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DEPT. OF WATER, ENERGY, AND ENVIRONMENT

Jim Pillen, Governor

AIR QUALITY CLASS II OPERATING PERMIT
SIGNIFICANT REVISION

PERMIT NUMBER: OP26M2-021 **PERMIT EXPIRES: June 3, 2029**

DWEE ID: 86416
Program ID: AIR 089 00044

Permit Issued To: Sandhills Renewable Energy, LLC
Name of Source in Application: Sandhills Renewable Energy, LLC

Mailing Address: 87590 Hillcrest Road, Atkinson, NE 68883
Source Location: 87590 Hillcrest Road, Atkinson, Holt County, Nebraska

Revised Operating Permit(s): Operating permit OP23R2-035 issued June 4, 2024.

The above Operating Permit is hereby revised as follows: Three conditions, III.(B), III.(C) and III.(I), are being edited and reissued in their entirety. All other provisions of the original permit are still in effect and, in concert with this revision, constitute the effective operating permit.

Pursuant to Title 129, Chapter 10, of the Nebraska Air Quality Regulations amended September 22, 2022, the public has been notified by prominent advertisement of this significant revision and the thirty (30) day period allowed for comments has elapsed. No other terms or conditions of the operating permits described above are being revised or otherwise modified by this document. This revision does not trigger any additional requirements under Nebraska Title 129.

Except as provided above, all other provisions of the original permit are still in effect and, in concert with this revision, constitute the effective operating permit. This operating permit revision shall be attached to the original operating permit and maintained with it henceforth.

Compliance with this permit shall not be a defense to any enforcement action for violation of an ambient air quality standard. Unless otherwise noted the conditions of this permit are enforceable by the United States Environmental Protection Agency (USEPA) and the Nebraska Department of Water, Energy, and Environment (DWEE). The permit holder, owner, and operator of the facility shall assure that the operation and maintenance of all equipment is in compliance with all of the conditions of this permit.

The undersigned issues this document on behalf of the Director in accordance with Title 129 – Nebraska Air Quality Regulations.

D R A F T

_____
Date

_____
Reuel S. Anderson, Administrator
Permitting & Engineering Division

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III. SPECIFIC CONDITIONS FOR AFFECTED EMISSION POINTS

(B) Specific Conditions for Fermentation and Distillation Operations

(1) Permitted Emission Points:

(a) The following table identifies emission points, emission units, permitted capacities, permitted fuel types, required control equipment the source must operate, and applicable standards at the source at the time of permit issuance, in accordance with operating permit #23R2-035, issued June 4, 2024, construction permit CP25-027, issued March 11, 2026, and operating permit significant modification application OP26M2-021, received May 15, 2026, including any supporting information received prior to issuance of this permit:

Emission Point ID#: SV004			
Control Equipment ID# and Description	**Emission Unit Description**	**Applicable NSPS Requirements**	**Applicable NEESHAP Requirements**
CE004: Fermentation and Distillation Scrubber, installed 2014	Precondenser	None	None
	Beer Degasser		
	MIXTANK: Slurry Mix Tank		
	LIQTANK: Liquefaction Tank		
	YEASTPROP: Yeast Propagation Tank		
	FERM1: Fermenter #1, maximum capacity of 882,791 gallons, installed 2006		
	FERM2: Fermenter #2, maximum capacity of 882,791 gallons, installed 2006		
	FERM3: Fermenter #3, maximum capacity of 882,791 gallons, installed 2006		
	FERM4: Fermenter #4, maximum capacity 882,791, installed 2026		
	Beer Well, maximum capacity of 1,144,137 gallons, installed 2006		
	C-4201: Beer Column		
	C-4202: Stripper		
	C-4203: Rectifier		
	VS-4301: Molecular Sieve #1		
	VS-4302: Molecular Sieve #2		
	E-4501: Evaporator #1		
	E-4304: 200-Proof Condenser #1		
	E-4305: 200-Proof Condenser #2		
	PCTANK: Process Condensate Tank		

	WSTANK: Whole Stillage Tank, maximum capacity 177,476 gallons, installed 2006		
	E-4502: Evaporator #2		
	E-4503: Evaporator #3		
	SYTANK: Syrup Tank, maximum capacity 118,975 gallons, installed 2006		
	TSTANK: Thin Stillage Tank, maximum capacity 129,219 gallons, installed 2006		
	CF-5101: Centrifuge #1		
	CF-5102: Centrifuge #2		
	CF-5103: Centrifuge #3		
	CF-5104: Centrifuge #4		

(2) Emission Limitations and Testing Requirements:

(a) Pollutant emission rates from each emission point identified in the table below shall not exceed the permitted limits. Performance testing, if required, shall be conducted in accordance with Standard Condition I.(M).

