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MEMO TO : File
ONEOK Rockies Midstream, L.L.C.
Alamo Compressor Station
Williams County, North Dakota

FROM : Raina Cardwell
Environmental Scientist
Division of Air Quality

RE : August 26, 2024, application for a Permit to Construct

DATE : [Reserved]

ONEOK Rockies Midstream, L.L.C. (ONEOK) submitted a permit to construct application to the North Dakota Department of Environmental Quality – Division of Air Quality (Department) on August 26, 2024. The application requested updates to the condensate tanks and updates to the condensate truck loading emissions based on an increase in the throughput at the existing compressor station (Alamo Compressor Station or facility) located in Williams County, North Dakota.

The Alamo Compressor Station currently operates under Air Permit to Construct No. ACP-18226 v1.0. The facility will be issued an operating permit after completion of construction and a compliance inspection.

ONEOK requested updates to the six condensate tanks (EUs TK-1 through TK-3 & TK-6 through TK-8) to remove the VOC emissions restrictions, as the tanks will comply with the applicable requirements of NSPS Subpart OOOOb. Additionally, ONEOK requested a throughput restriction on the condensate truck loading (EU TL-1) to limit VOC emissions below Department guidance thresholds[1] as the facility throughput is increased with the addition of the compressor (EU C-7).

There are no equipment changes proposed in this permit, Air Permit to Construct No. ACP-18266 v1.0. The facility will remain a synthetic minor source with this permit action. Furthermore, there are no significant changes in the potential emissions from the facility with this permit action.

[1] See https://www.deq.nd.gov/publications/AQ/policy/PC/Cond_Loadout_Memo.pdf

Table 1 – Facility-wide PTE (tons per year) [A]

Emission Unit Description	Emission Unit (EU)	Emission Point (EP)	CO	NO_X	SO_2	VOCs	PM	PM_{10}	$PM_{2.5}$	Total HAPs	Formaldehyde (Largest HAP)
Natural gas-fired engine [B]	C-7	C-7	48.3	24.1	0.0	16.9	1.5	1.5	1.5	1.7	1.6
400-bbl condensate tank	TK-1	VRU	-	-	-	5.8	-	-	-	0.3	-
400-bbl condensate tank	TK-2		-	-	-	0.4	-	-	-	0.0	-
400-bbl condensate tank	TK-3		-	-	-	0.4	-	-	-	0.0	-
400-bbl condensate tank	TK-6		-	-	-	5.8	-	-	-	0.3	-
400-bbl condensate tank	TK-7		-	-	-	0.4	-	-	-	0.0	-
400-bbl condensate tank	TK-8		-	-	-	0.4	-	-	-	0.0	-
200-bbl methanol tank	TK-4	TK-4	-	-	-	0.2	-	-	-	0.2	-
Condensate truck loading	TL-1	TL-1	-	-	-	20.0	-	-	-	1.5	-
Emergency flare	FL-1	FL-1	0.3	0.1	0.2	0.2	0.0	-	-	0.0	0.0
Blowdowns and maintenance venting	BD	BD	-	-	-	4.3	-	-	-	0.0	-
Fugitive emissions	FUG	FUG	-	-	-	11.8	-	-	-	0.3	-
Six electric-driven compressors	EC-1 through EC-6	EC-1 through EC-6	-	-	-	-	-	-	-	-	-
Total (without Fugitives):			**48.5**	**24.3**	**0.3**	**54.8**	**1.5**	**1.5**	**1.5**	**4.0**	**1.6**
Total (with Fugitives):			**48.5**	**24.3**	**0.3**	**66.6**	**1.5**	**1.5**	**1.5**	**4.4**	**1.6**

Emission Unit Description	Emission Unit (EU)	Emission Point (EP)	CO	NO_X	SO_2	VOCs	PM	PM_{10}	$PM_{2.5}$	Total HAPs	Formaldehyde (Largest HAP)

[A] Abbreviations:
PM: filterable and condensable particulate matter
$PM_{2.5}$: filterable and condensable particulate matter with an aerodynamic diameter less than or equal to 2.5 microns (≤2.5 μm)
PM_{10}: filterable and condensable particulate matter with an aerodynamic diameter less than or equal to 10 microns (≤10 μm) including $PM_{2.5}$
SO_2: sulfur dioxide
NO_X: oxides of nitrogen
CO: carbon monoxide
VOCs: volatile organic compounds
HAPs: hazardous air pollutants as defined in Section 112(b) of the Clean Air Act

[B] New unit associated with the Project

The facility PTE is based on the enforceable throughput restriction put in place on the condensate truck loading (EU TL-1), limiting the allowable amount of VOC. This restriction means the facility is a synthetic minor source of air pollution, as the emissions are limited to below Department guidance thresholds.

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 Alamo Compressor Station following completion of a 30-day public comment period. The public comment period will run from January 27, 2025, through February 26, 2025.

Update post comment period:
[Reserved]

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