

**OKLAHOMA DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION**

MEMORANDUM

January 7, 2026

TO: Lee Warden, P.E., Permits and Engineering Group Manager

THROUGH: Richard Kienlen, P.E., Engineering Manager, New Source Permits Section

THROUGH: Alexandria Mills, E.I., Engineering Section

FROM: Jennie Doan, E.I., Engineering Section, ROAT

SUBJECT: Evaluation of Permit Application No. **2025-0466-C**
Core Scientific, Inc.
Core Scientific MSK1 & MSK2 (SIC 7374/NAICS 518210)
Facility ID: 24887
Latitude: 35.69694°N, Longitude: 95.38558°W
Section 15, Township 14N, Range 18E, Muskogee County, Oklahoma
Directions: 1525 West Smith Ferry Road, Muskogee OK 74401

SECTION I. INTRODUCTION

Core Scientific, Inc.(Applicant) has applied for an individual minor source construction permit for their Core Scientific MSK1 & MSK2 facility. This facility will be a newly constructed facility.

Facility-wide potential emissions are estimated to be 1,384.01 TPY of NO_x, 94.90 TPY of CO, 29.32 TPY of VOC, 13.15 TPY of PM₁₀, and 0.92 TPY HAPs. However, the facility requested facility-wide cap limits under a major source threshold of 100 TPY for regulated pollutants and the HAP emissions are below the 10 TPY threshold for a single HAP and below the 25 TPY threshold for any combination of HAPs. This facility, therefore, qualifies for a “synthetic minor” permit.

SECTION II. PROCESS DESCRIPTION

The facility is a data center that engages in processing and storing data and application on servers. Emissions sources at the site will include 102 diesel-fired emergency generators and associated diesel belly tanks, which will provide backup power to the facility in case of an emergency.

SECTION III. EQUIPMENT

The following is a list of current equipment at this facility.

EU	Description	Size/Rating	Manufacturing/ Const. Date
GEN-PF-1A-01	Cummins C3000D6EB	3,391-HP	8/2025
GEN-PF-1A-02	Cummins C3000D6EB	3,391-HP	8/2025
GEN-PF-1A-03	Cummins C3000D6EB	3,391-HP	8/2025
GEN-PF-1A-04	Cummins C3000D6EB	3,391-HP	9/2025
GEN-PF-1A-05	Cummins C3000D6EB	3,391-HP	9/2025
GEN-PF-1A-06	Cummins C3000D6EB	3,391-HP	9/2025
GEN-PF-1A-07	Cummins C3000D6EB	3,391-HP	9/2025
GEN-PF-1A-08	Cummins C3000D6EB	3,391-HP	9/2025
GEN-PF-1A-09	Cummins C3000D6EB	3,391-HP	9/2025
GEN-PF-1A-10	Cummins C3000D6EB	3,391-HP	9/2025
GEN-PF-1A-11	Cummins C3000D6EB	3,391-HP	9/2025
GEN-PF-1A-12	Cummins C3000D6EB	3,391-HP	9/2025
GEN-PF-1A-13	Cummins C3000D6EB	3,391-HP	9/2025
GEN-PF-1A-14	Cummins C3000D6EB	3,391-HP	10/2025
GEN-PF-1B-01	Cummins C3000D6EB	3,391-HP	10/2025
GEN-PF-1B-02	Cummins C3000D6EB	3,391-HP	10/2025
GEN-PF-1B-03	Cummins C3000D6EB	3,391-HP	10/2025
GEN-PF-1B-04	Cummins C3000D6EB	3,391-HP	10/2025
GEN-PF-1B-05	Cummins C3000D6EB	3,391-HP	10/2025
GEN-PF-1B-06	Cummins C3000D6EB	3,391-HP	10/2025
GEN-PF-1B-07	Cummins C3000D6EB	3,391-HP	10/2025
GEN-PF-1B-08	MTU 20V400G94S DS3000	4,680-HP	2/2025
GEN-PF-1B-09	MTU 20V400G94S DS3000	4,680-HP	8/2025
GEN-PF-1B-10	MTU 20V400G94S DS3000	4,680-HP	8/2025
GEN-PF-1B-11	MTU 20V400G94S DS3000	4,680-HP	8/2025
GEN-PF-1B-12	MTU 20V400G94S DS3000	4,680-HP	8/2025
GEN-PF-1B-13	MTU 20V400G94S DS3000	4,680-HP	2/2025
GEN-PF-1B-14	MTU 20V400G94S DS3000	4,680-HP	2/2025
GEN-PF-1C-01	MTU 20V400G94S DS3000	4,680-HP	2/2025
GEN-PF-1C-02	MTU 20V400G94S DS3000	4,680-HP	2/2025
GEN-PF-1C-03	MTU 20V400G94S DS3000	4,680-HP	2/2025
GEN-PF-1C-04	MTU 20V400G94S DS3000	4,680-HP	2/2025
GEN-PF-1C-05	MTU 20V400G94S DS3000	4,680-HP	3/2025
GEN-PF-1C-06	MTU 20V400G94S DS3000	4,680-HP	3/2025
GEN-PF-1C-07	MTU 20V400G94S DS3000	4,680-HP	4/2025
GEN-PF-1C-08	MTU 20V400G94S DS3000	4,680-HP	4/2025
GEN-MB-1A-01	MTU 20V400G94S DS3000	4,680-HP	8/2025
GEN-MB-1A-02	MTU 20V400G94S DS3000	4,680-HP	8/2025
GEN-MB-1A-03	MTU 20V400G94S DS3000	4,680-HP	8/2025
GEN-MB-1A-04	MTU 20V400G94S DS3000	4,680-HP	5/2025
GEN-MB-1A-05	MTU 20V400G94S DS3000	4,680-HP	5/2025
GEN-MB-1A-06	MTU 20V400G94S DS3000	4,680-HP	5/2025

EU	Description	Size/Rating	Manufacturing/ Const. Date
GEN-MB-1A-07	MTU 20V400G94S DS3000	4,680-HP	5/2025
GEN-MF-1A-01	MTU 20V400G94S DS3000	4,680-HP	6/2025
GEN-MF-1A-02	MTU 20V400G94S DS3000	4,680-HP	6/2025
GEN-MF-1A-03	MTU 20V400G94S DS3000	4,680-HP	6/2025
GEN-MF-1A-04	MTU 20V400G94S DS3000	4,680-HP	6/2025
GEN-MF-1A-05	MTU 20V400G94S DS3000	4,680-HP	7/2025
GEN-MF-1A-06	MTU 20V400G94S DS3000	4,680-HP	7/2025
GEN-MF-1A-07	MTU 20V400G94S DS3000	4,680-HP	7/2025
GEN-AD-A	CAT D1000 GC	1,483-HP	TBD
GEN-PF-2A-01	Cummins C3000D6EB	3,391-HP	TBD
GEN-PF-2A-02	Cummins C3000D6EB	3,391-HP	TBD
GEN-PF-2A-03	Cummins C3000D6EB	3,391-HP	TBD
GEN-PF-2A-04	Cummins C3000D6EB	3,391-HP	TBD
GEN-PF-2A-05	Cummins C3000D6EB	3,391-HP	TBD
GEN-PF-2A-06	Cummins C3000D6EB	3,391-HP	TBD
GEN-PF-2A-07	Cummins C3000D6EB	3,391-HP	TBD
GEN-PF-2A-08	Cummins C3000D6EB	3,391-HP	TBD
GEN-PF-2A-09	Cummins C3000D6EB	3,391-HP	TBD
GEN-PF-2A-10	Cummins C3000D6EB	3,391-HP	TBD
GEN-PF-2A-11	Cummins C3000D6EB	3,391-HP	TBD
GEN-PF-2A-12	Cummins C3000D6EB	3,391-HP	TBD
GEN-PF-2A-13	Cummins C3000D6EB	3,391-HP	TBD
GEN-PF-2A-14	Cummins C3000D6EB	3,391-HP	TBD
GEN-PF-2B-01	Cummins C3000D6EB	3,391-HP	TBD
GEN-PF-2B-02	Cummins C3000D6EB	3,391-HP	TBD
GEN-PF-2B-03	Cummins C3000D6EB	3,391-HP	TBD
GEN-PF-2B-04	Cummins C3000D6EB	3,391-HP	TBD
GEN-PF-2B-05	Cummins C3000D6EB	3,391-HP	TBD
GEN-PF-2B-06	Cummins C3000D6EB	3,391-HP	TBD
GEN-PF-2B-07	Cummins C3000D6EB	3,391-HP	TBD
GEN-PF-2B-08	Cummins C3000D6EB	3,391-HP	TBD
GEN-PF-2B-09	Cummins C3000D6EB	3,391-HP	TBD
GEN-PF-2B-10	Cummins C3000D6EB	3,391-HP	TBD
GEN-PF-2B-11	Cummins C3000D6EB	3,391-HP	TBD
GEN-PF-2B-12	Cummins C3000D6EB	3,391-HP	TBD
GEN-PF-2B-13	Cummins C3000D6EB	3,391-HP	TBD
GEN-PF-2B-14	Cummins C3000D6EB	3,391-HP	TBD
GEN-MB-2A-01	Cummins C3000D6EB	3,391-HP	TBD
GEN-MB-2A-02	Cummins C3000D6EB	3,391-HP	TBD
GEN-MB-2A-03	Cummins C3000D6EB	3,391-HP	TBD
GEN-MB-2A-04	Cummins C3000D6EB	3,391-HP	TBD
GEN-MB-2A-05	Cummins C3000D6EB	3,391-HP	TBD

