opacity shall be determined by one of the following methods: (DBOH 030.000 B.5)
1. If opacity is determined by a visual measurement, it must be determined as set forth in Reference Method 9 in 40 CFR PART 60 Appendix A.

2. If a source uses a continuous monitoring system for the measurement of opacity, the data must be reduced to 6-minute averages as set forth in 40 CFR PART 60.13(h).

- G. Other Regulations** – This permit will not waive, or make less stringent, any limitations or requirements contained in or issued pursuant to the Washoe County portion of the Nevada State Implementation Plan (SIP), or that are otherwise federally enforceable. This permit shall not affect the responsibilities of the owner or operator to comply with the applicable portions of a control strategy in the SIP. (DBOH 030.200 D.1.u, 030.200 D.1.v)
- H. Concealment of Emissions** – No person may install, construct or use any device which conceals any emission without reducing the total release of regulated air pollutants to the atmosphere. (DBOH 030.000 B.2)
- I. Severability** – If any provisions of DBOH Regulations, this permit, or the application thereof to any person or circumstance is held invalid or unconstitutional, such invalidity or unconstitutionality shall not affect the other provisions or applications of these regulations which can be given effect without the invalid provision or application, and to this end the provisions of these regulations are declared to be severable. (DBOH 030.000 B.1)
- J. Property Rights** – The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations. (DBOH 030.020 A.2.c(10))
- K. Excess Emissions and Deviations** – Excess emissions of regulated air pollutants and any deviations from the requirements of this permit shall be reported to the Control Officer as specified in DBOH Regulations 030.040 A. (DBOH 030.040 A)
- L. Fees** – The owner or operator shall pay fees to the Control Officer consistent with the approved fee schedule. (DBOH 030.200 D.1.k)
- M. Construction as Authorized** – If a new or modified source cannot be constructed as authorized by the permit, the owner or operator shall provide a written notice to the Control Officer of any proposed revisions and obtain a revised permit prior to commencing construction. A source may be subject to enforcement action as a result of differences between the permitted and constructed source. (DBOH 030.200 D.1.n)
- N. Revocation for Cause** – The permit may be revised, revoked, reopened and reissued, or terminated for cause by the Control Officer. (DBOH 030.000 C.1)
- O. Permit Noncompliance** – The owner or operator must comply with all conditions of the permit and any permit noncompliance constitutes a violation of the regulations and is grounds for enforcement action; for permit termination, or revocation; or for denial of a permit renewal application. The need to halt or reduce activity to maintain compliance with the conditions of the permit is not a defense to noncompliance with any condition of the permit. (DBOH 030.200 D.1.p, DBOH 030.020 A.2.c.(8))

- P. Records Request** – The owner or operator must furnish to the Control Officer, within a reasonable time, any information that the Control Officer may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the owner or operator shall also furnish to the Control Officer copies of records required to be kept by the permit or, for information claimed to be confidential, the owner or operator may furnish such records directly to the Control Officer along with a claim of confidentiality pursuant to DBOH Regulations 020.000 D and NRS 445B.570. (DBOH 030.200 D.1.s)
- Q. Acknowledgement of Responsibility for Compliance** – The owner or operator’s commencement of operation constitutes an acknowledgement that the owner or operator assumes the responsibility of ensuring that the source’s emissions units and emission control equipment have been constructed and will be operated in compliance with all applicable requirements. (DBOH 030.200 D.2)
- R. Permit Revisions** – Any requested revision of an emission limitation, monitoring, testing, reporting, or recordkeeping requirement shall be made consistent with the permit revision requirements in DBOH Regulations 030.200 F. (DBOH 030.200 D.1.e)
- S. Responsible Official Certification** – A responsible official of the stationary source shall certify that, based on information and belief formed after a reasonable inquiry, the statements made in any document required to be submitted by any condition of the permit are true, accurate, and complete. (DBOH 030.020 A.2.c.(14))
- T. Compliance Plan** – A significant permit revision or a renewal for a source that is not in compliance at the time the application is submitted, shall include a compliance plan to address the non-compliant issue(s). The plan shall include a schedule of remedial measures, including an enforceable sequence of actions with milestones, leading to compliance with any requirements that the source is not in compliance with at the time of permit issuance. Any such plan shall be supplemental to, and shall not sanction noncompliance with, the applicable requirements on which it is based. (DBOH 030.200 C.5.j, DBOH 030.200 D.1.m)
- U. Notifications** – The owner or operator shall furnish the Control Officer written notification of: (DBOH 030.200 D.1.w)
1. The date that construction or reconstruction is commenced, postmarked no later than thirty (30) calendar days after such date.
 2. The anticipated date of initial start-up, postmarked not more than sixty (60) calendar days and not less than thirty (30) calendar days before such date.
 3. The actual date of initial start-up, postmarked within fifteen (15) calendar days after such date.
- V. Alternate Operating Scenarios** – The owner or operator may make changes among reasonably anticipated operating scenarios identified in its application, as approved by the Control Officer. Such terms and conditions shall require the source: (DBOH 030.200 D.1.1)
1. To record in a log at the permitted facility, while making a change from one operating scenario to another, the scenario under which the facility is operating.

2. For each such alternative operating scenario, to comply with all applicable requirements and the requirements of DBOH Regulations PART 030.200.

W. Additional Conditions – The Control Officer may impose additional conditions necessary to ensure compliance with any applicable requirement. (DBOH 030.200 D.1.x)

X. Yearly Reports, Annual Emissions - The owner or operator may be required to submit reports including, but not limited to, throughput, production, fuel consumption, hours of operation, emissions, emission factors and calculations used to determine the reported emissions from each permitted emissions unit for the previous calendar year. If requested, these reports shall be submitted to the Control Officer for all emissions units/systems specified on the Permit to Operate, and shall be submitted no later than March 31 annually for the preceding calendar year (DBOH 030.040 B.13)

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II. Facility-Wide Provisions

A. Facility-Wide Emissions Limits

1. The owner or operator shall ensure that this facility, subject to a Synthetic Minor Operating Permit, emits no more than the following quantities of emissions in any twelve (12) month rolling period: (DBOH 010.090 E.2.c)
 - a. 20 tons of PM10
 - b. 20 tons of PM2.5
 - c. 10 tons of sulfur dioxide
 - d. 79 tons of nitrous oxides
 - e. 75 tons of carbon monoxide
 - f. 25 tons of volatile organic compounds
 - g. 3.82 tons of combined HAP's

B. Monitoring, Recordkeeping and Reporting

1. Sources seeking exemption from Title V as a Synthetic Minor shall maintain the following records of operation sufficient to calculate actual emissions annually. Such information shall be summarized in a contemporaneous log, maintained on site for at least five (5) years, and be made available to Control Officer representatives upon request. Upon issuance of this permit, the owner or operator shall calculate and record on a calendar month basis, estimated emissions as follows: (DBOH 010.090 E)
 - a. System A and B – Gasoline Dispensing Equipment:
VOC and HAP emissions, in tons, shall be calculated based upon gasoline throughput in gallons of fuel dispensed annually using equations and emissions factors approved by the Control Officer.
 - b. System C01, D01, and E – Natural Gas Fuel Combustion:
PM2.5, PM10, SO2, NOx, CO, VOC and HAP emissions, in tons, shall be estimated based upon fuel consumption using emissions factors and equations identified in the owner or operator's application received June 20, 2024, or other Control Officer-approved method.
 - c. System C02 and D02 – Diesel Fuel Combustion:
PM2.5, PM10, SO2, NOx, CO, VOC, Pb and HAP emissions, in tons, shall be estimated based upon fuel consumption using emissions factors and equations identified in the owner or operator's application received June 20, 2024, or other Control Officer-approved method.
 - d. System F, and G – Emergency Power Generation:
PM2.5, PM10, SO2, NOx, CO, VOC and HAP emissions, in tons, shall be estimated based upon hours of operation and fuel consumption using emission factors and equations identified in the owner or operator's application received June 20, 2024. or other Control Officer-approved method.

