

September 26, 2023

Ms. Kari Thorsteinson North Dakota Department of Environmental Quality Division of Air Quality 4201 Normandy Street, 2nd Floor Bismarck, ND 58503-1324

DAKOTA MUNICIPAL SOLID WASTE LANDFILL SUBJECT:

TITLE V OPERATING PERMIT T5-003002

RENEWAL APPLICATION

Dear Ms. Thorsteinson:

On behalf of Big Dipper Enterprises, Inc. we are pleased to submit the Title V permit renewal application for the Dakota Municipal Solid Waste Landfill. The permit expires on May 20, 2024 and the renewal is required to be submitted at least six months prior to this date.

Attached is a permit renewal application and a redlined version of the current permit. The proposed changes are minimal. The main change is the increase in the design capacity of the landfill resulting from a DEQ solid waste permitted landfill expansion that will extend the life of the landfill. In the prior permit application, we had identified that we were pursuing a landfill expansion. The prior design capacity had previously exceeded the regulatory threshold of 2.5 million cubic meters, so the increase in design capacity does not alter the regulatory action items. The permit conditions do not appear to require any changes to accommodate this as the regulations and permit limits are based on the NMOC emissions, which if met, then require further actions as identified in the permit.

The other proposed change deals with some regulatory references in the permit. We had our company's air management personnel comment on this. The changes are due to the US EPA having approved a Clean Air Act section 111(d) state plan that the North Dakota DEQ had submitted on July 28, 2020. The plan deals with the control of air pollutants from existing municipal solid waste landfills. Approval by the EPA can be found in the Federal Register on July 6, 2021.

Big Dipper Enterprises, Inc.

7972 129th Ave. SE

PO Box 218

The emission limit reduction for NMOC is shown in the permit markup to reflect the regulatory change.

For completeness (as we have identified in prior applications), we are including a short discussion related to the use of landfill gas flares. The use of such flares will be at Big Dipper's discretion until such time as the facility exceeds 34 Mg/year of NMOCs to require a gas collection and control system. Dakota landfill has up to eight small landfill gas flares. The use of the flares can help to minimize odors. This number of flares has the ability, based on the manufacturer's capacity information, to handle 1120 cfm. However, this is nearly twice the maximum amount of landfill gas expected to be generated in the future (based on a company specific calculating tool). As these are passive flares, there is not a blower collecting and sending the gas to the flares. Thus, the flares will only burn the amount of gas that naturally vents to them. The landfill gas is generated through the decomposition of the waste in the landfill. The rate at which the gas is generated is affected by various factors including moisture content and organic matter. Without the flares, the landfill gas will exit the landfill through the ground surface (including through cover soils used in the landfill), subsurface or through a series of passive gas vents. The NMOC emissions are calculated and submitted annually to determine if the threshold is met for requiring an active gas collection and control system. To date, these calculations have shown that the emissions are very low and have not been close to the threshold."

We also understand from discussions with the Department during prior permit renewals that portions of the air permit are included for completeness and do not necessarily apply to the Dakota landfill. These conditions repeat regulatory requirements and we do not object to this approach. Other such conditions are included as they may be applicable in the future.

We trust this submittal meets your needs. Should you need anything further or have questions, please feel free to contact me at (920) 796-6007.

Sincerely,

Raymond Seegers

Environmental Engineer (Wisconsin P.E.)

cc: Matt Miranda, WM-District Manager

Frequent Legen

Dakota file Jakob Danley Josh Johnson Jamie Wallerstedt Steve Niehoff Air Program (8P-AR)
Office of Partnerships & Regulatory Assistance
U.S. EPA - Region 8
1595 Wynkoop Street
Denver, CO 80202-1129

List of Attachments

Renewal Application Responsible Official Authorization Current Title V Permit Renewal Application



✓

Yes

CAM not applicable

TITLE V PERMIT TO OPERATE - RENEWAL APPLICATION

NORTH DAKOTA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF AIR QUALITY SFN 52824 (9-2021)

In accordance with 33.1-15-14-04.c. of the North Dakota Air Pollution Control Rules, a Title V permit renewal application must be submitted to the Department at least six months, but no more than eighteen months, prior to the expiration date. Permit renewal applications are incomplete unless all information requested herein is supplied. The current Title V permit will be the baseline reference for this renewal. The requirements (40 CFR 70.5(c) & NDAC 33.1-15-14-06.4.c) to include a citation and description of all applicable requirements and a description of or reference to any applicable test method for determining compliance with each applicable requirement may be met by accomplishing either or both of the following: 1) enclose an annotated (red-lined) copy of the current permit indicating all changes needed to reflect the current facility configuration, applicable requirements and test methods; 2) enclose a narrative that conveys all changes needed to the current permit to reflect the current facility configuration, all applicable requirements and test methods.

FOR ACID RAIN UNITS ONLY – Submit with the Title V permit renewal application all Acid Rain renewal applications (the Acid Rain Permit Application, the Phase II NO_x Compliance Plan, and if applicable, the Phase II NO_x Averaging Plan).

PART 1. GENERAL APPLICATION INFORMATION

Owner's Name Big Dipper Enterprises, Inc.					
Facility Name_Dakota Municipal Solid Waste Lan	dfill				
Name of Person Completing Application Raymond S					
Title Environmental Engineer	Email rseegers@wm.com				
Current Operating Permit Number T5-003002					
Expiration Date of Current Operating Permit 5 / 20 / 24					
PART 2. COMPLIANCE CERTIFICATION					
A. Schedule for Submission of Compliance Certific	ations During the Term of the Permit				
Frequency of Submittal Date Beginning (month/day/year) Annual 02/07/2020					
B. Statement of Compliance with Compliance Ass Requirements	urance Monitoring (CAM) and Compliance Certification				
The facility identified in this application is in compliance certification requirements.	e with applicable monitoring and compliance				

No - Describe below which requirements are not being met:

