COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION AIR QUALITY PROGRAM

WARD MFG LLC/BLOSSBURG PLTS 1-3

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Issue Date:	January 10, 2017		Effective Date:	Janony To, 2017	
Expiration Date:	January 9, 2022			Alternative service and an and an and a service and a s	
amended permittee operate th condition	i, and 25 Pa. Code) identified below is the air emission sources s specified in this per	Chapter 127, the Owner, [a authorized by the Departm e(s) more fully described in t	nd Operator If not ent of Environmer his permit. This Fa lieves the permitte	January 8, 1960, P.L. 2119, as ed] (hereinafter referred to as atal Protection (Department) to acility is subject to all lerms and e from its obligations to comply	
in this pe		rceable applicable requirem		ckets. All terms and conditions vise designated as "State-Only"	- .
· · · · · · ·	· · · · · · · · · · · · · · · · · · ·	TITLE V Permit No: 5	9-00004		
•		Federal Tax Id - Plant Code	e: 71-1042639-1		
Nam	e: WARD MFG INC	Owner Inform	ation		
Mailing Addres	s: 117 GULICK ST				
	PO BOX 9 BLOSSBURG, PA	6912-0009		÷	
		Plant Informa	dion		
Plant: WARE	MFG LLC/BLOSSBU	RG PLTS 1-3			
Location: 59	Tioga County		59904 Blos	sburg Borough	
SIC Code: 3322	Manufacturing - Malle	able Iron Foundries	•		
		Résponsible (Official		
Name: ARTHU	JR P GUIDI			· · · · · · · · · · ·	
Tille: PRESI	DENT & COO				
Phone (570) 6	38 - 2131				
		Permit Contact	Person		
Name: BRYAN	BUCKLEN				·
	ONMENTAL CONSUL	TANT			
Phone: (570) 6	38-2131	1A T			
[Signature]	Unham	of Q. Lan	aur .		
MUHAMMAD Q. Z.	AMAN, ENVIRONMEN	ITAL PROGRAMMANAGER,	NORTHCENTRAL	REGION	
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SECTION A. Table of Contents





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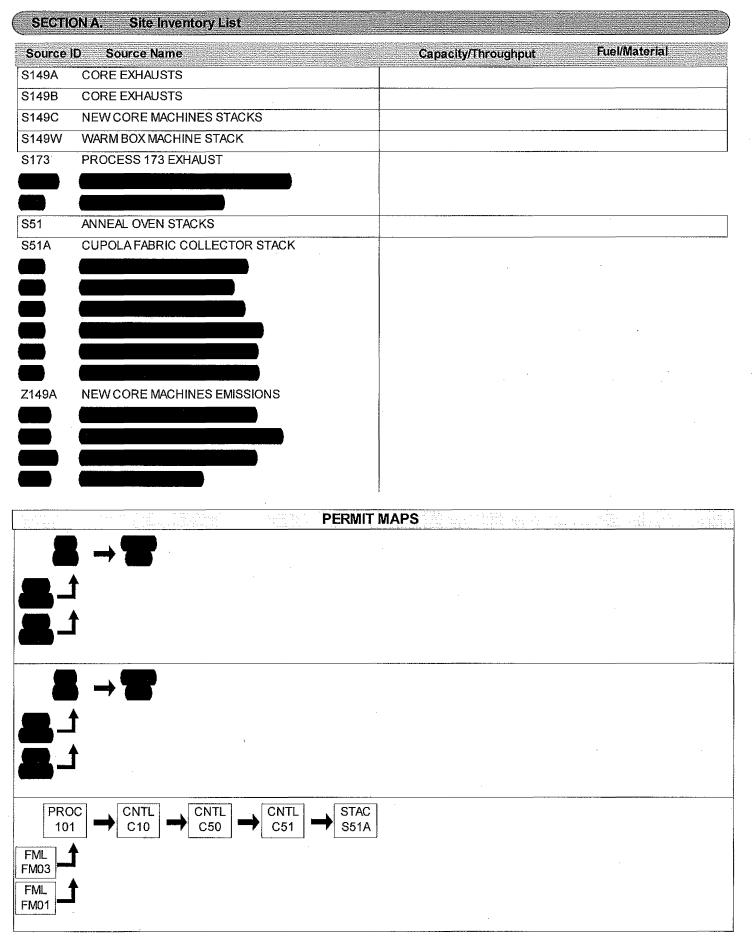