Emission Point ID#: SV004				
Pollutant	**Permitted Limit**	**Averaging Period**	**Basis for Permit Limit**	**Performance Testing Required**
VOC	15.5 lbs/hr[1,2]	Three 1-hour test runs or test method average	Construction Permit CP25-027, issued March 11, 2026, Condition III.(B)(2)(a); Title 129, Chapter 6, Section 003.13	Yes
Acetaldehyde	8.10 tpy	Twelve-month rolling average	Construction Permit CP25-027, issued March 11, 2026, Condition III.(B)(2)(a)	Yes
HAPs	minimum control efficiency of 65 percent or ≤ 20 $ppmv_{,dry}$	Speciation and Quantification of HAP composition at inlet and outlet	Construction Permit CP25-027, issued March 11, 2026, Condition III.(B)(2)(a) Title 129, Chapter 13, Section 004.02	Yes
Opacity	< 20%[3]	6-Minutes	Title 129, Chapter 15, Section 001.04	No

[1] Expressed as weight of VOC.

[2] The source requested a lower permitted emission rate for VOC than what is specified in Construction Permit CP25-027, Condition III.(B)(2)(a), issued March 11, 202 in order to keep the source a synthetic Class II.

[3] Compliance with Conditions III.(B)(3)(e) demonstrates compliance with opacity limitations.

(b) VOC and HAP emissions from the fermentation and distillation operations shall **be** controlled by the fermentation scrubber (CE004) with chemical addition. Chemical addition may not be required provided the requirements of Condition III.(B)(3)(c) are met. [Construction Permit CP25-027, issued March 11, 2026, Condition III.(B)(2)(b); Title 129, Chapter 6, Section 003.13; Title 129, Chapter 13, Section 004.02]

(c) The source may demonstrate through testing in accordance with Condition I.(M), or the use of CEMS, that chemical addition is not necessary. Testing completed after May 8, 2007, and approved by the DWEE, may be used to demonstrate chemical addition is not necessary [Construction Permit CP25-027, issued March 11, 2026, Condition III.(B)(2)(c)].

(3) Operational and Monitoring Requirements:

(a) All emissions from the emission units identified in Condition III.(B)(1)(a) shall be controlled by pollution control equipment as identified in Condition III.(B)(1)(a) [Construction Permit CP25-027, issued March 11, 2026, Condition III.(B)(3)(a)].

(b) The source shall demonstrate compliance with the emissions limitations of Condition III.(B)(2)(a) through the use of CEMS or performance testing. [Construction Permit CP25-027 issued March 11, 2026, Condition III.(B)(3)(b)].

(i) In the event of a change in compliance methodologies, the source shall submit a written notification to the DWEE within two business days of the change occurring. The notification shall include the following information:

1. The reason for the change in methodologies,
2. The date associated with the change, and
3. The source's compliance demonstration plans.

(ii) The CEMS shall be equipped with a device capable of continuously monitoring exhaust gas flow rate.

1. The exhaust gas flow rate shall be recorded at least once every 15 minutes or more frequently to ensure that flow rate data is recorded in conjunction with the data recorded for Condition III.(B)(3)(b)(iv).

(iii) The CEMS and exhaust gas flow rate monitor shall be operated in accordance with the applicable portions of the following rules:

1. 40 CFR 60.13
2. 40 CFR 60 – Appendix B
3. 40 CFR 60 – Appendix F

A. All valid data shall be used when calculating emissions concentrations.

(iv) The CEMS shall sample, analyze, and record data at least once every 15 minutes, while any associated emission units are operational, and in accordance with 40 CFR Part 60.13.