SFN 52	52824 (9-2021) Page 2	
C.	Certification of Compliance with all Applicable Requirements	
	is certification must be signed by a "responsible official" as defined in NDAC 33.1 thout a signed certification will be returned as incomplete.	-15-14-06.1. Forms
	Except for requirements identified in Compliance Schedule and Plan (Sectio Operate application forms for which compliance is not achieved, I hereby ce information and belief formed after reasonable inquiry, the air contaminant so is in compliance with all applicable requirements.	rtify that, based on
	Signed	10/10/2023
	Typed Name Matthew Miranda	
PAR	RT 3. STATUS OF SOURCE	
	as there been any change to the source since the most recent initial or renewal permit modification, significant modification or administrative permit amendment?	rmit application, minor
	No □ Yes	
If ye	yes, complete and submit appropriate sections of Title V Permit to Operate applica	ation forms.
PAR	RT 4. CERTIFICATION OF TRUTH, ACCURACY AND COMPLETENESS	
	ote: This certification must be signed by a "responsible official" as defined in NDA oplications without a signed certification will be returned as incomplete.	\C 33.1-15-14-06.1.
	I certify under penalty of law that, based on information and belief formed aft statements and information contained in this application are true, accurate a	
Nan	ame (typed) Matthew Miranda	
(Sig	igned) Date 10	1 10 1 2023
Tele	elephone Number (503) 871-0263	

Send original renewal application to:

North Dakota Department of Environmental Quality Division of Air Quality 4201 Normandy Street, 2nd Floor Bismarck, ND 58503-1324 (701)328-5188

Send copy of renewal application to:

Air Program (8P-AR) Office of Partnerships & Regulatory Assistance US EPA Region 8 1595 Wynkoop Street Denver, CO 80202-1129

Responsible Official Authorization

ASSISTANT SECRETARY'S CERTIFICATE

WASTE MANAGEMENT OF NORTH DAKOTA, INC.

I, Micah S. Hamstra, Assistant Secretary of Waste Management of North Dakota, Inc., a Delaware corporation (the "Company"), do hereby certify that the following resolution was adopted by Consent of the Sole Director of the Company on March 12, 2004 and that such resolution has not been amended, modified or rescinded and is in full force and effect as of the date hereof:

RESOLVED, that the Market Area Vice President, Market Area General Manager, District Manager, General Manager, Director of Operations and Market Area Manager - Environmental Protection, and each of them, for each facility owned or operated by the Company, in accordance with corporate policies and procedures and subject to specific regulatory signature requirements, are hereby authorized to prepare, execute and/or submit on behalf of the Company, as a responsible official or designated representative, any and all reports, affidavits, instruments, documents or papers, including, without limitation, any Title V Clean Air Act compliance, NPDES storm water and NPDES treatment plant discharge reports, required to be submitted by the Company with respect to such facility in order to maintain compliance with federal, state and local environmental permits, laws and regulations, and to take any required or necessary action in connection therewith, as such manager shall deem necessary or advisable, and that any such action taken to date is hereby ratified and approved; and

RESOLVED FURTHER, that the foregoing authority shall continue in full force and effect until revoked or modified by a subsequent resolution of the Board of Directors; and

RESOLVED FURTHER, that the Secretary or any Assistant Secretary of the Company may certify these resolutions to any party requesting the same to be certified.

Dated: July 14, 2015

Micah S. Hamstra Assistant Secretary

WASTE MANAGEMENT OF NORTH DAKOTA, INC.

WRITTEN CONSENT OF THE SOLE DIRECTOR

The undersigned, being the Sole Director of WASTE MANAGEMENT OF NORTH DAKOTA, INC., a Delaware corporation (the "Company"), hereby consents to the adoption of the following resolution without the necessity of holding a meeting of the Board of Directors of the Company, such resolution to have full force and effect as if adopted at a meeting of the Board of Directors of the Company duly called and held:

RESOLVED, that the Market Area Vice President, Market Area General Manager, District Manager, General Manager, Director of Operations and Market Area Manager - Environmental Protection, and each of them, for each facility owned or operated by the Company, in accordance with corporate policies and procedures and subject to specific regulatory signature requirements, are hereby authorized to prepare, execute and/or submit on behalf of the Company, as a responsible official or designated representative, any and all reports, affidavits, instruments, documents or papers, including, without limitation, any Title V Clean Air Act compliance, NPDES storm water and NPDES treatment plant discharge reports, required to be submitted by the Company with respect to such facility in order to maintain compliance with federal, state and local environmental permits, laws and regulations, and to take any required or necessary action in connection therewith, as such manager shall deem necessary or advisable, and that any such action taken to date is hereby ratified and approved; and

RESOLVED FURTHER, that the foregoing authority shall continue in full force and effect until revoked or modified by a subsequent resolution of the Board of Directors; and

RESOLVED FURTHER, that the Secretary or any Assistant Secretary of the Company may certify these resolutions to any party requesting the same to be certified.

IN WITNESS WHEREOF, the undersigned has executed this consent effective this 12th day of March, 2004.

Linda J. Smith Sole Director Current Title V Permit
(With redline [or blue] suggested changes)

AIR POLLUTION CONTROL TITLE V PERMIT TO OPERATE

Permittee:	Permit Number:
Name:	T5-O03002
Big Dipper Enterprises, Inc.	
(Subsidiary of Waste Management of North Dakota, Inc.)	Source Name: Dakota Municipal Solid Waste Landfill
Address:	
7972 - 129 th Avenue SE	
Gwinner, ND 58040	
Source Location:	Source Type:
SW 1/4 and NW 1/4, Sec.10, T132N, R56W	Landfill
Gwinner, ND	
Sargent County	
Expiration Date:	
May 20, 2024To be up	odated by the Department

Pursuant to Chapter 23.1-06 of the North Dakota Century Code, and the Air Pollution Control Rules of the State of North Dakota, Article 33.1-15 of the North Dakota Administrative Code (NDAC), and in reliance on statements and representations heretofore made by the permittee (i.e., owner) designated above, a Title V Permit to Operate is hereby issued authorizing such permittee to operate the emissions units at the location designated above. This Title V Permit to Operate is subject to all applicable rules and orders now or hereafter in effect of the North Dakota Department of Environmental Quality and to any conditions specified on the following pages. All conditions are enforceable by EPA and citizens under the Clean Air Act unless otherwise noted.

merad
Air Quality

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Dakota Municipal Solid Waste Landfill Title V Permit to Operate Table of Contents

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Permit Shield

Compliance with the terms and conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that:

- Such applicable requirements are included and are specifically identified in this permit; or
- The Department, in acting on the permit application or revisions, determines in writing that other
 requirements specifically identified are not applicable to the source, and the determination, or a concise
 summary thereof, is included in this permit.

