

# Statement of Basis For Title V Permit

Company Name	General Electric Company - Newark Quartz Plant	
Premise Number	01-45-00-0213	
Number of Non-insignificant Emissions Units	30	
What makes this facility a Title V facility?	Potential emissions for particulate and actual emissions for nitrogen oxides	
Has each insignificant emissions unit been reviewed to confirm it meets the definition in 3745-77-01 (U)?	Yes.	

<b>Part II (State and Federally Enforceable Requirements)</b>			
Term and Condition (paragraph)	Basis		Comments
	SIP (3745- )	Other	
A.1	23-06		Specifies a control efficiency for the control device as latest available control technology
A.2	N	Y	synthetic minor limitation for nitrogen oxide emissions
A.3.a	N	Y	recordkeeping requirement for synthetic minor limitation
A.3.b	N	Y	CEM requirement to ensure SCR efficiency and NOx emission reads and recordkeeping from CEM
A.3.c and A.3.d	N	Y	CEM malfunction recordkeeping
A.4	N	Y	CEM certification
A.5	N	Y	CEM malfunction
A.6.a	N	Y	quarterly deviation reporting for synthetic minor limitation
A.6.b	N	Y	annual reporting for synthetic minor limitation
A.6.c	N	Y	data reporting for CEM malfunctions
A.6.d	N	Y	electronic data reporting for excess emissions from CEM
A.7	N	Y	for SCR unit, requirement to submit written quality assurance/quality control plan

A.8.a	N	Y	compliance demonstration for nitrogen oxide emissions via CEM annual certification
A.8.b	N	Y	SCR unit stack testing requirement
B.1	N	Y	ammonia emissions limitation
B.2	N	Y	air toxics modeling
B.3	N	Y	ammonia stack testing requirement
B.4	N	Y	identification of insignificant emissions units

▼ **Instructions for Part II:**

Each paragraph in Part II must be identified and the remainder of the table completed. If the SIP (not including 31-05) is the basis for the term and condition, identify the specific rule. If the SIP is not the basis for the term and condition, place an “N” in the column under “SIP.” If the basis for the term and condition is something other than the SIP, including 3745-31-05, NSPS or MACT, a “Y” should be noted in the “Other” column, and if not, an “N” should be noted. Whether the basis for the term and condition is the “SIP” or “Other,” an explanation of each term and condition in Part II must be provided in the “Comments” section.

- ▼ If there were any “common control” issues associated with this facility, after the table for Part II, provide a summary of those issues and explain how the DAPC decided to resolve them.

**Part III (Requirements Within the State & Federally Enforceable Section)**

EU(s)	Limitation	Basis		N D	O R	M	S t	E N F	R	S t	Rp	St	E T	M isc	Comments
		SIP (374 5- )	Other												
B001 B002 B003 B004 B005 B006 B023 B024 B025 B026 B027 B028 B029 B030 B031 P008 P009 P010 P011 P012 P014 P015 P017 P020 P021 P025 P032 P033 P035 P036	Visible particulate emissions shall not exceed 20% opacity as a six-minute average, except as provided by rule.	17-07 (A)(1 )	N	N	N	Y	Y	N	Y	Y	Y	Y	Y	N	M - no monitoring requirements associated with this limitation R - no record keeping requirements associated with this limitation Rp - no reporting requirements associated with this limitation

B001 B002 B003 B004 B005 B006 B023 B024 B025 B026 B027 B028 B029 B030 B031 P010 P011 P012 P014 P015 P021 P032 P035 P036	Total nitrogen oxide emissions shall not exceed 210.7 tons per year for emissions units B001, B002, B003, B004, B005, B006, B023, B024, B025, B026, B027, B028, B029, B030, B031, P010, P011, P012, P014, P015, P021, P032, P035 and P036 combined as a rolling 12-month summation.	31-05(D)	N	N	Y	Y	Y	N	Y	Y	Y	Y	Y	N	
B001 B002 B003 B004 B005 B006 B023 B024 B025 B026 B027 B028 B029 B030 B031 P014 P015 P021 P032 P036	Particulate emissions shall not exceed 0.55 pound per hour based on Table 1.	17-11(B)(1)	N	N	N	N	N	N	N	N	N	N	Y	N	M - no monitoring requirements associated with this limitation R - no record keeping requirements associated with this limitation Rp - no reporting requirements associated with this limitation