- e. System H – Laboratory Chemical Use:
VOC and HAP emissions, in tons, shall be estimated based upon material throughput using emission factors and equations identified in the owner or operator’s application received June 20, 2024, or other Control Officer-approved method.
 - f. System IA – Natural Gas Fuel Combustion:
PM2.5, PM10, SO2, NOx, CO, VOC and HAP emissions, in tons, shall be estimated based upon fuel consumption using emissions factors and equations identified in the owner or operator’s application received June 20, 2024, or other Control Officer-approved method.
 - g. System IA – Emergency Power Generation:
PM2.5, PM10, SO2, NOx, CO, VOC and HAP emissions, in tons, shall be estimated based upon hours of operation and fuel consumption using emission factors and equations identified in the owner or operator’s received June 20, 2024. or other Control Officer-approved method.
 - h. System IA – Surface Coating:
VOC and HAP emissions, in tons, shall be estimated based upon material throughput using emission factors and equations identified in the owner or operator’s application received June 20, 2024, or other Control Officer-approved method.
2. Upon issuance of this permit, the owner or operator shall calculate the 12-month rolling total facility-wide estimated emissions of PM2.5, PM10, SO2, NOx, CO, VOC, and total HAP for each calendar month in ton(s) per year. Emissions totals shall be available within sixty (60) days of the end of a month. The owner or operator shall total PM2.5, PM10, SO2, NOx, CO, VOC, and total HAP emissions as calculated for all sources identified in this permit to determine compliance with the regulated air pollutants facility-wide emissions limit. (DBOH 010.090 E)
 3. An annual report shall be submitted to the Northern Nevada Public Health, Air Quality Management Division, by March 31 of each year by email to AQMDCompliance@nnph.org. This report shall include at least the following: (DBOH 010.090 E)
 - a. Once per year, the owner or operator shall report to the Control Officer the previous calendar year 12-month rolling total regulated air pollutants and total HAP emissions recorded under the regulated air pollutants emissions calculation and HAP emissions calculation (paragraph B.1.(a)-(h) of this section) used to determine compliance with the regulated air pollutants and HAP facility-wide emissions limit. The report shall include, but is not limited to, all methods, equations, emissions factors, and sources for emissions factors not previously identified used to determine the 12-month rolling total regulated air pollutants and HAP emissions.
 - b. Together with the annual report, the owner or operator shall submit an annual certification of compliance, signed by the owner or operator’s Responsible Official. The certification shall read: “Under penalty of perjury, I certify the following: based on information and belief formed after reasonable inquiry, the facility has been in compliance with the Synthetic Minor Permit conditions for the following period of time: _____”
 4. The owner or operator shall keep adequate records concerning pollutant emissions for any equipment or process for which the permit is issued. Owners and operators operating add-on control equipment

shall maintain records sufficient to legally demonstrate that the equipment has operated in compliance with all applicable Federal, State and Health District regulations. The owner or operator shall also record any times or occasions when the emissions control equipment is not in operation due to equipment failure, maintenance, or any other reason. (DBOH 030.040 B.11)

C. Deviation

1. The owner or operator shall notify the Control Officer of any deviations from the requirements of a permit or these regulations within fifteen (15) calendar days. The report to the Control Officer shall include the probable cause of all deviations and any action taken to correct the deviations. (DBOH 030.040 A.1.d)

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III. Specific Provisions

A. System A – Gasoline Dispensing Equipment

System A is comprised of (1) 500-gallon unleaded-regular underground gasoline storage tank, (1) gasoline nozzle, and all associated equipment and components in gasoline service.

1. Air Pollution Equipment

- a. Emissions from System A shall be controlled by best operating and maintenance practices of the Phase I Coaxial Vapor Recovery System (CT.001) and all associated equipment and components in gasoline service. (DBOH 030.200 D.1.x)

2. Emissions Limits

- a. The facility has requested a facility-wide emissions cap not to exceed the following specified limits, pursuant to the requirements of Section II of this permit. (DBOH 010.090 E.2.c.)
 - (1) 25 tons of volatile organic compounds per year.

3. Operating Parameters

- a. The owner or operator shall not exceed a gasoline throughput of 10,000 gallons per month. (DBOH 030.200 D.1.x)
- b. The owner or operator shall comply with the provisions of 40 CFR PART 63, Subpart CCCCCC – National Emission Standards for Hazardous Air Pollutants (NESHAP) for Source Category: Gasoline Dispensing Facilities, as they apply. (40 CFR PART 63 Subpart CCCCCC)
- c. The owner or operator shall, 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. (40 CFR 63.11115(a))
- d. The owner or operator shall 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))
 - (1) Minimize gasoline spills;
 - (2) Clean up spills as expeditiously as practicable;
 - (3) Cover all open gasoline containers and all gasoline storage tank fill-pipes with a gasketed seal when not in use;
 - (4) Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators.
- e. The owner or operator shall comply with the provisions of District Board of Health Regulations Governing Air Quality Management 040.080, as they apply. (DBOH 040.080)
- f. The owner or operator shall not transfer, permit the transfer, or provide equipment for the transfer of gasoline from any tank truck, trailer, or railroad tank car into any stationary storage container unless the following requirements are met: (DBOH 040.080 C.1)

- (1) Such container is equipped with a permanent submerged fill pipe;
 - (2) A “District Approved Vapor Control System” is utilized, preventing the release to the atmosphere of not less than 95 percent by weight, of organic compounds in the vapors displaced. The displaced vapors shall be recovered by a vapor control system involving the transfer of fuel from the distribution vehicle to the stationary storage vessel;
 - (3) The system shall contain a “leak-free” and “vapor-tight” gasoline fill connector and vapor return line to the delivery vehicle of at least 7.6 cm (3 inches) nominal diameter;
 - (4) The vapor control equipment at the facility shall be maintained in such a way that the vapor control system meets the specifications set forth in District Board of Health Regulations Governing Air Quality Management 040.080 at all times;
 - (5) Delivery vehicles shall be designed and maintained in a leak free and vapor-tight condition. A vapor laden vehicle may only be refilled at a facility equipped with a vapor control system that meets the requirements contained in District Board of Health Regulations Section 040.075; and
 - (6) The Phase I vapor recovery system shall have a poppetted drybreak on the vapor return.
- g. Hoses, nozzles, rubber gaskets, swivels, tank caps, fill tubs, and fill tube cap seals shall be maintained in good working order to prevent leakage and excess escape of vapors (i.e., no tears, slits, holes, leaks, or malfunctions). (DBOH 030.200 D.1.x)
- h. The owner or operator shall ensure that fuel spills or leaks are cleaned up or corrected immediately using proper waste disposal methods (including accumulations of fuel in spill containers, condensation pots, and liquid collectors). (DBOH 030.200 D.1.x)
- i. Whenever the Control Officer determines that a Phase I or Phase II vapor recovery system or any component is not operating in compliance with District regulations, the Control Officer shall mark such system or component “out of order”. No person shall use or permit the use of such marked component or system until it has been repaired, replaced, or adjusted, as necessary, and the Control Officer has re-inspected it or has authorized its use pending re-inspection. (DBOH 040.080 C.3.b)

4. Monitoring, Recordkeeping, and Reporting

- a. Upon issuance of this permit, the owner or operator shall document monthly gasoline throughput. Monthly throughput is calculated by summing the volume of gasoline loaded into, or dispensed from, the gasoline storage tank during the current day, plus the total volume of gasoline loaded into, or dispensed from, the gasoline storage tank during the previous 364 days, and then dividing that sum by 12. Records shall be retained for a period of five (5) years and shall be made available to the Control Officer upon request. (DBOH 040.080 E.1, 40 CFR 63.11111(e) and 63.11132)
- b. The owner or operator shall keep records as specified in the following paragraphs: (40 CFR 63.11125(d))
 - (1) Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control equipment and monitoring equipment.
 - (2) Records of actions taken during periods of malfunction to minimize emissions in accordance with § 63.11115(a), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.

