

**AIR QUALITY EFFECTS ANALYSIS  
FOR  
PERMIT TO CONSTRUCT  
ACP-18307 v1.0**

**Applicant:**

Nokota Gas Processing, LLC  
952 Echo Lane  
Suite 200  
Houston, Texas 77024

**Facility Location:**

Daniele Facility  
NE1/4, NW1/4, Sec 26, T160N, R99W  
Lat 48.661215/ Long -103.437568  
Divide County, North Dakota

**Introduction:**

Nokota Gas Processing, LLC (Nokota) submitted a permit to construct application to the North Dakota Department of Environmental Quality – Division of Air Quality (Department) on August 25, 2025 and a revised application on February 19, 2026. The application was for the construction of a new portable natural gas processing plant and electric generation facility (Daniele Facility or facility) to be located in Divide County, North Dakota.

The facility will be set up at a well site and will be processing wellhead gas. The wellhead gas will be pass through an H<sub>2</sub>S treatment plant and two-phase separator prior to being compressed. Following compression, the gas will flow through a Joule-Thompson plant and three-phase separator. From the separator, the recovered natural gas liquids (NGL) go to three pressurized storage vessels, the produced water goes to the wellsite produced water tank, and the gas is used as fuel for twenty-five onsite generators powering six data centers. The facility will operate a natural gas-fired compressor engine (EU COMP01), twenty-five Mesa Solutions natural gas-fired generator engines (EU GEN01 through GEN25), and three NGL tanks with truck loadout (LOAD).

Table 1-1 of ACP-18307 lists the permitted emissions units associated with the facility.

**Facility Wide Emissions Profile**  
**Potential to Emit (PTE)**

Table 1 - PTE (tons per year) <sup>A</sup>

Emission Unit Description	EU	CO	NO <sub>x</sub>	SO <sub>2</sub>	VOCs	PM	Total HAPs	Largest HAP <sup>B</sup>
H2S Treatment Plant	H2SPLANT			0.004				
Waukesha Engine 530 bhp	COMP01	10.24	5.12	0.01	3.58	0.17	0.27	0.20
25 Mesa engines 617 bhp each	GEN01 through GEN25	52.13	1.49	0.19	1.49	3.16	8.29	2.24
Tanks and truck loadout	LOAD				1.03			
<b>Total without Fugitives:</b>		<b>62.4</b>	<b>6.6</b>	<b>0.2</b>	<b>6.1</b>	<b>3.3</b>	<b>8.6</b>	<b>2.4</b>

- <sup>A</sup> Abbreviations:  
 PM: filterable and condensable particulate matter  
 SO<sub>2</sub>: sulfur dioxide  
 NO<sub>x</sub>: oxides of nitrogen  
 CO: carbon monoxide  
 VOCs: volatile organic compounds  
 HAPs: hazardous air pollutants as defined in Section 112(b) of the Clean Air Act
- <sup>B</sup> Largest HAP is Formaldehyde

As shown in Table 1, the facility wide PTE is below 100 tons per year (tpy) for all criteria air pollutants, below 10 tpy for any single hazardous air pollutant (HAP), and below 25 tpy for the combined HAP emissions. The Department reviewed the manufactures' specifications and applied a limit of 1.5 times the given emission rates, as requested by Nokota. The facility will be a synthetic minor source based on enforceable restrictions put in place to limit NO<sub>x</sub>, CO, and VOC emissions from the facility to below major source thresholds for the prevention of significant (PSD) and Title V programs.

**Rules Analysis**

**Potentially Applicable Rules and Expected Compliance Status**

A. NDAC 33.1-15-01 – General Provisions:

Multiple topics are included in the General Provisions chapter: entry onto premises - authority, variances, circumvention, severability, land use plans and zoning regulations (only to provide air quality information), measurement of air contaminants, shutdown and malfunction of an installation - requirements for notification, time schedule for compliance, prohibition of air pollution, confidentiality of records, enforcement, and compliance certifications.

Applicability and Expected Compliance

Based on the review of the information provided, the facility will comply with all applicable sections of this rule.

B. NDAC 33.1-15-02 – Ambient Air Quality Standards:

The facility must comply with the North Dakota and Federal Ambient Air Quality Standards (AAQS). In addition to these standards, compliance with the “Criteria Pollutant Modeling Requirements for a Permit to Construct” guidelines<sup>1</sup>.

Applicability and Expected Compliance

The facility is not subject to PSD nor does the facility’s PTE trigger the modeling thresholds listed in the “Criteria Pollutant Modeling Requirements for a Permit to Construct”, therefore, preconstruction modeling for this facility was not required. Based on the facility PTE compliance with the ambient air quality standards is expected to be maintained.

