

MEMO TO : File
John Deere Electronic Solutions, Inc. – Fargo ISG (John Deere)
Cass County, North Dakota

FROM : Corrianna Anderson
Environmental Engineer
Division of Air Quality
North Dakota Department of Environmental Quality (Department)

RE : June 4, 2026, Permit to Construct (PTC) (ACP-18336 v1.0)

DATE : June 4, 2026

John Deere Electronic Solutions, Inc. (John Deere) submitted a PTC application for a project at Fargo ISG (facility) to the Department on March 2, 2026. The facility currently operates under AOP-27866 v 5.0, which expires on June 5, 2030.

John Deere is planning to install a new twin generator set at the 4101 19th Ave N location of the facility. Both engines (EUs 6 & 7) will be diesel-fired Volvo Penta genset engines with a nominal rating of 932 bhp-hr each. These two new engines will be used to supply emergency back up and peak shaving during periods of high electricity demand.

The facility will remain a synthetic minor source. Facility Potential to Emit (PTE) did not change significantly; this is summarized in Table 1. Facility PTE is based on the federally enforceable emission restriction on the existing diesel engines (EUs 1, 2, & 5) and new diesel engines (EUs 6 & 7).

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For all emission units associated with the Project, Table 1 lists the potential to emit (PTE) for all criteria air pollutants. Table 1 abbreviations are as follows: total particulate matter (PM_{TOT}), sulfur dioxide (SO₂), oxides of nitrogen (NO_x), carbon monoxide (CO), and volatile organic compounds (VOCs).

Table 1 – Facility PTE Summary. All units are in tons per year (tpy).

Emission Unit Description	Emission Unit (EU)	Emission Point (EP)	NO_x	CO	SO₂	VOC	PM_{TOT}
Detroit diesel engine (2,935 bhp)	1	1	17.6	4.0	1.1	0.5	0.5
Mitsubishi diesel engine (1,501 bhp)	2	2	9.0	2.1	0.6	0.3	0.3
Cummins natural gas engine (112 bhp)	4	4	0.1	0.0	0.0	0.0	0.0
Gillette diesel engine (932 bhp)	5	5	1.5	1.8	0.4	2.5	0.1
Two Volvo diesel engines (932 bhp each)	6,7	6,7	0.6	2.7	0.0	0.2	0.1
Total (without Fugitives):			28.8	10.6	2.1	3.5	0.9
Total (with Fugitives):			28.8	10.6	2.1	3.5	0.9

The facility PTE remains below the Title V threshold of 100 tons per year for all pollutants and well below the PSD threshold of 250 tons per year for all pollutants.

This permit action incorporates the requested 500 hours per year limit on the existing diesel engines (EUs 1, 2 & 5) as well as the new diesel engines (EUs 6 & 7). The existing emergency diesel engines (EUs 1, 2 & 5) remain unchanged and previously went through public comment for the existing synthetic minor limits as a result of permit action ACP-18288 v1.0. The existing natural gas fired engine (EU 4) also remains unchanged. The new diesel engines (EUs 6 & 7) will undergo public comment to satisfy the public comment requirements for the federally enforceable limits on the new engines.

After a complete review of the proposed project indicating that the facility is expected to comply with applicable federal and state air pollution rules and regulations, the Department will make a recommendation on PTC issuance for the facility following the completion of a thirty-day public comment period. The public comment period will run from June 11, 2026, through July 11, 2026.

[CA]: RLS