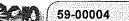
SECT	ION A. Site Inventory List		
Source	ID Source Name	Capacity/Throughput	Fuel/Material
		·	· ·
101	CUPOLA	-	
149	CORE ROOM OPERATIONS	400.000 Lbs/HR	CORE BINDERS
149A	NEW CORE MACHINES		
149W	FURAN WARM BOX CORE MACHINE		
173	MOLDING & CASTING OPERATIONS		
199	MOLDING LINES (SP01, SP02, & SP03)	- · · · · · · · · · · · · · · · · · · ·	
C05	SPO1 FABRIC COLLECTOR		
C06	SPO2 FABRIC COLLECTOR		
C07	SPO3 FABRIC COLLECTOR		
C10	2 AFTERBURNERS		
2			
C23			
	FABRIC COLLECTOR #1715	· · ·	
C50	SEAL CAP AND DROP OUT BOX	(A 100 A	
C50	CUPOLA FABRIC COLLECTOR		
FM01	COKE STORAGE AREA	\ \	
FM02	NATURAL GAS LINE		
FM03	PROPANE		
S05	SPO #1 FABRIC COL STACK		
S06	SPO #2 FABRIC COL STACK		
S08	SPO #3 FABRIC COL STACK		
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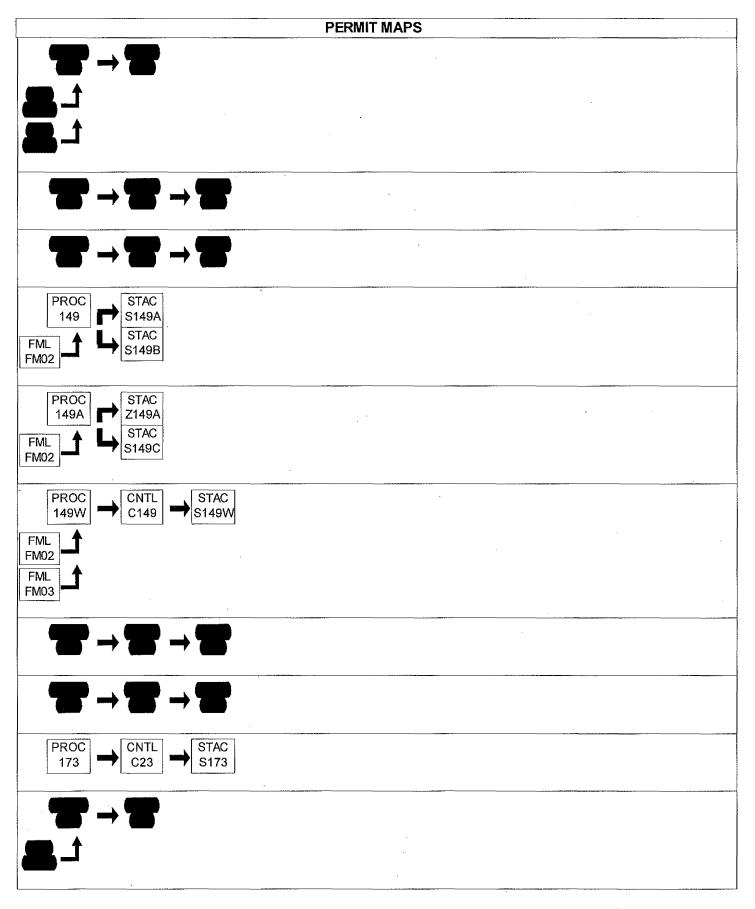
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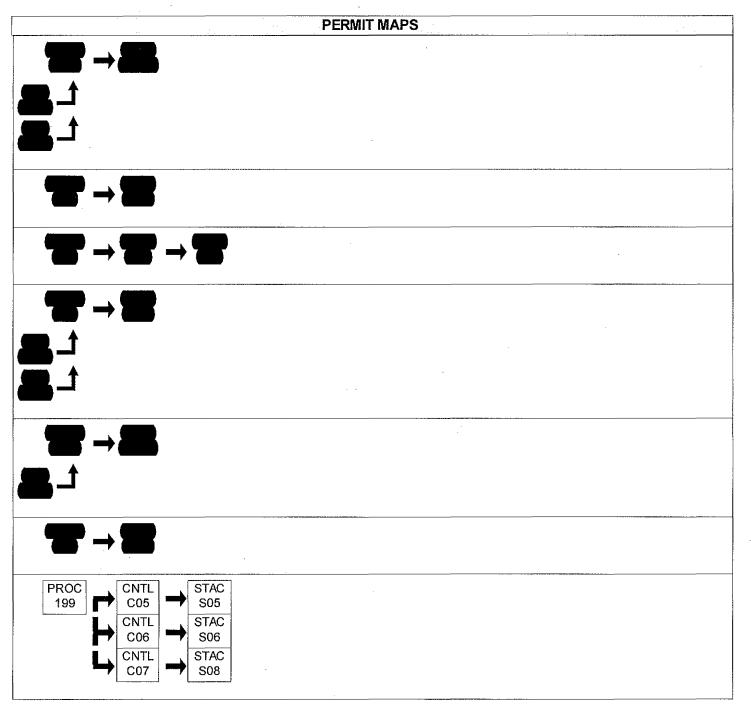


