

MEMO TO : File
Targa Badlands, LLC
Little Missouri Gas Plant (LMGP) and Smokey Compressor Station (SCS)
McKenzie County

FROM : Raina Cardwell
Environmental Scientist
Division of Air Quality

RE : November 15, 2023, request to replace an engine at Smokey Compressor Station

DATE : March 11, 2024

Targa Badlands, LLC (Targa) submitted a permit to construct application to the North Dakota Department of Environmental Quality – Division of Air Quality (Department) on November 15, 2023. The application requested to replace an engine at the existing natural gas plant and compressor station (Little Missouri Gas Plant and Smokey Compressor Station or facility) located in McKenzie County, North Dakota.

The facility currently operates under Air Permit to Operate No. AOP-28407 v2.0, which expires on November 1, 2025.

Air Permit to Construct No. ACP-18221 v1.0 includes the removal of a natural gas-fired engine (EU SCS-10) rated at 1,053 bhp and the installation of a new natural gas fired engine (EU SCS-10a) rated at 1,500 bhp. The new emission unit (EU SCS-10a) will have NSPS JJJJ and MACT ZZZZ applicability. There are no other changes associated with this permit action.

An updated potential to emit for the facility, resulting from this permit action, is included in Table 1. The facility will remain a Title V source with this permit action. As shown in Table 1, changes to facility emissions with this permit action are minimal at less than 10 tons per year for a species (not including CO₂).

Table 1 – Project and Post Project Facility PTE for NSR Pollutants (tons per year)

Facility-wide Emissions	CO	NO_x	SO₂	VOCs	PM	HAPs
Existing Facility (Pre-Project)	322.3	246.2	1.3	380.1	19.2	25.0
Project Emissions Increase ^A	6.0	0.2	0.0	2.2	0.6	0.0
Facility-wide Post Project	328.3	246.4	1.3	382.3	19.8	25.0

^A Includes potential emissions from installation of new engine and removal of existing engine.

A complete review of the proposed project indicates that the facility is expected to comply with the applicable federal and state air pollution rules and regulations. The Department will make a

final recommendation on the issuance of a Permit to Construct for the facility following the completion of a 30-day public comment period from March 13, 2024, through April 12, 2024.

RLC:

DRAFT