Applicable Requirement: NDAC 33.1-15-14-06.5.f(1)

1. Emission Unit Identification:

The emission units regulated by this permit are as follows:

Emission Unit Description	Emission Unit (EU)	Emission Point (EP)	Air Pollution Control Equipment
Municipal solid waste landfill with a total capacity of 3,734,1009,792,764 yd ³ (~2.8557.487 x 10 ⁶ m ³)	1	1	Passive gas vent flares A
300-gallon gasoline storage tank (portable)	NA ^B	NA	None
Fugitive dust emissions	FUG ^B	FUG	Fugitive Dust Control Condition 2.C
1000-gallon diesel storage tank (portable)	NA ^B	NA	None

Flares not currently required by NDAC 33.1-15-12 (40 CFR 60), Subpart—WWW_Cf and not subject to Condition 7.G. Future changes in the estimated size of the landfill or the kind of waste disposed, which could change the nonmethane organic compounds (NMOC) emissions, may result in required control equipment per Condition 6.A.

Insignificant or fugitive emission sources (no specific emission limit).

2. Applicable Standards, Restrictions and Miscellaneous Conditions:

- A. New Source Performance Standards (NSPS): The permittee shall comply with all applicable requirements of the following NDAC Chapter 33.1-15-12-02 and 40 CFR 60 subparts, in addition to complying with Subpart A General Provisions.
 - Subpart WWW Cf Standards of Performance Emission Guidelines and Compliance Times for Municipal Solid Waste Landfills (EU 1), as amended in NDAC Chapter 33.1-15-12-02.

Applicable Requirements: NDAC 33.1-15-12 (40 CFR 60), Subparts A & WWW_Cf

- B. Maximum Achievable Control Technology Standards (MACT): The permittee shall comply with all applicable requirements of the following NDAC Chapter 33.1-15-22 and 40 CFR 63 subparts, in addition to complying with Subpart A General Provisions.
 - Subpart CCCCCC National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities. The permittee shall operate the gasoline storage tank in compliance with the applicable requirements of this subpart. For this subpart, EPA Region 8, not the North Dakota Department of Environmental Quality, is the implementing and enforcement authority. Please send all documentation to EPA at the following address:

U.S. EPA Region 8 1595 Wynkoop Street Mail Code 8ENF – AT Denver, CO 80202-1129

Applicable Requirements: NDAC 33.1-15-22 (40 CFR 63), Subparts A and 40 CFR 63, Subpart CCCCCC

C. Fugitive Dust Control:

The permittee shall control fugitive dust (EU FUG) as follows:

- Implement watering during land clearing, topsoil and overburden removal, and other material handling operations, unless natural moisture is sufficient to control fugitive particulate emissions.
- Water stockpiles, both active and inactive, as necessary to control fugitive particulate emissions.
- 3) Vegetate closed landfill surfaces within one year of disturbance.
- 4) Water unpaved on-site haul roads as often as necessary to control fugitive particulate emissions.
- 5) Limit vehicle speeds on unpaved roads and disturbed areas on-site.
- 6) Minimize the size of the working face.
- 7) Apply cover to disposed solid waste as often as practical. The application of cover shall serve to control fugitive particulate emissions, odor production, and accumulation of litter. If the planned operations are shown to be ineffective in controlling any of the mentioned issues, remedial action shall be taken on a case-by-case basis.

Applicable Requirement: NDAC 33.1-15-14-03.6

3. Emission Unit Limits:

Emission Unit Description	EU	EP	Pollutant/ Parameter	Emission Limit	NDAC Applicable Requirement
Municipal solid waste landfill	1	1	NMOC	<50-34 Mg/yr threshold A, B	33.1-15-12 (40 CFR 60), Subpart WWWCf

- As determined by Tier 1, Tier 2 or Tier 3 of the subpart [NDAC 33.1-15-12 (40 CFR 60), Subpart WWWCfl.
- Exceeding the emission limit (threshold) requires additional monitoring or control as outlined in Condition 6.A.

4. Monitoring Requirements and Conditions:

A. Requirements:

Emission Unit	Pollutant/	Monitoring	Condition	NDAC Applicable
Description	Parameter	Requirement (Method)	Number	Requirement
Municipal solid waste landfill	NMOC (as hexane)	NMOC Emissions Sampling/Calculation	4.B.1	33.1-15-12 (40 CFR 60), Subpart WWWCf

B. Monitoring Conditions:

 The permittee shall recalculate the NMOC emissions rate annually using procedures specified in NDAC 33.1-15-12 (40 CFR 60), Subpart <u>WWWCf</u>, §60.754(a), except as provided for in §60.757(b)(1)(ii).

5. Recordkeeping Requirements:

- A. The permittee shall maintain compliance monitoring records as outlined in the Monitoring Records table that include the following information.
 - 1) The date, place (as defined in the permit) and time of sampling or measurement.
 - 2) The date(s) testing was performed.
 - 3) The company, entity, or person that performed the testing.
 - 4) The testing techniques or methods used.
 - 5) The results of such testing.
 - 6) The operating conditions that existed at the time of sampling or measurement.

