

Statement of Basis For Title V Permit

Part I - General	
Company Name	Libbey Glass Inc.
Premise Number	0448010066
What makes this facility a Title V facility?	NOx, SO2 & PM10
Has each insignificant emissions unit been reviewed to confirm it meets the definition in OAC rule 3745-77-01 (U)?	yes
Were there any "common control" issues associated with this facility? If yes, provide a summary of those issues and explain how the DAPC decided to resolve them.	no
Please identify the affected unit(s) and associated PTI, if applicable, along with a brief description of any changes to the permit document that qualify as a minor permit modification per OAC rule 3745-77-08(C)(1)	<p>F005 - Permanently shut-down.</p> <p>F007 - Renamed emission unit to (F-2 Forming line).</p> <p>F008 - Renamed emission unit to (D-3 Forming line).</p> <p>F011 - Renamed emission unit to (D-2 Forming line).</p> <p>F014 - Renamed emission unit to (G-6 Forming line).</p> <p>F019 - Renamed emission unit to (G-4 Forming line). New emission unit installed 11/2004.</p> <p>F020 - Renamed emission unit to (D-1 Forming line). New emission unit installed 6/2005.</p> <p>K001 - De minimis, PTI 04-993 issued as a corrected copy 11/8/95, coating application restricted to spray cans or brush.</p> <p>N001 - Permanently shut-down.</p> <p>P002 - Permanently shut-down.</p> <p>P007 - G-furnace was modified 6/12/2006. Electric boost was added and increased furnace capacity to 170 tons glass/day.</p> <p>P013 - Permanently shut-down.</p> <p>P014 - Permanently shut-down.</p> <p>P015 - Permanently shut-down.</p> <p>P017 - Permanently shut-down.</p> <p>P022 - F-furnace was modified after 12/ 5/2006. Furnace "foot-print" was increased resulting in a new theoretical furnace capacity of 75 tons glass/day.</p> <p>P024 - Permanently shut-down.</p> <p>R001 - Permanently shut-down.</p> <p>T001 - Permanently shut-down.</p> <p>T002 - De minimis; 40 CFR Part 60 Subpart Kb no longer applies.</p> <p>T003 - De minimis; 40 CFR Part 60 Subpart Kb no longer applies.</p> <p>Z006 - Permanently shut-down</p> <p>Z007 - Permanently shut-down</p>

Please identify the affected unit(s) and associated PTI, if applicable, along with a brief description of any changes to the permit document that qualify as a significant permit modification per OAC rule 3745-77-08(C)(3)	N/A
Please identify the affected unit(s) and associated PTI, if applicable, along with a brief description of any changes to the permit document that qualify as a reopening per OAC rule 3745-77-08(D)	N/A
Please identify the affected unit(s) and associated PTI, if applicable, along with a brief description of any changes to the permit document resulting from a renewal per OAC rule 3745-77-08(E)	<p>P007 - the BAT determination of OAC rule 3745-31-05(A)(3) established by PTI 04-1414 as issued 8/30/2005. G-furnace was modified 6/12/2006. Electric boost was added and increased furnace capacity to 170 tons glass/day.</p> <p>P022 - the BAT determination of OAC rule 3745-31-05(A)(3) established by PTI 04-1456 as issued 12/5/2006. The F-furnace was modified after 12/ 5/2006. The furnace "foot-print" was increased resulting in a new theoretical furnace capacity of 75 tons glass/day.</p>

Part II (State and Federally Enforceable Requirements)			
Term and Condition (paragraph)	Basis		Comments
	SIP (3745-)	Other	

C

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.

Part III (Requirements Within the State and Federally Enforceable Section)															
Any unusual requirements or aspects of the terms and conditions in Part III that are not self-explanatory should be explained in the appropriate comment field or in a paragraph following the table for Part III.															
EU(s)	Limitation	Basis		ND	OR	M	St	ENF	R	St	Rp	St	ET	Misc	Comments
		SIP (3745-)	Other												
B003: 7.323 MMBtu/hr gas fired boilers with #2 fuel oil backup	insignificant	15-05(B)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - NA, PTE greater than 10#/d
		31-03 (A)(1)(a)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - permanent exemption for fossil fuel-fired boilers less than ten million British thermal units per hour burning only natural gas or distillate oil (with less than or equal to 0.5 per cent by weight sulfur).
		77-01 (U)(1)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - "insignificant activities and emissions levels" includes all source categories excluded from the requirements to obtain installation permits or operating permits under 3745-31 of the Administrative Code.

B004, B005 & B006: 10.3 MMBtu/hr gas fired boilers with #2 fuel oil backup	20 percent opacity, as a 6-minute average, from the stack.	17-07 (A)(1)	N	N	Y	Y	N	N	Y	N	Y	N	Y	N	Basis - an inherently clean source combusting only natural gas or #2 fuel oil. OR - appropriate to an inherently clean source. M, R & Rp - daily visible emission checks will be used to demonstrate continuous compliance ET - these emissions units have never been stack tested. If problems are indicated by M, R & Rp Method 9 testing will be requested
	0.020 lb particulate per million Btu input.	17-10 (B)(1)	N	N	Y	Y	N	N	Y	N	Y	N	Y	N	Basis - an inherently clean source combusting only natural gas or #2 fuel oil. OR - appropriate to create an inherently clean source. M, R & Rp - daily visible emission checks will be used to indicate a need for stack testing ET - these emissions units have never been stack tested. If problems are indicated by M, R & Rp Method 5 testing will be requested
	0.52 lb of SO ₂ / per mmBtu.	N	Y	N	Y	Y	N	N	Y	N	Y	N	Y	N	Basis - OAC rule 3745-31-05(A)(3) established by PTI 04-367, as issued on November 26, 1986. OAC 3745-18-06(C) allows 1.6 pounds of sulfur dioxide per million Btu input. OR - restrictions of S content in the fuel appropriate to meet the SO ₂ emissions limitation. M, R & Rp - fuel will be tested and certified compliant on an "as received " basis. ET - these emissions units have never been stack tested. If problems are indicated by M, R & Rp Method 5 testing will be requested
	0.01 lb VOC per mmBtu.	N	Y	N	Y	Y	N	N	Y	N	Y	N	Y	N	Basis - OAC rule 3745-31-05(A)(3) established by PTI 04-367, as issued on November 26, 1986. Modified to reflect 1998 revised AP-42 emissions factors. OAC 3745-21-07(B) requires the permittee to minimize VOC emissions by use of the latest available control techniques and operating practices in accordance with best current technology. The BAT determination of PTI 04-367 satisfies this requirement. OR - gas or oil only per AP-42 emission factors used to derive the limitation. M, R & Rp - monitoring of fuel type. ET - these emissions units have never been stack tested. If problems are indicated by M, R & Rp Method 25 testing will be requested.