C. NDAC 33.1-15-03 – Restriction of Emission of Visible Air Contaminants:

This chapter requires all non-flare sources from new facilities to comply with an opacity limit of 20% except for one six-minute period per hour when 40% opacity is permissible. This chapter also requires facility flares to comply with an opacity limit of 20% except for one six-minute period per hour when 60% opacity is permissible. Lastly, this chapter restricts the opacity of fugitive emissions transported off property to 40% except for one six-minute period per hour when 60% opacity is permissible. This chapter also contains exceptions under certain circumstances and provides the method of measurement to determine compliance with the referenced limits.

Applicability and Expected Compliance

Based on Department experience with similar engines, the facility is expected to comply with the 20% opacity limit.

D. NDAC 33.1-15-04 – Open Burning:

No person may dispose of refuse and other combustible material by open burning, or cause, allow, or permit open burning of refuse and other combustible material, except as provided for in Section 33.1-15-04-02 or 33.1-15-10-02, and no person may conduct, cause, or permit the conduct of a salvage operation by open burning.

Applicability and Expected Compliance

The facility is subject to this chapter and will comply with all open burning regulations.

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<sup>1</sup> See October 6, 2014, Criteria Pollutant Modeling Requirements for a Permit to Construct. Available at: [https://www.deq.nd.gov/publications/AQ/policy/Modeling/Criteria\\_Modeling\\_Memo.pdf](https://www.deq.nd.gov/publications/AQ/policy/Modeling/Criteria_Modeling_Memo.pdf)

E. NDAC 33.1-15-05 – Emissions of Particulates Matter Restricted:

This chapter establishes particulate matter emission limits and restrictions for industrial process equipment and fuel burning equipment used for indirect heating.

Applicability and Expected Compliance

Since the fuel burning equipment used for indirect heating is fired on gaseous fuels, the particulate matter limits in this chapter do not apply. It should be noted that combustion of gaseous fuels in the units is expected to result in extremely low particulate matter emissions that are well below the allowable levels established by this chapter.

F. NDAC 33.1-15-06 – Emissions of Sulfur Compounds Restricted:

This chapter applies to any installation in which fuel is burned and the SO<sub>2</sub> emissions are substantially due to the sulfur content of the fuel; and in which the fuel is burned primarily to produce heat. This chapter is not applicable to installations which are subject to an SO<sub>2</sub> emission limit under Chapter 33.1-15-12, Standards for Performance for New Stationary Sources, or installations which burn pipeline quality natural gas.

Applicability and Expected Compliance

The facility is exempt from this chapter since each engine (EU COMP01 & GEN01 through GEN25) will be fired on gas containing no more than 2 grains of sulfur per 100 standard cubic feet.

G. NDAC 33.1-15-07 – Control of Organic Compounds Emissions:

This chapter establishes requirements for the construction of organic compound facilities and the disposal of organic compounds gas and vapor generated as waste resulting from storage, refining, or processing operations at the facility.

Applicability and Expected Compliance

The three NGL tanks and truck loadout (EU LOAD) are pressurized with a vapor return system and therefore are expected to comply with the requirements of this chapter.

For leak detection and repair of equipment in VOC and GHG service (EU FUG), the facility will comply with the applicable requirements under New Source Performance Standard (NSPS) Subpart OOOOb – Standards of Performance for Crude Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction Commenced After December 6, 2022.

H. NDAC 33.1-15-08 – Control of Air Pollution from Vehicles and Other Internal Combustion Engines:

This chapter restricts the operation of internal combustion engines which emit from any source unreasonable and excessive smoke, obnoxious or noxious gas, fumes or vapor. This chapter also prohibits the removal or disabling of motor vehicle pollution control devices.

Applicability and Expected Compliance

The facility is subject to this chapter and is expected to comply with all applicable requirements should vehicles or other internal combustion engines be used. The engines (EU GEN01 through GEN25) are also subject to opacity requirements under NDAC 33.1-15-03-02 and subject to the requirements of NSPS Subpart JJJJ. As a result of expected compliance with these provisions, the engines are not expected to emit any unreasonable and excessive smoke, obnoxious or noxious gases, fumes, or vapor.

- I. NDAC 33.1-15-09 – [repealed]
- J. NDAC 33.1-15-10 – Control of Pesticides:

This chapter provides restrictions on pesticide use and restrictions on the disposal of surplus pesticides and empty pesticide containers.