EU	Description	Size/Rating	Manufacturing/ Const. Date
GEN-MB-2A-06	Cummins C3000D6EB	3,391-HP	TBD
GEN-MB-2A-07	Cummins C3000D6EB	3,391-HP	TBD
GEN-MF-2A-01	Cummins C3000D6EB	3,391-HP	TBD
GEN-MF-2A-02	Cummins C3000D6EB	3,391-HP	TBD
GEN-MF-2A-03	Cummins C3000D6EB	3,391-HP	TBD
GEN-MF-2A-04	Cummins C3000D6EB	3,391-HP	TBD
GEN-MF-2A-05	Cummins C3000D6EB	3,391-HP	TBD
GEN-MF-2A-06	Cummins C3000D6EB	3,391-HP	TBD
GEN-MF-2A-07	Cummins C3000D6EB	3,391-HP	TBD
GEN-PF-2C-01	Cummins C3000D6EB	3,391-HP	TBD
GEN-PF-2C-02	Cummins C3000D6EB	3,391-HP	TBD
GEN-PF-2C-03	Cummins C3000D6EB	3,391-HP	TBD
GEN-PF-2C-04	Cummins C3000D6EB	3,391-HP	TBD
GEN-PF-2C-05	Cummins C3000D6EB	3,391-HP	TBD
GEN-PF-2C-06	Cummins C3000D6EB	3,391-HP	TBD
GEN-PF-2C-07	Cummins C3000D6EB	3,391-HP	TBD
GEN-PF-2C-08	Cummins C3000D6EB	3,391-HP	TBD
GEN-AD-B	CAT D1000GC	1,483-HP	TBD
TANK-PF-1A-01	Cummins C3000D6EB Belly Tank	4,015-gal	8/2025
TANK -PF-1A-02	Cummins C3000D6EB Belly Tank	4,015-gal	8/2025
TANK -PF-1A-03	Cummins C3000D6EB Belly Tank	4,015-gal	8/2025
TANK -PF-1A-04	Cummins C3000D6EB Belly Tank	4,015-gal	8/2025
TANK -PF-1A-05	Cummins C3000D6EB Belly Tank	4,015-gal	8/2025
TANK -PF-1A-06	Cummins C3000D6EB Belly Tank	4,015-gal	8/2025
TANK -PF-1A-07	Cummins C3000D6EB Belly Tank	4,015-gal	8/2025
TANK -PF-1A-08	Cummins C3000D6EB Belly Tank	4,015-gal	8/2025
TANK -PF-1A-09	Cummins C3000D6EB Belly Tank	4,015-gal	8/2025
TANK -PF-1A-10	Cummins C3000D6EB Belly Tank	4,015-gal	8/2025
TANK -PF-1A-11	Cummins C3000D6EB Belly Tank	4,015-gal	8/2025
TANK -PF-1A-12	Cummins C3000D6EB Belly Tank	4,015-gal	8/2025
TANK -PF-1A-13	Cummins C3000D6EB Belly Tank	4,015-gal	8/2025
TANK -PF-1A-14	Cummins C3000D6EB Belly Tank	4,015-gal	8/2025
TANK -PF-1B-01	Cummins C3000D6EB Belly Tank	4,015-gal	8/2025
TANK -PF-1B-02	Cummins C3000D6EB Belly Tank	4,015-gal	8/2025
TANK -PF-1B-03	Cummins C3000D6EB Belly Tank	4,015-gal	8/2025
TANK -PF-1B-04	Cummins C3000D6EB Belly Tank	4,015-gal	8/2025
TANK -PF-1B-05	Cummins C3000D6EB Belly Tank	4,015-gal	8/2025
TANK -PF-1B-06	Cummins C3000D6EB Belly Tank	4,015-gal	8/2025
TANK-PF-1B-07	Cummins C3000D6EB Belly Tank	4,015-gal	8/2025
TANK-PF-1B-08	MTU 20V400G94S DS3000 Belly Tank	4,968-gal	8/2025
TANK-PF-1B-09	MTU 20V400G94S DS3000 Belly Tank	4,968-gal	8/2025
TANK-PF-1B-10	MTU 20V400G94S DS3000 Belly Tank	4,968-gal	8/2025

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TANK-PF-1B-11	MTU 20V400G94S DS3000 Belly Tank	4,968-gal	8/2025
TANK-PF-1B-12	MTU 20V400G94S DS3000 Belly Tank	4,968-gal	8/2025
TANK-PF-1B-13	MTU 20V400G94S DS3000 Belly Tank	4,968-gal	8/2025
TANK-PF-1B-14	MTU 20V400G94S DS3000 Belly Tank	4,968-gal	8/2025
TANK-PF-1C-01	MTU 20V400G94S DS3000 Belly Tank	4,968-gal	8/2025
TANK-PF-1C-02	MTU 20V400G94S DS3000 Belly Tank	4,968-gal	8/2025
TANK-PF-1C-03	MTU 20V400G94S DS3000 Belly Tank	4,968-gal	8/2025
TANK-PF-1C-04	MTU 20V400G94S DS3000 Belly Tank	4,968-gal	8/2025
TANK-PF-1C-05	MTU 20V400G94S DS3000 Belly Tank	4,968-gal	8/2025
TANK-PF-1C-06	MTU 20V400G94S DS3000 Belly Tank	4,968-gal	8/2025
TANK-PF-1C-07	MTU 20V400G94S DS3000 Belly Tank	4,968-gal	8/2025
TANK-PF-1C-08	MTU 20V400G94S DS3000 Belly Tank	4,968-gal	8/2025
TANK-MB-1A-01	MTU 20V400G94S DS3000 Belly Tank	4,968-gal	8/2025
TANK-MB-1A-02	MTU 20V400G94S DS3000 Belly Tank	4,968-gal	8/2025
TANK-MB-1A-03	MTU 20V400G94S DS3000 Belly Tank	4,968-gal	8/2025
TANK-MB-1A-04	MTU 20V400G94S DS3000 Belly Tank	4,968-gal	8/2025
TANK-MB-1A-05	MTU 20V400G94S DS3000 Belly Tank	4,968-gal	8/2025
TANK-MB-1A-06	MTU 20V400G94S DS3000 Belly Tank	4,968-gal	8/2025
TANK-MB-1A-07	MTU 20V400G94S DS3000 Belly Tank	4,968-gal	8/2025
TANK-MF-1A-01	MTU 20V400G94S DS3000 Belly Tank	4,968-gal	8/2025
TANK-MF-1A-02	MTU 20V400G94S DS3000 Belly Tank	4,968-gal	8/2025
TANK-MF-1A-03	MTU 20V400G94S DS3000 Belly Tank	4,968-gal	8/2025
TANK-MF-1A-04	MTU 20V400G94S DS3000 Belly Tank	4,968-gal	8/2025
TANK-MF-1A-05	MTU 20V400G94S DS3000 Belly Tank	4,968-gal	8/2025
TANK-MF-1A-06	MTU 20V400G94S DS3000 Belly Tank	4,968-gal	8/2025
TANK-MF-1A-07	MTU 20V400G94S DS3000 Belly Tank	4,968-gal	8/2025
TANK-AD-A	CAT D1000 GC Belly Tank	2,100-gal	8/2025
TANK-PF-2A-01	Cummins C3000D6EB Belly Tank	4,015-gal	TBD
TANK-PF-2A-02	Cummins C3000D6EB Belly Tank	4,015-gal	TBD
TANK-PF-2A-03	Cummins C3000D6EB Belly Tank	4,015-gal	TBD
TANK-PF-2A-04	Cummins C3000D6EB Belly Tank	4,015-gal	TBD
TANK-PF-2A-05	Cummins C3000D6EB Belly Tank	4,015-gal	TBD
TANK-PF-2A-06	Cummins C3000D6EB Belly Tank	4,015-gal	TBD
TANK-PF-2A-07	Cummins C3000D6EB Belly Tank	4,015-gal	TBD
TANK-PF-2A-08	Cummins C3000D6EB Belly Tank	4,015-gal	TBD
TANK-PF-2A-09	Cummins C3000D6EB Belly Tank	4,015-gal	TBD
TANK-PF-2A-10	Cummins C3000D6EB Belly Tank	4,015-gal	TBD
TANK-PF-2A-11	Cummins C3000D6EB Belly Tank	4,015-gal	TBD
TANK-PF-2A-12	Cummins C3000D6EB Belly Tank	4,015-gal	TBD
TANK-PF-2A-13	Cummins C3000D6EB Belly Tank	4,015-gal	TBD
TANK-PF-2A-14	Cummins C3000D6EB Belly Tank	4,015-gal	TBD
TANK-PF-2B-01	Cummins C3000D6EB Belly Tank	4,015-gal	TBD

EU	Description	Size/Rating	Manufacturing/ Const. Date
TANK-PF-2B-02	Cummins C3000D6EB Belly Tank	4,015-gal	TBD
TANK-PF-2B-03	Cummins C3000D6EB Belly Tank	4,015-gal	TBD
TANK-PF-2B-04	Cummins C3000D6EB Belly Tank	4,015-gal	TBD
TANK-PF-2B-05	Cummins C3000D6EB Belly Tank	4,015-gal	TBD
TANK-PF-2B-06	Cummins C3000D6EB Belly Tank	4,015-gal	TBD
TANK-PF-2B-07	Cummins C3000D6EB Belly Tank	4,015-gal	TBD
TANK-PF-2B-08	Cummins C3000D6EB Belly Tank	4,015-gal	TBD
TANK-PF-2B-09	Cummins C3000D6EB Belly Tank	4,015-gal	TBD
TANK-PF-2B-10	Cummins C3000D6EB Belly Tank	4,015-gal	TBD
TANK-PF-2B-11	Cummins C3000D6EB Belly Tank	4,015-gal	TBD
TANK-PF-2B-12	Cummins C3000D6EB Belly Tank	4,015-gal	TBD
TANK-PF-2B-13	Cummins C3000D6EB Belly Tank	4,015-gal	TBD
TANK-PF-2B-14	Cummins C3000D6EB Belly Tank	4,015-gal	TBD
TANK-MB-2A-01	Cummins C3000D6EB Belly Tank	4,015-gal	TBD
TANK-MB-2A-02	Cummins C3000D6EB Belly Tank	4,015-gal	TBD
TANK-MB-2A-03	Cummins C3000D6EB Belly Tank	4,015-gal	TBD
TANK-MB-2A-04	Cummins C3000D6EB Belly Tank	4,015-gal	TBD
TANK-MB-2A-05	Cummins C3000D6EB Belly Tank	4,015-gal	TBD
TANK-MB-2A-06	Cummins C3000D6EB Belly Tank	4,015-gal	TBD
TANK-MB-2A-07	Cummins C3000D6EB Belly Tank	4,015-gal	TBD
TANK-MF-2A-01	Cummins C3000D6EB Belly Tank	4,015-gal	TBD
TANK-MF-2A-02	Cummins C3000D6EB Belly Tank	4,015-gal	TBD
TANK-MF-2A-03	Cummins C3000D6EB Belly Tank	4,015-gal	TBD
TANK-MF-2A-04	Cummins C3000D6EB Belly Tank	4,015-gal	TBD
TANK-MF-2A-05	Cummins C3000D6EB Belly Tank	4,015-gal	TBD
TANK-MF-2A-06	Cummins C3000D6EB Belly Tank	4,015-gal	TBD
TANK-MF-2A-07	Cummins C3000D6EB Belly Tank	4,015-gal	TBD
TANK-PF-2C-01	Cummins C3000D6EB Belly Tank	4,015-gal	TBD
TANK-PF-2C-02	Cummins C3000D6EB Belly Tank	4,015-gal	TBD
TANK-PF-2C-03	Cummins C3000D6EB Belly Tank	4,015-gal	TBD
TANK-PF-2C-04	Cummins C3000D6EB Belly Tank	4,015-gal	TBD
TANK-PF-2C-05	Cummins C3000D6EB Belly Tank	4,015-gal	TBD
TANK-PF-2C-06	Cummins C3000D6EB Belly Tank	4,015-gal	TBD
TANK-PF-2C-07	Cummins C3000D6EB Belly Tank	4,015-gal	TBD
TANK-PF-2C-08	Cummins C3000D6EB Belly Tank	4,015-gal	TBD
TANK-AD-B	CAT D1000GC Belly Tank	2,100-gal	TBD

SECTION IV. EMISSIONS

Unless otherwise stated emissions are based on 8,760 hours per year (hr/yr) of operation.

ENGINES

For the diesel-fired emergency engines, the emission factors for NO_x, CO, and VOC are obtained from manufacturer data with the assumption that engines operate at 100% load. The emission factors for formaldehyde and other HAPs are obtained from AP-42 (4/25), Tables 3.4-2 and 3.4-3. PM₁₀ emissions are based on the sum of filterable PM₁₀, which is estimated using manufacturer data, and condensable PM, which is based on AP-42 (4/25), Section 3.4, Table 3.4-2. SO₂ emissions are based on maximum allowable sulfur content of 0.0015% by weight. Engine emissions are based on 500 hr/yr.