Applicable Requirement: NDAC 33.1-15-14-06.5.a(3)(b)[1]

Monitoring Records Table

Emission Unit Description	Pollutant/ Parameter	Compliance Monitoring Record		
Municipal solid waste landfill	NMOC	NMOC calculations/emissions test data		

B. The permittee shall retain records of all required monitoring data and support information for a period of at least five years from the date of the monitoring sampling, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings/computer printouts of continuous monitoring instrumentation, and copies of all reports required by the permit.

Applicable Requirement: NDAC 33.1-15-14-06.5.a(3)(b)[2] and NDAC 33.1-15-12, Subpart WWW-Cf

6. Reporting:

- A. The permittee shall recalculate the NMOC emission rate using the procedures specified in NDAC 33.1-15-12 (40 CFR 60), Subpart www_Cf and submit an annual NMOC emission rate report (see Condition 6.D) on forms supplied or approved by the Department by March 15 of each calendar year and annually to EPA [in accordance with NDAC 33.1-15-12 (40 CFR 60), Subpart www_Cf]. As per \$60.757(b)(1)(ii)60.38f(c)(3) and permit Condition 6.A.2), the permittee may elect to submit an estimate of the NMOC emission rate for the next 5-year period in lieu of the annual report. Insignificant units/activities listed in this permit do not need to be included in the report to the Department. The NMOC emission rate report shall include all the data, calculations, sample reports and measurements used to estimate the emissions.
 - In accordance with NDAC 33.1-15-12 (40 CFR 60), Subpart <u>WWWCf</u>, if the NMOC mass emission rate, as calculated using the Tier 2 site-specific NMOC concentration, is equal to or greater than <u>50-34</u> megagrams per year (Mg/yr), the owner or operator must:
 - Submit a gas collection and control system design plan within 1 year as specified in NDAC 33.1-15-12 (40 CFR 60), Subpart WWWCf, §60.38f(d)757(e) and install and operate a gas collection and control system within 30 months according to NDAC 33.1-15-12 (40 CFR 60), Subpart WWWCf, §60.33f(b) and (c)752(b)(2)(ii) and (iii); or

Applicable Requirement: 40 CFR 60.35f(a)(3)(iv)(A)

b) Determine a site-specific methane generation rate constant and recalculate the NMOC emission rate using the site-specific methane generation rate using the Tier 3 procedures as outlined in NDAC 33.1-15-12 (40 CFR 60), Subpart www.cf, §60.35f(a)(4)754(a)(4). The revised NMOC emissions rate based on Tier 3 procedures shall be submitted within one year of the first calculated emission rate

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exceeding 3450 Mg/yr using Tier 2 procedures.

If the permittee recalculates an NMOC emissions rate less than 3450 Mg/yr determined from Tier 3 procedures, then the annual reporting resumes using the site-specific methane generation rate constant obtained in Tier 3 sampling procedures and the NMOC concentration obtained in the Tier 2 sampling procedures. The calculation of the methane generation rate constant is performed only once and the value obtained is used in all subsequent annual NMOC emissions rate calculation. A new site-specific NMOC concentration shall be obtained by Tier 2 sampling procedures (emissions test) once every five years from the date of submittal of the previous Tier 2 report.

If the recalculated NMOC mass emission rate is equal to or greater than 50-34 Mg/yr, the landfill must either comply with Condition 6.A.1)a) of this permit; or

Applicable Requirement: 40 CFR 60.35f(a)(3)(iv)(B)

If the permittee must demonstrate that surface methane emissions are below 500 parts per million (ppm), Tier 4 surface emission monitoring must be conducted quarterly using procedures outlined in NDAC 33.1-15-12 (40 CFR 60) Subpart Cf. §60.35f(a)(6) if NMOC emission determined in both Tier 1 and Tier 2 are greater than or equal to 34 Mg/yr but less than 50 Mg/yr.

Applicable Requirement: 40 CFR 60.35f(a)(3)(iv)(C)

If the estimated NMOC emission rate as reported in the annual report is less than 50-34 2) Mg/yr in each of the next five consecutive years, the permittee may elect to submit an estimate of the NMOC emission rate for the next five-year period in lieu of the annual report. This estimate must include the current amount of solid waste-in-place and the estimated waste acceptance rate for each year of the five years for which an NMOC emission rate is estimated. All data, calculations, sample reports and measurements upon which this estimate is based shall be revised at least once every five years. If the actual waste acceptance rate exceeds the estimated waste acceptance rate in any year reported in the five-year estimate, a revised five-year estimate shall be submitted to the Department. The revised estimate shall cover the five-year period beginning with the year in which the actual waste acceptance rate exceeded the estimated waste acceptance rate.

Applicable Requirement: 40 CFR 60.38f(c)(3)

Applicable Requirements: NDAC 33.1-15-14-06.5.a(71), NDAC 33.1-15-23-04, and NDAC 33.1-15-12 (40 CFR 60), Subpart WWW-Cf

B. The permittee shall submit an annual compliance certification report in accordance with NDAC 33.1-15-14-06.5.c(5) within 45 days after December 31 of each year on forms supplied or approved by the Department.

Commented [HS1]: This requirement is not applicable.

(7) A provision to ensure that the source pays fees to the department consistent with the fee schedule in chapter 33.1-15-23.

Section 23 - Fees

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Applicable Requirement: NDAC 33.1-15-14-06.5.c(5)

C. For emission units where the method of compliance monitoring is demonstrated by an EPA Test Method or a portable analyzer test, the test report shall be submitted to the Department within 60 days after completion of the test.

Applicable Requirement: NDAC 33.1-15-14-06.5.a(6)(e)

D. The permittee shall submit an annual emission inventory report on forms supplied or approved by the Department. This report shall be submitted by March 15 of each year. Insignificant units/activities listed in this permit do not need to be included in the report.