- c. The owner or operator is not required to submit notifications or reports as specified in 40 CFR 63.11125, 63.11126, or subpart A, but must have records available within 24 hours of a request by the Control Officer to document gasoline throughput. (40 CFR 63.11116(b))
- d. The Control Officer may require the operator of the source to provide any applicable data to demonstrate compliance with the conditions of the Permit to Operate. Requested data must be provided in a timely manner, as specified by the Control Officer. Failure to provide this data as requested by the Control Officer constitutes a violation of the conditions of the Permit to Operate, and the affected source would be subject to a citation, suspension of the Permit to Operate, or both. (DBOH 040.080 E.2)

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B. System B – Gasoline Dispensing Equipment

System B is comprised of (1) 500-gallon unleaded-regular aboveground gasoline storage tank, (1) gasoline nozzle, and all associated equipment and components in gasoline service.

1. Air Pollution Equipment

- a. Emissions from System B shall be controlled by best operating and maintenance practices of the Phase I Enhanced Vapor Recovery (EVR) System (CT.002) and all associated equipment and components in gasoline service. (DBOH 030.200 D.1.x)

2. Emissions Limits

- a. The facility has requested a facility-wide emissions cap not to exceed the following specified limits, pursuant to the requirements of Section II of this permit. (DBOH 010.090 E.2.c.)

(1) 25 tons of volatile organic compounds per year.

3. Operating Parameters

- a. The owner or operator shall not exceed a gasoline throughput of 10,000 gallons per month. (DBOH 030.200 D.1.x)
- b. The owner or operator shall comply with the provisions of 40 CFR PART 63, Subpart CCCCCC – National Emission Standards for Hazardous Air Pollutants (NESHAP) for Source Category: Gasoline Dispensing Facilities, as they apply. (40 CFR PART 63 Subpart CCCCCC)
- c. The owner or operator shall, 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. (40 CFR 63.11115(a))
- d. The owner or operator shall 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))

(1) Minimize gasoline spills;

(2) Clean up spills as expeditiously as practicable;

(3) Cover all open gasoline containers and all gasoline storage tank fill-pipes with a gasketed seal when not in use;

(4) Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators.

- e. The owner or operator shall not transfer, permit the transfer, or provide equipment for the transfer of gasoline from any tank truck, trailer, or railroad tank car into any stationary storage container unless the following requirements are met: (DBOH 040.080 C.1)

(1) Such container is equipped with a permanent submerged fill pipe;

(2) A “District Approved Vapor Control System” is utilized, preventing the release to the atmosphere of not less than 95 percent by weight, of organic compounds in the vapors displaced.

- The displaced vapors shall be recovered by a vapor control system involving the transfer of fuel from the distribution vehicle to the stationary storage vessel;
- (3) The system shall contain a “leak-free” and “vapor-tight” gasoline fill connector and vapor return line to the delivery vehicle of at least 7.6 cm (3 inches) nominal diameter;
 - (4) The vapor control equipment at the facility shall be maintained in such a way that the vapor control system meets the specifications set forth in District Board of Health Regulations Governing Air Quality Management 040.080 at all times;
 - (5) Delivery vehicles shall be designed and maintained in a leak free and vapor-tight condition. A vapor laden vehicle may only be refilled at a facility equipped with a vapor control system that meets the requirements contained in District Board of Health Regulations Section 040.075; and
 - (6) The Phase I vapor recovery system shall have a poppetted drybreak on the vapor return.
- f. Hoses, nozzles, rubber gaskets, swivels, tank caps, fill tubs, and fill tube cap seals shall be maintained in good working order to prevent leakage and excess escape of vapors (i.e., no tears, slits, holes, leaks, or malfunctions). (DBOH 030.200 D.1.x)
 - g. The owner or operator shall ensure that fuel spills or leaks are cleaned up or corrected immediately using proper waste disposal methods (including accumulations of fuel in spill containers, condensation pots, and liquid collectors). (DBOH 030.200 D.1.x)
 - h. Whenever the Control Officer determines that a Phase I or Phase II vapor recovery system or any component is not operating in compliance with District regulations, the Control Officer shall mark such system or component “out of order”. No person shall use or permit the use of such marked component or system until it has been repaired, replaced, or adjusted, as necessary, and the Control Officer has re-inspected it or has authorized its use pending re-inspection. (DBOH 040.080 C.3.b)
 - i. The certified OPW Phase I Enhanced Vapor Recovery System shall be installed, operated, and maintained in accordance with the California Air Resources Board (CARB) Approved Installation, Operation, and Maintenance Manual, including all testing requirements. Equipment shall be inspected annually per the procedures identified in the CARB Approved Installation, Operation, and Maintenance Manual. A copy of the Executive Order and the CARB Approved Installation, Operation, and Maintenance Manual shall be maintained on site. (DBOH 040.080 C.d, CARB Executive Order VR-401)

4. Monitoring, Recordkeeping, and Reporting

- a. Upon issuance of this permit, the owner or operator shall document monthly gasoline throughput. Monthly throughput is calculated by summing the volume of gasoline loaded into, or dispensed from, the gasoline storage tank during the current day, plus the total volume of gasoline loaded into, or dispensed from, the gasoline storage tank during the previous 364 days, and then dividing that sum by 12. Records shall be retained for a period of five (5) years and shall be made available to the AQMD upon request. (DBOH 040.080 E.1, 40 CFR 63.11111(e) and 63.11132)
- b. The owner or operator shall keep records as specified in the following paragraphs: (40 CFR 63.11125(d))
 - (1) Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control equipment and monitoring equipment.

- (2) Records of actions taken during periods of malfunction to minimize emissions in accordance with § 63.11115(a), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.
- c. The owner or operator is not required to submit notifications or reports as specified in 40 CFR 63.11125, 63.11126, or subpart A, but must have records available within 24 hours of a request by the Control Officer to document gasoline throughput. (40 CFR 63.11116(b))
- d. The Control Officer may require the operator of the source to provide any applicable data to demonstrate compliance with the conditions of the Permit to Operate. Requested data must be provided in a timely manner, as specified by the Control Officer. Failure to provide this data as requested by the Control Officer constitutes a violation of the conditions of the Permit to Operate, and the affected source would be subject to a citation, suspension of the Permit to Operate, or both. (DBOH 040.080 E.2)
- e. The Control Officer shall be notified in advance of any performance testing being performed by email to AQMDCompliance@nnph.org. (DBOH 030.200 D.1.x)
- f. Performance testing results shall be emailed to AQMDCompliance@nnph.org within thirty (30) calendar days of completion of the test. (DBOH 030.200 D.1.x)
- g. If it is not feasible to repair malfunctioning equipment and conduct and pass a performance test within thirty (30) calendar days of a failed test, the owner or operator shall provide notification to the Control Officer by email to AQMDCompliance@nnph.org. The notification shall include at least the following: (DBOH 030.200 D.1.x)
 - (1) The reason(s) for the delay in repair;
 - (2) The date on which the repair is expected to be completed;
 - (3) The date on which the performance test will be performed.

5. Testing

- a. The following performance tests shall be conducted and passed at least once every three (3) year period to demonstrate compliance with California Air Resources Board (CARB) Executive Order VR-401. (DBOH 040.080, CARB Executive Order VR-401)
 - (1) Determination of Static Pressure of Vapor Recovery Systems of Dispensing Facilities with Above-Ground Storage Tanks (CARB Test Method TP-201.3B).
 - (2) Leak Rate and Cracking Pressure of Pressure/Vacuum Vent Valves (CARB Test Method TP.201.1E).

C. System C01 – Boiler – Natural Gas Fuel Combustion

- C01.001: Cleaver Brooks (m/n CB-DW-34-400, 15 MMBtu)

1. Air Pollution Equipment

- a. Emissions from C01.001 shall be controlled by best operating and maintenance practices. (DBOH 030.200 D.1.x)

2. Emissions Limits

- a. The facility has requested a facility-wide emissions cap not to exceed the following specified limits, pursuant to the requirements of Section II of this permit. (DBOH 010.090 E.2.c.)
 - (1) 20 tons of PM10 per year.
 - (2) 20 tons of PM2.5 per year.
 - (3) 10 tons of sulfur dioxide per year.
 - (4) 79 tons of nitrous oxides per year.
 - (5) 75 tons of carbon monoxide per year.
 - (6) 25 tons of volatile organic compounds per year.