(c) The following requirements shall apply when using CEMS to demonstrate compliance with Condition III.(B)(2)(a) [Construction Permit CP25-027, issued March 11, 2026, Condition III.(B)(3)(c)]:

(i) Acetaldehyde emissions shall be calculated in the following manner:

1. Hourly acetaldehyde emissions shall be calculated in accordance with the applicable portions of 40 CFR 60.13.
2. Daily acetaldehyde emissions (in pounds per day) shall be calculated by summing all hourly data obtained for that calendar day.
3. Monthly acetaldehyde emissions (in tons per month) shall be calculated by summing all daily acetaldehyde emissions (in pounds per day) for the calendar month and dividing by 2,000 pounds per ton.

(ii) VOC emissions shall be calculated in accordance with the applicable portions of 40 CFR 60.13.

(iii) Data Substitution:

1. In the event that the CEMS becomes non-operational for a period of less than 24 hours, the permittee shall calculate the average hourly emissions occurring during the hour before and the hour after the event and substitute that emissions rate for each hour of non-operation.
2. In the event the CEMS becomes non-operational for a period of 24 hours or more, the permittee shall utilize the following steps for data substitution and scrubbing liquid and chemical injection parameters for the fermentation scrubber (CE004) after the initial 24 hours of the CEMS non-operational period.

A. In the third quarter of each year, an average hourly emission rate calculated during peak-to-peak fermentation cycle shall be established during consistent scrubbing liquid flow rate and temperature, and chemical addition rate to the fermentation scrubber during normal plant operation. An emission factor for data substitution shall be derived by calculating the average hourly emission rate during this peak-to-peak fermentation cycle and used for each hour of CEMS non-operational period.

B. Optionally, from November 1 to March 31, an average hourly emission rate calculated during peak-to-peak fermentation cycle can be established during consistent scrubbing liquid flow rate and temperature, and chemical addition rate to the fermentation scrubber during normal plant operation. An emission factor for data substitution shall be derived by calculating the average hourly emission rate during this peak-to-peak fermentation cycle and used for each hour of CEMS non-operational period from November 1 to March 31.

C. Failure to derive a peak-to-peak fermentation cycle emission factor within the third quarter of each year shall not be potentially considered a violation of this permit condition unless the derivation was not conducted in the third quarter for two successive years.

D. Peak-to-peak fermentation cycle is defined as being equal to the average fermentation time for one fermentation tank divided by the total number of fermenters connected to the fermentation scrubber.

(d) The operation of the scrubber CE004 shall be in accordance with the following requirements: [Construction Permit CP25-027, issued March 11, 2026, Condition III.(B)(3)(d); Title 129, Chapter 13, Section 004]

(i) The fermentation scrubber shall be operated at all times when the associated emission units are in operation.

(ii) The fermentation scrubber shall be properly installed, operated, and maintained. The manufacturer's operation and maintenance manual, or its equivalent, detailing proper operation, inspection, and maintenance of the fermentation scrubber shall be kept on site and readily available to Department representatives.

(iii) The fermentation scrubber shall be equipped with devices capable of monitoring the following operating parameters: scrubbing liquid flow rate, chemical addition flow rate, pressure differential, and scrubbing liquid temperature.

1. The monitoring devices shall be properly installed, operated, calibrated, and maintained. The manufacturer's operation and maintenance manual, or its equivalent, detailing proper operation, maintenance, and calibration of the monitoring devices shall be kept on site and readily available to Department representatives.

(iv) When using performance testing to demonstrate compliance with Condition III.(B)(2)(a) the following records shall be kept in the manner specified below.

1. The scrubbing liquid flow rate shall be recorded continuously.
2. When chemical is added to the scrubbing liquid, the flow rate of the chemical being added shall be recorded continuously.
3. Scrubber pressure differential shall be recorded continuously.
4. Scrubbing liquid temperature shall be recorded at least once per day.
5. For any period in which the CEMS is not operational, the source shall also preserve records documenting the parameters above for at least 24 hours immediately before and after this period.