Applicable Requirements: NDAC 33.1-15-14-06.5.a(7) and NDAC 33.1-15-23-04

Commented [HS2]: References to fee payment requirements, same as above. This could be accurate.

7. Facility Wide Operating Conditions:

A. Ambient Air Quality Standards:

- Particulate and gases. The permittee shall not emit air contaminants in such a manner or amount that would violate the standards of ambient air quality listed in Table 1 of NDAC 33.1-15-02, external to buildings, to which the general public has access.
- 2) Radioactive substances. The permittee shall not release into the ambient air any radioactive substances exceeding the concentrations specified in NDAC 33.1-10.
- 3) Other air contaminants. The permittee shall not emit any other air contaminants in concentrations that would be injurious to human health or well-being or unreasonably interfere with the enjoyment of property or that would injure plant or animal life.
- 4) Disclaimer. Nothing in any other part or section of this permit may in any manner be construed as authorizing or legalizing the emission of air contaminants in such manner that would violate the standards in Paragraphs 1), 2) and 3) of this condition.

Applicable Requirements: NDAC 33.1-15-02-04 and 40 CFR 50.1(e)

B. **Fugitive Emissions**: The release of fugitive emissions shall comply with the applicable requirements in NDAC 33.1-15-17.

Applicable Requirement: NDAC 33.1-15-17

C. Open Burning: The permittee may not cause, conduct, or permit open burning of refuse, trade waste, or other combustible material, except as provided for in Section 33.1-15-04-02 and may not conduct, cause, or permit the conduct of a salvage operation by open burning. Any permissible open burning under NDAC 33.1-15-04-02 must comply with the requirements of that section.

Applicable Requirement: NDAC 33.1-15-04

D. Asbestos Renovation or Demolition: Any asbestos renovation or demolition at the facility shall comply with emission standard for asbestos in NDAC 33.1-15-13.

Applicable Requirement: NDAC 33.1-15-13-02

E. Requirements for Organic Compounds Gas Disposal:

 Each flare must be equipped and operated with an automatic ignitor or a continuous burning pilot.

Applicable Requirements: NDAC 33.1-15-07-02

F. Rotating Pumps and Compressors: All rotating pumps and compressors handling volatile organic compounds must be equipped and operated with properly maintained seals designed for their specific product service and operating conditions.

Applicable Requirement: NDAC 33.1-15-07-01.5

G. Shutdowns/Malfunction/Continuous Emission Monitoring System Failure:

- Maintenance Shutdowns. In the case of shutdown of air pollution control equipment for necessary scheduled maintenance, the intent to shut down such equipment shall be reported to the Department at least 24 hours prior to the planned shutdown provided that the air contaminating source will be operated while the control equipment is not in service. Such prior notice shall include the following:
 - a) Identification of the specific facility to be taken out of service as well as its location and permit number.
 - b) The expected length of time that the air pollution control equipment will be out of service.
 - c) The nature and estimated quantity of emissions of air pollutants likely to be emitted during the shutdown period.
 - d) Measures, such as the use of off-shift labor and equipment, that will be taken to minimize the length of the shutdown period.
 - e) The reasons that it would be impossible or impractical to shutdown the source operation during the maintenance period.
 - f) Nothing in this subsection shall in any manner be construed as authorizing or legalizing the emission of air contaminants in excess of the rate allowed by this article or a permit issued pursuant to this article.

Applicable Requirement: NDAC 33.1-15-01-13.1

2) Malfunctions.

When a malfunction in any installation occurs that can be expected to last longer than 24 hours and cause the emission of air contaminants in violation of this article or other applicable rules and regulations, the person responsible for such installation shall notify the Department of such malfunction as soon as possible during normal working hours. The notification must contain a statement giving all pertinent facts, including the estimated duration of the breakdown. The Department shall be notified when the condition causing the malfunction has been corrected.

- b) Immediate notification to the Department is required for any malfunction that would threaten health or welfare, or pose an imminent danger. During normal working hours the Department can be contacted at 701-328-5188. After hours the Department can be contacted through the 24-hour state radio emergency number 1-800-472-2121. If calling from out of state, the 24-hour number is 701-328-9921.
- c) Unavoidable Malfunction. The owner or operator of a source who believes any excess emissions resulted from an unavoidable malfunction shall submit a written report to the Department which includes evidence that:
 - [1] The excess emissions were caused by a sudden, unavoidable breakdown of technology that was beyond the reasonable control of the owner or operator.
 - [2] The excess emissions could not have been avoided by better operation and maintenance, did not stem from an activity or event that could have been foreseen and avoided, or planned for.
 - [3] To the extent practicable, the source maintained and operated the air pollution control equipment and process equipment in a manner consistent with good practice for minimizing emissions, including minimizing any bypass emissions.
 - [4] Any necessary repairs were made as quickly as practicable, using off-shift labor and overtime as needed and possible.
 - [5] All practicable steps were taken to minimize the potential impact of the excess emissions on ambient air quality.
 - [6] The excess emissions are not part of a recurring pattern that may have been caused by inadequate operation or maintenance, or inadequate design of the malfunctioning equipment.

The report shall be submitted within 30 days of the end of the calendar quarter in which the malfunction occurred or within 30 days of a written request by the Department, whichever is sooner.

The burden of proof is on the owner or operator of the source to provide sufficient information to demonstrate that an unavoidable equipment malfunction occurred. The Department may elect not to pursue enforcement action after considering whether excess emissions resulted from an unavoidable equipment malfunction. The Department will evaluate, on a case-by-case basis, the information submitted by the owner or operator to determine whether to pursue enforcement action.

Applicable Requirement: NDAC 33.1-15-01-13.2

- H. Noncompliance Due to an Emergency: The permittee may seek to establish that noncompliance with a technology-based emission limitation under this permit was due to an emergency. To do so, the permittee shall demonstrate the affirmative defense of emergency through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - 1) An emergency occurred and that the permittee can identify the cause(s) of the emergency;
 - 2) The permitted facility was at the time being properly operated;
 - During the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards, or other requirements in this permit; and
 - 4) The permittee submitted notice of the emergency to the Department within one working day of the time when emission limitations were exceeded longer than 24-hours due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken. Those emergencies not reported within one working day, as well as those that were, will be included in the semi-annual report.