3. Operating Parameters

- a. C01.001 may combust natural gas. (DBOH 030.200 D.1.x)
- b. A flow meter shall be installed, calibrated, and maintained on C01.001 to monitor the natural gas fuel usage. (DBOH 030.200 D.1.x)
- c. The maximum allowable heat input rate for C01.001 shall not exceed 15 MMBtu in any one-hour period, combusting a maximum of 14,706 standard cubic feet of natural gas per one-hour period. (DBOH 030.200 D.1.x)
- d. The owner or operator shall operate and maintain C01.001 in accordance with manufacturer specifications. If manufacturer specifications are not available, the owner or operator shall develop and implement procedures for the proper operation and maintenance of C01.001. A copy of the manufacturer specifications or the operations plan shall be maintained on site and shall be made available to the Control Officer upon request. (DBOH 030.200 D.1.x)

4. Monitoring, Recordkeeping, and Reporting

- a. The owner or operator, upon issuance of this permit, shall maintain in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log shall be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate. Records shall be retained for at least sixty (60) months. (DBOH 030.200 D.1.d)
 - (1) Monitor and record the hours of operation for C01.001 while combusting natural gas on a twelve (12) month rolling basis. The twelve (12) month rolling total hours of operation shall be

- determined as the sum of the monthly hours of operation for the preceding twelve (12) calendar months.
- (2) Monitor and record the consumption of natural gas, in cubic feet, for C01.001 on a twelve (12) month rolling total basis. The twelve (12) month rolling total consumption of natural gas shall be determined as the sum of the monthly consumption of natural gas for the preceding twelve (12) calendar months.
 - (3) The owner or operator, upon issuance of this permit, shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.

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D. System C02 – Boiler - Diesel Fuel Combustion

- C02.001: Cleaver Brooks (m/n CB-DW-34-400, 15 MMBtu)

1. Air Pollution Equipment

- a. Emissions from C02.001 shall be controlled by best operating and maintenance practices. (DBOH 030.200 D.1.x)

2. Emissions Limits

- a. The facility has requested a facility-wide emissions cap not to exceed the following specified limits, pursuant to the requirements of Section II of this permit. (DBOH 010.090 E.2.c.)
 - (1) 20 tons of PM10 per year.
 - (2) 20 tons of PM2.5 per year.
 - (3) 10 tons of sulfur dioxide per year.
 - (4) 79 tons of nitrous oxides per year.
 - (5) 75 tons of carbon monoxide per year.
 - (6) 25 tons of volatile organic compounds per year.
- b. **SO₂** – No owner or operator of an affected facility that combusts oil shall combust oil in the affected facility that contains greater than 0.5 weight percent sulfur. (40 CFR 60.42c(e))
- c. The SO₂ standard under this section applies at all times, except during periods of startup, shutdown, or malfunction. (40 CFR 60.42c(i), 40 CFR 60.43c(d))

3. Operating Parameters

- a. C02.001 may combust No. 2 fuel oil or diesel fuel. (DBOH 030.200 D.1.x)
- b. Operation of C02.001 on No. 2 fuel oil or diesel fuel shall be for the following reasons: (40 CFR 63.11195(e), 40 CFR 63.11237)
 - (1) During periods of gas supply emergencies;
 - (2) During periods of gas curtailment; and
 - (3) Periodic testing, maintenance, or operator training on No. 2 fuel oil or diesel fuel shall not exceed a combined total of 48 hours during any calendar year.
- c. A flow meter shall be installed, calibrated, and maintained on C02.001 to monitor No. 2 fuel oil and/or diesel fuel usage. (DBOH 030.200 D.1.x)
- d. The maximum allowable heat input rate for C02.001 shall not exceed 15 MMBtu in any one-hour period, combusting a maximum of 109 gallons No. 2 fuel oil or diesel fuel per one-hour period. (DBOH 030.200 D.1.x)
- e. The No. 2 fuel oil or diesel fuel used in the boiler shall have a sulfur content of less than 0.5% (5,000 ppm) by weight. (40 CFR 60.42c(d))

4. Monitoring, Recordkeeping, and Reporting

- a. The owner or operator, upon issuance of this permit, shall maintain in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log shall be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate. Records shall be retained for at least sixty (60) months (DBOH 030.200 D.1.d)
- (1) On a daily basis, monitor and record the hours of operation of C02.001 while combusting No. 2 fuel oil or diesel fuel.
 - (i) Identify the reason for operation (i.e., maintenance, periodic testing, operator training purposes, periods of gas curtailment, gas supply interruption, and startups). The nature of the curtailment, interruption, and startup shall be stated.
 - (2) On a daily basis, monitor and record the consumption of No. 2 fuel oil or diesel fuel, in gallons, for C02.001. (40 CFR 60.48c(g))
 - (3) Monitor and record the hours of operation for C02.001 while combusting No. 2 fuel oil or diesel fuel on a twelve (12) month rolling basis. The twelve (12) month rolling total hours of operation shall be determined as the sum of the monthly hours of operation for the preceding twelve (12) calendar months.
 - (4) Monitor and record the consumption of No. 2 fuel oil or diesel fuel, in gallons, for C02.001 on a twelve (12) month rolling basis. The twelve (12) month rolling total consumption of No. 2 fuel oil or diesel fuel shall be determined as the sum of the monthly consumption of No. 2 fuel oil or diesel fuel for the preceding twelve (12) calendar months.
- b. The owner or operator shall obtain fuel certifications from the fuel oil or diesel fuel supplier at the time of delivery and submit fuel receipts and fuel supplier certifications for all fuel deliveries that provide the following fuel supplier information and quality of fuel data: (40 CFR 60.48c(f), DBOH 030.200 D.1.x)
- (1) The name of the fuel oil or diesel fuel supplier;
 - (2) The date of delivery;
 - (3) Sulfur content of the oil;
 - (4) The fuel oil type and the ASTM method used to determine the type (see the definition of distillate oil in 40 CFR 60.41c for appropriate ASTM methods);
 - (5) The weight percent sulfur of the fuel oil or diesel fuel as determined using ASTM test method D-4294 or D-5453 or other method approved in advance by the Department;
 - (6) The date and time the sample was taken;
 - (7) The name, address, and telephone number of the laboratory that analyzed the sample; and
 - (8) The type of test or test method performed.
- c. The reporting period for the reports required under this section is each six-month period. All reports shall be submitted to the Control Officer and shall be postmarked by the 30th day following the end of the reporting period. (40 CFR 60.48c(j))

- d. The owner or operator shall keep records and submit reports that include the following information: (40 CFR 60.48c(d) and (e))
- (1) Calendar dates covered in the reporting period.
 - (2) Records of fuel supplier certification as described under paragraph 4.b. of this section. In addition to records of fuel supplier certifications, the report shall include a certified statement signed by the owner or operator of the affected facility that the records of fuel supplier certifications submitted represent all of the fuel combusted during the reporting period.

5. Testing

- a. **SO₂** – For distillate oil-fired affected facilities with heat input capacities between 2.9 and 29 MW (10 and 100 MMBtu/hr) where the owner or operator seeks to demonstrate compliance with the SO₂ standards based on fuel supplier certification, the performance test shall consist of the certification from the fuel supplier, as described below, as applicable. (40 CFR 60.44c(h), 40 CFR 60.42c(h)(1)):
- (1) The name of the fuel oil or diesel fuel supplier;
 - (2) The date of delivery;
 - (3) Sulfur content of the oil;
 - (4) The fuel oil type and the ASTM method used to determine the type (see the definition of distillate oil in 40 CFR 60.41c for appropriate ASTM methods);
 - (5) The weight percent sulfur of the fuel oil or diesel fuel as determined using ASTM test method D-4294 or D-5453 or other method approved in advance by the Department;
 - (6) The date and time the sample was taken;
 - (7) The name, address, and telephone number of the laboratory that analyzed the sample; and
 - (8) The type of test or test method performed.

E. System D01 – Boilers – Natural Gas Fuel Combustion

- D01.001: Cleaver Brooks (m/n DW-60, 30 MMBtu)
- D01.002: Cleaver Brooks (m/n DW-60-400, 30 MMBtu)

1. Air Pollution Equipment

- a. Emissions from D01.001 through D01.002, each, shall be controlled by best operating and maintenance practices. (DBOH 030.200 D.1.x)

2. Emissions Limits

- a. The facility has requested a facility-wide emissions cap not to exceed the following specified limits, pursuant to the requirements of Section II of this permit. (DBOH 010.090 E.2.c.)
 - (1) 20 tons of PM10 per year.
 - (2) 20 tons of PM2.5 per year.
 - (3) 10 tons of sulfur dioxide per year.
 - (4) 79 tons of nitrous oxides per year.
 - (5) 75 tons of carbon monoxide per year.
 - (6) 25 tons of volatile organic compounds per year.

