

## AIR POLLUTION CONTROL PERMIT TO CONSTRUCT

<b>Permittee Name:</b> John Deere Electronic Solutions, Inc. – Fargo ISG	<b>Permit Number:</b> ACP-18336 v1.0
<b>Permittee Address:</b> 1441 – 44 <sup>th</sup> Street NW Fargo, ND 58102	<b>Permit Description:</b> Synthetic Minor
<b>Source Name &amp; Location:</b> John Deere Electronic Solutions, Inc. – Fargo Various Locations: See Table 1-2 Fargo, North Dakota 58102 Cass County	<b>Source Type:</b> Generator Sets
<b>Date of Application:</b>	March 2, 2026 (Application)

Pursuant to Chapter 23.1-06 of the North Dakota Century Code, the North Dakota Air Pollution Control Rules (North Dakota Administrative Code [NDAC] 33.1-15), and in reliance on statements and representations heretofore made by the permittee (i.e., owner) designated above, a Permit to Construct (PTC, also referred to as ‘permit’) is hereby issued authorizing such permittee to construct and initially operate the source unit(s) listed in Condition 1 at the location designated above. The source may be operated under this PTC until a Permit to Operate (PTO) is issued. This PTC is subject to all applicable rules and orders now or hereafter in effect of the North Dakota Department of Environmental Quality (Department), state and federal regulations, and to any conditions specified below:

Date: \_\_\_\_\_

\_\_\_\_\_  
 James L. Semerad  
 Director  
 Division of Air Quality

**1. Project and Facility Emission Units:**

ACP-18336 v1.0 AQEA memo details the facility wide emission profile and regulation analysis associated with this permit.

Table 1-1 lists the new/modified emission units associated with the Project.

Table 1-2 lists the emission units associated with the facility upon Project completion.

*Table 1-1: Project Emission Units (new)*

<b>Emission Unit Description <sup>A</sup></b>	<b>Location <sup>B</sup></b>	<b>Emission Unit (EU)</b>	<b>Emission Point (EP)</b>	<b>Air Pollution Control Equipment</b>
Two EPA Certified TWD1663GE diesel-fired Volvo Penta genset peak shave generators rated at 932 bhp (mauf. 2026) (NSPS III, MACT ZZZZ)	4101 19th Ave North, Fargo	6,7	6,7	Selective Catalytic Reduction, Ammonia Slip Catalyst

<sup>A</sup> All emission unit ratings are considered nominal ratings.

<sup>B</sup> Engines at the facility are located outside the building.

Table 1-2: Facility Emission Units upon Project Completion

<b>Emission Unit Description <sup>A</sup></b>	<b>Location <sup>B</sup></b>	<b>Emission Unit (EU)</b>	<b>Emission Point (EP)</b>	<b>Air Pollution Control Equipment</b>
Kohler Model 2000ROZD-4 (Detroit engine) diesel engine-driven peak shave generator set rated at 2,935 bhp, (manuf. March 2001) (MACT ZZZZ)	1441 - 44th Street NW, Fargo	1	1	Catalytic Oxidizer
Kohler Power System, Model 1000 ROZM (Mitsubishi engine, Model S12H-PTA), diesel engine-driven peak shave generator set rated at 1,501 bhp (manuf. January 2001) (MACT ZZZZ)	4101 - 19th Avenue N, Fargo	2	2	Catalytic Oxidizer
Cummins Model 70GGHF (Ford engine, EPA Certified) natural gas engine-driven emergency generator set rated at 112 bhp (manuf. 2013) (NSPS JJJJ, MACT ZZZZ)	1750 NDSU Research Park Drive, Fargo	4 <sup>C</sup>	4	Electronic Air-Fuel ratio Control and Closed-loop Breather System
Gillette Model T4D-6000 liquid cooled diesel engine-driven peak shave generator rated at 932 bhp (manf. February 2001) (MACT ZZZZ)	1750 NDSU Research Park Drive, Fargo	5	5	Selective Catalytic Reduction, Ammonia Slip Catalyst
Two EPA Certified TWD1663GE diesel-fired Volvo Penta genset peak shave generators rated at 932 bhp (mauf. 2026) (NSPS IIII, MACT ZZZZ)	4101 19th Ave North, Fargo	6,7	6,7	Selective Catalytic Reduction, Ammonia Slip Catalyst

<sup>A</sup> All emission unit ratings are considered nominal ratings.

<sup>B</sup> Engines at the facility are located outside several different buildings.