In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof.

Technology-based emission limits are those established on the basis of emission reductions achievable with various control measures or process changes (e.g., a New Source Performance Standard) rather than those established to attain a health based air quality standard.

An "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of this source, including acts of God, which requires immediate corrective action to restore normal operation, and that causes this source to exceed a technology-based emission limitation under this permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

Applicable Requirement: NDAC 33.1-15-14-06.5.g

 Air Pollution from Internal Combustion Engines: The permittee shall comply with all applicable requirements of NDAC 33.1-15-08-01 - Internal Combustion Engine Emissions Restricted.

Applicable Requirement: NDAC 33.1-15-08-01

J. Prohibition of Air Pollution:

- 1) The permittee shall not permit or cause air pollution, as defined in NDAC 33.1-15-01-04.
- Nothing in any other part of this permit or any other regulation relating to air pollution shall in any manner be construed as authorizing or legalizing the creation or maintenance of air pollution.

Applicable Requirement: NDAC 33.1-15-01-15

K. Performance Tests:

- The Department may reasonably require the permittee to make or have made tests, at a reasonable time or interval, to determine the emission of air contaminants from any source, for the purpose of determining whether the permittee is in violation of any standard or to satisfy other requirements of NDCC 23.1-06. All tests shall be made and the results calculated in accordance with test procedures approved or specified by the Department including the North Dakota Department of Environmental Quality Emission Testing Guideline. All tests shall be conducted by reputable, qualified personnel. The Department shall be given a copy of the test results in writing and signed by the person responsible for the tests.
- 2) The Department may conduct tests of emissions of air contaminants from any source. Upon request of the Department, the permittee shall provide necessary holes in stacks or ducts and such other safe and proper sampling and testing facilities, exclusive of instruments and sensing devices, as may be necessary for proper determination of the emission of air contaminants.

Applicable Requirement: NDAC 33.1-15-01-12

3) Except for sources subject to 40 CFR 63, the permittee shall notify the Department by submitting a Proposed Test Plan, or its equivalent, at least 30 calendar days in advance of any tests of emissions of air contaminants required by the Department. The permittee shall notify the Department at least 60 calendar days in advance of any performance testing required under 40 CFR 63, unless otherwise specified by the subpart. If the permittee is unable to conduct the performance test on the scheduled date, the permittee shall notify the Department as soon as practicable when conditions warrant, and shall coordinate a new test date with the Department.

Failure to give the proper notification may prevent the Department from observing the test. If the Department is unable to observe the test because of improper notification, the test results may be rejected.

Applicable Requirements: NDAC 33.1-15-14-06.5.a(3)(a), NDAC 33.1-15-12-02 Subpart A (40 CFR 60.8), NDAC 33.1-15-13-01.2 Subpart A (40 CFR 61.13), and NDAC 33.1-15-22-03 Subpart A (40 CFR 63.7)

L. Pesticide Use and Disposal: Any use of a pesticide or disposal of surplus pesticides and empty pesticide containers shall comply with the requirements in NDAC 33.1-15-10.

Applicable Requirements: NDAC 33.1-15-10-01 and NDAC 33.1-15-10-02

M. **Air Pollution Emergency Episodes:** When an air pollution emergency episode is declared by the Department, the permittee shall comply with the requirements in NDAC 33.1-15-11.

Applicable Requirements: NDAC 33.1-15-11-01 through NDAC 33.1-15-11-04

- N. Stratospheric Ozone Protection: The permittee shall comply with any applicable standards for recycling and emissions reduction pursuant to 40 CFR 82, Subpart F, except as provided for MVACs in Subpart B:
 - Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to Section 82.156.
 - Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to Section 82.158.
 - 3) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to Section 82.161.
 - Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to Section 82.156.

Applicable Requirement: 40 CFR 82

- O. Chemical Accident Prevention: The permittee shall comply with all applicable requirements of Chemical Accident Prevention pursuant to 40 CFR 68. The permittee shall comply with the requirements of this part no later than the latest of the following dates:
 - 1) Three years after the date on which a regulated substance is first listed under this part; or
 - The date on which a regulated substance is first present above a threshold quantity in a process.

Applicable Requirement: 40 CFR 68

P. Air Pollution Control Equipment: The permittee shall maintain and operate air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. The manufacturer's recommended Operations and Maintenance (O&M) procedures, or a site-specific O&M procedure developed from the manufacturer's recommended O&M procedures, shall be followed to assure proper operation and maintenance of the equipment. The

permittee shall have the O&M procedures available onsite and provide the Department with a copy when requested.

Applicable Requirement: NDAC 33.1-15-14-06.5.b(1)

Q. Prevention of Significant Deterioration of Air Quality (40 CFR 52.21 as incorporated by NDAC Chapter 33.1-15-15): If this facility is classified as a major stationary source under the Prevention of Significant Deterioration of Air Quality (PSD) rules, a Permit to Construct must be obtained from the Department for any project which meets the definition of a "major modification" under 40 CFR 52.21(b)(2).

If this facility is classified as a major stationary source under the PSD rules and the permittee elects to use the method specified in 40 CFR 52.21(b)(41)(ii)(a) through (c) for calculating the projected actual emissions of a proposed project, then the permittee shall comply with all applicable requirements of 40 CFR 52.21(r)(6).

Applicable Requirement: NDAC 33.1-15-15-01.2

8. General Conditions:

A. Annual Fee Payment: The permittee shall pay an annual fee, for administering and monitoring compliance, which is determined by the actual annual emissions of regulated contaminants from the previous calendar year. The Department will send a notice, identifying the amount of the annual permit fee, to the permittee of each affected installation. The fee is due within 60 days following the date of such notice. Any source that qualifies as a "small business" may petition the Department to reduce or exempt any fee required under this section. Failure to pay the fee in a timely manner or submit a certification for exemption may cause this Department to initiate action to revoke the permit.