3. Operating Parameters

- a. D01.001 through D01.002, each, may combust natural gas. (DBOH 030.200 D.1.x)
- b. A flow meter shall be installed, calibrated, and maintained on D01.001 through D01.002, each, to monitor the natural gas fuel usage. (DBOH 030.200 D.1.x)
- c. The maximum allowable heat input rate for D01.001 through D01.002, each, shall not exceed 30 MMBtu in any one-hour period, combusting a maximum of 29,412 standard cubic feet of natural gas per one-hour period. (DBOH 030.200 D.1.x)
- d. The owner or operator shall operate and maintain D01.001 through D01.002, each, in accordance with manufacturer specifications. If manufacturer specifications are not available, the owner or operator shall develop and implement procedures for the proper operation and maintenance of D01.001 through D01.002, each. A copy of the manufacturer specifications or the operations plan shall be maintained on site and shall be made available to the Control Officer upon request. (DBOH 030.200 D.1.x)

4. Monitoring, Recordkeeping, and Reporting

- a. The owner or operator, upon issuance of this permit, shall maintain in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log shall be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate. Records shall be retained for at least sixty (60) months. (DBOH 030.200 D.1.d)

- (1) Monitor and record the hours of operation for D01.001 through D01.002, each, while combusting natural gas on a twelve (12) month rolling basis. The twelve (12) month rolling total hours of operation shall be determined as the sum of the monthly hours of operation for the preceding twelve (12) calendar months.
- (2) Monitor and record the consumption of natural gas, in cubic feet, for D01.001 through D01.002, each, on a twelve (12) month rolling total basis. The twelve (12) month rolling total consumption of natural gas shall be determined as the sum of the monthly consumption of natural gas for the preceding twelve (12) calendar months.
- (3) The owner or operator, upon issuance of this permit, shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.

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F. System D02 – Boilers - Diesel Fuel Combustion

- D02.001: Cleaver Brooks (m/n DW-60, 30 MMBtu)
- D02.002: Cleaver Brooks (m/n DW-60-400, 30 MMBtu)

1. Air Pollution Equipment

- a. Emissions from D02.001 through D02.002, each, shall be controlled by best operating and maintenance practices. (DBOH 030.200 D.1.x)

2. Emissions Limits

- a. The facility has requested a facility-wide emissions cap not to exceed the following specified limits, pursuant to the requirements of Section II of this permit. (DBOH 010.090 E.2.c.)
 - (1) 20 tons of PM10 per year.
 - (2) 20 tons of PM2.5 per year.
 - (3) 10 tons of sulfur dioxide per year.
 - (4) 79 tons of nitrous oxides per year.
 - (5) 75 tons of carbon monoxide per year.
 - (6) 25 tons of volatile organic compounds per year.
- b. **SO₂** – No owner or operator of an affected facility that combusts oil shall combust oil in the affected facility that contains greater than 0.5 weight percent sulfur. (40 CFR 60.42c(e))
- c. **Particulate Matter** – No owner or operator of an affected facility that combusts coal, wood, or oil and has a heat input capacity of 8.7 MW (30 MMBtu/h) or greater shall cause to be discharged into the atmosphere from that affected facility any gases that exhibit greater than 20 percent opacity (6-minute average), except for one 6-minute period per hour of not more than 27 percent opacity. (40 CFR 60.43c(c))
- d. The SO₂ and opacity standards under this section apply at all times, except during periods of startup, shutdown, or malfunction. (40 CFR 60.42c(i), 40 CFR 60.43c(e))

3. Operating Parameters

- a. D02.001 through D02.002, each, may combust No. 2 fuel oil or diesel fuel. (DBOH 030.200 D.1.x)
- b. Operation of D02.001 through D02.002, each, on No. 2 fuel oil or diesel fuel shall be for the following reasons: (40 CFR 63.11195(e), 40 CFR 63.11237)
 - (1) During periods of gas supply emergencies;
 - (2) During periods of gas curtailment; and
 - (3) Periodic testing, maintenance, or operator training on No. 2 fuel oil or diesel fuel shall not exceed a combined total of 48 hours during any calendar year.
- c. A flow meter shall be installed, calibrated, and maintained on D02.001 through D02.002, each, to monitor No. 2 fuel oil and/or diesel fuel usage. (DBOH 030.200 D.1.x)

- d. The maximum allowable heat input rate for D02.001 through D02.002, each, shall not exceed 30 MMBtu in any one-hour period, combusting a maximum of 218 gallons No. 2 fuel oil or diesel fuel per one-hour period. (DBOH 030.200 D.1.x)
- e. The No. 2 fuel oil or diesel fuel used in the boiler shall have a sulfur content of less than 0.5% (5,000 ppm) by weight. (40 CFR 60.42c(d))

4. Monitoring, Recordkeeping, and Reporting

- a. The owner or operator, upon issuance of this permit, shall maintain in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log shall be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate. Records shall be retained for at least sixty (60) months. (DBOH 030.200 D.1.d)
 - (1) On a daily basis, monitor and record the hours of operation of D02.001 through D02.002, each, while combusting No. 2 fuel oil or diesel fuel.
 - (i) Identify the reason for operation (i.e., maintenance, periodic testing, operator training purposes, periods of gas curtailment, gas supply interruption, and startups). The nature of the curtailment, interruption, and startup shall be stated.
 - (2) On a daily basis, monitor and record the consumption of No. 2 fuel oil or diesel fuel, in gallons, for D02.001 through D02.002, each.
 - (3) Monitor and record the hours of operation for D02.001 through D02.002, each, while combusting No. 2 fuel oil or diesel fuel on a twelve (12) month rolling basis. The twelve (12) month rolling total hours of operation shall be determined as the sum of the monthly hours of operation for the preceding twelve (12) calendar months.
 - (4) Monitor and record the consumption of No. 2 fuel oil or diesel fuel, in gallons, for D02.001 through D02.002, each, on a twelve (12) month rolling basis. The twelve (12) month rolling total consumption of No. 2 fuel oil or diesel fuel shall be determined as the sum of the monthly consumption of No. 2 fuel oil or diesel fuel for the preceding twelve (12) calendar months.
- b. The owner or operator shall obtain fuel certifications from the fuel oil or diesel fuel supplier at the time of delivery and submit fuel receipts and fuel supplier certifications for all fuel deliveries that provide the following fuel supplier information and quality of fuel data: (40 CFR 60.48c(f), DBOH 030.200 D.1.x)
 - (1) The name of the fuel oil or diesel fuel supplier;
 - (2) The date of delivery;
 - (3) Sulfur content of the oil;
 - (4) The fuel oil type and the ASTM method used to determine the type (see the definition of distillate oil in 40 CFR 60.41c for appropriate ASTM methods);
 - (5) The weight percent sulfur of the fuel oil or diesel fuel as determined using ASTM test method D-4294 or D-5453 or other method approved in advance by the Department;
 - (6) The date and time the sample was taken;

- (7) The name, address, and telephone number of the laboratory that analyzed the sample; and
- (8) The type of test or test method performed.