0.09 lb CO per mmBtu.	N	Y	N	Y	Y	N	N	Y	N	Y	N	Y	N	Basis - OAC rule 3745-31-05(A)(3) established by PTI 04-367, as issued on November 26, 1986. Modified to reflect 1998 emission values. OAC 3745-21-08(B) requiring the permittee to minimize CO emissions has been removed from the SIP OR - gas or oil only per AP-42 emission factors used to derive the limitation. M, R & Rp - monitoring of fuel type. ET - these emissions units have never been stack tested. If problems are indicated by M, R & Rp Method 10 testing will be requested.
0.145 lb of NOx per mmBtu.	N	Y	N	Y	Y	N	N	Y	N	Y	N	Y	N	Basis - OAC rule 3745-31-05(A)(3) established by PTI 04-367, as issued on November 26, 1986. Modified to reflect 1998 emission values. OAC 3745-23-06(B) requiring the permittee to minimize NOx emissions has been removed from the SIP OR - gas or oil only per AP-42 emission factors used to derive the limitation. M, R & Rp - monitoring of fuel type. ET - these emissions units have never been stack tested. If problems are indicated by M, R & Rp Method 7 testing will be requested.
The combined emissions from emissions units B004, B005, and B006 shall not exceed 34 tons of CO, 18.4 tons of NOx, 1.23 tons of PE, 38.04 tons of sulfur dioxide or 0.74 ton of VOC as a rolling 12-month summation	N	Y	N	Y	Y	N	N	Y	N	Y	N	Y	N	Basis - OAC rule 3745-31-05(C) synthetic minor limitation established by PTI 04-367, as issued on November 26, 1986. OR - oil quantity and quality restrictions to establish maximum emissions at 8760 hours per year of operation. M, R & Rp - monitoring of fuel oil quantity and quality. ET - compliance demonstrations based on a one-time worst case emissions calculation.

	NA	NSPS Dc	N	N	N	N	N	N	N	N	N	N	N	N	Basis - installed pursuant to PTI 04-367, as issued on November 26, 1986, these units were installed prior to the NSPS Dc applicability date of June 6, 1989.
F001: batch unloading facilities	insignificant deminimis	15-05(B)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - AP-42, Table 11.15-1 gives PE as negligible. Exemption from section 3704.011 of the Revised Code and rules adopted thereunder for potential emissions < ten pounds per day of particulate matter. OAC rule 3745-17-07(B)(1), 20 percent opacity as a 3-minute average, and OAC rule 3745-17-08(B)(3) RACM will not apply.
		77-01 (U)(1)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - "insignificant activities and emissions levels" includes all source categories excluded from the requirements to obtain installation permits or operating permits under 3745-15-05 of the Administrative Code.
F002: batch house	insignificant deminimis	15-05(B)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - AP-42, Table 11.15-1 gives PE as negligible. Exemption from section 3704.011 of the Revised Code and rules adopted thereunder for potential emissions < ten pounds per day of particulate matter. OAC rule 3745-17-07(B)(1), 20 percent opacity as a 3-minute average, and OAC rule 3745-17-08(B)(3) RACM will not apply.
		77-01 (U)(1)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - "insignificant activities and emissions levels" includes all source categories excluded from the requirements to obtain installation permits or operating permits under 3745-15-05 of the Administrative Code.
F003, F004, F007, F008, F009, F010, F011, F012, F013, F014 & F015: forming lines	20 percent opacity, as a 3-minute average	17-07 (B)(1)	N	N	Y	Y	N	N	Y	N	Y	N	Y	N	Basis - installed prior to the applicability of OAC rule 3745-31-05(A)(3), SIP only restrictions apply. OR - the restrictions are appropriate to an inherently clean source. M, R & Rp - monitoring, recordkeeping and reporting for these sources is limited to the type of fuel as the small amount of particulate from the molding agent is released into the building and emissions are considered fugitive. ET - compliance demonstration based standard EPA test methods. Note: Forming involves molding glassware by flowing melted glass to machines with heated dies or molds used to "form" the desired shapes. Emissions consist primarily of combustion byproducts from natural gas "open flames" used to maintain the glass the proper temperature. Modern mold release agents are silicone based and are non-photochemically reactive and low/no VOC in content (and particulate emissions)

RACM	17-08 (B)(3)	N	N	Y	Y	N	N	Y	N	Y	N	N	N	Basis - installed prior to the applicability of OAC rule 3745-31-05(A)(3), SIP only restrictions apply. OR - the restrictions are appropriate to an inherently clean source. M, R & Rp - RACM is no control. Monitoring, recordkeeping and reporting for these sources is limited to the type of fuel as the small amount of particulate from the molding agent is released into the building and emissions are considered fugitive. ET - compliance demonstration for adequate enclosure is the VE limitation specified above.
32 to 52 lbs SO ₂ /hr	18-06 (E)(2)	N	N	Y	Y	N	N	Y	N	Y	N	Y	N	Basis - installed prior to the applicability of OAC rule 3745-31-05(A)(3), SIP only restrictions apply. OR, M, R & Rp - monitoring, recordkeeping and reporting for this source demonstrates the exclusive use of natural gas or propane fuels, with a resultant small quantity of SO ₂ emitted. High allowable emissions result from the SIP process weight rate rule based on the high production rate of the glass, which (after melting) is not a significant source of sulfur. No other source of sulfur dioxide is associated with these sources. ET - compliance demonstration based standard EPA test methods. An acceptable enclosure for testing would be difficult to fabricate.
8 lbs/hr & 40 lbs/day VOC	21-07 (G)(2)	N	N	Y	Y	N	N	Y	N	Y	N	Y	N	Basis - installed prior to the applicability of OAC rule 3745-31-05(A)(3), SIP only restrictions apply. The mold release agent contacts molten glass, it is not exposed to direct flame. Hence, OAC rule 3745- 21-07(G)(1) does not apply OR, M, R & Rp - Modern mold release agents are silicone based and are non-photochemically reactive and low/no VOC in content (and particulate emissions). This term is included to allow for the potential use of a VOC containing mold release agent for "speciality" glass. ET - compliance demonstration based standard EPA test methods. An acceptable enclosure for testing would be difficult to fabricate.
VOC rule exemption	21-07 (G)(9)(f)	N	N	Y	Y	N	N	Y	N	Y	N	N	N	Basis - installed prior to the applicability of OAC rule 3745-31-05(A)(3), SIP only restrictions apply. OR, M, R & Rp - Modern mold release agents are silicone based and are non-photochemically reactive and low/no VOC in content. ET - testing is based on the definition of photochemically reactive material.