Applicability and Expected Compliance

The facility is subject to this chapter and is expected to comply with all applicable requirements should pesticides be used.

- K. NDAC 33.1-15-11 – Prevention of Air Pollution Emergency Episodes:

When an air pollution emergency episode is declared by the Department, the facility shall comply with the requirements in Chapter 33.1-15-11 of the North Dakota Air Pollution Control (NDAPC) rules.

- L. NDAC 33.1-15-12 – Standards of Performance for New Stationary Sources [40 Code of Federal Regulations Part 60 (40 CFR Part 60)]:

This chapter adopts most of the Standards of Performance for New Stationary Sources (NSPS) under 40 CFR Part 60. The facility is subject to the following subparts under 40 CFR Part 60 which have been adopted by North Dakota as of July 1, 2019:

Subpart A – General Provisions

Subpart A contains general requirements for plan reviews, notification, recordkeeping, performance tests, reporting, monitoring and general control device requirements.

Applicability and Expected Compliance

The facility will comply with the general provisions of Subpart A through submission of timely notifications, performance testing, reporting, and following the general control device and work practice requirements under Subpart A. In addition, any changes to the facility after it is built will be evaluated with respect to this subpart as well as others.

### Subpart JJJJ – Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

Subpart JJJJ establishes emissions standards (NO<sub>x</sub>, CO, VOC) and compliance schedules for all new, modified and reconstructed stationary spark ignition (SI) internal combustion engines (ICE) and equipment manufactured on or after July 1, 2007, regardless of size. The subpart applies to manufactures, owners, and operators of such engines and equipment. SI ICE are categorized in this subpart by usage, size and fuel type.

#### Applicability and Expected Compliance

The natural gas-fired engines (EU GEN01 through GEN25) are subject to the requirements of NSPS Subpart JJJJ. EU GEN01 through GEN25 are each rated at 671 hp and were constructed in September 2024.

Subpart JJJJ requires each engine to comply with the following emissions standards:

- NO<sub>x</sub> of 1.0 g/hp-hr or 160 ppmvd @ 15% O<sub>2</sub>
- CO of 2.0 g/hp-hr or 540 ppmvd @ 15% O<sub>2</sub>
- VOC of 0.7 g/hp-hr or 86 ppmvd @ 15% O<sub>2</sub>

Beyond the Subpart JJJJ limits, the facility is restricted to lower engine emissions limits for EU GEN01 through GEN25 to avoid major source thresholds under Title V. As a result, Condition 3 of ACP-18307 v1.0 established the following limits:

- NO<sub>x</sub> of 0.01 g/hp-hr
- CO of 0.35 g/hp-hr
- VOC of 0.01 g/hp-hr

To demonstrate compliance with the above limits, the facility must conduct emissions testing every 8,760 hours of operations or every three years, whichever comes first.

The facility is also expected to comply with Subpart JJJJ requirements by properly maintaining and operating an air-to-fuel ratio controller and keeping a maintenance plan and records of conducted maintenance and, to the extent practicable, will maintain and operate the engines in a manner consistent with good air pollution control for minimizing emissions.

### Subpart OOOO – Standards of Performance for Crude Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction Commenced After August 23, 2011, and On or Before September 18, 2015

Subpart OOOO establishes emission standards and compliance schedules for the control of volatile organic compounds (VOC) and sulfur dioxide (SO<sub>2</sub>) emissions from affected facilities in the crude oil and natural gas production source category that commence construction, modification, or reconstruction after August 23, 2011 and on or before September 18, 2015.

Applicability and Expected Compliance

The compressor driven by the natural gas compressor engine (EU COMP01) was manufactured in September 2012 and is considered an affected unit under Subpart OOOO. The compressor is expected to comply with the applicable standards for reciprocating compressors under Subpart OOOO, see 60.5385.

Subpart OOOOb – Standards of Performance for Crude Oil and Natural Gas Facilities for which Construction, Modification or Reconstruction Commenced After December 6, 2022

Subpart OOOOb establishes emission standards and compliance schedules for the control of the pollutant greenhouse gases (GHG). The greenhouse gas standard in this subpart is in the form of a limitation on emissions of methane from affected facilities in the crude oil and natural gas source category that commence construction, modification, or reconstruction after December 6, 2022. This subpart also establishes emission standards and compliance schedules for the control of VOC and SO<sub>2</sub> emissions from affected facilities in the crude oil and natural gas source category that commence construction, modification, or reconstruction after December 6, 2022.