Engine Operating Parameters

Parameter	MTU Engine	Cummins Engine	CAT D1000GC Engine
Capacity, HP (kW)	4,680 (3,490)	3,391	1,483
Fuel Consumption, MMBTUH	30.6	25.2	9.8
No. of Engines	29	71	2

Engine Emission Factors

Pollutant	MTU Engine	Cummins Engine	CAT D1000GC Engine
NO _x	8.03 g/kW-hr ⁽¹⁾	6.99 g/hp-hr ⁽¹⁾	5.97 g/hp-hr ⁽¹⁾
CO	1.22 g/kW-hr ⁽¹⁾	0.20 g/hp-hr ⁽¹⁾	0.24 g/hp-hr ⁽¹⁾
VOC	0.24 g/kW-hr ⁽¹⁾	0.12 g/hp-hr ⁽¹⁾	0.02g/hp-hr ⁽¹⁾
Filterable PM ₁₀	0.094 g/kW-hr ⁽¹⁾	0.02 g/hp-hr ⁽¹⁾	0.04 g/hp-hr ⁽¹⁾
Condensable PM ₁₀	7.70E-03 lb/MMBTU	7.70E-03 lb/MMBTU	7.70E-03 lb/MMBTU
SO ₂	1.52E-03 lb/MMBTU	1.52E-03 lb/MMBTU	1.52E-03 lb/MMBTU
HAP			
Acetaldehyde	2.52E-05 lb/MMBTU	2.52E-05 lb/MMBTU	2.52E-05 lb/MMBTU
Acrolein	7.88E-06lb/MMBTU	7.88E-06lb/MMBTU	7.88E-06lb/MMBTU
Benzene	7.76E-04 lb/MMBTU	7.76E-04 lb/MMBTU	7.76E-04 lb/MMBTU
H ₂ CO	7.89E-05 lb/MMBTU	7.89E-05 lb/MMBTU	7.89E-05 lb/MMBTU
Toluene	2.81E-04 lb/MMBTU	2.81E-04 lb/MMBTU	2.81E-04 lb/MMBTU
Xylene	1.93E-04 lb/MMBTU	1.93E-04 lb/MMBTU	1.93E-04 lb/MMBTU

⁽¹⁾ These emission factors are based on 100% load data from the manufacturer specification.

Engine Emissions (per engine)

Pollutant	MTU Engine		Cummins Engine		CAT D1000GC Engine	
	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
NO _x	61.73	15.43	52.21	13.05	19.50	4.88

Pollutant	MTU Engine		Cummins Engine		CAT D1000GC Engine	
	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
CO	9.38	2.34	1.49	0.37	0.78	0.20
VOC	1.84	0.46	0.90	0.22	0.07	0.02
PM ₁₀	0.96	0.24	0.34	0.09	0.21	0.05
SO ₂	4.65E-02	1.16E-02	3.83E-02	9.58E-03	1.49E-02	3.72E-03
HAP						
Acetaldehyde	7.71E-04	1.93E-04	6.35E-04	1.59E-04	2.47E-04	6.17E-05
Acrolein	2.41E-04	6.03E-05	1.99E-04	4.96E-05	7.72E-05	1.93E-05
Benzene	2.37E-02	5.94E-03	1.96E-02	4.89E-03	7.60E-03	1.90E-03
H ₂ CO	2.41E-03	6.04E-04	1.99E-03	4.97E-04	7.73E-04	1.93E-04
Toluene	8.60E-03	2.15E-03	7.08E-03	1.77E-03	2.75E-03	6.88E-04
Xylene	5.91E-03	1.48E-03	4.86E-03	1.22E-03	1.89E-03	4.73E-04

Total Engine Emissions

Pollutant	MTU Engines	Cummins Engines	CAT D1000GC Engines	Total Emissions
	TPY	TPY	TPY	TPY
NO _x	447.53	926.72	9.76	1,384.01
CO	67.99	26.52	0.39	94.90
VOC	13.38	15.91	0.03	29.32
PM ₁₀	6.95	6.10	0.10	13.15
SO ₂	0.34	0.68	7.45E-03	1.02
HAP				
Acetaldehyde	0.01	0.01	1.23E-04	0.02
Acrolein	1.75E-03	3.52E-03	3.86E-05	0.01
Benzene	0.17	0.35	3.80E-03	0.52
H ₂ CO	0.02	0.04	3.87E-04	0.05
Toluene	0.06	0.13	1.38E-03	0.19
Xylene	0.04	0.09	9.46E-04	0.13

TANKS

Working and breathing emissions from the diesel belly tanks are estimated using US EPA's TANKS5.1 and the listed throughput.

Tank Emissions

Parameter	Cummins Tanks Data	MTU Tanks Data	CAT Tanks Data
No. of Tanks	29	71	2
Tank Capacity, gal	4,015	4,968	2,100
Throughput, gal/year	5,781	7,014	2,246
Contents	Petroleum Liquid	Petroleum Liquid	Petroleum Liquid
Working/Breathing Method/Tool	EPA TANKS5.1	EPA TANKS5.1	EPA TANKS5.1
Control Type	None	None	None

Parameter	Cummins Tanks Data	MTU Tanks Data	CAT Tanks Data
Working VOC Emissions per Tank, TPY	7.70E-04	3.50E-04	4.15E-04
Breathing VOC Emissions per Tank, TPY	8.00E-05	7.50E-05	3.00E-05
W/B VOC Emissions per Tank, TPY	8.50E-04	4.25E-04	4.45E-04
Total VOC Emissions, TPY	0.06		

FACILITY-WIDE EMISSIONS

EU	Description	NO _x	CO	VOC	PM ₁₀	SO ₂	HAP
		TPY	TPY	TPY	TPY	TPY	TPY
Engines	102 Emergency Engines	1,384.01	94.90	29.32	13.15	1.02	0.92
Tanks	102 Diesel Tanks	-	-	0.06	-	-	-
Total Emissions, TPY		1,384.01	94.90	29.38	13.15	1.02	0.92
Requested Emission Limits ^{(1), (2)}		99.0	92.8	32.0	12.4	--	0.14

⁽¹⁾ The facility has requested a facility-wide cap on NO_x, CO, VOC, PM₁₀, and HAPs. The facility will limit the hours of operation of the equipment to ensure compliance with the cap.

⁽²⁾ Compliance with the NO_x, CO, and VOC cap shall be demonstrated by using the manufacturer's emission factors at various loads (i.e., 10, 25, 50, 75, 100%) times the hours of operation. Compliance with the PM₁₀ and HAPs cap shall be demonstrated by using AP-42 factors at 100% load times the hours of operation.

HAP EMISSIONS

HAP Pollutant	Emissions, TPY
Acetaldehyde	0.02
Acrolein	0.01
Benzene	0.52
H ₂ CO	0.05
Toluene	0.19
Xylene	0.13
Totals	0.92

The total HAP emissions from the equipment at the facility are 0.92 TPY. Therefore, the individual and the total emissions of HAPs do not exceed the major source thresholds of 10/25 TPY.

SECTION V. OKLAHOMA AIR POLLUTION CONTROL RULES

OAC 252:100-1 (General Provisions)

[Applicable]

Subchapter 1 includes definitions but there are no regulatory requirements.

OAC 252:100-2 (Incorporation by Reference)

[Applicable]

This subchapter incorporates by reference applicable provisions of Title 40 of the Code of Federal Regulations. These requirements are addressed in the "Federal Regulations" section.

OAC 252:100-3 (Air Quality Standards and Increments) [Applicable]
 Primary Standards are in Appendix E and Secondary Standards are in Appendix F of the Air Pollution Control Rules. At this time, all of Oklahoma is in attainment of these standards.

OAC 252:100-5 (Registration, Emissions Inventory and Annual Operating Fees) [Applicable]
 Subchapter 5 requires sources of air contaminants to register with Air Quality, file emission inventories annually, and pay annual operating fees based upon total annual emissions of regulated pollutants. The owner/operator will be required to submit emissions inventories and pay the appropriate fees.

OAC 252:100-7 (Permits for Minor Facilities) [Applicable]
 Subchapter 7 sets forth the permit application fees and the basic substantive requirements of permits for minor facilities. Since criteria pollutant emissions are less than 100 TPY for each pollutant, and emissions of HAP will not exceed 10 TPY for any one HAP, or 25 TPY for any aggregate of HAP, the facility is defined as a synthetic minor source.

OAC 252:100-9 (Excess Emissions Reporting Requirements) [Applicable]
 Except as provided in OAC 252:100-9-7(a)(1), the owner or operator of a source of excess emissions shall notify the Director as soon as possible but no later than 4:30 p.m. the following working day of the first occurrence of excess emissions in each excess emission event. No later than thirty (30) calendar days after the start of any excess emission event, the owner or operator of an air contaminant source from which excess emissions have occurred shall submit a report for each excess emission event describing the extent of the event and the actions taken by the owner or operator of the facility in response to this event. Request for mitigation, as described in OAC 252:100-9-8, shall be included in the excess emission event report. Additional reporting may be required in the case of ongoing emission events and in the case of excess emissions reporting required by 40 CFR Parts 60, 61, or 63.

OAC 252:100-13 (Open Burning) [Applicable]
 Open burning of refuse and other combustible material is prohibited except as authorized in the specific examples and under the conditions listed in this subchapter.

OAC 252:100-19 (Particulate Matter (PM)) [Not Applicable]
 Section 19-4 regulates emissions of PM from new and existing fuel-burning equipment, with emission limits based on maximum design heat input rating. Fuel-burning equipment is defined in OAC 252:100-19 as any internal combustion engine or gas turbine, or other combustion device used to convert the combustion of fuel into usable energy. Appendix C specifies a PM emission limitation of 0.60 lb/MMBTU for all equipment at this facility with a heat input rating of 10 Million BTU per hour (MMBTUH) or less. For equipment with rated heat input greater than 10 but less than 1000 MMBTUH, the PM limit is calculated using the equation from OAC 252:100 Appendix C, which is listed below.

$$E = 1.0428080X^{(-0.238561)}$$

All engines at this facility are uncontrolled diesel-fired engines. AP-42 (4/25), Section 3.4, Table 3.4-2 lists the total PM emissions to be 0.07 lb/MMBtu for large uncontrolled diesel-fired industrial

engines. Based on the potential PM factor, these engines are not expected to exceed the Appendix C PM limit. These engines are in compliance with this section. The permit requires the use of diesel fuel that meets the requirements of 40 CFR §1090.305.

EU	Description	Maximum Heat Input	Appendix C PM Limit	Potential PM
		MMBTUH	lb/MMBTU	lb/MMBTU
Engines	MTU Engine (each)	30.60	0.46	0.07
	Cummins Engine (each)	25.20	0.48	0.07
	CAT D1000GC Engine (each)	9.80	0.60	0.07

OAC 252:100-25 (Visible Emissions and Particulates) [Applicable]

No discharge of greater than 20% opacity is allowed except for short-term occurrences that consist of not more than one six-minute period in any consecutive 60 minutes, not to exceed three such periods in any consecutive 24 hours. In no case shall the average of any six-minute period exceed 60% opacity. Units subject to an opacity limit promulgated under section 111 of the Federal Clean Air Act are exempt from this section. The diesel-fired emergency generators are subject to the smoke opacity standards in 40 CFR §1039.105, therefore, all engines are exempt from this section.

OAC 252:100-29 (Fugitive Dust) [Applicable]

No person shall cause or permit the discharge of any visible fugitive dust emissions beyond the property line on which the emissions originate in such a manner as to damage or to interfere with the use of adjacent properties, or cause air quality standards to be exceeded, or interfere with the maintenance of air quality standards. Under normal operating conditions, this facility will not cause a problem in this area, therefore it is not necessary to require specific precautions to be taken.