F018: roadways and parking lots	RACM, no visible emissions except for a period of time not to exceed 6 minutes paved, and 13 minutes unpaved	N	Y	N	Y	N	N	N	Y	N	Y	N	Y	N	<p>Basis - A historic source, this emissions unit is subject to SIP limitations only. The company submitted calculations based on AP-42, Section 13.2.1.3 dated 11/06, predictive factor equations for paved roads which yield: $E = [k(sL/2)^{0.65} (W/3)^{1.5} - C] [1 - (P/4N)] = 0.54 \text{ lb/VMT}$ where k = PM30 particle size multiplier = 0.82 g/vmt sL = road surface silt loading (g/m²) = 70 (=2.06 sqoz/yd) W = average vehicle weight (tons) = 2 C = exhaust brake and tire factor = 0.00047 g/vmt P = wet days = 130 N = 365 days The company extrapolated a controlled annual emissions potential of 4.4 tpy at 80,000 vmt/yr with an 80% effective control. M, R & Rp - appropriate terms and conditions have been added to the permit in compliance with OEPA template guidance. Daily visible emission checks will be used to demonstrate continuous compliance with VE for unpaved areas, weekly for paved areas.. ET - no annual emissions limitation was set for this source. Compliance would be indicated by Method 22.</p>
F019: forming line	2.64 lb/hr & 11.56 tpy CO; 0.46 lb/hr & 2.02 tpy NOx; 0.18 lb/hr & 0.79 tpy PE; 0.19 lb/hr & 0.83 tpy PM10; 0.023 lb/hr & 0.1 tpy SO2; 0.87 lb/hr & 3.81 tpy VOC; and VE shall not exceed 5% opacity as a 3-min ave.	N	Y	N	Y	Y	N	N	Y	N	Y	N	Y	N	<p>Basis - the BAT determination of OAC rule 3745-31-05(A)(3) established by PTI 04-1376 as issued 9/30/2004. OR - appropriate to an inherently clean source. M, R & Rp - the hourly and annual emission limitations represent full PTE; no M, R & Rp are required. The daily visible emission checks will be used to demonstrate continuous compliance with VE. ET - AP-42 emissions factors were used to establish these limitations; these emissions units have never been stack tested. If problems are indicated by M, R & Rp Method 9 testing will be requested Note: Forming involves molding glassware by flowing melted glass to machines with heated dies or molds used to "form" the desired shapes. Emissions consist primarily of combustion byproducts from natural gas "open flames" used to maintain the glass the proper temperature. Modern mold release agents are silicone based and are non-photochemically reactive and low/no VOC in content (and particulate emissions). Acetylene is used to "smoke" the molds.</p>
NA	17-07 (B)(1)	N	N	Y	Y	N	N	Y	N	Y	N	Y	N	<p>Limitation: VE shall not exceed 20% opacity as a 3-min ave. Basis - less stringent than BAT OR, M, R, Rp & ET - appropriate standard clean fuel and VE T&Cs.</p>	

	NA	17-08 (B), (B)(3)	N	N	Y	Y	N	N	Y	N	Y	N	Y	N	Limitation: RACM Basis - less stringent than BAT OR, M, R, Rp & ET - appropriate standard clean fuel and VE T&Cs.
	NA	18-06 (E)(2)	N	N	Y	Y	N	N	Y	N	Y	N	Y	N	Limitation: $AER = 30 P^{0.67}$ where $P = 1.49$, $AER = 39$ lb/hr Basis - less stringent than BAT OR, M, R, Rp & ET - appropriate clean fuel standard T&Cs.
	exemption	21-07 (G)(9)(f)	N	N	Y	Y	N	N	Y	N	Y	N	Y	N	Basis - The exclusive use of non-PCRM's removes applicability of OAC rule 3745-21-07(G)(2) limitations of 8 lb/hr & 40 lb/d VOC. OR, M, R, Rp & ET - appropriate standard T&Cs.
	NA	21-08 (B)	N	N	Y	Y	N	N	Y	N	Y	N	Y	N	Basis - satisfied by complying with BAT T&Cs. OR, M, R, Rp & ET - appropriate standard T&Cs.
F020: forming line	2.75 lb/hr & 12.0 tpy CO; 0.66 lb/hr & 2.9 tpy NOx; 0.18 lb/hr & 0.79 tpy PE; 0.20 lb/hr & 0.86 tpy PM10; 0.033 lb/hr & 0.14 tpy SO2; 0.87 lb/hr & 3.8 tpy VOC; and VE shall not exceed 5% opacity as a 3-min ave.	N	Y	N	Y	Y	N	N	Y	N	Y	N	Y	N	Basis - the BAT determination of OAC rule 3745-31-05(A)(3) established by PTI 04-1407 as last modified 6/23/2005. OR - appropriate to an inherently clean source. M, R & Rp - the hourly and annual emission limitations represent full PTE; no M, R & Rp are required. The daily visible emission checks will be used to demonstrate continuous compliance with VE. ET - AP-42 emissions factors were used to establish these limitations; these emissions units have never been stack tested. If problems are indicated by M, R & Rp Method 9 testing will be requested Note: Forming involves molding glassware by flowing melted glass to machines with heated dies or molds used to "form" the desired shapes. Emissions consist primarily of combustion byproducts from natural gas "open flames" used to maintain the glass the proper temperature. Modern mold release agents are silicone based and are non-photochemically reactive and low/no VOC in content (and particulate emissions). Acetylene is used to "smoke" the molds.
	NA	17-07 (B)(1)	N	N	Y	Y	N	N	Y	N	Y	N	Y	N	Limitation: VE shall not exceed 20% opacity as a 3-min ave. Basis - less stringent than BAT OR, M, R, Rp & ET - appropriate standard clean fuel and VE T&Cs.
	NA	17-08 (B), (B)(3)	N	N	Y	Y	N	N	Y	N	Y	N	Y	N	Limitation: RACM Basis - less stringent than BAT OR, M, R, Rp & ET - appropriate standard clean fuel and VE T&Cs.