(v) When using performance testing to demonstrate compliance with Condition III.(B)(2)(a), the scrubber operating parameters shall be maintained at the levels recorded during the most recent valid performance test conducted at the facility as described below:

1. Scrubber liquid shall be comprised of only well water to ensure consistent liquid temperature. The well water may be treated with a reverse osmosis water treatment system if it can be demonstrated that the scrubbing liquid temperatures are maintained consistently with the temperatures recorded during the most recent valid performance test.
2. The pressure differential shall be maintained within the range recorded; and,
3. The scrubbing liquid flow rate, flow rate of chemical additions, and concentration of the chemical injected into the scrubber shall be maintained at or above the levels recorded during the most recent performance test that demonstrated compliance with the permitted emission limits of Condition III.(B)(2)(a).

(vi) Routine observations (at least once each day of fermentation scrubber operation) shall be conducted to determine whether there are leaks, noise, atypical operating parameters (e.g., scrubbing liquid flow rate), or other indications that may necessitate corrective action. If corrective action is required, it shall occur immediately.

(e) A source representative shall conduct visible emissions surveys for emission point SV004 on a daily basis. These surveys shall be conducted during daylight hours while each emission unit is operating under normal conditions. [Title 129, Chapter 6, Sections

003.03 and 003.11; Chapter 15, Section 001.04]:

(i) For deviation reporting purposes, visible emissions (excluding water vapor) from any emission point shall be considered a deviation and shall be reported in accordance with Condition II.(A).

(4) Recordkeeping and Reporting Requirements:

(a) The source shall maintain records documenting when routine observations were performed with a description, including operating parameters (e.g., pressure differential readings, scrubbing liquid flow rates) and any atypical observations for periods when performance testing is used to demonstrate compliance with Conditions III.(B)(2)(a) or the CEMS is not operational for longer than 24 hours [Construction Permit CP25-027 issued March 11, 2026, Condition III.(B)(5)(a)].

(b) The source shall maintain records documenting when routine maintenance and preventive actions were performed with a description of the maintenance and/or preventive action performed. [Construction Permit CP25-027 issued March 11, 2026, Condition III.(B)(5)(b)].

(c) The source shall maintain records documenting equipment failures, malfunctions, or other variations, including time of occurrence, remedial action taken, and when corrections were made. Reporting to the Department shall be in accordance with Chapter 15, Section 006.05. [Construction Permit CP25-027 issued March 11, 2026, Condition III.(B)(5)(c)].

(d) The source shall maintain records documenting operating parameters as specified in Condition III.(B)(3)(d)(v) when using performance testing to demonstrate compliance with Condition III.(B)(2)(a), and for any period in which the CEMS is not operational. [Construction Permit CP25-027 issued March 11, 2026, Condition III.(B)(5)(d)].

(e) The source shall maintain records documenting the quantity of VOC, HAPs, and acetaldehyde emitted for each month when using the CEMS to demonstrate compliance with Condition III.(B)(3)(c). [Construction Permit CP25-027 issued March 11, 2026, Condition III.(B)(5)(e)].

(f) Recordkeeping and reporting associated with the CEMS shall be in accordance with 40 CFR 60.7. If the CEMS is used for compliance with the emissions limitations of Conditions III.(B)(2)(a), excess emissions are defined as any calculated 12-month rolling acetaldehyde emission rate that exceeds the applicable emission limit in Condition III.(B)(2)(a) or any one hour VOC emission rate which exceeds the applicable emission limit in Condition III.(B)(2)(a). [Construction Permit CP25-027 issued March 11, 2026, Condition III.(B)(5)(f)].

(i) The semiannual reports specified in 40 CFR 60.7(c) and required by Condition III.(B)(5)(f) shall also include the following information:

1. The acetaldehyde quantity recorded for each month in the reporting period.

2. The maximum recorded hourly VOC emission rate for the previous six (6) months and the emission rates for fermentation scrubber, as determined by performance testing.

3. A Data Assessment Report for the CEMS which at a minimum shall contain the information specified in 40 CFR 60 Appendix F, Procedure 1, Section 7: Reporting Requirements.

(g) The source shall maintain records documenting scrubbing liquid flow rate and temperature, chemical addition rate and emission rate used to determine data substitution

emission factors. [Construction Permit CP25-027 issued March 11, 2026, Condition III.(B)(5)(g)].

(h) The results of each visible emissions survey shall be recorded in a log, which shall include, at a minimum, the following items [Title 129, Chapter 6, Section 003.03; Title 129, Chapter 15, Section 001.04]:

(i) The emission points included in the survey.