Applicability and Expected Compliance

The fugitive emissions (EU FUG) components that have a potential to emit GHG and VOC are considered affected facilities under Subpart OOOOb. The facility is expected to comply with the applicable fugitive emissions VOC standards through development and implementation of a leak detection and repair (LDAR) program in compliance with Subpart OOOOb requirements. The LDAR program, at a minimum, shall require monitoring, reporting, and recordkeeping.

- M. NDAC 33.1-15-13 – Emission Standards for Hazardous Air Pollutants [40 Code of Federal Regulations Part 61 (40 CFR Part 61)]:

This chapter discusses emission standards for hazardous air pollutants. It specifically incorporates a majority of the subparts and appendices of the National Emission Standards for Hazardous Air Pollutants (NESHAP) under 40 CFR Part 61 as of July 2, 2010.

Applicability and Expected Compliance

The facility does not appear to have any applicable requirements under this chapter.

- N. NDAC 33.1-15-14 – Designated Air Contaminant Sources, Permit to Construct, Minor Source Permit to Operate, Title V Permit to Operate:

This chapter designates that federally regulated sources are required to obtain a Permit to Construct and a Permit to Operate and comply with specific emission control and air quality standards.

Applicability and Expected Compliance

The facility has submitted an application for a permit to construct and has met all requirements necessary to obtain a permit to construct. The facility will be considered a synthetic minor source due to restrictions on the engines NO<sub>x</sub>, CO, and VOC emissions that are needed to stay below major source thresholds.

Once the facility completes construction and meets the permit to construct requirements, the facility will be issued a permit to operate by the Department.

- O. NDAC 33.1-15-15 – Prevention of Significant Deterioration of Air Quality [40 CFR 52.21]:

This chapter adopts the federal provisions of the Prevention of Significant Deterioration of air quality (PSD) program (40 CFR 52.21). A facility is subject to PSD review if it is classified as a “major stationary source” under Chapter 33.1-15-15.

Applicability and Expected Compliance

This facility is not classified as a “major stationary source” under 40 CFR 52.21(b)(1)(i)(a) and is therefore only subject to PSD review if emissions of a regulated new source review (NSR) pollutant<sup>2</sup> exceed 250 tpy (excluding fugitive emissions). The PTE for this facility, as shown in Table 1, is below the 250 tpy threshold and therefore not subject to PSD review.

- P. NDAC 33.1-15-16 -- Restriction of Odorous Air Contaminants:

This chapter restricts the discharge of objectionable odorous air contaminants which measures seven odor concentration units or greater outside the property boundary. The emission of hydrogen sulfide is also addressed with strict concentration limitations. The chapter also establishes the method of measurement using certified inspectors, scentometers, and other approved instruments.

Applicability and Expected Compliance

Based on Department experience with sources having similar emission units, processes, and low hydrogen sulfide concentrations, the facility is expected to comply with this chapter.

- Q. NDAC 33.1-15-17 – Restriction of Fugitive Emissions:

This Chapter restricts fugitive emissions from particulate matter or other visible air contaminants and gaseous emissions that would violate Chapter 2 (ambient air quality standards), Chapter 15 (PSD), Chapter 16 (odor), or Chapter 19 (visibility).

<sup>2</sup> See 40 CFR 52.21(b)(50). Available at: [https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-52/subpart-A/section-52.21#p-52.21\(b\)\(50\)](https://www.ecfr.gov/current/title-40/chapter-I/subchapter-C/part-52/subpart-A/section-52.21#p-52.21(b)(50))

Applicability and Expected Compliance

The facility will be required to take reasonable precautions to prevent fugitive emissions in violation of the above referenced NDAC chapters.

## R. NDAC 33.1-15-18 – Stack Heights:

This chapter restricts the use of stack heights above good engineering practices (GEP). The chapter primarily adopts federal regulations listed under 40 CFR 51.100(ii). This chapter also restricts the use of dispersion techniques to affect the concentration of a pollutant in the ambient air. Demonstrations of good engineering practice stack heights must be made available for review.

Applicability and Expected Compliance

The facility is a portable skid mounted unit, with no building structures. The unit is skid mounted and will be operated as a portable source. The source will be reducing overall local area emissions that are the result of oil field flaring (which is a permitted activity). Based on the portable nature of the facility, there are no stack height requirements for this source.

## S. NDAC 33.1-15-19 – Visibility Protection:

This chapter outlines regulations regarding visibility protection and applies to new major stationary sources as defined in Section 33.1-15-15-01. It contains provisions regarding visibility impact analysis, visibility models, notification requirements for permit applications, review by federal land managers, permit issuance criteria, and visibility monitoring.