	NA	18-06 (E)(2)	N	N	Y	Y	N	N	Y	N	Y	N	Y	N	Limitation: $AER = 30 P^{0.67}$ where $P = 1.08$, $AER = 32$ lb/hr Basis - less stringent than BAT OR, M, R, Rp & ET - appropriate clean fuel standard T&Cs.	
	exemption	21-07 (G)(9)(f)	N	N	Y	Y	N	N	Y	N	Y	N	Y	N	Basis - The exclusive use of non-PCRM's removes applicability of OAC rule 3745-21-07(G)(2) limitations of 8 lb/hr & 40 lb/d VOC. OR, M, R, Rp & ET - appropriate standard T&Cs.	
	NA	21-08 (B)	N	N	Y	Y	N	N	Y	N	Y	N	Y	N	Basis - satisfied by complying with BAT T&Cs. OR, M, R, Rp & ET - appropriate standard T&Cs.	
G001: gasoline dispensin g station	insignificant deminimis	21-09 (R)(4)(a)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - exemption from control requirements of OAC rule 3745-21-09(R)(1) thru (R)(3) for any gasoline dispensing facility which has an annual throughput of less than one hundred twenty thousand gallons of gasoline. (2004 = 5,470 gal, 2005 = 5,450 gal)	
		21-09 (R)(5)	N	N	Y	Y	N	N	Y	N	Y	N	N	N	Basis - Any owner or operator of a gasoline dispensing facility that is exempted from the requirements of paragraphs (R)(1) to (R)(3) of this rule pursuant to paragraph (R)(4)(a) of this rule shall maintain records of the quantity of gasoline delivered to the facility during each calendar month. The records shall be maintained at the facility for a period of three years. The owner or operator shall notify the director if the annual gasoline throughput for any rolling twelve-month period is equal to or greater than one hundred twenty thousand gallons. The director shall be notified within forty-five days after the exceedance occurs.	
		15-05(D)	N	N	N	N	N	N	N	N	N	N	N	N	N	Basis - . Exemption from section 3704.011 of the Revised Code and rules adopted thereunder for potential emissions > ten pounds per day. The owner or operator of the source shall maintain records that show that emissions of any air contaminant from the source did not exceed ten pounds per day on each day the source emitted air contaminants, and that the source in any one year did not emit more than one ton of hazardous air pollutants. AP-42 Table 5.2-7 lists a VOC emissions factor of 24.2 lb/1000 gallon.
		77-01 (U)(1)	N	N	N	N	N	N	N	N	N	N	N	N	N	Basis - "insignificant activities and emissions levels" includes all source categories excluded from the requirements to obtain installation permits or operating permits under 3745-15-05 of the Administrative Code.

K001: mainten ance shop paint booth	deminimis	N	N	N	N	N	N	N	N	N	N	N	N	N	N	Basis - per permittee the usage of this emissions unit has been restricted to the application of coatings by brush or spray can. PTI 04-993 issued as a corrected copy 11/8/95, was withdrawn.
K002: decoratin g lehr #4	NA	N	N	N	N	N	N	N	N	N	N	N	N	N	N	permit withdrawn
N001: incinerato r	NA	N	N	N	N	N	N	N	N	N	N	N	N	N	N	permit withdrawn
P002: glass melting furnace	NA	N	N	N	N	N	N	N	N	N	N	N	N	N	N	permit withdrawn
P003, P005 & P006: glass melting furnaces	20 percent opacity, as a 6-minute average	17- 07(A)(1)	N	N	Y	Y	N	N	Y	N	Y	N	Y	N	N	Basis - installed prior to 1974 and not an inherently clean source. While combusting only natural gas or #2 fuel oil, the raw materials used to make glass are expected to make a contribution to opacity. OR - none, the emissions are stated at maximum calculated furnace capacity. M, R & Rp - daily visible emission checks will be used to demonstrate continuous compliance ET - these emissions units have never been stack tested. If problems are indicated by M, R & Rp Method 9 testing will be requested

8.4 to 8.8 lbs PE/hr	17- 11(B)(1)	N	N	Y	Y	N	N	Y	N	Y	N	Y	N	<p>Basis - installed in prior to 1974 and not an inherently clean source. While combusting only natural gas or #2 fuel oil, the raw materials used to make glass are expected to make a contribution to particulate. At process weight rates of 75, 70 & 70 tpd, the Table I allowable emissions rate were set at $E = 4.10 P^{0.67}$ where P is the process weight rate in tons per hour and E is the allowable emission rate in pounds of PE per hour = 8.8, 8.4 & 8.4, respectively. Figure II uncontrolled emissions are estimated utilizing an AP-42, Table 11.15-1, dated 1/95, emissions factor of 1.4#PE/ton of glass pulled. Uncontrolled emissions are estimated at 4.4, 4.1 & 4.1 #/hr < the 10#/hr applicability rate.</p> <p>OR - none, the emissions are stated at maximum calculated furnace capacity.</p> <p>M, R & Rp - production will be tracked for use with an emissions factor to assure compliance. At maximum production AP-42 calculated PTE is less than the allowable emissions, so no exceedances are anticipated. Daily visible emission checks will be used to determine a need for additional compliance demonstrations.</p> <p>ET - these emissions units have never been stack tested. One-time stack testing will be required to demonstrate compliance with these regulations. In compliance with Engineering Guide #16 if actual emissions for P003, P005 and P006 are <25TPY, retesting may not be required. If problems are indicated by M, R & Rp additional Method 5 testing will be requested.</p>
61.5 to 64.4 lbs SO ₂ /hr	18-0 6(E)(2)	N	N	Y	Y	N	N	Y	N	Y	N	Y	N	<p>Basis - installed in prior to 1974 with no OAC rule 3745-31 05 applicability. While combusting only natural gas or #2 fuel oil, the raw materials used to make glass are expected to make a substantial contribution to SO2 emissions. $AER = 30 P^{0.67}$ Where P is the process weight rate in tons per hour and AER is the allowable emission rate in pounds of sulfur dioxide per hour. For process weight rates of 75, 70 and 70 tons per hour and the allowable emission rate in pounds of SO2 per hour are 64.4, 61.5 & 61.5, respectively</p> <p>OR - none, the emissions are stated at maximum calculated furnace capacity.</p> <p>M, R & Rp - production will be tracked for use with an emissions factor to determine compliance.</p> <p>ET - these emissions units have never been stack tested. Since the reported annual emissions of SO2 for calendar year 2006 were greater each than 25 tpy stack testing will be required in compliance with Engineering Guide #16.</p>

