STATEMENT OF BASIS for LNG PLANT STATION

TITLE V OPERATING PERMIT SIGNIFICANT MODIFICATION

Program Interest (PI): 02626 / Permit Activity Number: BOP220001

I. FACILITY INFORMATION

LNG Plant Station is located at 718 Paterson Plank Road, Carlstadt, NJ in Bergen County and consists of a Liquefied Natural Gas (LNG) storage plant. The facility is owned and operated by the Transcontinental Gas Pipeline Company LLC (Transco).

The facility is classified as a major facility based on its potential to emit 29 tons per year of nitrogen oxides.

This permit allows individual hazardous air pollutants to be emitted at a rate to not exceed: 0.675 tons per year of acrolein and 4.98 tons per year of formaldehyde.

II. AREA ATTAINMENT CLASSIFICATION

The Federal Clean Air Act (CAA) sets National Ambient Air Quality Standards (NAAQS) for six common air pollutants. These commonly found air pollutants (also known as "criteria pollutants") are particulate matter, ground-level ozone, carbon monoxide (CO), sulfur dioxide (SO2), nitrogen dioxide (NO2), and lead. The US Environmental Protection Agency (USEPA) also classifies areas as "attainment" or "nonattainment" for each criteria pollutant, based on the magnitude of an area's problem. Nonattainment classifications are used to specify what air pollution reduction measures an area must adopt, and when the area must reach attainment. Currently, the entire State of New Jersey is designated as nonattainment for the 8-hour ozone NAAQS. New Jersey is designated attainment for all other pollutants. For nonattainment classification refer to https://www.epa.gov/green-book/green

III. BACKGROUND AND HISTORY

The equipment that emits air contaminants from this facility include: six process heaters, one storage vessel, one combustion turbine, an emergency flare, and an emergency fire pump.

A Facility-Wide Risk Assessment will be conducted during the next Operating Permit Renewal process. Health Risk Assessment was not conducted with this permit modification since no changes were made to Air Toxics (including HAPs) emissions.

This is a Permit Modification and includes the following changes:

-Added 4 water bath heaters to U7.

-Old water bath heaters will remain in permit until the new heaters are installed onsite to replace the old heaters, and an application is submitted to remove the old water bath heaters. Only four water bath heaters will be operational at any time.

-All water bath heaters will comply with the natural gas usage limit.

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This modification will also change the facility-wide emission limits as listed in the following table:

	Facility's Potential Emissions (tons per year)*									
Allowable Emission Limits	VOC (total)	NOx	CO	SO ₂	TSP (total)	PM ₁₀ (total)	PM _{2.5} (total)	Pb	HAPs (total)	CO ₂ e (total)
Current Permit	4.18	28.9	33.0	1.15	3.54	4.10	4.10	NA	1.03	57,000
Proposed Permit	4.24	28.9	33.0	1.15	3.54	4.10	4.10	NA	1.03	57,000
Change (+ / -)	0.06	0	0	0	0	0	0	0	0	0

PM₁₀

PM_{2.5}

HAPs

Lead

Pb

Particulates under 10 microns

Particulates under 2.5 microns

Hazardous Air Pollutants

Carbon Dioxide equivalent

VOC Volatile Organic Compounds

- NOx Nitrogen Oxides
- Carbon Monoxide CO
- SO₂ Sulfur Dioxide

Total Suspended Particulates TSP

CO₂e * Other Any other air contaminant regulated under the Federal Clean Air Act.

IV. CASE-BY-CASE DETERMINATIONS

No case-by-case determinations were required for this modification.

V. EMISSION OFFSET REQUIREMENTS

This modification is not subject to Emission Offset requirements.

VI. BASIS FOR MONITORING AND RECORDKEEPING REQUIREMENTS

The facility's operating permit includes monitoring, recordkeeping and reporting requirements that are sufficient to demonstrate the facility's continued compliance with the applicable requirements consistent with the following:

- 1. Provisions to implement the testing and monitoring requirements of N.J.A.C. 7:27-22.18, the recordkeeping and reporting requirements of N.J.A.C. 7:27-22.19, and all emissions monitoring and analysis procedures or compliance assurance methods required under the applicable requirements, including any procedures and methods promulgated pursuant to 40 CFR 64; and
- 2. Where the applicable requirement does not require direct periodic monitoring of emissions, the Department requires periodic monitoring of surrogate parameters sufficient to vield reliable data from the relevant time period that are representative of the facility's compliance with the permit.

For Waterbath Heaters U7, the facility monitors natural gas usage as the surrogate for the longterm (TPY) emission limits for all air pollutants.