<sup>C</sup> The potential to emit for an emergency stationary reciprocating internal combustion engine (RICE) is based on operating no more hours per year than is allowed by the subpart (40 CFR Subpart JJJJ and 40 CFR 63 Subpart ZZZZ) for other than emergency situations. For engines to be considered emergency stationary RICE under the RICE rules, engine operations must comply with the operating hour limits as specified in the applicable subpart(s). There is no time limit on the use of emergency stationary RICE in emergency situations.

## **1. Applicable Standards, Restrictions and Miscellaneous Conditions:**

### **A. New Source Performance Standards (NSPS):**

The permittee shall comply with all applicable requirements of the following NSPS subparts, in addition to Subpart A, as referenced in NDAC 33.1-15-12 and Title 40 of the Code of Federal Regulations (CFR) Part 60.

- 1) NSPS IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (EUs 6 & 7)

### **B. National Emissions Standards for Hazardous Air Pollutants (NESHAP) for Source Categories/Maximum Achievable Control Technology (MACT):**

The permittee shall comply with all applicable requirements of the following MACT subparts, in addition to Subpart A, as referenced in NDAC 33.1-15-22 and 40 CFR 63.

- 1) MACT ZZZZ – National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (EUs 6 & 7)

The Department has not adopted the area source provisions of this subpart. Please send all required reports and documentation to EPA Region 8.

### **C. Fuel Restrictions:**

- 1) The diesel generator engines (EUs 6 & 7) are restricted to combusting ultra-low sulfur diesel (ULSD) fuel containing no more than 0.0015 percent sulfur by weight (15 ppmw).

### **D. Operational Restrictions:**

Each diesel generator engine (EUs 6 & 7) shall operate no more than 500 hours per year on a 12-month rolling average basis. The hours of operation shall be measured by a meter on each engine. The total hours of operation shall be recorded monthly (per rolling 12-month period).

The owner/operator shall record the hours of operation on the first day of every month and determine the total hours of use during the previous 12-month period. Anytime the number of hours during the last 12-month period exceeds the allowable limit, the owner/operator shall notify the Department within 10 working days. The records regarding the number of hours of operation shall be kept on file (easily accessible format, electronic or otherwise) for five years and submitted to the Department upon request.

## **2. Emission Unit Limits:**

Emission limits from the operation of the source unit(s) identified in Table 1-1 of this PTC are as follows in Table 3-1. Source units not listed are subject to the applicable emission limits specified in NDAC 33.1-15.

Table 3-1: Summary of Permit Emission Limits

EU Description	EU	EP	Pollutant / Parameter	Emission Limit
Volvo diesel engines (932 bhp)	6,7	6,7	NSPS IIII	Per §60.4204
			Opacity	20% <sup>A</sup>
			Hours of Operation	500 hours (12-month rolling total)

<sup>A</sup> 40% opacity is permissible for not more than one six-minute period per hour.

### 3. Emission Testing Requirements:

There are no initial emissions testing requirements associated with this PTC. The Department reserves the right to conduct, require, and observe emission testing from the source at a reasonable time interval. The Department may reasonably require the permittee to quantify emissions of any contaminant not addressed in this PTC whenever it has reason to believe noncompliance or the emission of a non-addressed contaminant is occurring.

*Applicable requirement: NDAC 33.1-15-01-12*

### 4. General Conditions (Action Required):

#### A. Startup Notice:

A notification of the actual date of initial startup of the new diesel engines (EUs 6 & 7) shall be submitted to the Department within 15 days after the date of initial startup.

*Applicable requirement: NDAC 33.1-15-12*

#### B. Modification:

Any alteration, repair, expansion, or change in the method or physical operation of the source which results in the emission of an additional type or greater amount of air contaminants, or which results in an increase in the ambient concentration of any air contaminant is considered a modification and must be reviewed and approved by the Department before implementation. The Department shall be notified 10 days in advance of any significant deviations from the application. The issuance of this PTC may be suspended or revoked if the Department determines that a significant deviation has been or is to be made without the proper review or approval.

*Applicable requirement: NDAC 33.1-15-14-02.9.d*

C. Like-Kind Emission Unit Replacement:

This permit allows the permittee to replace an existing emission unit with a like-kind unit. Replacement is subject to the following conditions:

- 2) The replacement unit is subject to the same emission limits and performance testing requirements—both state and federal—as the existing unit. The facility must comply with any additional federal standards (e.g. NSPS, MACT) triggered by the replacement.
- 3) The Department must be notified within 10 days of replacement. The date of manufacture of the replacement unit and any additional federal applicability must be included in the notification.
- 4) The replacement unit shall operate in the same manner without increasing throughput and have equal or less emissions than the unit it is replacing.
- 5) Testing shall be conducted to confirm compliance with emission limits within 180 days after start-up of the replacement unit. Emergency units shall not be required to test if replaced by a like-kind unit.