P007 glass melting furnace	furnace stack emissions: 0.20 lb/hr CO; 46.3 lb/hr NOx; 5.81 lb/hr PE; 6.30 lb/hr PM10; 20.8 lb/hr SO2; and 0.35 lb/hr VOC.	N	Y	N	Y	Y	N	N	Y	N	Y	N	Y	N	<p>Basis - the BAT determination of OAC rule 3745-31-05(A)(3) established by PTI 04-1414 as issued 8/30/2005 and sent to the State (OEPA Central Office) for an Administrative Modification on 3/24/2008. This determination includes compliance with OAC rule 3745-17-07(A)(1).</p> <p>OR - restrictions on throughput and fuel type.</p> <p>M, R & Rp - recordkeeping of throughput will indicate any production increase which might require a new demonstration of compliance by stack testing.</p> <p>ET - AP-42 emissions factors were used to establish these limitations and compliance has been demonstrated through stack testing performed 8/17/06 as follows:</p> <table border="1"> <thead> <tr> <th></th> <th colspan="2">test results</th> <th>permit</th> </tr> <tr> <th></th> <th>#/T</th> <th>#/hr</th> <th>limitation</th> </tr> </thead> <tbody> <tr> <td>CO</td> <td>0.03</td> <td>0.20</td> <td>0.20 lb/hr</td> </tr> <tr> <td>NOx</td> <td>6.11</td> <td>43.5</td> <td>46.3 lb/hr</td> </tr> <tr> <td>PE</td> <td>0.57</td> <td>4.08</td> <td>5.81 lb/hr</td> </tr> <tr> <td>PM10</td> <td>0.64</td> <td>4.55</td> <td>6.30 lb/hr</td> </tr> <tr> <td>SO2</td> <td>2.47</td> <td>17.6</td> <td>20.8 lb/hr</td> </tr> <tr> <td>VOC</td> <td colspan="2">not tested</td> <td>0.35 lb/hr</td> </tr> <tr> <td>Opacity</td> <td colspan="2">8%</td> <td>20%</td> </tr> </tbody> </table> <p>Based on actual emissions reported for calendar year 2006 of 41.7 tpy SO2 and 164 tpy NOx, Engineering Guide #16 requires stack testing every 2.5 years. If problems are indicated by M, R & Rp additional testing will be requested.</p>		test results		permit		#/T	#/hr	limitation	CO	0.03	0.20	0.20 lb/hr	NOx	6.11	43.5	46.3 lb/hr	PE	0.57	4.08	5.81 lb/hr	PM10	0.64	4.55	6.30 lb/hr	SO2	2.47	17.6	20.8 lb/hr	VOC	not tested		0.35 lb/hr	Opacity	8%		20%
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furnace stack emissions, per rolling, 12-month period: 0.88 ton CO; 182.5 tons NOx; 22.9 tons PE 24.8 tons PM10; 82.0 tons SO2; and 1.53 tons VOC	N	Y	N	Y	Y	N	N	Y	N	Y	N	Y	N	<p>Basis - the addition of electric boost during the 2005 rebuild of this emissions unit resulted in increase production capacity. These limitations were a part of the synthetic minor determination of OAC rule 3745-31-05(C) established by PTI 04-1414 as issued 8/30/2005. SO2 was the pollutant of concern.</p> <p>OR - restrictions on throughput and fuel type.</p> <p>M, R & Rp - recordkeeping of throughput will indicate any production increase which might require a new demonstration of compliance by stack testing..</p> <p>ET - compliance has been demonstrated through stack testing to establish emissions factors and a validate the rolling, 12-month throughput limitations.</p>																																					

	20 percent opacity, as a 6-minute average unless otherwise specified by the rule	17-07 (A)(1)	N	N	Y	Y	N	N	Y	N	Y	N	Y	N	Basis - while combusting only natural gas or #2 fuel oil, the raw materials used to make glass are expected to make a contribution to opacity. A BAT equal to the SIP limitation was established by OAC rule 3745-31-05(A)(3) in PTI 04-1414 as issued 8/30/2005 OR - none, the emissions are stated at maximum calculated furnace capacity. M, R & Rp - daily visible emission checks will be used to demonstrate continuous compliance ET - this emissions unit was stack tested by Methods 5 and 9 to confirm that the allowable VE limitation did not result in an violation of the particulate restrictions. Stack testing performed 8/17/06 resulted in an 8% opacity average.
	NA	17-11 (B)(1)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - at a maximum production rate of 170 tons of glass per day (7.08 tph as glass) Table 1; $E = 4.10 (P)0.67 = 15.2 \text{ lb/hr}$ where $P = 7.08 \text{ tons/hr}$ or, Figure II; $A = 0.5782 U 0.6456 = 12.9 \text{ lb/hr}$ where: AP-42 Table 11.15-1 dated 1/95 indicates the uncontrolled emissions of particulate from the manufacture of pressed and blown glass to be 17.4 lb/ton, $U = 17.4\#/t (7.08 \text{ tph}) = 123.2 \#/hr$ The process total allowable is $5.09+0.01+0.04= 5.14 \text{ lb/hr}$
	NA	18-06 (E)(2)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - $AER = 30 P^{0.67} = 30(7.08)^{0.67} = 111 \text{ lb SO}_2/\text{hr}$ for the entire process, where P is the process weight rate in tons per hour and AER is the allowable emission rate in pounds of sulfur dioxide per hour. The process total allowable is $20.8+0.01+0.02= 20.8 \text{ lb/hr}$
	NA	21-07(B)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - SIP requirements for LACT; these requirements are satisfied by complying with BAT T&Cs.
	NA	21-08(B)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - SIP requirements for BACT; these requirements are satisfied by complying with BAT T&Cs.