OAC 252:100-31 (Sulfur Compounds) [Applicable]

Part 2 limits the ambient air concentration of hydrogen sulfide (H₂S) emissions from any facility to 0.2 ppm (24-hour average) at standard conditions which is equivalent to 283 µg/m³. Fuel-burning equipment fired with pipeline natural gas will not have the potential to exceed the H₂S ambient air concentration limit. The diesel-fired engines are required to use diesel with a maximum sulfur content of 0.05% sulfur by weight.

Part 5 limits sulfur dioxide emissions from new fuel-burning equipment (constructed after July 1, 1972). For gaseous fuels the limit is 0.2 lb/MMBTU heat input, 3-hour average. For liquid fuels the limit is 0.8 lb/MMBTU. The diesel-fired emergency generators will use a fuel with a maximum sulfur content of 15 ppmw. This fuel will produce emissions of <0.01 lb/MMBTU. Therefore, the emergency generators are in compliance with this part.

OAC 252:100-33 (Nitrogen Oxides) [Not Applicable]

This subchapter limits NO_x emissions from new fuel-burning equipment with rated heat input greater than or equal to 50 MMBTUH to emissions of 0.2 lb of NO_x per MMBTU. None of the engines at this facility have heat input greater than or equal to 50 MMBTUH.

OAC 252:100-35 (Carbon Monoxide)

[Not Applicable]

None of the following affected processes are located at this facility: gray iron cupola, blast furnace, basic oxygen furnace, petroleum catalytic cracking unit, or petroleum catalytic reforming unit. There are no affected sources.

OAC 252:100-37 (Volatile Organic Compounds)

[Applicable]

Part 3 requires storage tanks constructed after December 28, 1974, with a capacity of 400 gallons or more and storing VOC with a vapor pressure above 1.5 psia to be equipped with a permanent submerged fill pipe or with an organic vapor recovery system. All tanks at this facility store petroleum liquid (diesel) that has vapor pressure less than 0.01 psia. Therefore, these tanks are not required to have submerged fill pipe, and thus, this facility is in compliance with this subchapter.

Part 3 requires loading facilities with a throughput equal to or less than 40,000 gallons per day to be equipped with a system for submerged filling tank trucks or trailers if the capacity of the vehicle is greater than 200 gallons. This facility does not have the physical equipment (loading arm and pump) to conduct this type of loading. Therefore, this requirement is not applicable.

Part 5 limits the organic solvent content of coating of parts and products. This facility will not normally conduct coating or painting operations except for routine maintenance of the facility and equipment, which is not an affected operation.

Part 7 requires fuel-burning and refuse-burning equipment to be operated to minimize emissions of VOC. The fuel-burning equipment at this location is subject to this requirement.

Part 7 requires effluent water separators, which receive water containing more than 200 gallons per day of any VOC, to be equipped with vapor control devices. There is no water effluent separator at this location.

OAC 252:100-42 (Toxic Air Contaminants (TAC))

[Applicable]

This subchapter regulates TAC that are emitted into the ambient air in areas of concern (AOC). Any work practice, material substitution, or control equipment required by the Department prior to June 11, 2004, to control a TAC, shall be retained, unless a modification is approved by the Director. Since no AOC has been designated there are no specific requirements for this facility at this time.

OAC 252:100-43 (Testing, Monitoring, and Recordkeeping)

[Applicable]

This subchapter provides general requirements for testing, monitoring and recordkeeping and applies to any testing, monitoring or recordkeeping activity conducted at any stationary source. To determine compliance with emissions limitations or standards, the Air Quality Director may require the owner or operator of any source in the state of Oklahoma to install, maintain and operate monitoring equipment or to conduct tests, including stack tests, of the air contaminant source. All required testing must be conducted by methods approved by the Air Quality Director and under the direction of qualified personnel. A notice-of-intent to test and a testing protocol shall be submitted to Air Quality at least 30 days prior to any EPA Reference Method stack tests. Emissions and other data required to demonstrate compliance with any federal or state emission limit or standard, or any requirement set forth in a valid permit shall be recorded, maintained, and submitted as required by this subchapter, an applicable rule, or permit requirement.

SECTION VI. FEDERAL REGULATIONS

NSPS, 40 CFR Part 60

[Subpart IIII Applicable]

Subparts Kb, Standards of Performance for Volatile Organic Liquid Storage Vessels. This subpart regulates storage vessels with a capacity greater than or equal to 75 m³ (472 bbl or 19,184 gallons) that are used to store volatile organic liquids for which construction, reconstruction, or modification is commenced after July 23, 1984. All the storage tanks at this facility have a capacity less than the threshold, 19,813 gallons. This subpart is not applicable.

Subparts Kc, Standards of Performance for Volatile Organic Liquid Storage Vessels. This subpart regulates storage vessels with a capacity greater than or equal to 75.7 m³ (20,000 gallons) that are used to store volatile organic liquids for which construction, reconstruction, or modification is commenced after October 4, 2023. All the storage tanks at this facility have a capacity less than the threshold, 19,813 gallons. This subpart is not applicable.

Subpart IIII, Stationary Compression Ignition Internal Combustion Engines. The provisions of this subpart are applicable to manufacturers, owners, and operators of stationary compression ignition (CI) internal combustion engines (ICE) that are constructed (ordered) after July 11, 2005, and manufactured after April 1, 2006 (July 1, 2006, for fire pump engines).

All engines at this facility are CI engines and are subject to this subpart.

Emergency Engine Emission Standards

According to §60.4205(b), the 2007 model year and later emergency stationary CI ICE with a displacement of less than 30 liters per cylinder that are not fire pump engines must comply with the emission standards for new nonroad CI engines in §60.4202, for all pollutants.

Per §60.4202(a)(2), for emergency engine with maximum engine less than or equal to 3,000-HP and a displacement of less than 10 liters per cylinder subject the emission standards specified in paragraphs (b)(1) through (2) of this section.

(2) engines with rated power greater than or equal to 50 HP must meet the Tier 2 or Tier 3 emission standards for new nonroad CI engines for same rated power as described in 40 CFR part 1039 Appendix I.

Per §60.4202(b), for emergency engine with maximum engine greater than or equal to 3,000 HP and a displacement of less than 10 liters per cylinder subject the emission standards specified in paragraphs (b)(1) through (2) of this section.

(2) For 2011 model year and later, the Tier 2 emission standards as described in 40 CFR part 1039, appendix I, for all pollutants and the smoke standards as specified in 40 CFR 1039.105.

Engines' Emission Standards

Engines	NO _x + NMHC	CO	PM
	g/kW-hr (g/hp-hr)	g/kW-hr (g/hp-hr)	g/kW-hr (g/hp-hr)
4,680-HP MTU Engine	6.4 (4.77)	3.5 (2.61)	0.20 (0.15)

3,391-HP Cummins Engine	6.4 (4.77)	3.5 (2.61)	0.20 (0.15)
1,483-HP CAT D1000GC Engine	6.4 (4.77)	3.5 (2.61)	0.20 (0.15)

The facility will comply with these emission standards by purchasing certified engines.

In addition to emission standards, these engines shall comply with the following requirements.

Requirement	Compliance Demonstration
Fuel	Per §60.4207, diesel-fired engine must use diesel fuel meet requirements under §1090.305. §1090.305 ULSD Standards. a) Maximum sulfur content of 15 ppm by weigh b) Minimum cetane index of 40 <u>or</u> maximum aromatic content of 35 volume percent.
Other	Per §60.4208 (i), §60.4208 requirements do not apply to owners or operators of stationary CI ICE that have been modified, reconstructed, and do not apply to engines that were removed from one existing location and reinstalled at a new location.
Monitoring	Per §60.4209(a), owner/operator of an emergency stationary CI internal combustion engine that does not meet the standards applicable to non-emergency engines, listed under §60.4201(c), owner/operator must install a non-resettable hour meter prior to startup of the engine.
Operating/Compliance	Per §60.4211(f)(1), there is no time limit on use of engine in emergency situation. Per §60.4211(f)(2), owner/operator may operate the emergency stationary ICE for the purpose specified in paragraph (f)(2)(i) of this section for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by paragraph (f)(3) of this section counts as part of the 100 hours per calendar year allowed by this paragraph (f)(2). Per §60.4211(f)(3), for owner/operator of an emergency stationary CI engine is allowed to operate up to 50 hrs/yr in non-emergency situations, but the 50 hours are counted toward the 100 hrs/yr provided for maintenance and testing. Per §60.4214(b), if the stationary CI internal combustion engine is an emergency stationary internal combustion engine, the owner/ operator is not required to submit an initial notification. Starting with the model years in table 5 to this subpart, if the emergency engine does not meet the standards applicable to non-emergency engines in the applicable model year, the owner/operator must keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. The owner must record the time

Requirement	Compliance Demonstration
	of operation of the engine and the reason the engine was in operation during that time.
Testing	No testing is required if the owner/operator operate a certified engine.

NESHAP, 40 CFR Part 61

[Not Applicable]

There are no emissions of any of the regulated pollutants: arsenic, asbestos, beryllium, benzene, coke oven emissions, mercury, radionuclides or vinyl chloride except for benzene.

Subpart J, Equipment Leaks of Benzene, only affects process streams, which contain more than 10% benzene by weight. All process streams at this facility are below this threshold.

NESHAP, 40 CFR Part 63

[Subpart ZZZZ Applicable]

Subpart ZZZZ, Reciprocating Internal Combustion Engines (RICE). This subpart affects any existing, new, or reconstructed stationary RICE located at a major or area source of HAP emissions. Owners and operators of new or reconstructed engines at area sources and of new or reconstructed engines with a site rating equal to or less than 500 HP located at a major source (except new or reconstructed 4-stroke lean-burn engines with a site rating greater than or equal to 250 HP and less than or equal to 500 HP located at a major source) must meet the requirements of Subpart ZZZZ by complying with either 40 CFR Part 60 Subpart IIII (for CI engines) or 40 CFR Part 60 Subpart JJJJ (for SI engines).

All the proposed engines are manufactured after June 12, 2006, and are considered new engines subject to this subpart. These engines are subject to NSPS Subpart IIII, and thus, these engines comply with this subpart by complying with the requirements of NSPS Subpart IIII.

SECTION VII. COMPLIANCE

Tier Classification

This application has been classified as **Tier I** based on the request for a minor source construction permit.

The draft permit had undergone public notice on the DEQ's web site as required in OAC 252:4-7-13(g). The public, tribal governments, and the EPA have had 30 days to comment on the draft permit. Permits were available for public review and comment are found at Air Quality section of the DEQ Web page: <https://oklahoma.gov/deq.html>.

Public comments were received during public review. The public comments and AQD responses are listed in the next section.

Landowner Affidavit

The applicant has submitted an affidavit that they are not seeking a permit for land use or for any operation upon land owned by others without their knowledge. The affidavit certifies that the applicant owned the land.

Inspection

No inspection is required for a construction permit application.

Fee Paid

A fee of \$2,000 was been paid for a minor source construction permit on June 13, 2025.