- 3. In some cases, direct periodic monitoring of emissions and/or surrogate parameters is not required due to one or more of the following:
 - Equipment size and capacity limitations, •
 - Subject equipment being permitted at the maximum rated capacity, •
 - There is no specific state or Federal standard that applies to this piece of equipment, •
 - Not a pollutant of concern for this piece of equipment,
 - Agreements with EPA on the frequency of testing and monitoring for combustion sources.

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VII. APPLICABLE STATE AND FEDERAL RULES

This modification is subject to New Jersey Air Pollution Control Regulations, codified in N.J.A.C. 7:27-1 through 34, as applicable. A complete text of these regulations is available at: http://www.nj.gov/dep/aqm/rules27.html

The facility is also subject to Federal regulations listed below. NSPS Subpart A: General Provisions NSPS Subpart Dc: Small Industrial-Commercial-Institutional Steam Generating Units

The Greenhouse Gas (GHG) emissions from this facility are 57,000 TPY CO2e and there is no GHG emissions increase. This renewal is not subject to PSD rules at 40 CFR 52.21.

VIII. FACILITY'S COMPLIANCE STATUS

The Responsible Official at the facility has certified that the facility currently meets all applicable requirements of the Federal Clean Air Act and the New Jersey Air Pollution Control Act. Based on this certification, the Department's evaluation of the information included in the facility's application, and a review of the facility's compliance status, the Department has concluded that this air pollution control operating permit should be approved.

This operating permit includes a permit shield, pursuant to the provisions of N.J.A.C. 7:27-22.17. A permit shield provides that compliance with the relevant conditions of the operating permit shall be deemed compliance with the specific applicable requirements that are in effect on the date of issuance of the draft operating permit, and which form the basis for the conditions in the operating permit.

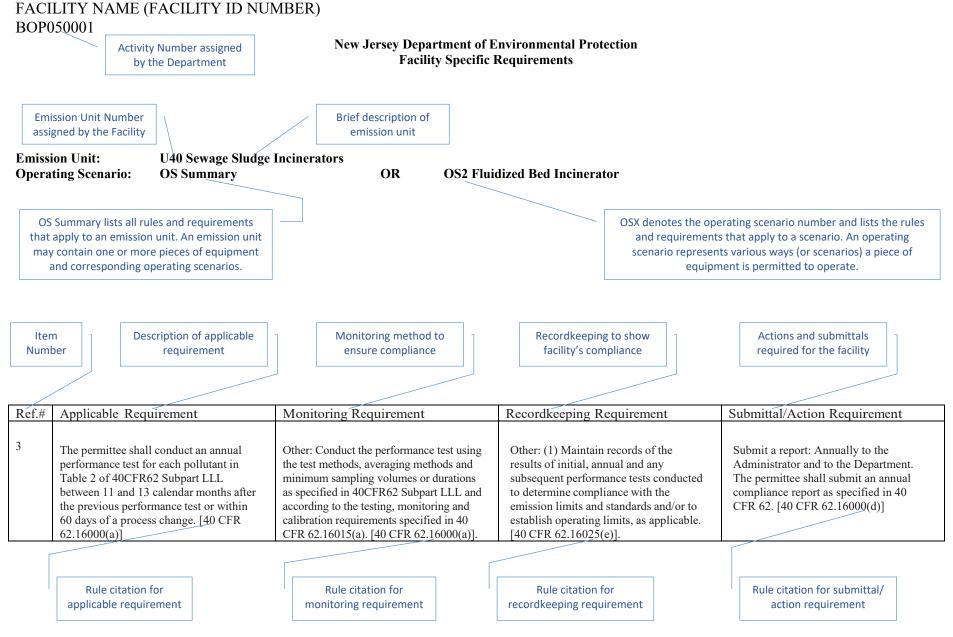
Prior to the expiration of the Operating Permit's five-year term, the facility will be required to apply for a renewal, at which time the Department will evaluate the facility and issue a public notice with its findings.

This operating permit includes a permit shield, pursuant to the provisions of N.J.A.C. 7:27-22.17. A permit shield provides that compliance with the relevant conditions of the operating permit shall be deemed compliance with the specific applicable requirements that are in effect on the date of issuance of the draft operating permit, and which form the basis for the conditions in the operating permit.

Also, prior to the expiration of the five-year period, the facility will be required to apply for a renewal of this operating permit, at which time the Department will evaluate the facility and issue a public notice with its findings.

IX. EXEMPT ACTIVITIES

The facility's operating permit does not include exempt activities such as office and interior maintenance activities, maintenance shop activities, food preparation facilities, cafeterias, dining rooms, etc. A complete list of exempt activities, as allowed by the Operating Permit rule, can be found at N.J.A.C. 7:27-22.1.



Explanation Sheet for Facility Specific Requirements