(ii) All emission points from which visible emissions occurred (except for water vapor).

(iii) Emission points for which the emission units were not in operation during the survey.

(iv) Each entry shall be dated and initialed by the person conducting the visible emissions survey.

III. SPECIFIC CONDITIONS FOR AFFECTED EMISSION POINTS

(C) Specific Conditions for DDGS Drying and Cooling

(1) Permitted Emission Points:

(a) The following table identifies emission points, emission units, permitted capacities, permitted fuel types, required control equipment the source must operate, and applicable standards at the source at the time of permit issuance, in accordance with operating permit #23R2-035, issued June 4, 2024, construction permit CP25-027, issued March 11, 2026, and operating permit significant modification application OP26M2-021, received May 15, 2026, including any supporting information received prior to issuance of this permit:

Emission Point ID#: SV007			
Control Equipment ID# and Description	**Emission Unit Description**	**Applicable NSPS Requirements**	**Applicable NESHAP Requirements**
CE007: Regenerative Thermal Oxidizer, maximum capacity of 9.0 MMBtu/hr, natural gas fired, installed in 2006	DDGS Dryer, maximum drying capacity of 20 tons/hr, ring dryer, maximum heat capacity of 90 MMBtu/hr, natural gas fired, installed in 2006	None	None
	DDGS Cooler, installed in 2006	None	None

(2) Emission Limitations and Testing Requirements:

(a) Pollutant emission rates from each emission point identified in the table below shall not exceed the permitted limits. Performance testing, if required, shall be conducted in accordance with Standard Condition I.(M).

Emission Point ID#: SV007				
Pollutant	**Permitted Limit**	**Averaging Period**	**Basis for Permit Limit**	**Performance Testing Required**
PM (filterable + condensable)	3.65 lb/hr[1]	Three 1-hour test runs or test method average	Construction Permit CP25-027, issued March 11, 2026, Condition III.(C)(2)(a)	Yes
PM_{10} (filterable + condensable)	3.65 lb/hr[1]	Three 1-hour test runs or test method average		Yes
SO_2	7.3 lb/hr[1]	Three 1-hour test runs or test method average	Construction Permit CP25-027, issued March 11, 2026, Condition III.(C)(2)(a)	Yes

Emission Point ID#: SV007				
Pollutant	Permitted Limit	Averaging Period	Basis for Permit Limit	Performance Testing Required
NO_x	11.68 lb/hr[1]	Three 1-hour test runs or test method average	Construction Permit CP25-027, issued March 11, 2026, Condition III.(C)(2)(a)	Yes
CO	8.34 lb/hr[1]	Three 1-hour test runs or test method average	Construction Permit CP25-027, issued March 11, 2026, Condition III.(C)(2)(a)	Yes
VOC	9.0 lb/hr[1],[2]	Three 1-hour test runs or test method average	Construction Permit CP25-027, issued March 11, 2026, Condition III.(C)(2)(a)	Yes
Opacity	<20%[3]	6-Minutes	Title 129, Chapter 15, Section 001.04	No

[1] Performance testing required in accordance with Condition III.(C)(2)(b).
[2] Expressed as mass of VOC.
[3] Compliance with Condition III.(C)(3)(e) demonstrates compliance with Opacity limitation.

(b) Performance tests shall be conducted on the RTO stack (SV007) for PM, PM_{10}, SO_2, NO_x, CO, and VOC. [Title 129, Chapter 6, Section 003.03; Chapter 15, Section 005.01]

(i) Performance tests shall be conducted a minimum of every three years from the most recent valid performance test.

(3) Operational and Monitoring Requirements:

(a) Operation of the DDGS dryer and RTO system shall be limited to 2,000 hours per any period of twelve (12) consecutive calendar months. At no time during the first eleven (11) calendar months after permit issuance shall the sum of all the previous months' operating hours equal or exceed the limit [Construction Permit CP25-027, issued March 11, 2026, Condition III.(C)(3)(a); Title 129, Chapter 6, Section 003.13].

NOTE: Per request by the source, Condition III.(C)(3)(a) differs from Construction Permit CP25-027, Condition III.(C)(3)(a), with the operational hours being less than the 3,000 hours limitation in the construction permit in order to maintain Class II synthetic minor status.