SECTION VIII. REPSONSE TO PUBLIC COMMENTSPublic comments from Peoria Tribe of Indians of Oklahoma (PTIO):Comment #1. Support for the Muscogee (Creek) Nation and Request for Consultation

PTIO fully supports the Muscogee (Creek) Nation in its pursuit of environmental protection and its right to participate directly in all decisions concerning industrial development proposed within or adjacent to its territorial boundaries. We endorse the Muscogee (Creek) Nation's request for a town hall or in-person public meeting to allow residents and Tribal governments to review modeling data, emission assumptions, and mitigation plan transparently.

Response #1:

OAC 252:4, Rules of Practice and Procedure, sets the practices and procedures for public participation. Public meetings may be held by request for Tier II and III permits. Tier I permits are not required to undergo public meetings. Based on comments received, AQD has determined a town hall or in-person public meeting is not warranted for this permit action. While not explicitly requested here in Comment #1, tribal governments may request to meet with AQD staff to discuss their concerns with this permit.

Comment #2. Synthetic Minor Source Classification and Operational Reality

The permit classifies Core Scientific as a synthetic minor source capped below 100 tons per year (TPY) of NO_x. However, this limitation assumes the facility operates only 26.4 days per year at 100 percent load, or roughly 634 hours annually. This assumption does not reflect Muskogee County's documented power instability, including brownouts and multi-day outage following ice storms, tornadoes, heatwaves, or straight-line wind events. The facility's request for synthetic minor status should therefore be re-evaluated to account for realistic emergency operation time. Without grid reliability modeling or backup power resilience analysis, the current cap could be exceeded under foreseeable regional conditions, undermining the facility's minor-source designation. ODEQ should require Core Scientific to submit an electrical resilience and emergency generator use analysis addressing how the 26-day operational cap will be maintained during extreme weather events. If this analysis shows a likelihood of exceedance, the facility should be re-permitted as a major source with full Title V obligations. PTIO requests to know whether Core Scientific plans to shore up the existing grid or create its own microgrid to provide resilience against extreme weather events.

Response #2:

The applicable regulatory and permitting requirements do not require the facility nor AQD to evaluate grid reliability or predict extreme weather events. The regulatory and permitting process

provides for facilities to accept usage and/or operational limits on equipment in order to qualify for synthetic minor status. Should facility operations not comply with proposed synthetic minor limits, appropriate enforcement actions will be taken by AQD.

At this time, Core Scientific is not proposing to create its own microgrid as part of this facility.

The emission limits are established to restrict the facility from operating as a major source. AQD is granting Core Scientific synthetic minor source status based on the facility's commitment to comply with capped emission limits and permit conditions. If the facility is unable to maintain compliance, it must apply for a major source permit.

In response to the comment regarding inclement weather and the potential for increased power outages leading to greater engine use, it should be noted that under §60.4211(f)(1) (NSPS Subpart IIII), emergency engines are permitted unlimited operating hours during emergency situations.

This permit addresses air quality only. It does not, and cannot, regulate issues outside its purview or matters outside DEQ's jurisdiction (such as electrical usage or weather). Accordingly, this comment response cannot address those concerns.

Comment #3. Emission Inventory Inconsistencies

On page 9 of the draft permit, VOC emissions rise from 29.38 TPY to 32 TPY, while NO_x and CO values appear recalculated to meet the 100 TPY threshold. Other pollutants (SO₂, PM₁₀, HAPs) were not recalculated. This selective adjustment suggests an incomplete emissions reconciliation. ODEQ should require a corrected facility-wide emissions table reflecting updated calculations for all pollutants under the same runtime assumptions used for NO_x and CO. Or if this is purposeful, at least include a clear explanation of why the numbers reflect the way they do.

Response #3:

As indicated by the citation number 1 of the table, the numbers listed at the bottom of the table reflect "voluntary" limits the facility requested to qualify as a synthetic minor facility. The table of numbers above were just presented for informational purpose and reflect "Potential to Emit" emission rates based on EPA policy for emergency equipment. The facility took slightly different approaches for some of the pollutants when requesting the pollutant specific CAP. The permit contains appropriate methods to assure on-going compliance with each of the pollutant CAPs.

Comment #4. Contradictory Permit Conditions

Specific Condition #6 states that compliance with emission limit shall be determined monthly on a 12-month rolling total, consistent with synthetic-minor and voluntary capping methodology. Yet, Specific Condition #8 authorizes the facility to operate continuously for 8,760 hours per year – a direct contradiction. Condition #8 must be revised to explicitly limit annual hours consistent with the emission-cap calculation (approximately 600-650 hours per year) or provide some type of explanation. Without this correction, the permit is internally inconsistent and unenforceable.

Response #4:

The requirement to determine compliance with emission limits are detailed in Specific Conditions 2 and 3.

Regarding the allowance to operate the facility continuously 8,760 hours per year. This allowance is included as portions of the facility can operate and have no impact on emissions. This provides for general allowance to operate as needed provided the facility also complies with all other limitations in the permit. Therefore, the engines are not approved for continuous operation and shall only operate at a level that also demonstrates compliance with the permit CAPs and all federal rule requirements.

Comment #5. Emergency Engine Operation and NSPS Subpart IIII Compliance

The draft permit allows up to 100 hours per engine annual for testing and maintenance, consistent with 40 CFR §60.4211(f)(2)-(3). However, this provision is not reconciled with the facility-wide runtime cap already assumed in emissions modeling. If all engines exercise their 100-hour testing allowance, total NO_x and CO emissions could breach the 99 TPY cap even without true emergencies. ODEQ should require Core Scientific to quantify and reconcile the total testing and maintenance hours within its cap calculations and include a condition that any exceedance of total runtime invalidates the synthetic-minor status.

Response #5:

The synthetic-minor CAPs of the permit apply at all times. It is correct that the federal rule allows for 100-hour testing allowance, however, the rule does not mandate any engine to operate a minimum amount of hours. Therefore, the facility must demonstrate that based on “actual” operation of the engines the facility will be in compliance with the CAPs of the permit.

Comment #6. Fuel Storage, Groundwater Protection, and Bonding

The permit specifies above-ground diesel belly tanks (2,100-4,968 gallons each) with no secondary containment or leak detection. Given Muskogee’s shallow groundwater and flood-prone soils, this represents a contamination risk. ODEQ should require the facility to implement secondary containment, SPCC compliance certification, and a ground water protection and leak-response plan to prevent chronic fuel seepage. PTIO further recommends that ODEQ require Core Scientific to establish financial assurance bond or cleanup trust – modeled on the Argo site in Ottawa County – to ensure funds are available for site remediation should the facility close for the company default. This mechanism provides accountability and prevents the public from inheriting the cost of environmental cleanup.

Response #6:

The rules applicable to the facility under this permit do not require AQD to evaluate any secondary containment requirement or contamination risk plan. This permit only addresses air quality. It does not, and cannot, address regulatory issues related to other media (e.g., water quality and land protection) or other concerns outside of Air Quality Division’s jurisdictional authority. This also includes any financial bond requirements.

The tanks will need to comply with any other ODEQ applicable requirements. The facility is aware of its obligations under 40 CFR 112 and intends to prepare and implement an SPCC plan that is

appropriate for the facility. Since the facility will store fuel in a manner that is consistent with applicable industry and regulatory standards, a financial assurance bond or cleanup trust is not warranted or required. The Argo site is not analogous to the proposed facility.

Comment #7. Monitoring, Reporting, and Transparency

The draft requires 30-day notice of excess emissions events. ODEQ should require 24-48 hour notification to ODEQ and affected Tribes of any exceedance or emergency generator event exceeding permitted hours.

Response #7:

As indicated in the Standard Condition F. 3., the facility is subject to the Excess Emission Reporting under OAC 252:100-9. This subchapter sets the requirement for reporting of excess emissions. Subchapter 9 contains the following requirements, including a notification to AQD no later than 4:30 the following working day:

Except as provided in OAC 252:100-9-7(a)(1), the owner or operator of a source of excess emissions shall notify the Director as soon as possible but no later than 4:30 p.m. the following working day of the first occurrence of excess emissions in each excess emission event. No later than thirty (30) calendar days after the start of any excess emission event, the owner or operator of an air contaminant source from which excess emissions have occurred shall submit a report for each excess emission event describing the extent of the event and the actions taken by the owner or operator of the facility in response to this event. Request for mitigation, as described in OAC 252:100-9-8, shall be included in the excess emission event report. Additional reporting may be required in the case of ongoing emission events and in the case of excess emissions reporting required by 40 CFR Parts 60, 61, or 63.

Further, there are no hourly engine limitations in the permit that would necessitate engine-hour reporting under OAC 252:100-9.

Comment #8. Baseline Testing and Verification

ODEQ should require initial performance testing on a subset of engines and first-year verification checks to ensure modeled emission factors reflect actual operation under Oklahoma conditions.

Response #8:

NSPS Subpart IIII's requires initial performance testing to verify that the engine's emissions meet the required emission standards. Under §60.4211(c), facilities that purchase an EPA-certified engine model are not required to conduct this testing, since the engine under the given model has already been tested and certified by EPA. DEQ does not typically require testing above and beyond that required by the federal standard for emergency engines at synthetic minor sources.

Comment #9. Fire Suppression and PFAS Concerns

Lithium battery system and data center infrastructure are prone to electrical and coolant fires, which may require specialized fire suppression methods. PTIO requests confirmation of whether PFAS-based foams are used for data center fire suppression. PFAS compounds are persistent and toxic,

and their use or release during an emergency could result in long-term soil and groundwater contamination. ODEQ should require the applicant to disclose all fire suppression agents and ensure that local first responders receive appropriate training and protective equipment. If PFAS is used, a PFAS response and cleanup plan must be required, including protocols for containment, removal, and disposal of PFAS-contaminated runoff.

Response #9:

DEQ understands the public's concerns regarding the potential fire hazard risk. However, this permit only addresses air quality. It does not, and cannot, address regulatory issues related to fire hazards or other concerns outside of Air Quality Division's jurisdictional authority. Accordingly, this comment response cannot address those concerns.

According to the applicant, the emergency generators will be constructed in separate enclosures without fire suppression. The remainder of the data center building will not use PFAS for fire suppression.

Comment #10. Permit Duration and Review

The draft states that the operating permit term is unlimited. Given the rapidly evolving nature of data-center operations and emission-control technologies, indefinite permits are inconsistent with adaptive environment governance. ODEQ should include a 10-year mandatory re-evaluation and renewal requirement, with updated modeling, control efficiency data, and consultation with affected Tribes.

Response #10:

If the data center changes operations such that emissions increase, the facility will be required to modify the permit. At present, no federal or state requirements mandate renewal of minor source permits. Establishing a new rule to require renewal for minor source facilities is beyond the scope of this permitting action.

Comment #11. Cumulative Impacts and Environmental Justice

Muskogee County already bears disproportionate cumulative burdens from industrial facilities. According to ODEQ data, point-source emissions in Muskogee exceed those in Tulsa County despite fewer total emitters. Additional emissions from Core Scientific will compound this imbalance. ODEQ should require a cumulative impact analysis for the Muskogee airshed, incorporating PM_{2.5}, NO₂, and ozone precursors, and evaluate additive risk for nearby residential and Tribal communities.

The following table compares the point source emission data for the eleven (11) counties within MCN Reservation using 2017 National Emission Inventory (NEI) data. Point source emissions for the 18 facilities in Muskogee County far exceed those for the 75 facilities in Tulsa County for CO, NO_x, PM₁₀, PM_{2.5}, and SO₂.