c. Excess Emissions

- (1) The owner or operator shall submit excess emission reports for any excess emissions from the affected facility that occur during the reporting period and maintain records according to the requirements specified in paragraphs c.(1)(i) through (ii) of this section, as applicable to the visible emissions monitoring method used. (40 CFR 60.48c(c))
 - (i) For each performance test conducted using Method 9, the owner or operator shall keep the records including the information specified in paragraphs c.(1)(i)(a) through (c) of this section. (40 CFR 60.48c(c)(1))
 - (a) Dates and time intervals of all opacity observation periods;
 - (b) Name, affiliation, and copy of current visible emission reading certification for each visible emission observer participating in the performance test; and
 - (c) Copies of all visible emission observer opacity field data sheets;
 - (ii) For each performance test conducted using Method 22, the owner or operator shall keep the records including the information specified in paragraphs c.(1)(ii)(a) through (d) of this section. (40 CFR 60.48c(c)(2))
 - (a) Dates and time intervals of all visible emissions observation periods;
 - (b) Name and affiliation for each visible emission observer participating in the performance test;
 - (c) Copies of all visible emission observer opacity field data sheets; and
 - (d) Documentation of any adjustments made and the time the adjustments were completed to the affected facility operation by the owner or operator to demonstrate compliance with the applicable monitoring requirements.
- d. The reporting period for the reports required under this section is each six-month period. All reports shall be submitted to the Control Officer and shall be postmarked by the 30th day following the end of the reporting period. (40 CFR 60.48c(j))
- e. The owner or operator shall keep records and submit reports that include the following information: (40 CFR 60.48c(d) and (e))
 - (1) Calendar dates covered in the reporting period.
 - (2) Records of fuel supplier certification as described under paragraph 4.b. of this section. In addition to records of fuel supplier certifications, the report shall include a certified statement signed by the owner or operator of the affected facility that the records of fuel supplier certifications submitted represent all of the fuel combusted during the reporting period.
 - (3) Records of excess emissions as described under paragraph 4.c. of this section.

5. Testing

- a. **SO₂** – For distillate oil-fired affected facilities with heat input capacities between 2.9 and 29 MW (10 and 100 MMBtu/hr) where the owner or operator seeks to demonstrate compliance with the SO₂ standards based on fuel supplier certification, the performance test shall consist of the certification from the fuel supplier, as described below, as applicable. (40 CFR 60.44c(h), 40 CFR 60.42c(h)(1)):
- (1) The name of the fuel oil or diesel fuel supplier;
 - (2) The date of delivery;
 - (3) Sulfur content of the oil;
 - (4) The fuel oil type and the ASTM method used to determine the type (see the definition of distillate oil in 40 CFR 60.41c for appropriate ASTM methods);
 - (5) The weight percent sulfur of the fuel oil or diesel fuel as determined using ASTM test method D-4294 or D-5453 or other method approved in advance by the Department;
 - (6) The date and time the sample was taken;
 - (7) The name, address, and telephone number of the laboratory that analyzed the sample; and
 - (8) The type of test or test method performed.
- b. **Particulate Matter** – The owner or operator of an affected facility subject to the opacity standard in 40 CFR PART 60 Subpart Dc shall conduct performance tests as requested by the Control Officer, to determine compliance with the standard using EPA Reference Method 9 and the procedures in 40 CFR 60.11, and the facility shall comply with either paragraph 5.b.(1), b.(2), or b.(3) of this section. The observation period for Method 9 performance tests may be reduced from 3 hours to 60 minutes if all 6-minute averages are less than 10 percent and all individual 15-second observations are less than or equal to 20 percent during the initial 60 minutes of observation. (40 CFR 60.47c(a))
- (1) Except as provided in paragraph 5.b.(2) and 5.b.(3) of this section, the owner or operator shall conduct Method 9 performance tests using the procedures in paragraph a. of this section according to the applicable schedule in paragraphs 5.b.(1)(i) through 5.b.(1)(iv) of this section, as determined by the most recent Method 9 performance test results. (40 CFR 60.47c(a)(1))
 - (i) If no visible emissions are observed, a subsequent Method 9 performance test must be completed within 12 calendar months from the date that the most recent performance test was conducted or within 45 days of the next day that fuel with an opacity standard is combusted, whichever is later; (40 CFR 60.47c(1)(1)(i))
 - (ii) If visible emissions are observed but the maximum 6-minute average opacity is less than or equal to 5 percent, a subsequent Method 9 performance test must be completed within 6 calendar months from the date that the most recent performance test was conducted or within 45 days of the next day that fuel with an opacity standard is combusted, whichever is later; (40 CFR 60.47c(a)(1)(ii))
 - (iii) If the maximum 6-minute average opacity is greater than 5 percent but less than or equal to 10 percent, a subsequent Method 9 performance test must be completed within 3 calendar months from the date that the most recent performance test was conducted or within 45 days of the next day that fuel with an opacity standard is combusted, whichever is later; or (40 CFR 60.47c(a)(1)(iii))

- (iv) If the maximum 6-minute average opacity is greater than 10 percent, a subsequent Method 9 performance test must be completed within 45 calendar days from the date that the most recent performance test was conducted. (40 CFR 60.47c(a)(1)(iv))
- (2) If the maximum 6-minute opacity is less than 10 percent during the most recent Method 9 performance test, the owner or operator may, as an alternative to performing subsequent Method 9 performance tests, elect to perform subsequent monitoring using Method 22 according to the procedures specified in paragraphs 5.b.(2)(i) and (ii) of this section. (40 CFR 60.47c(a)(2))
- (i) The owner or operator shall conduct 10-minute observations (during normal operation) each operating day the affected facility fires fuel for which an opacity standard is applicable using Method 22 and demonstrate that the sum of the occurrences of any visible emissions is not in excess of 5 percent of the observation period (i.e., 30 seconds per 10 minute period). If the sum of the occurrence of any visible emissions is greater than 30 seconds during the initial 10 minute observation, immediately conduct a 30 minute observation. If the sum of the occurrence of visible emissions is greater than 5 percent of the observation period (i.e., 90 seconds per 30 minute period), the owner or operator shall either document and adjust the operation of the facility and demonstrate within 24 hours that the sum of the occurrence of visible emissions is equal to or less than 5 percent during a 30 minute observation (i.e., 90 seconds) or conduct a new Method 9 performance test within 45 calendar days. (40 CFR 60.47c(a)(2)(i))
- (ii) If no visible emissions are observed for 10 operating days during which an opacity standard is applicable, observations can be reduced to once every 7 operating days during which an opacity standard is applicable. If any visible emissions are observed, daily observations shall be resumed. (40 CFR 60.47c(a)(2)(ii))
- (3) If the maximum 6-minute opacity is less than 10 percent during the most recent Method 9 test, the owner or operator may, as an alternative to performing subsequent Method 9 performance tests, elect to perform subsequent monitoring using a digital opacity compliance system according to a site-specific monitoring plan approved by the Control Officer. The observations shall be similar, but not necessarily identical, to the requirements in paragraph 5.b.(2) of this section. For reference purposes in preparing the monitoring plan, see OAQPS “Determination of Visible Emission Opacity from Stationary Sources Using Computer-Based Photographic Analysis Systems.” This document is available from the U.S. Environmental Protection Agency (U.S. EPA); Office of Air Quality and Planning Standards; Sector Policies and Programs Division; Measurement Policy Group (D243–02), Research Triangle Park, NC 27711. This document is also available on the Technology Transfer Network (TTN) under Emission Measurement Center Preliminary Methods. (40 CFR 60.47c(a)(3))
- (i) The owner or operator of each affected facility subject to the PM or opacity limits of 40 CFR 60.43c, shall submit to the Control Officer the performance test data from the initial and any subsequent performance tests. (40 CFR 60.48c(b))
- (ii) The reporting period for the reports required under this section is each six-month period. All reports shall be submitted to the Control Officer and shall be postmarked by the 30th day following the end of the reporting period. (40 CFR 60.48c(j))

G. System E – Natural Gas Fuel Combustion

- E.001 – E.044: See equipment list on Page 2

1. Air Pollution Equipment

- a. Emissions from E.001 through E.044, each, shall be controlled by best operating and maintenance practices. (DBOH 030.200 D.1.x)

2. Emissions Limits

- a. The facility has requested a facility-wide emissions cap not to exceed the following specified limits, pursuant to the requirements of Section II of this permit. (DBOH 010.090 E.2.c.)
 - (1) 20 tons of PM10 per year.
 - (2) 20 tons of PM2.5 per year.
 - (3) 10 tons of sulfur dioxide per year.
 - (4) 79 tons of nitrous oxides per year.
 - (5) 75 tons of carbon monoxide per year.
 - (6) 25 tons of volatile organic compounds per year.