*Applicable requirement: NDAC 33.1-15-14-02.9.d*

D. Annual Emission Inventory/Annual Production Reports:

The permittee shall submit an annual emission inventory report and/or an annual production report upon Department request on forms approved by the Department.

*Applicable requirement: NDAC 33.1-15-14-02.9.d*

E. Malfunction Notification:

The permittee shall notify the Department of any malfunction which can be expected to last longer than 24 hours and can cause the emission of air contaminants in violation of applicable rules and regulations. Using empirical estimates of emission rates, the permittee shall conservatively estimate if the malfunction can cause noncompliance.

*Applicable requirement: NDAC 33.1-15-01-13.2.a*

F. Transfer of Permit to Construct:

The holder of a PTC may not transfer such permit without prior approval from the Department.

*Applicable requirement: NDAC 33.1-15-14-02.11*

**5. General Conditions (Obligations):**

A. Construction:

This permit shall become invalid if installation of the new diesel engines (EUs 6 & 7) does not commence within 18 months after permit issuance, installation is discontinued for a period of 18

months or more, or installation is not completed within a reasonable time as determined by the Department. The Department may provide a time period greater than 18 months when such extension is supported by sufficient documentation from the applicant.

*Applicable requirement: NDAC 33.1-15-14-02.10.b.*

B. Operation:

Installation of the new diesel engines (EUs 6 & 7) and operation of the facility shall be in accordance with the permit application—which includes technical supplements, revisions, and supporting data. Any operations not listed in this permit are subject to all applicable NDAC 33.1-15 requirements. At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any affected facility—including associated air pollution control equipment—in a manner consistent with good practice for minimizing emissions.

*Applicable requirements: NDAC 33.1-15-12, NDAC 33.1-15-22*

C. Recordkeeping:

The permittee shall maintain any compliance monitoring records required by this permit or applicable requirements for a period of at least five years (unless otherwise stated) from the date of the monitoring sample, measurement, report or application. Support information may include all calibration and maintenance records, all original strip-chart recordings and computer printouts for continuous monitoring instrumentation, and copies of all reports required by the permit.

*Applicable requirements: NDAC 33.1-15-14-02.9.d*

D. Control of Organic Compound Emissions:

The permittee shall comply with all applicable requirements of NDAC 33.1-15-07, which establishes requirements for the construction of organic compound facilities related to closed-vent systems, control devices, and seals and for the control of VOC vapors using a continuously burning pilot flare or other equally effective control device.

E. Internal Combustion Engine Emissions Restricted:

The permittee shall comply with all applicable requirements of NDAC 33.1-15-08-01, which restricts the operation of internal combustion engines which emit, from any source, unreasonable and excessive smoke, obnoxious or noxious gas, fumes or vapor.

F. Restriction of Fugitive Emissions:

The release of fugitive emissions shall comply with the applicable requirements in NDAC 33.1-15-17, which restricts particulate matter and gaseous fugitive emissions that would violate other regulations.

G. Permit Invalidation:

This permit shall be effective from the date of its issuance unless suspended, revoked or surrendered. The violation of any condition of this permit may result in revocation or suspension of the permit or other appropriate enforcement action. If any provision or application of a provision of this permit is held invalid in any circumstance, the remainder of this permit shall remain valid.

*Applicable requirement: NDAC 33.1-15-14-02.9*

H. Nuisance or Danger:

This permit shall in no way authorize the maintenance of a nuisance or a danger to public health or safety.

*Applicable requirements: NDAC 33.1-15-02-03, NDAC 33.1-15-14-02.9.c*

I. Right of Entry:

Any duly authorized officer, employee, or agent of the Department may enter and inspect any property, premise, or place at which the source is located at any time for the purpose of ascertaining compliance with NDAC 33.1-15. The Department may inspect monitoring equipment, conduct tests, and take samples of air contaminants, fuel, processing material, and other materials, which affect or may affect the emission of air contaminants from any source. The Department shall have the right to access and copy any records required by the Department.

*Applicable requirement: NDAC 33.1-15-01-06, NDCC 23.1-06-11*

**6. State Enforceable Conditions (Not Federally Enforceable):**

A. Emissions of Odorous Substances Restricted:

The permittee shall not discharge into the ambient air any objectionable odorous air contaminant which measures seven odor concentration units or greater.

*Applicable requirement: NDAC 33.1-15-16*