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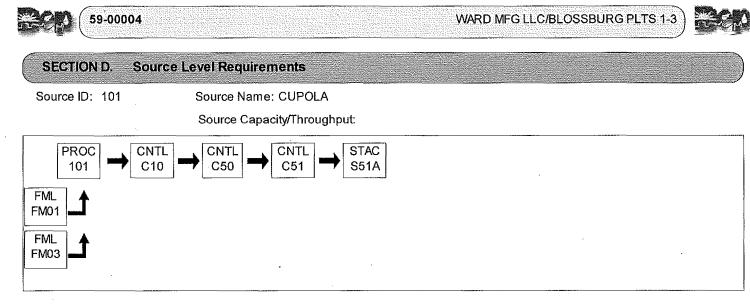




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Ward RACT2 TVOP # 59-00004 Redacted

The following pages have been omitted since they contain no pertinent RACT2 case by case conditions. 8-29, 36-41, 44-47, 52-56, 62-77, 83-End of Permit 

I. RESTRICTIONS.

Emission Restriction(s).

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003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 CFR 63.7690(a)(8)]

Pursuant to the RACT provisions of 25 Pa. Code Section 129.99(d), the permittee shall not allow the emission of volatile organic hazardous air pollutants (VOHAP) from the cupola in a manner that any exhaust to the atmosphere of Source ID P101 contains VOHAP in excess of 20 parts per million by volume (ppmv) corrected to 10 percent oxygen.



Throughput Restriction(s).

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Pursuant to the RACT provisions of 25 Pa. Code Section 129.99(d), the melt rate of Source ID 101 shall not exceed the following limitations:

(a) 37.78 tons per hour of malleable and gray iron;
 (b) 226,680 tons per 12-consecutive month period of iron.

II. TESTING REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code 129.100(a)(4) and 40 CFR 63.7731(a) and





63.7732(a). Compliance with this streamlined permit condition will assure compliance with the provisions of 40 CFR 63.7743(a)(12)].

(a) No later than 5 years from the date of previous performance test, the permittee shall conduct performance tests to demonstrate compliance with the PM and VOHAP emission limitations listed above.