3. Operating Parameters

- a. E.001 through E.044, each, shall only combust natural gas. (DBOH 030.200 D.1.x)
- b. The owner or operator shall operate and maintain E.001 through E.044, each, in accordance with manufacturer specifications. If manufacturer specifications are not available, the owner or operator shall develop and implement procedures for the proper operation and maintenance of E.001 through E.044, each. A copy of the manufacturer specifications or the operations plan shall be maintained on site and shall be made available to the Control Officer upon request. (DBOH 030.200 D.1.x)

4. Monitoring, Recordkeeping, and Reporting

- a. The owner or operator, upon issuance of this permit, shall maintain in a contemporaneous log, the monitoring and recordkeeping specified in this section. All records in the log shall be identified with the calendar date of the record. All specified records shall be entered into the log at the end of the shift, end of the day of operation, or the end of the final day of operation for the month, as appropriate. Records shall be retained for at least sixty (60) months. (DBOH 030.200 D.1.d)
 - (1) Monitor and record the consumption of natural gas, in cubic feet, for E.001 through E.044, combined, on a twelve (12) month rolling total basis. The twelve (12) month rolling total consumption of natural gas shall be determined as the sum of the monthly consumption of natural gas for the preceding twelve (12) calendar months.
 - (2) The owner or operator, upon issuance of this permit, shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system of monitoring device is inoperative.

H. System F – Emergency Power Generation

- F.001 – F.002: See equipment list on page 2

1. Air Pollution Equipment

- a. Emissions from F.001 through F.002, each, shall be controlled by best operating and maintenance practices. (DBOH 030.200 D.1.x)

2. Emissions Limits

- a. The facility has requested a facility-wide emissions cap not to exceed the following specified limits, pursuant to the requirements of Section II of this permit. (DBOH 010.090 E.2.c.)
 - (1) 20 tons of PM10 per year.
 - (2) 20 tons of PM2.5 per year.
 - (3) 10 tons of sulfur dioxide per year.
 - (4) 79 tons of nitrous oxides per year.
 - (5) 75 tons of carbon monoxide per year.
 - (6) 25 tons of volatile organic compounds per year.

3. Operating Parameters

- a. F.001 through F.002, each, shall only be operated to provide electrical power or mechanical work during an emergency situation. Examples include use to produce power for critical networks or equipment (including power supplied to portions of a facility) when electric power from the local utility (or normal power source, if the facility runs on its own power production) is interrupted. (40 CFR 63.6675)
- b. F.001 through F.002, each, shall only be operated according to the following requirements. In order for the engine to be considered an emergency engine, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described in paragraph 3.b.(3) of this section, is prohibited. If the engine is not operated according to the following requirements, the engine will not be considered an emergency engine and must meet all requirements for non-emergency engines. (40 CFR 63.6640(f))
 - (1) There is no time limit on the use of the engine in emergency situations.
 - (2) The engine may be operated 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.
 - (3) The engine may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation are counted towards the 100 hours per calendar year for maintenance and testing purposes. The emergency engine shall not be used for peak shaving, non-emergency demand response, to generate income for a facility to an electric grid, or otherwise supply power as part of a financial arrangement with another entity, except as provided paragraph (3)(i)-(v) of

this section. The 50 hours per year for non-emergency situations may be used to supply power as part of a financial arrangement with another entity provided all the following conditions are met:

- (i) The engine is dispatched by the local balancing authority or local transmission and distribution system operator.
 - (ii) The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region.
 - (iii) The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines.
 - (iv) The power is provided only to the facility itself or to support the local transmission and distribution system.
 - (v) The owner or operator identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the engine owner or operator.
- (4) The owner or operator is prohibited from operating the emergency engine(s) for demand response when there is a deviation of voltage or frequency. To utilize the engine for demand response or when there is a deviation of voltage or frequency, the source must submit a request to the Control Officer, and the engine shall be treated as a non-emergency engine. (EPA-HQ-OAR-2008-0708; FRL-5300.3-01-OAR)

4. Monitoring, Recordkeeping, and Reporting

- a. The owner or operator of any stationary CI internal combustion engine shall install a non-resettable hour meter prior to startup of the engine. (DBOH 030.200 D.1.x)
 - (1) If the non-resetting hour meter is found to be malfunctioning, the owner or operator shall: (DBOH 030.200 D.1.x)
 - (i) Record hours of operation daily until the function of the hour meter is restored; and
 - (ii) Restore the function of the hour meter within two (2) weeks. If it is not possible to restore the function of the hour meter within two (2) weeks, the owner or operator shall notify the Control Officer in writing and provide a schedule for restoration of the hour meter. Notification shall be submitted by email to AQMDCompliance@nnph.org.
- a. The owner or operator shall maintain records of the amount of fuel purchased for use in the engine. (DBOH 030.200 D.1.d)
- b. The owner or operator shall maintain records of engine maintenance, including the date when the maintenance was performed and the maintenance procedures that were performed. (DBOH 030.200 D.1.d)

- c. The owner or operator shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in paragraph 4.c.(1) – (4) of this section. All records in the log shall be identified with the calendar date of the record, and record shall be retained on site for a period of at least five (5) years and be made available to the Control Officer upon request. (DBOH 030.200 D.1.d)
- (1) Monitor and record hours of operation for maintenance, including a description of the maintenance that was performed.
 - (2) Monitor and record hours of operation for emission testing (if required), including a description of the testing that was performed.
 - (3) Monitor and record hours of operation for emergency situations, including a description of the nature of the emergency.
 - (4) Monitor and record fuel consumption (in gallons) for each engine by either:
 - (i) Multiplying the total hours of operation and the maximum hourly fuel consumption rate (as specified on the manufacturer's specification sheet); or
 - (ii) By use of a fuel flow meter.

I. System G – Emergency Power Generation

- G.001 – G.013: See equipment list on page 2

1. Air Pollution Equipment

- a. Emissions from G.001 through G.013, each, shall be controlled by best operating and maintenance practices. (DBOH 030.200 D.1.x)

2. Emissions Limits

- a. The facility has requested a facility-wide emissions cap not to exceed the following specified limits, pursuant to the requirements of Section II of this permit. (DBOH 010.090 E.2.c.)
 - (1) 20 tons of PM10 per year.
 - (2) 20 tons of PM2.5 per year.
 - (3) 10 tons of sulfur dioxide per year.
 - (4) 79 tons of nitrous oxides per year.
 - (5) 75 tons of carbon monoxide per year.
 - (6) 25 tons of volatile organic compounds per year.

3. Operating Parameters

- a. The owner or operator shall operate the engine according to the requirements in paragraph 3.a.(1)-(4) of this section. For the engine to be considered an emergency stationary internal combustion engine, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described in this section, is prohibited. If the engine is not operated in accordance with the specified criteria, the engine will not be considered an emergency engine and will be required to meet all requirements for non-emergency engines. (40 CFR 60.4211(f))
 - (1) There is no time limit on the use of the emergency engine in emergency situations.
 - (2) The engine may be operated 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 total number of hours of operation for these purposes shall not exceed 100 hours per calendar year per engine.
 - (3) The engine may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation are counted towards the 100 hours per calendar year for maintenance and testing purposes. The emergency engine shall not be used for peak shaving, non-emergency demand response, to generate income for a facility to an electric grid, or otherwise supply power as part of a financial arrangement with another entity, except as provided in paragraph 3.a.(3)(i)-(v) of this section. The 50 hours per year for non-emergency situations may be used to supply power as part of a financial arrangement with another entity provided all the following conditions are met: (40 CFR 60.4211(f)(3))

- (i) The engine is dispatched by the local balancing authority or local transmission and distribution system operator.
 - (ii) The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region.
 - (iii) The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines.
 - (iv) The power is provided only to the facility itself or to support the local transmission and distribution system.
 - (v) The owner or operator identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the engine owner or operator.
- (4) The owner or operator is prohibited from operating the emergency engines for demand response when there is a deviation of voltage or frequency. To utilize the engine for demand response or when there is a deviation of voltage or frequency, the source must submit a request to the AQMD, and the engine shall be treated as a non-emergency engine. (EPA-HQ-OAR-2008-0708; FRL-5300.3-01-OAR)
- b. The owner or operator of an emergency stationary internal combustion engine with a displacement of less than 30 liters per cylinder must use Ultra Low Sulfur Diesel (ULSD) with a maximum sulfur content of 15 ppm and either a minimum cetane index of 40, or a maximum aromatic content of 35 volume percent per 40 CFR 1090.305. (40 CFR 60.4207)