refiner - 0.29 lb/hr & 1.27 tpy CO; 0.17 lb/hr & 0.75 tpy NOx ; 0.01 lb/hr & 0.03 tpy PE; 0.03 lb/hr & 0.12 tpy PM10; 0.01 lb/hr & 0.01 tpy SO2; 0.02 lb/hr & 0.08 tpy VOC; and 5 percent opacity, as a 3-minute average, tpy per rolling, 12-month period	N	Y	N	Y	Y	N	N	Y	N	Y	N	Y	N	Basis - glass is melted in the furnace at approximately 2700°F. The refiner is the area of the furnace where the glass temperature is stabilized to approximately 2250°F. This area is natural gas fired at a maximum rate of 3,375 scf/hr with low-NOx burners as established by OAC rule 3745-31-05(A)(3) in PTI 04-1414 as issued 8/30/2005. Limitations were set as rolling, 12-month in the PTI's synthetic minor determination. OR - restrictions on throughput and fuel type. M, R & Rp - recordkeeping of throughput will indicate any production increase which might require a new demonstration of compliance by stack testing. ET - AP-42 emissions factors were used to establish these limitations, enclosure for stack testing purposes would be difficult, therefore these emissions units have never been stack tested. If problems are indicated by MR&Rp additional testing may be requested.
NA	17-07 (B)(1)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - 20 percent opacity, as a 3-minute average for fugitive emissions; less stringent than the BAT determination. The refiner is an inherently clean source combusting only natural gas or #2 fuel oil. The raw materials used to make glass are expected to be opacity free by this point of the operation..
NA	17-08(B)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - SIP requirements for RACT; these requirements are satisfied by complying with BAT T&Cs.
NA	18-06 (E)(2)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - $AER = 30 P^{0.67} = 30 (7.10)^{0.67} = 112$ lb SO2/hr for the entire process, where P is the process weight rate in tons per hour and AER is the allowable emission rate in pounds of sulfur dioxide per hour. The process total allowable is $20.8+0.01+0.02= 20.8$ lb/hr
NA	21-07(B)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - SIP requirements for LACT; these requirements are satisfied by complying with BAT T&Cs.
NA	21-08(B)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - SIP requirements for BACT; these requirements are satisfied by complying with BAT T&Cs.

forehearth - 1.92 lb/hr & 8.41 tpy CO; 1.41 lb/hr & 6.18 tpy NOx ; 0.04 lb/hr & 0.20 tpy PE; 0.18 lb/hr & 0.79 tpy PM10; 0.02 lb/hr & 0.09 tpy SO2; 0.13 lb/hr & 0.57 tpy VOC; and 5 percent opacity, as a 3-minute average, tpy per rolling, 12-month period	N	Y	N	Y	Y	N	N	Y	N	Y	N	Y	N	Basis - glass is melted in the furnace at approximately 2700°F. The refiner stabilizes the temperature to approximately 2250°F. The forehearth is channels by which molten glass is delivered to the forming machines at about 2050 degrees. This area is natural gas fired at a maximum rate of 17,666 scf/hr with standard burners and 5,148 scf/hr with low-NOx burners as established by OAC rule 3745-31-05(A)(3) in PTI 04-1414 as issued 8/30/2005. Limitations were set as rolling, 12-month in the PTI's synthetic minor determination. OR - restrictions on throughput and fuel type. M, R & Rp - recordkeeping of throughput will indicate any production increase which might require a new demonstration of compliance by stack testing.. ET - AP-42 emissions factors were used to establish these limitations, enclosure for stack testing purposes would be difficult, therefore these emissions units have never been stack tested. If problems are indicated by MR&Rp additional testing may be requested..
NA	17-07 (B)(1)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - 20 percent opacity, as a 3-minute average for fugitive emissions; less stringent than the BAT determination. The refiner is an inherently clean source combusting only natural gas or #2 fuel oil. The raw materials used to make glass are not expected to be opacity free by this point of the operation..
NA	17-08(B)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - SIP requirements for RACT; these requirements are satisfied by complying with BAT T&Cs.
NA	18-06 (E)(2)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - AER = $30 P^{0.67} = 30 (7.10)^{0.67} = 112$ lb SO2/hr for the entire process, where P is the process weight rate in tons per hour and AER is the allowable emission rate in pounds of sulfur dioxide per hour. The process total allowable is $20.8+0.01+0.02= 20.8$ lb/hr
NA	21-07(B)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - SIP requirements for LACT; these requirements are satisfied by complying with BAT T&Cs.
NA	21-08(B)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - SIP requirements for BACT; these requirements are satisfied by complying with BAT T&Cs.

P010: slitters and knotchers controlled by a cyclone	20% opacity	17-07 (A)(1)	N	N	Y	Y	N	N	Y	N	Y	N	Y	N	Basis - installed in 1956 and not an inherently clean source. Standard terms and conditions will be utilized. OR - none. M, R & Rp - daily visible emission checks will be used to demonstrate continuous compliance ET - this emissions unit has never been stack tested. If problems are indicated by M, R & Rp Method 9 testing will be requested.
	5.5 lbs/hr of particulates	17-11 (B)(1)	N	N	Y	Y	N	N	Y	N	Y	N	Y	N	Basis - installed in 1956 and not an inherently clean source control, control is required by a cyclone. Uncontrolled emissions are estimated at 1% of the maximum process weight rate of 3250 lb/hr with 90% effective control = 3.25 pound per hour or 14.2 tpy. At a maximum production rate of 3250 #/hr Table 1; $E = 4.10 (P)^{0.67} = 5.7 \text{ lb/hr}$ where P = 1.6 tons/hr or, Figure II; $A = 0.5782 (U)^{0.6456} = 5.5 \text{ lb/hr}$ where uncontrolled emissions are estimated at 1% of the maximum process weight rate of 3250 lb/hr, U = 32.5#/hr. OR - none, the emissions are stated at maximum capacity. M, R & Rp -daily visible emission checks will be used to determine a need for additional compliance demonstrations. ET - these emissions units have never been stack tested. Since PTE is <25TPY no testing is anticipated. If problems are indicated by M, R & Rp Method 5 testing will be requested