(b) The RTO shall be operated at all times when the associated emission units are in operation [Construction Permit CP25-027, issued March 11, 2026, Condition III.(C)(3)(b)].

(c) The RTO shall be properly installed, operated, and maintained. The manufacturer's operation and maintenance manual, or its equivalent, detailing proper operation, inspection, and maintenance of the RTO shall be kept on site and readily available to Department representatives [Construction Permit CP25-027, issued March 11, 2026, Condition III.(C)(3)(c)].

(d) The RTO system shall be equipped with a thermocouple or equivalent device capable of continuously monitoring the temperature of the thermal oxidizer. The thermocouple or equivalent device shall monitor temperature on a continuous basis, with the one-hour

average temperature recorded once per hour. The thermocouple or equivalent device shall be properly installed, operated, calibrated, and maintained. Manufacturer's documentation shall be kept on site and readily available to Department representatives [Construction Permit CP25-027, issued March 11, 2026, Condition III.(C)(3)(d)].

(e) The one-hour average operating temperature of the RTO system shall be maintained at no less than the temperature from the most recent, valid performance test demonstrating compliance with all permitted emission limits. Prior to compliance being demonstrated, the temperature shall not be operated below 1,400 degrees Fahrenheit [Construction Permit CP25-027, issued March 11, 2026, Condition III.(C)(3)(e)].

(f) Routine observations (at least once each day during daylight hours of RTO system operation) shall be conducted to determine whether there are visible emissions from the stack, leaks, noise, atypical operating parameters (e.g., pressure differential, temperature), or other indications that may necessitate corrective action. Corrective action shall be taken immediately if necessary. [Construction Permit CP25-027, issued March 11, 2026, Condition III.(C)(3)(f)].

(g) The facility shall install a non-resettable hour meter or data collection system (DCS) to monitor and record the following [Construction Permit CP25-027, issued March 11, 2026, Condition III.(C)(3)(g)]:

(i) Hours of operation of the DDGS Dryer and RTO system.

(ii) If at any time the non-resettable hour meter or DCS identified in Condition III.(C)(3)(g) is non-operational, the source shall maintain operator logs recording the hours of operation of the DDGS Dryer and RTO. In the event that operator logs are not maintained during the period(s) in which the non-resettable hour meter or DCS is non-operational, it shall be assumed the DDGS Dryer and RTO are in operation during the non-resettable hour meter or DCS downtime.

(h) Only natural gas shall be combusted as fuel in the RTO. Only natural gas shall be combusted as fuel in the dryer. [Construction Permit CP25-027, issued March 11, 2026, Condition III.(C)(2)(a)]

(i) A source representative shall conduct visible emission surveys for emission point SV007 on a daily basis. These surveys shall be conducted during daylight hours while each emission unit is operating under normal conditions. [Title 129, Chapter 6, Sections 003.03 and 003.11; Chapter 15, Section 001.04]:

(i) For deviation reporting purposes, visible emissions (excluding water vapor) from any emission point shall be considered a deviation and shall be reported in accordance with Condition II.(A).

(4) Recordkeeping and Reporting Requirements:

(a) The source shall keep the following records for the operational and monitoring requirements for the RTO:

(i) Records documenting the temperature of the RTO system, including average hourly temperature readings while the dryers are in operation. [Construction Permit CP25-027, issued March 11, 2026, Condition III.(C)(5)(c)]

(ii) Records documenting when routine observations were performed with a description, including operating parameters (e.g., temperature) and any atypical observations. [Construction Permit CP25-027, issued March 11, 2026, Condition III.(C)(5)(d)]

(iii) Records documenting when routine maintenance and preventive actions were performed with a description of the maintenance and/or preventive action performed. [Construction Permit CP25-027, issued March 11, 2026, Condition III.(C)(5)(e)]

(iv) Records documenting equipment failures, malfunctions, or other variations, including time of occurrence, remedial action taken, and when corrections were made. Reporting to the Department shall be in accordance with Chapter 15, Section 006.05. [Construction Permit CP25-027, issued Marc 11, 2026, Condition III.(C)(5)(f)]

(b) The source shall keep records of the hours of operation for the dryer/RTO system for each calendar month and for each period of twelve (12) consecutive calendar months. [Construction Permit CP25-027, issued March 11, 2026, Condition III.(C)(5)(a)].