County	NH3	CO	NOx	PM10 (PRI)	PM2.5 (PRI)	SO2	VOC	Pb
Creek	NR	242.59	928.74	152.44	147.75	232.40	151.53	0.28
Hughes	NR	860.43	1,526.97	37.89	37.75	2.87	890.52	0.01
Mayes	233.49	1,405.11	3,081.71	919.21	501.92	3,546.37	222.16	0.33
McIntosh	NR	136.13	232.46	1.23	1.22	0.06	32.36	-
Muskogee	0.03	6,804.62	8,610.90	2,150.84	1,710.84	20,172.06	941.24	0.29
Okfuskee	NR	300.48	413.53	10.80	10.80	0.91	205.05	0.00
Okmulgee	1.89	430.33	567.80	162.48	146.80	152.48	500.29	0.12
Rogers	998.80	1,246.72	4,192.60	893.97	504.84	3,931.33	264.13	0.11
Seminole	17.80	3,130.14	860.38	209.90	107.03	1,158.62	542.73	0.05
Tulsa	29.97	2,878.21	3,621.53	333.91	247.36	240.74	2,418.81	0.52
Wagoner	103.78	120.06	585.93	51.99	51.92	9.85	13.74	0.01
Total	1,385.76	17,554.82	24,622.53	4,924.66	3,468.31	29,447.68	6,182.57	1.72

Response #11:

In order to protect human health and the environment for all Oklahomans, all DEQ permits undergo a review and approval process to ensure environmental requirements are met. DEQ consistently implements and enforces environmental laws and regulations throughout Oklahoma, including proper notice and public comment procedures.

The applicant has followed all applicable requirements and submitted applicable data required for a construction permit under OAC 252:100-7-15.

Focusing on criteria pollutant data, 2020 NEI point source data for Muskogee County reflects a substantial decrease in emissions of CO, PM₁₀, PM_{2.5}, SO₂ and NO_x.

PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO
TPY	TPY	TPY	TPY	TPY
806	589	4,114	4,310	1,060

No further review of the impact of the proposed minor source is warranted.

SECTION IX. SUMMARY

The facility has demonstrated the ability to comply with all applicable Air Quality rules and regulations. Ambient air quality standards are not threatened at this site. There are no active Air Quality compliance or enforcement issues concerning this facility. Issuance of the construction permit is recommended.

January 7, 2026

Trip Guinan
Core Scientific, Inc.
701 Brickell Ave, Suite 2500
Miami, FL 33131

Subject: Construction Permit No. **2025-0466-C**
Core Scientific MSK1& MSK2 (Fac. ID: 24887)
Section 15, Township 14N, Range 18E, Muskogee County, Oklahoma

Dear Mr. Guinan:

Enclosed is the permit authorizing construction at the referenced facility. Please note that this permit is issued subject to standard and specific conditions which are attached. These conditions must be carefully followed since they define the limits of the permit and will be confirmed by periodic inspections.

Also note that you are required to annually submit an emission inventory for this facility. An emission inventory must be completed through DEQ's electronic reporting system by April 1st of every year. Any questions concerning the form or submittal process should be referred to the Emission Inventory Staff at (405) 702-4100.

Thank you for your cooperation. If you have any questions, please refer to the permit number above and contact permit writer at (918) 293-1615, or by email at Jennie.Doan@deq.ok.gov. Air Quality personnel are located in the Regional Office at Tulsa, 9933 E. 16th Street, Tulsa, OK, 74128.

Sincerely,



Jennie Doan, E.I.,
Engineering Section
AIR QUALITY DIVISION

Enclosure



PERMIT

AIR QUALITY DIVISION
STATE OF OKLAHOMA
DEPARTMENT OF ENVIRONMENTAL QUALITY
707 N. ROBINSON, SUITE 4100
P.O. BOX 1677
OKLAHOMA CITY, OKLAHOMA 73101-1677

Permit No. 2025-0466-C

Core Scientific, Inc.

having complied with the requirements of the law, is hereby granted permission to construct the Core Scientific MSK1 & MSK2 facility, located Section 15, Township 14N, Range 18E, Muskogee County, Oklahoma, subject to standard conditions dated February 13, 2020, and specific conditions, both attached.

In the absence of construction commencement, this permit shall expire 18 months from the issuance date, except as authorized under Section B of the Standard Conditions.

A handwritten signature in cursive script, reading "Lee Warden", is written over a horizontal line.

Lee Warden, P.E.
Permits and Engineering Group Manager

January 7, 2026

Date Issued

**PERMIT TO CONSTRUCT
AIR POLLUTION CONTROL FACILITY
SPECIFIC CONDITIONS**

**Core Scientific, Inc.
Core Scientific MSK1 & MSK2**

Permit No. 2025-0466-C

The permittee is authorized to construct in conformity with the specifications submitted to the Air Quality Division on June 11, 2025. The Evaluation Memorandum dated January 7, 2026, explains the derivation of applicable permit requirements and estimates of emissions; however, it does not contain operating limitations or permit requirements. Commencing construction and continuing operations under this permit constitutes acceptance of, and consent to, the conditions contained herein:

1. Equipment and Points of Emissions:

EU	Description	Size/Rating	Manufacturing/ Const. Date
GEN-PF-1A-01	Cummins C3000D6EB	3,391-HP	8/2025
GEN-PF-1A-02	Cummins C3000D6EB	3,391-HP	8/2025
GEN-PF-1A-03	Cummins C3000D6EB	3,391-HP	8/2025
GEN-PF-1A-04	Cummins C3000D6EB	3,391-HP	9/2025
GEN-PF-1A-05	Cummins C3000D6EB	3,391-HP	9/2025
GEN-PF-1A-06	Cummins C3000D6EB	3,391-HP	9/2025
GEN-PF-1A-07	Cummins C3000D6EB	3,391-HP	9/2025
GEN-PF-1A-08	Cummins C3000D6EB	3,391-HP	9/2025
GEN-PF-1A-09	Cummins C3000D6EB	3,391-HP	9/2025
GEN-PF-1A-10	Cummins C3000D6EB	3,391-HP	9/2025
GEN-PF-1A-11	Cummins C3000D6EB	3,391-HP	9/2025
GEN-PF-1A-12	Cummins C3000D6EB	3,391-HP	9/2025
GEN-PF-1A-13	Cummins C3000D6EB	3,391-HP	9/2025
GEN-PF-1A-14	Cummins C3000D6EB	3,391-HP	10/2025
GEN-PF-1B-01	Cummins C3000D6EB	3,391-HP	10/2025
GEN-PF-1B-02	Cummins C3000D6EB	3,391-HP	10/2025
GEN-PF-1B-03	Cummins C3000D6EB	3,391-HP	10/2025
GEN-PF-1B-04	Cummins C3000D6EB	3,391-HP	10/2025
GEN-PF-1B-05	Cummins C3000D6EB	3,391-HP	10/2025
GEN-PF-1B-06	Cummins C3000D6EB	3,391-HP	10/2025
GEN-PF-1B-07	Cummins C3000D6EB	3,391-HP	10/2025
GEN-PF-1B-08	MTU 20V400G94S DS3000	4,680-HP	TBD
GEN-PF-1B-09	MTU 20V400G94S DS3000	4,680-HP	8/2025
GEN-PF-1B-10	MTU 20V400G94S DS3000	4,680-HP	8/2025
GEN-PF-1B-11	MTU 20V400G94S DS3000	4,680-HP	8/2025
GEN-PF-1B-12	MTU 20V400G94S DS3000	4,680-HP	8/2025

EU	Description	Size/Rating	Manufacturing/ Const. Date
GEN-PF-1B-13	MTU 20V400G94S DS3000	4,680-HP	TBD
GEN-PF-1B-14	MTU 20V400G94S DS3000	4,680-HP	TBD
GEN-PF-1C-01	MTU 20V400G94S DS3000	4,680-HP	TBD
GEN-PF-1C-02	MTU 20V400G94S DS3000	4,680-HP	TBD
GEN-PF-1C-03	MTU 20V400G94S DS3000	4,680-HP	TBD
GEN-PF-1C-04	MTU 20V400G94S DS3000	4,680-HP	TBD
GEN-PF-1C-05	MTU 20V400G94S DS3000	4,680-HP	TBD
GEN-PF-1C-06	MTU 20V400G94S DS3000	4,680-HP	TBD
GEN-PF-1C-07	MTU 20V400G94S DS3000	4,680-HP	TBD
GEN-PF-1C-08	MTU 20V400G94S DS3000	4,680-HP	TBD
GEN-MB-1A-01	MTU 20V400G94S DS3000	4,680-HP	8/2025
GEN-MB-1A-02	MTU 20V400G94S DS3000	4,680-HP	8/2025
GEN-MB-1A-03	MTU 20V400G94S DS3000	4,680-HP	8/2025
GEN-MB-1A-04	MTU 20V400G94S DS3000	4,680-HP	TBD
GEN-MB-1A-05	MTU 20V400G94S DS3000	4,680-HP	TBD
GEN-MB-1A-06	MTU 20V400G94S DS3000	4,680-HP	TBD
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GEN-MF-1A-06	MTU 20V400G94S DS3000	4,680-HP	TBD
GEN-MF-1A-07	MTU 20V400G94S DS3000	4,680-HP	TBD
GEN-AD-A	CAT D1000 GC	1,483-HP	TBD
GEN-PF-2A-01	Cummins C3000D6EB	3,391-HP	TBD
GEN-PF-2A-02	Cummins C3000D6EB	3,391-HP	TBD
GEN-PF-2A-03	Cummins C3000D6EB	3,391-HP	TBD
GEN-PF-2A-04	Cummins C3000D6EB	3,391-HP	TBD
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GEN-PF-2A-08	Cummins C3000D6EB	3,391-HP	TBD
GEN-PF-2A-09	Cummins C3000D6EB	3,391-HP	TBD
GEN-PF-2A-10	Cummins C3000D6EB	3,391-HP	TBD
GEN-PF-2A-11	Cummins C3000D6EB	3,391-HP	TBD
GEN-PF-2A-12	Cummins C3000D6EB	3,391-HP	TBD
GEN-PF-2A-13	Cummins C3000D6EB	3,391-HP	TBD
GEN-PF-2A-14	Cummins C3000D6EB	3,391-HP	TBD
GEN-PF-2B-01	Cummins C3000D6EB	3,391-HP	TBD
GEN-PF-2B-02	Cummins C3000D6EB	3,391-HP	TBD
GEN-PF-2B-03	Cummins C3000D6EB	3,391-HP	TBD

EU	Description	Size/Rating	Manufacturing/ Const. Date
GEN-PF-2B-04	Cummins C3000D6EB	3,391-HP	TBD
GEN-PF-2B-05	Cummins C3000D6EB	3,391-HP	TBD
GEN-PF-2B-06	Cummins C3000D6EB	3,391-HP	TBD
GEN-PF-2B-07	Cummins C3000D6EB	3,391-HP	TBD
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GEN-MF-2A-06	Cummins C3000D6EB	3,391-HP	TBD
GEN-MF-2A-07	Cummins C3000D6EB	3,391-HP	TBD
GEN-PF-2C-01	Cummins C3000D6EB	3,391-HP	TBD
GEN-PF-2C-02	Cummins C3000D6EB	3,391-HP	TBD
GEN-PF-2C-03	Cummins C3000D6EB	3,391-HP	TBD
GEN-PF-2C-04	Cummins C3000D6EB	3,391-HP	TBD
GEN-PF-2C-05	Cummins C3000D6EB	3,391-HP	TBD
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GEN-AD-B	CAT D1000GC	1,483-HP	TBD
TANK-PF-1A-01	Cummins C3000D6EB Belly Tank	4,015-gal	8/2025
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TANK-MF-2A-01	Cummins C3000D6EB Belly Tank	4,015-gal	TBD
TANK-MF-2A-02	Cummins C3000D6EB Belly Tank	4,015-gal	TBD
TANK-MF-2A-03	Cummins C3000D6EB Belly Tank	4,015-gal	TBD
TANK-MF-2A-04	Cummins C3000D6EB Belly Tank	4,015-gal	TBD
TANK-MF-2A-05	Cummins C3000D6EB Belly Tank	4,015-gal	TBD
TANK-MF-2A-06	Cummins C3000D6EB Belly Tank	4,015-gal	TBD