Applicable Requirements: NDAC 33.1-15-14-06.5.a(7) and NDAC 33.1-15-23-04

B. Permit Renewal and Expiration: This permit shall be effective from the date of its issuance for a fixed period of five years. The permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least six months, but no more than 18 months, prior to the date of permit expiration. The Department shall approve or disapprove the renewal application within 60 days of receipt. Unless the Department requests additional information or otherwise notifies the applicant of incompleteness, the application shall be deemed complete. For timely and complete renewal applications for which the Department has failed to issue or deny the renewal permit before the expiration date of the previous permit, all terms and conditions of the permit, including any permit shield previously granted shall remain in effect until the renewal permit has been issued or denied. The application for renewal shall include the current permit number, description of any permit revisions and off-permit changes that occurred during the permit term, and any applicable requirements that were promulgated and not incorporated into the permit during the permit term.

Applicable Requirements: NDAC 33.1-15-14-06.4 and NDAC 33.1-15-14-06.6

C. Transfer of Ownership or Operation: This permit may not be transferred except by procedures allowed in Chapter 33.1-15-14 and is to be returned to the Department upon the destruction or change of ownership of the source unit(s), or upon expiration, suspension or revocation of this permit. A change in ownership or operational control of a source is treated as an administrative permit amendment if no other change in the permit is necessary and provided that a written agreement containing a specific date for transfer of permit responsibility, coverage, and liability between the current and new permittee has been submitted to the Department.

Applicable Requirement: NDAC 33.1-15-14-06.6.d

 Property Rights: This permit does not convey any property rights of any sort, or any exclusive privilege.

Applicable Requirement: NDAC 33.1-15-14-06.5.a(6)(d)

E. Submissions:

 Reports, test data, monitoring data, notifications, and requests for renewal shall be submitted to:

> North Dakota Department of Environmental Quality Division of Air Quality 918 E Divide Avenue, 2nd Floor Bismarck, ND 58501-1947

 Any document submitted shall be certified as being true, accurate, and complete by a responsible official.

Applicable Requirement: NDAC 33.1-15-14-06.4.d

F. Right of Entry: Any duly authorized officer, employee or agent of the North Dakota Department of Environmental Quality may enter and inspect any property, premise or place listed on this permit or where records are kept concerning this permit at any reasonable time for the purpose of ascertaining the state of compliance with this permit and the North Dakota Air Pollution Control Rules. The Department may conduct tests and take samples of air contaminants, fuel, processing material, and other materials which affect or may affect emissions of air contaminants from any source. The Department shall have the right to access and copy any records required by the Department's rules and to inspect monitoring equipment located on the premises.

Applicable Requirements: NDAC 33.1-15-14-06.5.c(2) and NDAC 33.1-15-01-06

G. Compliance: The permittee must comply with all conditions of this permit. Any noncompliance with a federally-enforceable permit condition constitutes a violation of the Federal Clean Air Act. Any noncompliance with any State enforceable condition of this permit constitutes a violation of NDCC Chapter 23.1-06 and NDAC 33.1-15. Violation of any condition of this permit is grounds for enforcement action, for permit termination, revocation and reissuance or modification, or for denial of a permit renewal application. Noncompliance may also be grounds for assessment of penalties under the NDCC 23.1-06. It shall not be a defense for a permittee in an enforcement

action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

Applicable Requirements: NDAC 33.1-15-14-06.5.a(6)(a) and NDAC 33.1-15-14-06.5.a(6)(b)

H. Duty to Provide Information: The permittee shall furnish to the Department, within a reasonable time, any information that the Department 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. This includes instances where an alteration, repair, expansion, or change in method of operation of the source occurs. Upon request, the permittee shall also furnish to the Department copies of records that the permittee is required to keep by this permit, or for information claimed to be confidential, the permittee may furnish such recourse directly to the Department along with a claim of confidentiality. The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information. Items that warrant supplemental information submittal include, but are not limited to, changes in the ambient air boundary and changes in parameters associated with emission points (i.e., stack parameters). The permittee shall also provide additional information as necessary to address any requirements that become applicable to the source after the date a complete renewal application was submitted but prior to release of a draft permit.

Applicable Requirements: NDAC 33.1-15-14-06.5.a(6)(e), NDAC 33.1-15-14-06.6.b(3) and NDAC 33.1-15-14-06.4.b

- I. Reopening for Cause: The Department will reopen and revise this permit as necessary to remedy deficiencies in the following circumstances:
 - Additional applicable requirements under the Federal Clean Air Act become applicable to
 the permittee with a remaining permit term of three or more years. Such a reopening shall
 be completed no later than 18 months after promulgation of the applicable requirement.
 No such reopening is required if the effective date of the requirement is later than the
 expiration date of this permit.
 - 2) The Department or the United States Environmental Protection Agency determines that this permit contains a material mistake or inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.
 - 3) The Department or the United States Environmental Protection Agency determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
 - 4) Reopenings shall not be initiated before a notice of intent to reopen is provided to the permittee by the Department at least 30 days in advance of the date that this permit is to be reopened, except that the Department may provide a shorter time period in the case of an emergency. Proceedings to reopen and issue this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening shall be made as expeditiously as practicable.