Applicability and Expected Compliance

The facility is not a new major stationary source and therefore is not subject to the requirements of this chapter. Given the minor source levels of the visibility impairing air pollutants, such as NO<sub>x</sub>, SO<sub>2</sub>, and PM<sub>2.5</sub>, it is expected that the facility will not adversely contribute to visibility impairment within the three units of the Theodore Roosevelt National Park (nearest federal Class I areas) or at the Lostwood National Wildlife Refuge.

## T. NDAC 33.1-15-20 – Control of Emissions from Oil and Gas Well Production Facilities:

The facility is located at an oil and gas well but is not an oil or gas well facility and is therefore not subject to the requirements of this chapter.

## U. NDAC 33.1-15-21 – Acid Rain Program:

This chapter adopts the acid rain provisions of the Clean Air Act specified under 40 CFR Parts 72-78. The facility is not subject to the acid rain provision as they are not an electric utility.

V. NDAC 33.1-15-22 – Emissions Standards for Hazardous Air Pollutants for Source Categories [40 Code of Federal Regulations Part 63 (40 CFR Part 63)]:

This chapter adopts most of the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Source Categories under 40 CFR Part 63. These standards typically apply to major sources of air pollution that are in a regulated source category. In addition to the major source requirements, some of the regulations have “area source” standards (for non-major sources). Some of the area source standards have not been adopted by the Department and compliance will be determined by the United States Environmental Protection Agency (USEPA) (i.e. 40 CFR 63, Subpart ZZZZ area source provisions have not been adopted by the Department).

Applicability

The facility’s potential HAP emissions are less than 10 tons/year of any single HAP and are less than 25 tons/year of any combination of HAPs, so the facility is an area (minor) source of HAPs. As shown in the Table 1, total potential HAPs from the facility are 8.6 tons/year.

Subpart A – General Provisions

Subpart A contains general requirements for prohibited activities and circumvention, preconstruction review and notification, standards and maintenance requirements, performance tests, monitoring, recordkeeping, reporting, and control device work practice requirements.

Applicability and Expected Compliance

The facility will comply with the general provisions of Subpart A through submission of timely notifications, performance testing, monitoring, recordkeeping, reporting, and following the control device work practice requirements under Subpart A.

Subpart ZZZZ – National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

Subpart ZZZZ establishes national emission limitations and operating limitations for hazardous air pollutants (HAP) emissions from stationary reciprocating internal combustion engines (RICE) located at major and area sources of HAP emissions. This subpart also establishes requirements to demonstrate initial and continuous compliance with the emission limitations and operating limitations.

Applicability and Expected Compliance

The facility has engines (EU COMP01 & GEN01 through GEN25) subject to the requirements under this subpart. The compressor engine (EU COMP01) is equipped with a non-selective catalytic reduction and expected to comply with the subpart. The requirements of Subpart ZZZZ for the generator engines (EU GEN01 through GEN25) are met by complying with the requirements of NDAC 33.1-15-12 [40 CFR 60], Subpart JJJJ.

W. NDAC 33.1-15-23 – Fees:

This chapter requires a filing fee of \$325 for permit to construct applications, plus any additional fees based on actual processing costs. The additional fees based on processing costs will be assessed upon issuance of the draft permit to construct. The annual operating permit fee is also applicable.

The applicant has paid the \$325 filing fee and may be required to pay the additional fees associated with the permit processing.

X. NDAC 33.1-15-24 – Standards for Lead-Based Paint Activities:

The facility will not perform any lead-based painting and is therefore not subject to this chapter.

Y. NDAC 33.1-15-25 – Regional Haze Requirements:

This chapter is specific to existing stationary sources or groups of sources which have the potential to “contribute to visibility impairment” as defined in Section 33.1-15-25-01.2. Existing stationary sources or groups of sources determined to contribute to visibility impairment may be required to implement emissions reduction measures to help the Department make reasonable progress toward North Dakota’s reasonable progress goals established in accordance with 40 CFR 51.308.

*Applicability and Expected Compliance*

The facility is a new source and based on low PTE of visibility impairment pollutants is not expected to contribute to visibility impairment. Therefore, the facility is not subject to the requirements of this chapter.

**Summary:**

A complete review of the proposed project indicates that the facility is expected to comply with the applicable federal and state air pollution rules and regulations. The Department recommends the issuance of a Permit to Construct No. ACP-18307 v1.0 for the Daniele Facility following completion of a 30-day public comment period. The public comment period will run from March 21, 2026 through April 19, 2026

Update post comment period:

[Reserved]

**Date of Draft Analysis:** February 19, 2026

**Date of Final Analysis:**

**Analysis By:**

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