B001 B002 B003 B004 B005 B006 B023 B024 B025 B026 B027 B028 B029 B030 B031 P014 P015 P021 P032 P036	Particulate emissions shall not exceed 2.4 tons per year.	31-05(A)(3)	N	N	N	N	N	N	N	N	N	N	N	N	N	M - no monitoring requirements associated with this limitation R - no record keeping requirements associated with this limitation Rp - no reporting requirements associated with this limitation ET - compliance through calculation from stack test results
B001 B002 B003 B004 B005 B006	Nitrogen oxide emissions shall not exceed 6.84 pounds per hour.	31-05(A)(3)	N	N	N	N	N	N	N	N	N	N	N	Y	N	M - no monitoring requirements associated with this limitation R - no record keeping requirements associated with this limitation Rp - no reporting requirements associated with this limitation
B023 B024 B025 B026 B027 B028 B029 B031 P032	Nitrogen oxide emissions shall not exceed 5.87 pounds per hour.	31-05(A)(3)	N	N	N	N	N	N	N	N	N	N	N	Y	N	M - no monitoring requirements associated with this limitation R - no record keeping requirements associated with this limitation Rp - no reporting requirements associated with this limitation
B030	Nitrogen oxide emissions shall not exceed 7.34 pounds per hour.	31-05(A)(3)	N	N	N	N	N	N	N	N	N	N	N	Y	N	M - no monitoring requirements associated with this limitation R - no record keeping requirements associated with this limitation Rp - no reporting requirements associated with this limitation
P014 P015	Nitrogen oxide emissions shall not exceed 8.25 pounds per hour.	31-05(A)(3)	N	N	N	N	N	N	N	N	N	N	N	Y	N	M - no monitoring requirements associated with this limitation R - no record keeping requirements associated with this limitation Rp - no reporting requirements associated with this limitation

P021	Nitrogen oxide emissions shall not exceed 1.00 pound per hour.	31-05(A)(3)	N	N	N	N	N	N	N	N	N	N	N	Y	N	M - no monitoring requirements associated with this limitation R - no record keeping requirements associated with this limitation Rp - no reporting requirements associated with this limitation
P036	Nitrogen oxide emissions shall not exceed 1.1 pounds per hour.	31-05(A)(3)	N	N	N	N	N	N	N	N	N	N	N	Y	N	M - no monitoring requirements associated with this limitation R - no record keeping requirements associated with this limitation Rp - no reporting requirements associated with this limitation
P009	Nitrogen oxide emissions shall not exceed 3.3 pounds per hour.	31-05(A)(3)	N	N	N	N	N	N	N	N	N	N	N	Y	N	M - no monitoring requirements associated with this limitation R - no record keeping requirements associated with this limitation Rp - no reporting requirements associated with this limitation
P008 P025	Nitrogen oxide emissions shall not exceed 4.13 pounds per hour.	31-05(A)(3)	N	N	N	N	N	N	N	N	N	N	N	Y	N	M - no monitoring requirements associated with this limitation R - no record keeping requirements associated with this limitation Rp - no reporting requirements associated with this limitation
P008 P009 P025	Total nitrogen oxide emissions shall not exceed 18.1 tons per year for emissions units P008, P009 and P025 as rolling 12-month summation	31-05(D)	N	N	Y	N	Y	N	Y	Y	Y	Y	N	N	N	M - no monitoring requirements associated with this limitation ET - compliance through calculations
P009	Particulate emissions shall not exceed 0.74 pound per hour.	17-11(B)(1)	N	N	N	N	N	N	N	N	N	N	N	Y	N	M - no monitoring requirements associated with this limitation R - no record keeping requirements associated with this limitation Rp - no reporting requirements associated with this limitation
P017	Particulate emissions shall not exceed 1.23 pounds per hour.	31-05(A)(3)	N	N	Y	Y	N	N	Y	N	Y	N	N	N	N	ET - compliance through calculations