EU	Description	Size/Rating	Manufacturing/ Const. Date
TANK-MF-2A-07	Cummins C3000D6EB Belly Tank	4,015-gal	TBD
TANK-PF-2C-01	Cummins C3000D6EB Belly Tank	4,015-gal	TBD
TANK-PF-2C-02	Cummins C3000D6EB Belly Tank	4,015-gal	TBD
TANK-PF-2C-03	Cummins C3000D6EB Belly Tank	4,015-gal	TBD
TANK-PF-2C-04	Cummins C3000D6EB Belly Tank	4,015-gal	TBD
TANK-PF-2C-05	Cummins C3000D6EB Belly Tank	4,015-gal	TBD
TANK-PF-2C-06	Cummins C3000D6EB Belly Tank	4,015-gal	TBD
TANK-PF-2C-07	Cummins C3000D6EB Belly Tank	4,015-gal	TBD
TANK-PF-2C-08	Cummins C3000D6EB Belly Tank	4,015-gal	TBD
TANK-AD-B	CAT D1000GC Belly Tank	2,100-gal	TBD

2. Facility-wide emission limits: NO_x, CO, VOC, PM₁₀, and HAPs emissions from the facility shall be based on manufacture emission factors where available, current AP-42 factors, and hours of operation. Facility-wide emissions shall not exceed the emission limits shown in the table below. Compliance with the emission limits for NO_x, CO, VOC, PM₁₀, and HAPs from the facility shall be determined monthly, and be based on a 12-month rolling total.

Pollutant	Emission Limits
	TPY
NO _x	99.00
CO	92.80
VOC	32.00
PM ₁₀	12.40
HAP	
Individual	1.00
Aggregated	5.00

3. Emissions from all engines at the facility will be limited by, and contribute to, the facility-wide cap for NO_x, CO, VOC, PM₁₀, and HAPs identified in Specific Condition No. 2.
- Each calendar month, the permittee shall calculate emissions of NO_x, CO, VOC, PM₁₀, and HAPs from each engine using the method outlined below:
 - Permittee shall use the manufacturer's emission factors for NO_x, CO, and VOC at various loads (i.e., 10, 25, 50, 75, and 100%) for each engine for NO_x, CO, VOC. Permittee shall use AP-42 factors for PM₁₀, and HAPs, assuming at 100% loads. Each engine's load shall be continuously monitored and recorded. Calculations shall use the emission factors for the highest recorded load reached in any given operating hour times the hours of operation at that load interval.
 - Each calendar month the permittee shall incorporate emissions from all engines into the 12-month rolling total emissions for NO_x, CO, VOC, PM₁₀, and HAPs. These emissions shall be summed with other emissions for determining compliance with the facility-wide cap.

4. All the engines shall be fueled with diesel as specified in §1090.305 containing no more than 15 ppmw sulfur and having either a minimum cetane index of 40 or a maximum aromatic content of 35%v. Compliance can be shown by the supplier's latest delivery ticket(s). Compliance shall be demonstrated at least once every calendar year.
5. Each engine shall have permanent identification plates attached, which show the make, model number, and serial number.
6. Each engine shall be equipped with a non-resettable hour-meter.
7. Engines shall be maintained and operated in accordance with certification protocols established for Tier II NSPS IIII emergency engines.
8. The permittee shall keep records of operating hours (emergency and non-emergency) for each engine, monthly and 12-month rolling total.
9. The permittee shall be authorized to operate this facility continuously (24 hours per day, every day of the year, 8,760 hours).
10. Replacement of any equipment with emissions specified in this permit are authorized under OAC 252:100-7-15(a)(2)(C), provided the replacement unit does not require a change in any emission limit and the owner or operator notifies the DEQ in writing within fifteen (15) days of the startup of the replacement unit. The replacement unit shall meet the definition under OAC 252:100-7-1.1. Installation of an "affected facility," "affected source," or "new source" as those terms are defined in 40 CFR Section 60.2, 40 CFR Section 63.2, and 40 CFR Section 61.02, respectively, that is subject to an emission standard, equipment standard, work practice standard or recordkeeping requirement in a federal NSPS (40 CFR Part 60) or a federal NESHAP (40 CFR Parts 61 and 63) shall comply with all applicable requirements.
11. The permittee shall comply with all applicable standards and requirements of 40 CFR Part 60, NSPS Subpart IIII, for the diesel-fired emergency generator engines and fire pump engine including, but not necessarily limited to, the following.
 - a. §60.4200 Am I subject to this subpart?
 - b. §60.4201 What emission standards must I meet for non-emergency engines if I am a stationary CI internal combustion engine manufacturer?
 - c. §60.4202 What emission standards must I meet for emergency engines if I am a stationary CI internal combustion engine manufacturer?
 - d. §60.4203 How long must my engines meet the emission standards if I am a manufacturer of stationary CI internal combustion engines?
 - e. §60.4204 What emission standards must I meet for non-emergency engines if I am an owner or operator of a stationary CI internal combustion engine?
 - f. §60.4205 What emission standards must I meet for emergency engines if I am an owner or operator of a stationary CI internal combustion engine?
 - g. §60.4206 How long must I meet the emissions standards if I am an owner or operator of a stationary SI internal combustion engine?
 - h. §60.4207 What fuel requirements must I meet if I am an owner or operator of a stationary CI internal combustion engine subject to this subpart?

- i. §60.4208 What is the deadline for importing or installing stationary CI ICE produced in the previous model year?
 - j. §60.4209 What are the monitoring requirements if I am an owner or operator of a stationary CI internal combustion engine?
 - k. §60.4210 What are my compliance requirements if I am a stationary CI internal combustion engine manufacturer?
 - l. §60.4211 What are my compliance requirements if I am an owner or operator of a stationary CI internal combustion engine?
 - m. §60.4212 What test methods and other procedures must I use if I am an owner or operator of a stationary CI internal combustion engine with a displacement of less than 30 liters per cylinder?
 - n. § 60.4213 What test methods and other procedures must I use if I am an owner or operator of a stationary CI internal combustion engine with a displacement of greater than or equal to 30 liters per cylinder?
 - o. §60.4214 What are my notification, reporting, and recordkeeping requirements if I am an owner or operator of a stationary CI internal combustion engine?
 - p. §60.4215 What requirements must I meet for engines used in Guam, American Samoa, or the Commonwealth of the Northern Mariana Islands?
 - q. §60.4216 What requirements must I meet for engines used in Alaska?
 - r. §60.4217 What emission standards must I meet if I am an owner or operator of a stationary internal combustion engine using special fuels?
 - s. §60.4218 What parts of the General Provisions apply to me?
 - t. §60.4219 What definitions apply to this subpart?
12. The permittee shall comply with all applicable standards and requirements of 40 CFR Part 63, NESHAP Subpart ZZZZ, National Emissions Standards for Hazardous air Pollutants for Stationary Reciprocating Internal Combustion Engines (RICE), including, but not limited to, the following.
- a. §63.6580 What is the purpose of subpart ZZZZ?
 - b. §63.6585 Am I subject to this subpart?
 - c. §63.6590 What parts of my plant does this subpart cover?
 - d. §63.6595 When do I have to comply with this subpart?
 - e. §63.6600 What emission limitations must I meet if I own or operate a stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions?
 - f. §63.6601 What emission limitations must I meet if I own or operate a new or reconstructed 4SLB with a site rating of greater or equal to 250 brake HP and less than or equal to 500 brake HP located at a major source of HAP emissions?
 - g. §63.6602 What emission limitations must I meet if I own or operate an existing stationary RICE with a site rating of equal or less than 500 brake HP located at an area source of HAP emissions?
 - h. §63.6603 What emission limitations and operating limitations must I meet if I own or operate an existing stationary RICE located at an area source of HAP emissions?
 - i. §63.6604 What fuel requirements must I meet if I own or operate a stationary CI RICE?
 - j. §63.6605 What are my general requirements for complying with this subpart?

- k. §63.6610 By what date must I conduct the initial performance tests or other initial compliance demonstrations if I own or operating a stationary RICE with a site rating of more than 500 brake HP located at an area source of HAP emissions?
 - l. §63.6611 By wat date must I conduct the initial performance tests or other initial compliance demonstration if I own or operate an existing stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions?
 - m. §63.6612 By wat date must I conduct the initial performance tests or other initial compliance demonstration if I own or operate a new or reconstructed 4SLB SI stationary RICE with a site rating of greater than or equal to 250 and less than or equal to 500 brake HP located at a major source of HAP emissions?
 - n. §63.6615 When must I conduct subsequent performance tests?
 - o. §63.6620 What performance tests and other procedures must I use?
 - p. §63.6625 What are my monitoring, installation, operation, and maintenance requirements?
 - q. §63.6630 How do I demonstrate initial compliance with the emission limitations, operating limitations, and other requirements?
 - r. §63.6635 How do I monitor and collect data to demonstrate continuous compliance?
 - s. §63.6640 How do I demonstrate continuous compliance with the emission limitations, operating limitations, and other requirements?
 - t. §63.6645 What notifications must I submit and when?
 - u. §63.6650 What reports must I submit and when?
 - v. §63.6655 What records must I keep?
 - w. §63.6660 In what form and how long must I keep my records?
 - x. §63.6665 What parts of the General Provisions apply to me?
 - y. §63.6670 Who implements and enforces this subpart?
 - z. §63.6675 What definitions apply to this subpart?
13. The permittee shall maintain records of operations as listed below. These records shall be retained on-site or at a local field office for a period of at least five years following dates of recording, and shall be made available to regulatory personnel upon request.
- a. Facility-wide emissions of NO_x, CO, VOC, PM₁₀, and HAPs (monthly, 12-month rolling total) as specified by S.C. # 2.
 - b. Record of hours of operation for all engines (monthly and 12-month rolling totals), as specified in S.C. #7.
 - c. For the fuel(s) burned, the appropriate document(s) as specified in S.C. #4.
 - d. Records required under NESHAP 40 CFR Part 63, Subpart ZZZZ.
 - e. Records required under NSPS 40 CFR Part 60, Subpart IIII.
14. The permittee shall submit an application for an operating permit within 180 days of starting operation of any emission source whose construction has been authorized by this permit.