(c) The source shall keep fuel receipts for the natural gas from the supplier. [Construction Permit CP25-027, issued March 11, 2026, Condition III.(C)(5)(b)]

(d) The results of each visible emissions survey shall be recorded in a log, which shall include, at a minimum, the following items [Title 129, Chapter 6, Section 003.03; Title 129, Chapter 15, Section 001.04]:

(i) The emission points included in the survey.

(ii) All emission points from which visible emissions occurred (except for water vapor).

(iii) Emission points for which the emission units were not in operation during the survey.

(iv) Each entry shall be dated and initialed by the person conducting the visible emissions survey.

III. SPECIFIC CONDITIONS FOR AFFECTED EMISSION POINTS

(I) Specific Conditions for Cooling Tower

(1) Permitted Emission Points:

(a) The following table identifies emission points, emission units, permitted capacities, permitted fuel types, required control equipment the source must operate, and applicable standards at the source at the time of permit issuance, in accordance with operating permit #23R2-035, issued June 4, 2024, construction permit CP25-027, issued March 11, 2026, and operating permit significant modification application OP26M2-021, received May 15, 2026, including any supporting information received prior to issuance of this permit:

Emission Point ID#: FS009			
Control Equipment ID# and Description	**Emission Unit Description**	**Applicable NSPS Requirements**	**Applicable NESHAP Requirements**
None	Cooling Tower, 4 cells, total circulation rate of 1,800,000 gallons/hr, installed in 2024	None	None

(2) Emission Limitations and Testing Requirements:

(a) Pollutant emission rates from each emission point identified in the table below shall not exceed the permitted limits. Performance testing, if required, shall be conducted in accordance with Standard Condition I.(M).

Emission Point ID#: FS009				
Pollutant	**Permitted Limit**	**Averaging Period**	**Basis for Permit Limit**	**Performance Testing Required**
Opacity	<20%[1]	6-Minutes	Title 129, Chapter 15, Section 001.04	No

[1] Compliance with Condition III.(I)(3)(b) and (I)(3)(c) demonstrates compliance with PM and Opacity limitations.

(3) Operational and Monitoring Requirements:

~~(a)~~ The cooling tower shall be properly installed, operated, and maintained. The manufacturer's operation and maintenance manual, or its equivalent, detailing proper operation, inspection, and maintenance of the cooling tower shall be kept on site and readily available to Department representatives. [Construction Permit CP25-027, issued March 11, 2026, Condition III.(D)(3)(a)]

(b) The drift loss shall not exceed 0.005 percent. Verification of drift loss shall be by manufacturer's guarantee. Manufacturer's drift loss guarantee shall be kept on site and readily available to Department representatives, upon request. [Construction Permit CP25-027, issued March 11, 2026, Condition III.(D)(3)(b)]

(c) The 12-month rolling average TDS concentration in the cooling water shall not exceed

2,750 ppm. A TDS sample shall be collected and tested at a minimum of once per calendar month. [Construction Permit CP25-027, issued March 11, 2026, Condition III.(D)(2)(a)]

(4) Recordkeeping and Reporting Requirements:

(a) The source shall keep records documenting when routine maintenance and preventive actions were performed with a description of the maintenance and/or preventive action performed. [Construction Permit CP25-027, issued March 11, 2026, Condition III.(D)(5)(a)]

(b) The source shall keep records documenting equipment failures, malfunctions, or other variations, including time of occurrence, remedial action taken, and when corrections were made. Reporting to the Department shall be in accordance with Chapter 15, Section 006. [Construction Permit CP25-027, issued March 11, 2026, Condition III.(D)(5)(b)]

(c) The source shall keep the manufacturer's drift loss guarantee. This record shall be kept for the life of the equipment. [Construction Permit CP25-027, issued March 11, 2026, Condition III.(D)(5)(c)]

(d) The source shall keep records of the TDS concentration in cooling water for each sampling event. [Construction Permit CP25-027, issued March 11, 2026, Condition III.(D)(5)(d)]