P011 & P012: decorating lehr	3#/hr and 15#/day	21-07 (G)(1)	N	N	N	Y	N	N	Y	N	Y	N	Y	N	Basis: As currently used OAC rule 3745-21-07(G)(1) does not apply because the coating material(a wax-like substance) is not a liquid at standard conditions. OR - none required, usage of a liquid will result in additional necessary MR&Rp. MR&Rp - as by standard terms and conditions. ET - uses M&R to demonstrate compliance.
	NA	17-07 (A)(1)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - 20% opacity is not applicable because no process materials utilized generate particulate and combustion is direct fired.
	NA	17-11 (B)(1)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - installed prior to 1974 and an inherently clean source. rule 3745-17-10 will not apply because the process is direct fired. Note: natural gas is not counted in the process weight rate because OAC rule 3745-17-01(B)(14) says "process weight" is defined as "...the total weight of all materials introduced into the source operation including solid fuels, but excluding gaseous fuels and liquid fuels when they are used solely as fuels and excluding air introduced for the purposes of combustion." The weight of the glasses being decorated and the coating material is not counted because Engineering Guide #7 says "Any material which directly or indirectly, by physical and/or chemical means, results in any emission of particulate matter is to be included in the process weight rate determination. The coating is applied by silk-screening and no coating is applied as an aerosol (sprayed).
		18-06 (C)	N	N	N	N	N	N	N	N	N	N	N	N	Basis: Process weight rate is 0.60 lb/hr and 13 lb/hr respectively. OAC rule 3745-18-06(C) states that: "Process equipment which has a rated capacity equal to, or less than, one thousand pounds per hour process weight input is exempt.....". OAC rule 3745-18-06(A)&(B) do not apply because indirect fired emissions units are not considered "fuel burning equipment".
P021 mold paste room	20% opacity	17-07 (A)(1)	N	N	N	Y	N	N	Y	N	Y	N	Y	N	Basis - installed in 1971 and not an inherently clean source. Standard terms and conditions will be utilized. OR - none. M, R & Rp - daily visible emission checks will be used to demonstrate continuous compliance. ET - these emissions units have never been stack tested. If problems are indicated by M, R & Rp, Method 9 testing will be requested

	0.82 lb PE/hr	17-11 (B)(1)	N	N	N	Y	N	N	Y	N	Y	N	Y	N	<p>Basis - installed in 1971 and not an inherently clean source. Standard terms and conditions will be utilized. At a maximum production rate, using 0.98 lb/hr of applied coating materials, the minimum process weight rate limitation applies = 0.551 lb/hr. Uncontrolled emissions are estimated at 1% of the maximum process weight rate. Figure II does not apply since the uncontrolled mass rate of emissions is less than 10#/hr. The weight of the molds being prepared is not counted because Engineering Guide #7 says "Any material which directly or indirectly, by physical and/or chemical means, results in any emission of particulate matter is to be included in the process weight rate determination."</p> <p>OR - none, the emissions are stated at maximum capacity.</p> <p>M, R & Rp -daily visible emission checks will be used to determine a need for additional compliance demonstrations.</p> <p>ET - these emissions units have never been stack tested. Since PTE is <25TPY no testing is anticipated. If problems are indicated by M, R & Rp Method 5 testing will be requested</p>																																
glass melting furnace: P022	furnace stack emissions: CO - 0.75 lb/hr or 3.29 tpy; NOx - 28.0 lb/hr or 123 tpy; PE - 38.5 tpy; PM10 - 8.66 lb/hr or 37.9 tpy; SO2 - 21.0 lb/hr or 92.0 tpy; and VOC - 1.13 lb/hr or 4.95 tpy	N	Y	N	Y	Y	N	N	Y	N	Y	N	Y	N	<p>Basis - the BAT determination of OAC rule 3745-31-05(A)(3) established by PTI 04-1456 as issued 12/5/2006. This determination was based on AP-42 emissions factors (NSPS CC requirements for PE) with a maximum pull rate of 75 tpd.</p> <p>OR - restrictions on fuel type.</p> <p>M, R & Rp - recordkeeping of fuel type will indicate the need for a new demonstration of compliance by stack testing.</p> <p>ET - AP-42 emissions factors were used to establish these limitations and compliance has been demonstrated through stack testing performed as follows:</p> <table border="1"> <thead> <tr> <th></th> <th>test results@max #/T</th> <th>permit #/hr</th> <th>limitation</th> </tr> </thead> <tbody> <tr> <td>CO</td> <td>0.01</td> <td>0.03</td> <td>0.75 lb/hr</td> </tr> <tr> <td>NOx</td> <td>6.76</td> <td>21.8</td> <td>28.0 lb/hr</td> </tr> <tr> <td>PE</td> <td>0.69</td> <td>2.25</td> <td>8.80 lb/hr</td> </tr> <tr> <td>PM10</td> <td>0.75</td> <td>2.42</td> <td>8.66 lb/hr</td> </tr> <tr> <td>SO2</td> <td>1.52</td> <td>4.91</td> <td>21.0 lb/hr</td> </tr> <tr> <td>VOC</td> <td>not tested</td> <td></td> <td>1.13 lb/hr</td> </tr> <tr> <td>opacity</td> <td>5%</td> <td></td> <td>20%</td> </tr> </tbody> </table> <p>Based on actual emissions reported for calendar year 2006 of 63.4 tpy SO2 and 95.7 tpy NOx, Engineering Guide #16 requires stack testing every 5 years. If problems are indicated by M, R & Rp additional testing will be requested.</p>		test results@max #/T	permit #/hr	limitation	CO	0.01	0.03	0.75 lb/hr	NOx	6.76	21.8	28.0 lb/hr	PE	0.69	2.25	8.80 lb/hr	PM10	0.75	2.42	8.66 lb/hr	SO2	1.52	4.91	21.0 lb/hr	VOC	not tested		1.13 lb/hr	opacity	5%		20%
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	NA	17-07 (A)(1)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - while combusting only natural gas or #2 fuel oil, the raw materials used to make glass are expected to make a contribution to opacity. A BAT equal to 20% was established by OAC rule 3745-31-05(A)(3) in PTI 04-1456 as issued 12/5/2006.
	8.80#/hr	17-11 (B)(1)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - at a maximum production rate of 75 tons of glass per day - 3.125 t/hr Table 1; $E = 4.10 (P)^{0.67} = 8.80 \text{ lb/hr}$ where $P = (75 \text{ tons}/24 \text{ hours})$ or, Figure II; $A = 0.5782 U^{0.6456} = 9.04 \text{ lb/hr}$ where: AP-42 Table 11.15-1 dated 1/95 indicates the uncontrolled emissions of particulate from the manufacture of pressed and blown glass to be 17.4 lb/ton, $U = 17.4\#/t (75t/24 \text{ hr}) = 70.7 \text{ lb/hr}$
	NA	18-06 (E)(2)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - $AER = 30 P^{0.67} = 30(7.10)^{0.67} = 112 \text{ lb SO}_2/\text{hr}$ for the entire process, where P is the process weight rate in tons per hour and AER is the allowable emission rate in pounds of sulfur dioxide per hour. The BATallowable was set by AP-42 Table 11.15-1 emissions of 5.6#/t (75t/24 hr) = 17.5 lb/hr plus 20% for testing error = 21.0 lb/hr
	NA	21-07(B)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - SIP requirements for LACT; these requirements are satisfied by complying with BAT T&Cs.
	NA	21-08(B)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - SIP requirements for BACT; these requirements are satisfied by complying with BAT T&Cs.
P023 mycalex machinin g room controlled by fabric filtration	insignificant	17-07 (A)(1)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - 20% opacity
		17-11 (B)(1)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - this area is utilized as a non-production job shop. Maximum production rate is unknown, but estimated to be insignificant. This emissions unit is controlled and deminimis status has not been demonstrated by the company.
		77-01 (U)(3)	N	N	N	N	N	N	N	N	N	N	N	N	Basis - "insignificant activities and emissions levels" includes any emission unit with uncontrolled potential emissions of five tons or less per year of any regulated air pollutant other than a hazardous air pollutant and not more than twenty per cent of an applicable major source threshold under the Act.