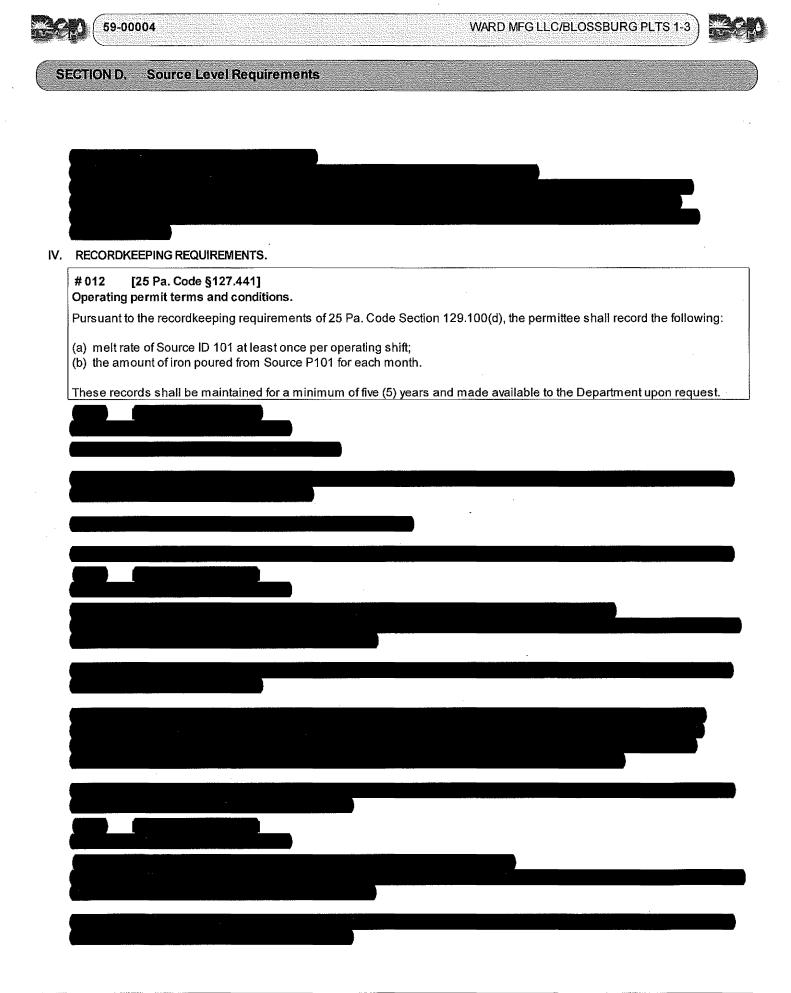
(b) The permittee shall comply with testing requirements specified in the provisions of 40 CFR 63.7(e)(1) in addition to the applicable provisions of 40 CFR 63.7732(b) through (h), relating to test methods.

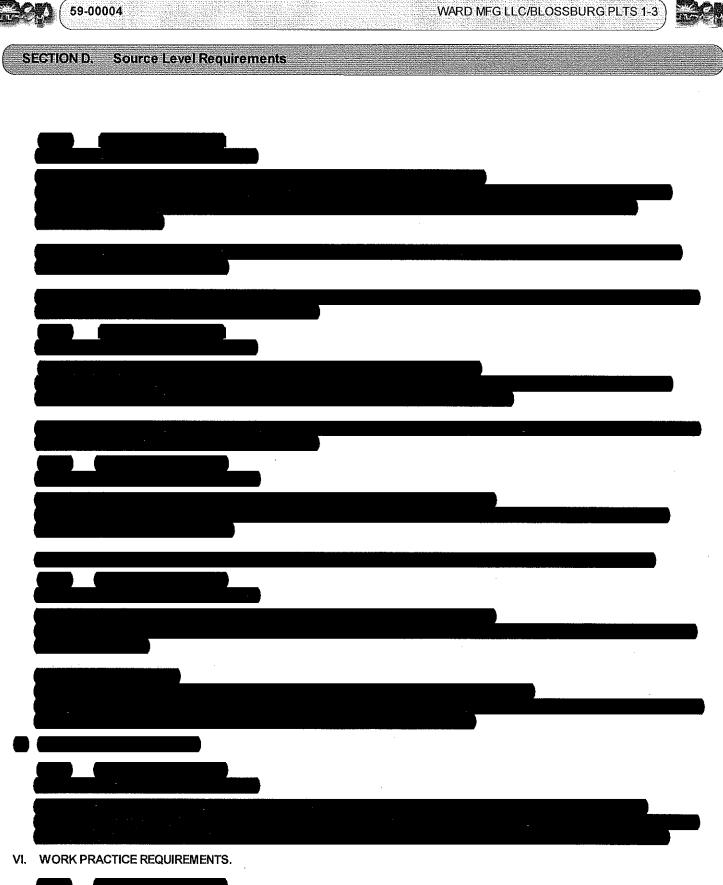
(c) Testing shall be performed while Source ID 101 is operating at a minimum of 90% of its rated capacity.

(d) At least 60 days prior to the performance of any testing required by this condition, the permittee shall submit three copies of a pretest protocol to the Department for review. This protocol shall describe the test methods and procedures to be used in the performance of testing, as well as include dimensioned sketches of the exhaust system showing the location of all proposed sampling ports. The protocol shall also identify all process data which will be monitored and recorded during the testing, including the process data which will be used to verify the rate of production during testing.

