

- i. The emissions of particulate matter into the atmosphere in any one hour period from the affected emission units shall not exceed the allowable emission rates specified in the following equation

$$E = A(P)^B$$

Where:

P = Process weight rate
E = Allowable emission rate

- 1. For process weight rates up to 408 Mg/hr (450 T/hr):

	<u>Metric</u>	<u>English</u>
P	Mg/hr	T/hr
E	kg/hr	lbs/hr
A	1.214	2.54
B	0.534	0.534

- 2. For process weight rates in excess of 408 Mg/hr (450 T/hr):

	<u>Metric</u>	<u>English</u>
P	Mg/hr	T/hr
E	kg/hr	lbs/hr
A	11.42	24.8
B	0.16	0.16

Where:

P = Process weight rate in metric or English tons per hour, and

E = Allowable emission rate in kilograms or pounds per hour. [35 IAC 212.321]

- c. This facility including the affected DTDC is subject to 40 CFR 63 Subpart GGGG, vegetable oil MACT standard.

4. Non-Applicability of Regulations of Concern

The Permittee has addressed the applicability and compliance of 40 CFR 52.21, PSD. The limits and other requirements of this permit ensure that the modifications addressed in this permit do not constitute a major modification as explained in more detail in Attachment 1.

5. Operational and Production Limits and Work Practices

The affected DTDC shall not exceed historic allowable throughput rates for the equipment which the affected DTDC replaces, as indicated in the above mentioned permit application. The Permittee shall maintain records as indicated in special condition 9 and any other data that may be necessary to demonstrate compliance with this limit.

6. Emission Limitations

- a. Emissions from the affected DTDC shall not exceed the following limits:

DTDC	Solvent Extraction Emissions	Emissions from Meal Drying and Cooing	
		PM	PM ₁₀
Pollutant	VOM		
Tons/Month	----	2.6	1.7
Tons/Year	616.5	26.6	17.3

VOM limits are based on 0.2 gallon/ton solvent loss rate (MACT standard), PM emissions are based on manufacturers recommended emission rate with a 15% safety factor.

- b. Compliance with annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months (running 12 month total).

7. Testing Requirements

N/A

8. Monitoring Requirements

N/A

9. Recordkeeping Requirements

The Permittee shall maintain records of the following items for the affected DTDC to demonstrate compliance with Conditions 5 and 6, pursuant to Section 39.5(7) (b) of the Act:

- a. Process weight rate as a percentage of historic value as indicated in permit application.
- b. Emissions of: PM, PM₁₀ and VOM in tons/month and tons/year.
- c. Solvent loss rate, gal/ton, to be calculated on a monthly basis from the sum of the data for the current month plus the preceding 11 months (running 12 month total).

10. Reporting Requirements

- a. The Permittee shall promptly notify the Illinois EPA, Compliance Section of noncompliance of an affected DTDC with the permit requirements, pursuant to Section 39.5(7)(f)(ii) of the Act. Reports shall describe the probable cause of such deviations, and any corrective actions or preventive measures taken.
- b. The Permittee shall notify the Illinois EPA, Compliance Section upon initial startup of the affected DTDC.

11. Operational Flexibility/Anticipated Operating Scenarios

The Permittee is allowed a period of 180 days from initial startup of the DTDC for a shakedown period after which they must commence recording production rate and solvent loss rate for the process.

12. Compliance Procedures

Compliance with the emission limits shall be based on the recordkeeping requirements in Condition 9 and the data in special condition 5.

If you have any questions on this, please call Kevin Smith at 217/782-2113.

Donald E. Sutton, P.E.
Manager, Permit Section
Division of Air Pollution Control

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cc: Region 2

Attachment 1

PSD Applicability

Table I - Past Actual Emissions (97-98 Average)
(Tons/Year)

VOM	PM	PM ₁₀
686.5	38.3	19.1

Table II - Future Potential Emissions (Tons/Year)

VOM	PM	PM ₁₀
602.3	26.6	17.3

Table III - Net Emissions Change From This Project (Tons/Year)

Table	VOM	PM	PM ₁₀
I	686.5	38.3	19.1
II	616.5	26.6	17.3
Total	- 70.0	- 11.7	- 1.8

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