

CONSTRUCTION PERMIT SUMMARY REPORT

Company Name: Linde Gas North America, LLC File Number: 06-0284-00 Env. Prot. Spec. Initials: SKS

Permit Number(s): 965288P Source Point Number(s): 01,

Application Received (date): January 7, 2015 Application Complete (date): February 25, 2015

Air Quality Analysis Performed? Yes ☐ No ☒

Briefly describe the project: (new source, modifications) (what the process is) (type controls proposed) (emissions expected, qualitative) (replacing what sources) (background information)

Linde Gas is a true minor source. But the emissions from this source will be added to Wacker Polysilicon North America's emissions to determine the major status. The previous permit 965288P was for sources 01 and 02, the 2 hydrogen reformers onsite. The company has asked for an amendment and extension for construction at this facility. There will be only one hydrogen reformer at this site. This facility produces hydrogen for exclusive use in Wacker Polysilicon's manufacturing plant, located at the same site.

All pollutants of combustion are expected from this source. Due to the amount and type of emissions, the use of add-on pollution control equipment is not proposed.

Linde submitted a performance test report for a similar but larger unit in Anacortes, WA, done on August 8, 2014. Emission factors from this test showed emissions from this source to be in compliance with the limits proposed on the permit.

Rules Analysis

Title V ☐ Cond. Major ☐ Minor ☒ Source category listed in 1200-3-9-.01(4)(b)1.(i)? Yes ☐ No ☒

Reason for PSD:	New source above _____ TPY <input type="checkbox"/>	Sig. increase in _____ emissions <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
Applicable NSPS:	40 CFR Part 60, _____ <input type="checkbox"/>	State Rule 1200-3-16-, _____ <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
Applicable NESHAP:	40 CFR Part _____ <input type="checkbox"/>	State Rule 1200-3-11-, _____ <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
“ “	40 CFR Part 63, Subpart _____ <input type="checkbox"/>	State Rule 1200-3-31-, _____ <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>

Other Applicable State Rules

TSP (PM) Emissions:	1200-3- <u>06</u> - <u>.02(2)</u>	<input checked="" type="checkbox"/> N/A <input type="checkbox"/>	NO _x Emissions:	1200-3- <u>07</u> - <u>.07(2)</u>	<input checked="" type="checkbox"/> N/A <input type="checkbox"/>
SO ₂ Emissions:	1200-3- <u>14</u> - <u>.01(3)</u>	<input checked="" type="checkbox"/> N/A <input type="checkbox"/>	Hexane Emissions:	1200-3- <u>07</u> - <u>.07(2)</u>	<input checked="" type="checkbox"/> N/A <input type="checkbox"/>
CO Emissions:	1200-3- <u>07</u> - <u>.07(2)</u>	<input checked="" type="checkbox"/> N/A <input type="checkbox"/>	_____ Emissions:	1200-3- _____	<input type="checkbox"/> N/A <input checked="" type="checkbox"/>
VOC Emissions:	1200-3- <u>07</u> - <u>.07(2)</u>	<input checked="" type="checkbox"/> N/A <input type="checkbox"/>	_____ Emissions:	1200-3- _____	<input type="checkbox"/> N/A <input checked="" type="checkbox"/>

Visible Emissions from entire source not to exceed 20 % opacity per Method 9 (Rule 1200-3- 5 - .01(1))

Emission Summary

Source Status: New ☐ Modification ☒ Expansion ☐ Relocation ☐ **Permit Status:** New ☐ Renewal ☐

PSD ☐ NSPS ☐ NESHAPs ☐

Previous Permit Number:

965288

N/A

Construction

Operating

	Pounds/Hour			Tons/Year				Date of Data	Applicable Standard TAPCR 1200-03-
	Actual	Potential	Allowable	Actual	Potential	Allowable	Net Change		
PM			9.0			39.42			06-.02
SO ₂			0.01			0.06			14-.03(5)
CO			0.98			4.29			07-.07(2)
VOC			0.45			1.97			07-.07(2)
NO _x			1.51			6.61			07-.07(2)
Hexane						0.22			07-.07(2)
GHG									07-.07(2)

* from construction permit amendment application dated January 7, 2015.

East Tennessee Permit Program: SKS

Date: April 1, 2015