4. Monitoring, Recordkeeping, and Reporting

- a. The engine shall be operated and maintained according to the manufacturer's emission-related written instructions. The owner or operator shall only change those emission-related settings that are permitted by the manufacturer and must notify the Control Officer of any alterations or modifications of the engine or emission-related equipment. (40 CFR 60.4211(a))
- b. If the engine is not installed, configured, operated, and maintained according to the manufacturer's emission-related written instructions, or emission-related settings are changed in a way that is not permitted by the manufacturer, compliance must be demonstrated as follows: (40 CFR 60.4211(g))
 - (1) The owner or operator of an engine greater than 500 HP must keep a maintenance plan and records of conducted maintenance to demonstrate compliance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, if the engine is not installed and configured according to the manufacturer's emission-related written instructions, or the emission-related settings are changed in a way not permitted by the manufacturer, an initial performance test must be conducted to demonstrate compliance with the applicable emission standards within 1 year of such action. Subsequent performance testing shall be conducted every 8,760 hours of engine

operation or 3 years, whichever comes first, thereafter to demonstrate compliance with the applicable emission standards.

- c. The owner or operator must operate and maintain the emergency stationary internal combustion engine that achieves the emission standards as required in 40 CFR 60.4205 over the entire life of the engine. (40 CFR 60.4206)
- d. The owner or operator of any stationary CI internal combustion engine shall install a non-resettable hour meter prior to startup of the engine. (40 CFR 63.6625(f))
 - (1) If the non-resetting hour meter is found to be malfunctioning, the owner or operator shall: (DBOH 030.200 D.1.x)
 - (i) Record hours of operation daily until the function of the hour meter is restored; and
 - (ii) Restore the function of the hour meter within two (2) weeks. If it is not possible to restore the function of the hour meter within two (2) weeks, the owner or operator shall notify the Control Officer in writing and provide a schedule for restoration of the hour meter. Notification shall be submitted by email to AQMDCCompliance@nnph.org.
- e. The owner or operator shall maintain records of the amount of fuel purchased for use in the engine. (DBOH 030.200 D.1.d)
- f. The owner or operator shall maintain records of engine maintenance, including the date when the maintenance was performed and the maintenance procedures that were performed. (DBOH 030.200 D.1.d)
- g. The owner or operator shall maintain, in a contemporaneous log, the monitoring and recordkeeping specified in paragraph 4.g.(1)-(4). All records in the log shall be identified with the calendar date of the record, and record shall be retained on site for a period of at least five (5) years and be made available to the Control Officer upon request. (DBOH 030.200 D.1.d)
 - (1) Monitor and record hours of operation for maintenance, including a description of the maintenance that was performed.
 - (2) Monitor and record hours of operation for emission testing (if required), including a description of the testing that was performed.
 - (3) Monitor and record hours of operation for emergency situations, including a description of the nature of the emergency.
 - (4) Monitor and record diesel fuel consumption (in gallons) for each engine by either:
 - (i) Multiplying the total hours of operation and the maximum hourly fuel consumption rate (as specified on the manufacturer's specification sheet); or
 - (ii) By use of a fuel flow meter

J. System H – Laboratory Chemical Use

1. Air Pollution Equipment

- a. Emissions from System H shall be controlled by best operating and maintenance practices. (DBOH 030.200 D.1.x)

2. Emissions Limits

- a. The facility has requested a facility-wide emissions cap not to exceed the following specified limits, pursuant to the requirements of Section II of this permit. (DBOH 010.090 E.2.c.)
 - (1) 25 tons of volatile organic compounds per year.

3. Operating Parameters

- a. All laboratory equipment shall be operated and maintained in accordance with manufacturer specifications. If manufacturer specifications are not available, the owner or operator shall develop and implement procedures for the proper operation and maintenance of all laboratory equipment. A copy of the manufacturer specifications or the operations and maintenance plan shall be maintained on site and shall be made available to the Control Officer upon request. (DBOH 030.200 D.1.x)

4. Monitoring, Recordkeeping and Reporting

- a. The owner or operator, upon issuance of this permit, shall maintain in a contemporaneous log, the monitoring and recordkeeping specified in this section. Records shall be retained for a period of sixty (60) months and shall be made available to the Control Officer upon request. (DBOH 030.200 D.1.d)
 - (1) Maintain a list of the twelve (12) chemicals identified in the owner or operator's application received June 20, 2024, and document the VOC and HAP Emission Factor (weight %).
 - (2) Maintain an SDS for the twelve (12) chemicals identified in the owner or operator's application received June 20, 2024.
 - (3) On a monthly basis, monitor and record the throughput (in pounds or gallons) of the twelve (12) chemicals identified in the owner or operator's application received June 20, 2024.

K. System IA – Insignificant Activities (Natural Gas Fuel Combustion)

- IA.001 – IA.024: See equipment list on page 2.

1. Monitoring, Recordkeeping, and Reporting

- a. On a monthly basis, the owner or operator shall monitor and record the consumption of natural gas, in cubic feet, on a twelve (12) month rolling total basis. The twelve (12) month rolling total consumption of natural gas shall be determined as the sum of the monthly consumption of natural gas for the preceding twelve (12) calendar months.

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L. System IA – Insignificant Activities (Emergency Power Generation)

- IA.025 – IA.066: See equipment list on page 2.

1. Monitoring, Recordkeeping and Reporting

- a. The owner or operator of any stationary CI/SI internal combustion engine shall install a non-resettable hour meter prior to startup of the engine. (40 CFR 63.6625(f))
 - (1) If the non-resetting hour meter is found to be malfunctioning, the owner or operator shall: (DBOH 030.200 D.1.x)
 - (i) Record hours of operation daily until the function of the hour meter is restored; and
 - (ii) Restore the function of the hour meter within two (2) weeks. If it is not possible to restore the function of the hour meter within two (2) weeks, the owner or operator shall notify the Control Officer in writing and provide a schedule for restoration of the hour meter. Notification shall be submitted by email to AQMDCcompliance@nnph.org.
- b. On a monthly basis, the owner or operator shall monitor and record the amount (in gallons or cubic feet) of fuel purchased for use in each engine. Records shall be made available to the Control Officer upon request. (DBOH 030.200 D.1.d)
- c. On a monthly basis, the owner or operator shall monitor and record the hours of operation for each engine. Records shall be made available to the Control Officer upon request. (DBOH 030.200 D.1.d)

M. System IA – Insignificant Activities (Surface Coating – Facility-Wide Maintenance Use)

- IA.067: See equipment list on page 2.

1. Monitoring, Recordkeeping and Reporting

- a. The owner or operator, upon issuance of this permit, shall maintain in a contemporaneous log, the monitoring and recordkeeping specified in this section. Records shall be retained for a period of at least sixty (60) months and shall be made available to the Control Officer upon request. (DBOH 030.200 D.1.d)
 - (1) Maintain a list of all VOC-containing materials (e.g., coatings, thinners, solvents) currently in use and document the VOC and HAP content (lbs/gal) of each material.
 - (2) Maintain an SDS for all VOC-containing materials (e.g., coatings, thinners, solvents) currently in use.
 - (3) On a monthly basis, monitor and record the throughput (in pounds or gallons) of all VOC-containing materials.
- b. The owner or operator shall notify the Control Officer prior to any paint stripping operations involving the use of chemical strippers that contain methylene chloride (MeCl) per 40 CFR 63 Subpart HHHHHH. (DBOH 030.200 D.1.x)
- c. The owner or operator shall notify the Control Officer prior to the use of any material containing the following metals: chromium (Cr), lead (Pb), manganese (Mn), nickel (Ni), or cadmium (Cd) per 40 CFR 63 Subpart HHHHHH. (DBOH 030.200 D.1.x)

IV. Permit Authorization

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Date

Candace Brown
Environmental Engineer II
Air Quality Management Division
Northern Nevada Public Health

Date

Genine Rosa, MS
Senior Air Quality Specialist
Air Quality Management Division
Northern Nevada Public Health