Applicable Requirement: NDAC 33.1-15-14-06.6.f

J. Permit Changes: The permit may be modified, revoked, reopened, and reissued or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

Applicable Requirement: NDAC 33.1-15-14-06.5.a(6)(c)

- K. Off-Permit Changes: A permit revision is not required for changes that are not addressed or prohibited by this permit, provided the following conditions are met:
 - 1) No such change may violate any term or condition of this permit.
 - 2) Each change must comply with all applicable requirements.
 - Changes under this provision may not include changes or activities subject to any requirement under Title IV or that are modifications under any provision of Title I of the Federal Clean Air Act.
 - 4) A Permit to Construct under NDAC 33.1-15-14-02 has been issued, if required.
 - Before the permit change is made, the permittee must provide written notice to both the Department and Air Program (8P-AR), Office of Partnerships & Regulatory Assistance, US EPA Region 8, 1595 Wynkoop Street, Denver, CO 80202-1129, except for changes that qualify as insignificant activities in Section 33.1-15-14-06. This notice shall describe each change, the date of the change, any change in emissions, pollutants emitted, and any applicable requirement that would apply as a result.
 - 6) The permittee shall record all changes that result in emissions of any regulated air pollutant subject to any applicable requirement not otherwise regulated under this permit, and the emissions resulting from those changes. The record shall reside at the permittee's facility.

Applicable Requirement: NDAC 33.1-15-14-06.6.b(3)

- L. Administrative Permit Amendments: This permit may be revised through an administrative permit amendment, if the revision to this permit accomplishes one of the following:
 - 1) Corrects typographical errors.
 - Identifies a change in the name, address or phone number of any person identified in this
 permit, or provides a similar minor administrative change at the source.
 - 3) Requires more frequent monitoring or reporting by the permittee.
 - 4) Allows for a change in ownership or operational control of the source where the Department determines that no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new permittee has been submitted to the Department.

- 5) Incorporates into the Title V permit the requirements from a Permit to Construct when the review was substantially equivalent to Title V requirements for permit issuance, renewal, reopenings, revisions and permit review by the United States Environmental Protection Agency and affected state review, that would be applicable to the change if it were subject to review as a permit modification and compliance requirements substantially equivalent to Title V requirements for permit content were contained in the Permit to Construct.
- 6) Incorporates any other type of change which the Administrator of the United States Environmental Protection Agency has approved as being an administrative permit amendment as part of the Department's approved Title V operating permit program.

Applicable Requirement: NDAC 33.1-15-14-06.6.d

- M. Minor Permit Modification: This permit may be revised by a minor permit modification, if the proposed permit modification meets the following requirements:
 - 1) Does not violate any applicable requirement.
 - Does not involve significant changes to existing monitoring, reporting, or recordkeeping requirements in this permit.
 - 3) Does not require or change a case-by-case determination of an emission limitation or other standard, or a source-specific determination for temporary sources of ambient impacts, or a visibility or increment analysis.
 - 4) Does not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include a federally enforceable emissions cap assumed to avoid classification as a modification under any provision of Title I of the Federal Clean Air Act; and alternative emissions limit approved pursuant to regulations promulgated under Section 112(i)(5) of the Federal Clean Air Act.
 - 5) Is not a modification under NDAC 33.1-15-12, 33.1-15-13, and 33.1-15-15 or any provision of Title I of the Federal Clean Air Act.
 - 6) Is not required to be processed as a significant modification.

Applicable Requirement: NDAC 33.1-15-14-06.6.e(1)

N. Significant Modifications:

Significant modification procedures shall be used for applications requesting permit modifications that do not qualify as minor permit modifications or as administrative amendments. Every significant change in existing monitoring permit terms or conditions and every relaxation of reporting or recordkeeping permit terms or conditions shall be considered significant. Nothing therein shall be construed to preclude the permittee from making changes consistent with this subsection that would render existing permit compliance terms and conditions irrelevant.

Significant permit modifications shall meet all Title V requirements, including those for applications, public participation, review by affected states, and review by the United States Environmental Protection Agency, as they apply to permit issuance and permit renewal. The Department shall complete review of significant permit modifications within nine months after receipt of a complete application.

Applicable Requirement: NDAC 33.1-15-14-06.6.e(3)

O. Operational Flexibility: The permittee is allowed to make a limited class of changes within the permitted facility that contravene the specific terms of this permit without applying for a permit revision, provided the changes do not exceed the emissions allowable under this permit, are not Title I modifications and a Permit to Construct is not required. This class of changes does not include changes that would violate applicable requirements; or changes to federally-enforceable permit terms or conditions that are monitoring, recordkeeping, reporting, or compliance certification requirements.

The permittee is required to send a notice to both the Department and Air Program (8P-AR), Office of Partnerships & Regulatory Assistance, US EPA Region 8, 1595 Wynkoop Street, Denver, CO 80202-1129, at least seven days in advance of any change made under this provision. The notice must describe the change, when it will occur and any change in emissions, and identify any permit terms or conditions made inapplicable as a result of the change. The permittee shall attach each notice to its copy of this permit. Any permit shield provided in this permit does not apply to changes made under this provision.

Applicable Requirement: NDAC 33.1-15-14-06.6.b(2)

- P. Relationship to Other Requirements: Nothing in this permit shall alter or affect the following:
 - The provisions of Section 303 of the Federal Clean Air Act (emergency orders), including the authority of the administrator of the United States Environmental Protection Agency under that section.
 - The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance.
 - The ability of the United States Environmental Protection Agency to obtain information from a source pursuant to Section 114 of the Federal Clean Air Act.
 - Nothing in this permit shall relieve the permittee of the requirement to obtain a Permit to Construct.

Applicable Requirements: NDAC 33.1-15-14-06.3 and NDAC 33.1-15-14-06.5.f(3)(a), (b) and (d)

Q. Severability Clause: The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

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Applicable Requirement: NDAC 33.1-15-14-06.5.a(5)

R. Circumvention: The permittee shall not cause or permit the installation or use of any device of any means which conceals or dilutes an emission of air contaminants which would otherwise violate this permit.

Applicable Requirement: NDAC 33.1-15-01-08

- 9. State Enforceable Only Conditions (not Federally enforceable):
 - A. General Odor Restriction: The permittee shall not discharge into the ambient air any objectionable odorous air contaminant which exceeds the limits established in NDAC 33.1-15-16.

Applicable Requirement: NDAC 33.1-15-16