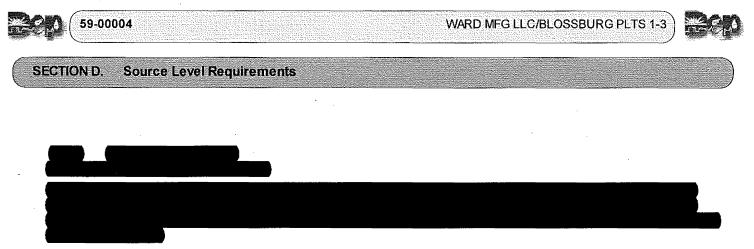
(e) The Department shall be given at least 15 days advance notice of the actual date(s) and time(s) for the performance of any testing required by this condition so that Department personnel can arrange to be present. The Department is under no obligation to accept the results of any testing performed without adequate advance notice having been given to the Department.

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023 [25 Pa. Code §127.441]

Operating permit terms and conditions.

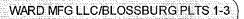
[Additional authority for this permit condition is also derived from 40 CFR 63.7690(b)(3). Compliance with the requirements of this streamlined permit condition will assure compliance with the provision of 40 CFR 63.7743(e)(1)].

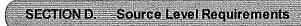
(a) Pursuant to the RACT provisions of 25 Pa. Code Section 129.99(d), the combustion zone temperature of the Maxon burners (C10) shall not fall below 1300 degrees Fahrenheit (15-minute average).

(b) The periods when the cupola is off blast and for 15 minutes after going on blast from an off blast condition shall not be included in the 15-minute average.

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VII.	ADDITIONAL REQUIREMENTS.		·		4	
	# 029 [25 Pa. Code §127.441] Operating permit terms and conditions					

(b) Pursuant to the RACT provisions of 25 Pa. Code Section 129.99(d), the air contaminant emissions from the cupola shall be controlled by an afterburner incorporating two (2) 5.2 million Btu per hour natural gas-fired Maxon burners (Control



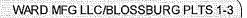


Device ID C10).

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*** Permit Shield in Effect. ***





Section D. Source Level Requirements Source ID: 149 Source Name: CORE ROOM OPERATIONS Source Capacity/Throughput: 400.000 Lbs/HR CORE BINDERS

I. RESTRICTIONS.

Emission Restriction(s).

59-00004

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# 003 [25 Pa. Code §127.441]				

Operating permit terms and conditions.

Pursuant to the RACT provisions of Section 129.99(d), the total combined volatile organic compound emissions from the core making machines incorporated in Source P149 shall not exceed 72.66 tons in any 12 consecutive month period.

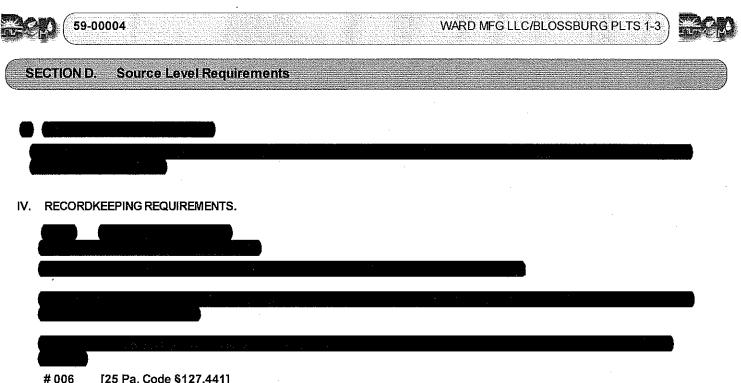
Fuel Restriction(s).

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

Pursuant to the RACT provisions of Section 129.99(d), each unit of Source ID 149 shall be fired only on natural gas or propane.



[25 Pa. Code §127.441]

Operating permit terms and conditions.

Pursuant to the RACT provisions of Section 129.100(d), the permittee shall maintain comprehensive, accurate records of the following:

(a) monthly calculations used to verify compliance with the 12 consecutive month volatile organic compound limitation for the core making machines incorporated under Source 149;

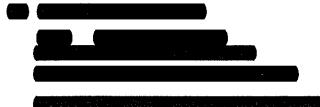
(b) identification of all binders used in the core making mahcines under Soruce ID 149.

These records shall be maintained for at least 5 years and made available to the Department upon request.

VI. WORK PRACTICE REQUIREMENTS.

#007 [25 Pa. Code §127.441] Operating permit terms and conditions.

Pursuant to the RACT provisions of 25 Pa. Code Section 129.99(d), the permittee shall use Binder WB950, as identified in the November 14, 2014, Minor Operating Permit Modification Application, or other equivalent binder as approved by the Department.