**MINOR SOURCE PERMIT TO OPERATE / CONSTRUCT
AIR POLLUTION CONTROL FACILITY
STANDARD CONDITIONS**

(February 13, 2020)

- A. The issuing Authority for the permit is the Air Quality Division (AQD) of the Oklahoma Department of Environmental Quality (DEQ) in accordance with and under the authority of the Oklahoma Clean Air Act. The permit does not relieve the holder of the obligation to comply with other applicable federal, state, or local statutes, regulations, rules, or ordinances. This specifically includes compliance with the rules of the other Divisions of DEQ: Land Protection Division and Water Quality Division.
- B. A duly issued construction permit or authorization to construct or modify will terminate and become null and void (unless extended as provided in OAC 252:100-7-15(g)) if the construction is not commenced within 18 months after the date the permit or authorization was issued, or if work is suspended for more than 18 months after it is commenced. [OAC 252:100-7-15(f)]
- C. The recipient of a construction permit shall apply for a permit to operate (or modified operating permit) within 180 days following the first day of operation. [OAC 252:100-7-18(a)]
- D. Unless specified otherwise, the term of an operating permit shall be unlimited.
- E. Notification to the Air Quality Division of DEQ of the sale or transfer of ownership of this facility is required and shall be made in writing by the transferor within 30 days after such date. A new permit is not required. [OAC 252:100-7-2(f)]
- F. The following limitations apply to the facility unless covered in the Specific Conditions:
1. No person shall cause or permit the discharge of emissions such that National Ambient Air Quality Standards (NAAQS) are exceeded on land outside the permitted facility. [OAC 252:100-3]
 2. All facilities that emit air contaminants are required to file an emission inventory and pay annual operating fees based on the inventory. Instructions are available on the Air Quality section of the DEQ web page. <https://oklahoma.gov/deq.html> [OAC 252:100-5]
 3. Deviations that result in emissions exceeding those allowed in this permit shall be reported consistent with the requirements of OAC 252:100-9, Excess Emission Reporting Requirements. [OAC 252:100-9]
 4. Open burning of refuse and other combustible material is prohibited except as authorized in the specific examples and under the conditions listed in the Open Burning subchapter. [OAC 252:100-13]
 5. No particulate emissions from new fuel-burning equipment with a rated heat input of 10 MMBTUH or less shall exceed 0.6 lbs/MMBTU. [OAC 252:100-19]
 6. No discharge of greater than 20% opacity is allowed except for short-term occurrences which consist of not more than one six-minute period in any consecutive 60 minutes, not to exceed three such periods in any consecutive 24 hours. In no case shall the average of any six-minute period exceed 60% opacity. [OAC 252:100-25]

7. No visible fugitive dust emissions shall be discharged beyond the property line on which the emissions originate in such a manner as to damage or to interfere with the use of adjacent properties, or cause air quality standards to be exceeded, or interfere with the maintenance of air quality standards. [OAC 252:100-29]
8. No sulfur oxide emissions from new gas-fired fuel-burning equipment shall exceed 0.2 lbs/MMBTU. No existing source shall exceed the listed ambient air standards for sulfur dioxide. [OAC 252:100-31]
9. Volatile Organic Compound (VOC) storage tanks built after December 28, 1974, and with a capacity of 400 gallons or more storing a liquid with a vapor pressure of 1.5 psia or greater under actual conditions shall be equipped with a permanent submerged fill pipe or with an organic material vapor-recovery system. [OAC 252:100-37-15(b)]
10. All fuel-burning equipment shall at all times be properly operated and maintained in a manner that will minimize emissions of VOCs. [OAC 252:100-37-36]

G. Any owner or operator subject to provisions of NSPS shall provide written notification as follows: [40 CFR 60.7 (a)]

1. A notification of the date construction (or reconstruction as defined under §60.15) of an affected facility is commenced postmarked no later than 30 days after such date. This requirement shall not apply in the case of mass-produced facilities which are purchased in completed form.
2. A notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in §60.14(e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional relevant information subsequent to this notice.
3. A notification of the actual date of initial start-up of an affected facility postmarked within 15 days after such date.
4. If a continuous emission monitoring system is included in the construction, a notification of the date upon which the test demonstrating the system performance will commence, along with a pretest plan, postmarked no less than 30 days prior to such a date.

H. Any owner or operator subject to provisions of NSPS shall maintain records of the occurrence and duration of any start-up, shutdown, or malfunction in the operation of an affected facility or any malfunction of the air pollution control equipment. [40 CFR 60.7 (b)]

I. Any owner or operator subject to the provisions of NSPS shall maintain a file of all measurements and other information required by this subpart recorded in a permanent file suitable for inspection. This file shall be retained for at least five years following the date of such measurements, maintenance, and records. [40 CFR 60.7 (f)]

J. Any owner or operator subject to the provisions of NSPS shall conduct performance test(s) and furnish to AQD a written report of the results of such test(s). Test(s) shall be conducted within 60 days after achieving the maximum production rate at which the facility will be operated, but not later than 180 days after initial start-up. [40 CFR 60.8]

Department of Environmental Quality (DEQ)
Air Quality Division (AQD)
Acronym List
9-8-2025

ACFM	Actual Cubic Feet per Minute	GACT	Generally Achievable Control Technology
AD	Applicability Determination	GAL	Gallon (gal)
AFRC	Air-to-Fuel Ratio Controller	GDF	Gasoline Dispensing Facility
API	American Petroleum Institute	GEP	Good Engineering Practice
ASTM	American Society for Testing and Materials	GHG	Greenhouse Gases
AVO	Audio, Visual, or Olfactory	GR	Grain(s) (gr)
BACT	Best Available Control Technology	H₂CO	Formaldehyde
BAE	Baseline Actual Emissions	H₂S	Hydrogen Sulfide
BBL	Barrel(s)	HAP	Hazardous Air Pollutants
BHP	Brake Horsepower (bhp)	HC	Hydrocarbon
BTEX	Benzene, Toluene, Ethylbenzene, Xylene	HCFC	Hydrochlorofluorocarbon
BTU	British thermal unit (Btu)	HFR	Horizontal Fixed Roof
C&E	Compliance and Enforcement	HON	Hazardous Organic NESHAP
CAA	Clean Air Act	HP	Horsepower (hp)
CAM	Compliance Assurance Monitoring	HR	Hour (hr)
CAS	Chemical Abstract Service	I&M	Inspection and Maintenance
CAAA	Clean Air Act Amendments	IBR	Incorporation by Reference
CC	Catalytic Converter	ICE	Internal Combustion Engine
CCR	Continuous Catalyst Regeneration	LAER	Lowest Achievable Emission Rate
CD	Consent Decree	LB	Pound(s) [Mass] (lb, lbs, lbm)
CEM	Continuous Emission Monitor	LB/HR	Pound(s) per Hour (lb/hr)
CFC	Chlorofluorocarbon	LDAR	Leak Detection and Repair
CFR	Code of Federal Regulations	LNG	Liquefied Natural Gas
CI	Compression Ignition	LT	Long Ton(s) (metric)
CNG	Compressed Natural Gas	LTPD	Long Tons per Day
CO	Carbon Monoxide or Consent Order	LPE	Legally and Practicably Enforceable
COA	Capable of Accommodating	M	Thousand (Roman Numeral)
COM	Continuous Opacity Monitor	MAAC	Maximum Acceptable Ambient Concentration
D	Day	MACT	Maximum Achievable Control Technology
DEF	Diesel Exhaust Fluid	MM	Prefix used for Million (Thousand-Thousand)
DG	Demand Growth	MMBTU	Million British Thermal Units (MMBtu)
DSCF	Dry Standard (At Standard Conditions) Cubic Foot (Feet)	MMBTUH	Million British Thermal Units per Hour (MMBtu/hr)
EGU	Electric Generating Unit	MMSCF	Million Standard Cubic Feet (MMscf)
EI	Emissions Inventory	MMSCFD	Million Standard Cubic Feet per Day
EPA	Environmental Protection Agency	MSDS	Material Safety Data Sheet
ESP	Electrostatic Precipitator	MWC	Municipal Waste Combustor
EUG	Emissions Unit Group	MWe	Megawatt Electrical
EUSGU	Electric Utility Steam Generating Unit	NA	Nonattainment
FCE	Full Compliance Evaluation	NAAQS	National Ambient Air Quality Standards
FCCU	Fluid Catalytic Cracking Unit	NAICS	North American Industry Classification System
FEL	Federally Enforceable Limit(s)		
FESOP	Federally Enforceable State Operating Permit		
FIP	Federal Implementation Plan		
FR	Federal Register		

NESHAP	National Emission Standards for Hazardous Air Pollutants	SCC	Source Classification Code
NH₃	Ammonia	SCF	Standard Cubic Foot
NMHC	Non-methane Hydrocarbon	SCFD	Standard Cubic Feet per Day
NGL	Natural Gas Liquids	SCFM	Standard Cubic Feet per Minute
NO₂	Nitrogen Dioxide	SCR	Selective Catalytic Reduction
NO_x	Nitrogen Oxides	SEP	Supplemental Environmental Project
NOI	Notice of Intent	SER	Significant Emission Rate
NSCR	Non-Selective Catalytic Reduction	SI	Spark Ignition
NSPS	New Source Performance Standards	SIC	Standard Industrial Classification
NSR	New Source Review	SIP	State Implementation Plan
O₃	Ozone	SNCR	Selective Non-Catalytic Reduction
O&G	Oil and Gas	SO₂	Sulfur Dioxide
O&M	Operation and Maintenance	SO_x	Sulfur Oxides
O&NG	Oil and Natural Gas	SOP	Standard Operating Procedure
OAC	Oklahoma Administrative Code	SRU	Sulfur Recovery Unit
OC	Oxidation Catalyst	T	Tons
OGI	Optical Gas Imaging	TAC	Toxic Air Contaminant
PAH	Polycyclic Aromatic Hydrocarbons	TEG	Triethylene Glycol
PAE	Projected Actual Emissions	THC	Total Hydrocarbons
PAL	Plant-wide Applicability Limit	TPY	Tons per Year
Pb	Lead	TRS	Total Reduced Sulfur
PBR	Permit by Rule	TSP	Total Suspended Particulates
PCB	Polychlorinated Biphenyls	TV	Title V of the Federal Clean Air Act
PCE	Partial Compliance Evaluation	µg/m³	Micrograms per Cubic Meter
PEA	Portable Emissions Analyzer	US EPA	U. S. Environmental Protection Agency
PFAS	Per- and Polyfluoroalkyl Substance	VFR	Vertical Fixed Roof
PM	Particulate Matter	VMT	Vehicle Miles Traveled
PM_{2.5}	Particulate Matter with an Aerodynamic Diameter <= 2.5 Micrometers	VOC	Volatile Organic Compound
PM₁₀	Particulate Matter with an Aerodynamic Diameter <= 10 Micrometers	VOL	Volatile Organic Liquid
POM	Particulate Organic Matter or Polycyclic Organic Matter	VRT	Vapor Recovery Tower
ppb	Parts per Billion	VRU	Vapor Recovery Unit
ppm	Parts per Million	YR	Year
ppmv	Parts per Million Volume	2SLB	2-Stroke Lean Burn
ppmvd	Parts per Million Dry Volume	4SLB	4-Stroke Lean Burn
PSD	Prevention of Significant Deterioration	4SRB	4-Stroke Rich Burn
psi	Pounds per Square Inch		
psia	Pounds per Square Inch Absolute		
psig	Pounds per Square Inch Gage		
RACT	Reasonably Available Control Technology		
RATA	Relative Accuracy Test Audit		
RAP	Regulated Air Pollutant or Reclaimed Asphalt Pavement		
RFG	Refinery Fuel Gas		
RICE	Reciprocating Internal Combustion Engine		
RO	Responsible Official		
ROAT	Regional Office at Tulsa		
RVP	Reid Vapor Pressure		