P020	Particulate emissions shall not exceed 0.3125 pound per hour.	31-05(A)(3)	N	N	Y	Y	Y	N	Y	Y	Y	Y	Y	N	ET - compliance through calculation from stack test results
P033	Particulate emissions shall not exceed 0.10 pound per hour.	31-05(A)(3)	N	N	Y	Y	Y	N	Y	Y	Y	Y	Y	N	ET - compliance through calculation from stack test results
P008 P025	Particulate emissions shall not exceed 1.042 pounds per hour.	17-11(B)(1)	N	N	N	N	N	N	N	N	N	N	Y	N	M - no monitoring requirements associated with this limitation R - no record keeping requirements associated with this limitation Rp - no reporting requirements associated with this limitation
P009	Particulate emissions shall not exceed 3.25 tons per year.	31-05(A)(3)	N	N	N	N	N	N	N	N	N	N	N	N	M - no monitoring requirements associated with this limitation R - no record keeping requirements associated with this limitation Rp - no reporting requirements associated with this limitation ET - compliance through calculations using hourly stack test results
P017	Particulate emissions shall not exceed 5.4 tons per year.	31-05(A)(3)	N	N	Y	Y	N	N	Y	N	Y	N	N	N	ET - compliance through calculations
P020	Particulate emissions shall not exceed 1.4 tons per year.	31-05(A)(3)	N	N	Y	Y	Y	N	Y	Y	Y	Y	N	N	ET - compliance through calculations
P033	Particulate emissions shall not exceed 0.55 ton per year.	31-05(A)(3)	N	Y		Y	Y	N	Y	Y	Y	Y	N	N	ET - compliance through calculations
P008 P025	Particulate emissions shall not exceed 4.6 tons per year.	31-05(A)(3)	N	N	N	N	N	N	N	N	N	N	N	N	M - no monitoring requirements associated with this limitation R - no record keeping requirements associated with this limitation Rp - no reporting requirements associated with this limitation ET - compliance through calculations using hourly stack test results

P010 P011	Nitrogen oxide emissions shall not exceed 3.59 pounds per hour.	31-05(A)(3)	N	N	N	N	N	N	N	N	N	N	N	Y	N	M - no monitoring requirements associated with this limitation R - no record keeping requirements associated with this limitation Rp - no reporting requirements associated with this limitation
P012 P035	Nitrogen oxide emissions shall not exceed 4.33 pounds per hour.	31-05(A)(3)	N	N	N	N	N	N	N	N	N	N	N	Y	N	M - no monitoring requirements associated with this limitation R - no record keeping requirements associated with this limitation Rp - no reporting requirements associated with this limitation
P010 P011	Particulate emissions shall not exceed 1.6 pounds per hour.	17-11(B)(1)	N	N	N	N	N	N	N	N	N	N	N	Y	N	M - no monitoring requirements associated with this limitation R - no record keeping requirements associated with this limitation Rp - no reporting requirements associated with this limitation
P012 P035	Particulate emissions shall not exceed 1.9 pounds per hour.	17-11(B)(1)	N	N	N	N	N	N	N	N	N	N	N	Y	N	M - no monitoring requirements associated with this limitation R - no record keeping requirements associated with this limitation Rp - no reporting requirements associated with this limitation
P010 P011	Particulate emissions shall not exceed 7.00 tons per year.	31-05(A)(3)	N	N	N	N	N	N	N	N	N	N	N	N	N	M - no monitoring requirements associated with this limitation R - no record keeping requirements associated with this limitation Rp - no reporting requirements associated with this limitation ET - compliance through calculations using hourly stack test results
P012 P035	Particulate emissions shall not exceed 8.1 tons per year.	31-05(A)(3)	N	N	N	N	N	N	N	N	N	N	N	N	N	M - no monitoring requirements associated with this limitation R - no record keeping requirements associated with this limitation Rp - no reporting requirements associated with this limitation ET - compliance through calculations using hourly stack test results
P037	Hydrogen fluoride emissions shall not exceed 0.15 pound per hour and 0.66 ton per year.	31-05(A)(3)	N	N	N	N	N	N	N	N	N	N	N	Y	N	M - no monitoring requirements associated with this limitation R - no record keeping requirements associated with this limitation Rp - no reporting requirements associated with this limitation
P037	Nitric acid emissions shall not exceed 0.07 pound per hour and 0.31 ton per year.	31-05(A)(3)	N	N	N	N	N	N	N	N	N	N	N	Y	N	M - no monitoring requirements associated with this limitation R - no record keeping requirements associated with this limitation Rp - no reporting requirements associated with this limitation