*** Permit Shield in Effect. ***



FM02

FML FM03



SECTION D. Source Level Requirements Source ID: 149W Source Name: FURAN WARM BOX CORE MACHINE Source Capacity/Throughput: PROC 149W → CNTL ↓ STAC 149W

I. RESTRICTIONS.

Emission Restriction(s).

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002 [25 Pa. Code §127.441]

Operating permit terms and conditions. [Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

(d) The total combined volatile organic compound (VOC) emissions from Source ID 149W shall not exceed 15.57 tons in any 12 consecutive month period. [Note more restrictive VOC limit pursuant to RACT condition herein.]



004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

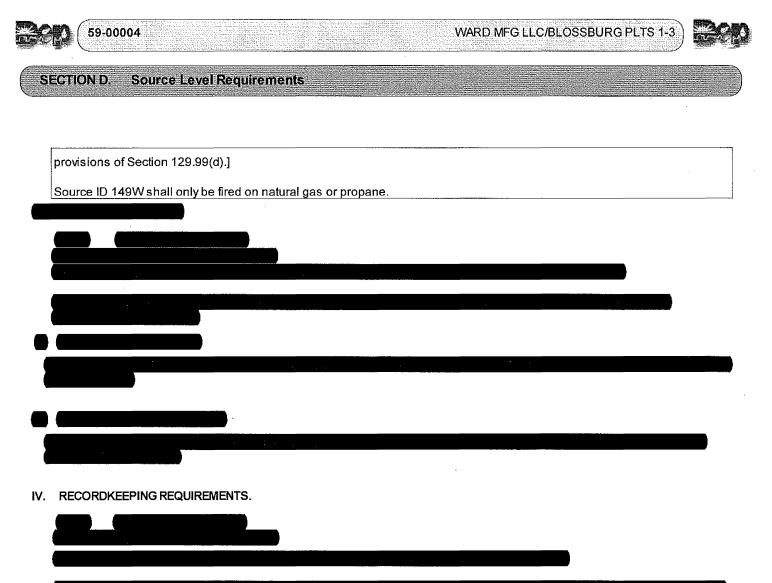
Pursuant to the RACT provisions of 25 Pa. Code Section 129.99(d), the total combined volatile organic compound (VOC), emissions from Source ID 149W shall not exceed 8 tons in any 12 consecutive month period.

Fuel Restriction(s).

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12 and the RACT



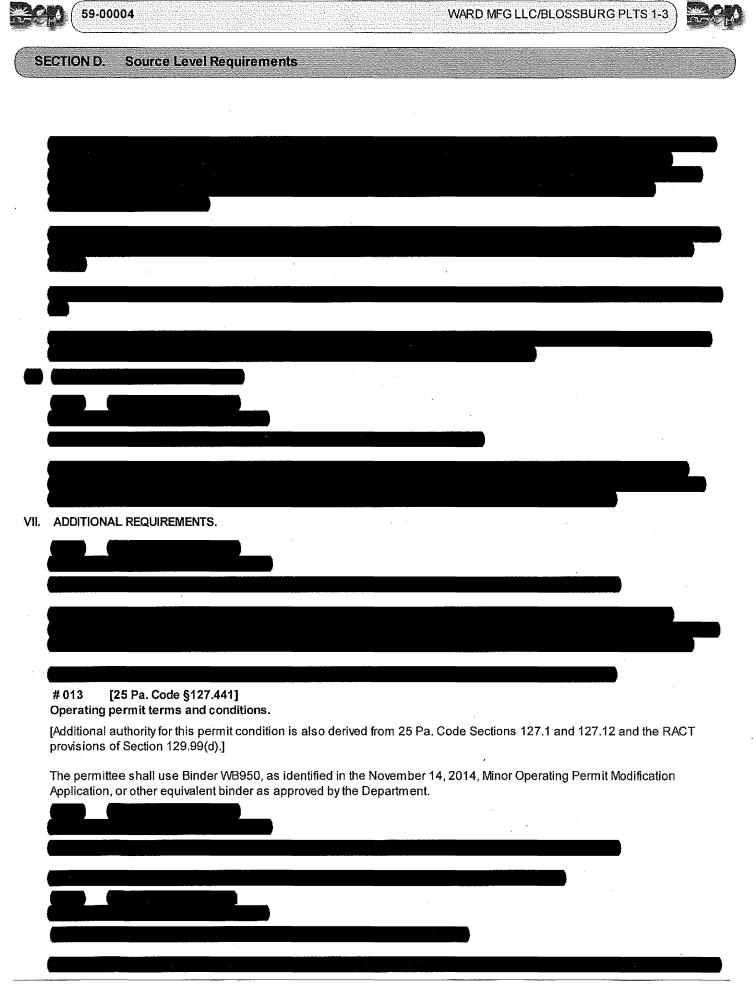
008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 127.511 and, with respect to the volatile organic compound emissions, Section 129.100(d).]