P024 hard chrome plating	NA	N	N	N	N	N	N	N	N	N	N	N	N	N	permit withdrawn
R001 - decoratin g spray booth	NA	N	N	N	N	N	N	N	N	N	N	N	N	N	permit withdrawn
R002 - #1 COE spray booth	NA	N	N	N	N	N	N	N	N	N	N	N	N	N	deminimis
T001	NA	N	N	N	N	N	N	N	N	N	N	N	N	N	permit withdrawn
T002	NA	N	N	N	N	N	N	N	N	N	N	N	N	N	deminimis - <10#/d VOC, NSPS Kb no longer applies
T003	NA	N	N	N	N	N	N	N	N	N	N	N	N	N	deminimis - <10#/d VOC, NSPS Kb no longer applies
Z002 - Air stripper for groundwa ter treatment plant	NA	15-05	N	N	N	N	N	N	N	N	N	N	N	N	deminimis - controlled by an activated carbon system, emissions are estimated at <10#/d VOC
Z003 - cullet crusher #1	NA	N	N	N	N	N	N	N	N	N	N	N	N	N	deminimis: 30 tph Cullet Crusher #1 (secondary). Particulate emissions for all raw material handling are estimated in AP-42, Table 11-15.2 dated 1/95, to be negligible because "almost all plants utilize some form of control (i. e., baghouses, scrubbers, centrifugal collectors".
Z004 - cullet crusher #2.	NA	N	N	N	N	N	N	N	N	N	N	N	N	N	deminimis: 30 tph Cullet Crusher #2 (primary). Particulate emissions for all raw material handling are estimated in AP-42, Table 11-15.2 dated 1/95, to be negligible because "almost all plants utilize some form of control (i. e., baghouses, scrubbers, centrifugal collectors"
Z005 - foreheart h stirrer preheater	NA	N	N	N	N	N	N	N	N	N	N	N	N	N	deminimis

Z006 - mold shop walnut blaster	NA	N	N	N	N	N	N	N	N	N	N	N	N	N	N	permanently shutdown
Z007 - mold shop grit blaster	NA	N	N	N	N	N	N	N	N	N	N	N	N	N	N	permanently shutdown

EU = emissions unit ID

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

OR = operational restriction

M = monitoring requirements

St = streamlining term used to replace a PTI monitoring, record keeping, or reporting requirement 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

C Instructions for Part III:

- C 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.
- C If the SIP (not including OAC rule 3745-31-05) 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 OAC rule 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. If OAC rule 3745-31-05 is cited in the "Other" column, please indicate in the "Comments" section whether or not all of the requirements have been transferred from the permit to install.
- 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. If a brief explanation is provided in the "Comments" section, please do not simply indicate that monitoring or testing requirements are not necessary. An explanation of why a requirement is not necessary should be specified.

When periodic monitoring requirements are established to satisfy the provisions of OAC rule 3745-77-07(A)(3)(a)(ii), the basis for the requirements must be explained. Whenever Engineering Guides have been used to establish the periodic monitoring requirements, the applicable Engineering Guide may be referenced in the "Comments" section. An example that should be clarified would be the situation where it has been determined that control equipment parametric monitoring will be used to evaluate ongoing compliance in lieu of performing frequent emission tests. In this situation, Engineering Guide #65 would be referenced along with the fact that the parametric monitoring range (or minimum value) corresponded to the range (or minimum value) documented during the most recent emission tests that demonstrated that the emissions unit was in compliance. If streamlining language is included in the "Monitoring," "Record Keeping," or "Reporting" requirements sections of the permit, explain which requirements are being streamlined (mark appropriate column above)

and provide a brief explanation of why the streamlined term is equal to or more stringent than the "Monitoring," "Record Keeping," or "Reporting" requirements specified in the permit to install. If Engineering Guide #16 was used as the basis for establishing an emission test frequency, a simple note referencing the Engineering Guide in the "Comments" section would be sufficient.

Also, if a "Y" is noted under "OR," "Misc," "St," "ND," or "ENF" an explanation of the requirements must be provided in the "Comments" section. In addition to a general explanation of the "OR," "Misc," "St," "ND," and/or "ENF" the following must be provided:

1. For an operational restriction, clarify if appropriate monitoring, record keeping, and 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 the "ND" column above is marked, please identify the particular rule(s) that is (are) not applicable to the specified emissions unit.
2. If the "ENF" column above is marked, please provide a brief explanation of the noncompliance issue(s) which prompted the use of the specified monitoring requirement.

An explanation is not required if an "N" is noted in the "OR," "Misc," "St," "ND," or "ENF" columns.

C **Additional information for modifications** - Several types of modifications, as defined by rule, may be processed concurrently. Please provide enough of a description for someone wishing to review the changes to the permit language to be able to identify where the change is made in the permit document. This brief description should be identified in the appropriate row in the first table of this form by replacing the "N/A" in the applicable row(s). Please also indicate if the modification is being initiated by an appeal by including the ERAC case number in the "Comments" area. Please update the term-specific text in the SOB as warranted (full insertion or replacement is acceptable; bold italic and strike out is not needed). Note all modification/reopening rows should remain "N/A" when developing the SOB during the initial permit development. Note: APA's and Off-permit changes do not need to be noted in the SOB.