P037	Hydrogen peroxide emissions shall not exceed 0.08 pound per hour and 0.35 ton per year.	31-05(A)(3)	N	N	N	N	N	N	N	N	N	N	N	N	Y	N	M - no monitoring requirements associated with this limitation R - no record keeping requirements associated with this limitation Rp - no reporting requirements associated with this limitation
P037	Ammonia emissions shall not exceed 0.9 pound per hour and 3.94 tons per year.	31-05(A)(3)	N	N	N	N	N	N	N	N	N	N	N	N	Y	N	M - no monitoring requirements associated with this limitation R - no record keeping requirements associated with this limitation Rp - no reporting requirements associated with this limitation

EU = emissions unit id

ND = negative declaration (i.e., term that indicates that a particular rule(s) is (are) not applicable to a specific emission unit)

OR = operational restriction

M = monitoring requirements

St = streamlining term used to replace a PTI monitoring, record keeping, or reporting requirements with an equivalent or more stringent requirement

ENF = did noncompliance issues drive the monitoring requirements?

R = record keeping requirements

Rp = reporting requirements

ET = emission testing requirements (not including compliance method terms)

Misc = miscellaneous requirements

▼ **Instructions for Part III:**

- ▼ All non-insignificant EUs must be included in this table. For each EU, or group of similar EUs, each emission limitation and control requirement specified in section A.I.1 and A.I.2 of the permit must be identified and the remainder of the table completed.
- ▼ If the SIP (not including 31-05) is the basis for the term and condition, identify the specific rule. If the SIP is not the basis for the term and condition, place an “N” in the column under “SIP.” If the basis for the term and condition is something other than the SIP, including 3745-31-05, NSPS or MACT, a “Y” should be noted in the “Other” column, and if not, an “N” should be noted. If the basis for the term and condition is “Other,” an explanation of the basis must be provided in the “Comments” section.

To complete the remainder of the table after “Basis,” except for the “Comments” section, simply specify a “Y” for yes or an “N” for no. For the “M”, “R”, “Rp” and “ET” columns, if “N” is specified, there should be a brief explanation in the “Comments” section as to why there are no requirements. Also, if a “Y” is noted under “OR” or “Misc,” an explanation of the requirements should be provided in the “Comments” section. In addition to a general explanation of the “OR” and/or “Misc,” the following should be provided:

1. For an operational restriction, clarify if appropriate monitoring, record keeping, reporting requirements have been specified for the operational restriction and indicate whether or not CAM is currently applicable.
2. If a control plan and schedule is included in the “Miscellaneous Requirements” section of the permit, provide an explanation in the “Comments” section of the violation, basis for the violation, and the company’s proposed control plan and schedule.
3. If superseding language is included in the “Miscellaneous Requirements” section of the permit, explain which requirements are being

superseded and which requirements are being superseded on the State-only side of the permit and why they are on the State-only side.

An explanation is not required if an “N” is noted in the “OR” column or in the “Misc” column.

- ▼ Any unusual requirements or aspects of the terms and conditions in Part III that are not self-explanatory should be explained in a paragraph following the table for Part III.