The permittee shall maintain comprehensive and accurate records which verify compliance with the 12 consecutive month emission limitations for nitrogen oxides, carbon monoxide, total particulate matter, volatile organic compounds, and hazardous air pollutants for Source ID 149W. All such records shall be retained for a minimum of five years and shall be made available to the Department upon request.

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*** Permit Shield in Effect. ***

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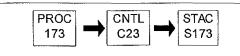




Source ID: 173

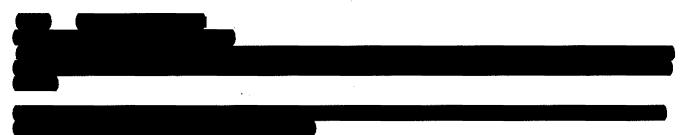
Source Name: MOLDING & CASTING OPERATIONS

Source Capacity/Throughput:



I. RESTRICTIONS.

Emission Restriction(s).



002 [25 Pa. Code §127.441]

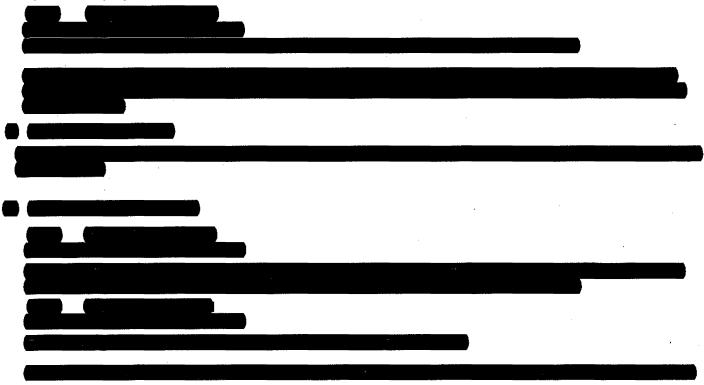
Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 127.1 and 127.12 and the RACT provisions of Section 129.99(d).]

The total combined volatile organic compound (VOC) emissions from the equipment of the two SPO molding lines that are controlled by Control Devices IDs C05 and C07 (the SPO baghouses) associated with Source ID 199, and the equipment of Source ID 173 that are controlled by Control Device ID C23 (the Wheelabrator baghouse associated with Source ID 173) shall not exceed the following rates:

1) 55.3 pounds per hour

2) 109.5 tons per year.







IV. RECORDKEEPING REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511 and, with respect to the volatile organic compound emissions, Section 129.100(d).]

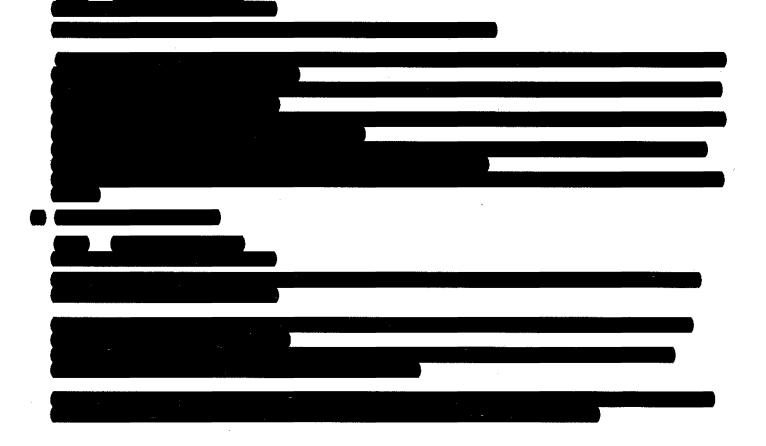
(a) The permittee shall keep records of the following:

(1) Such information as is necessary to demonstrate that compliance with the particulate matter emission limitation applicable herein to Control Device ID C23 is being achieved.

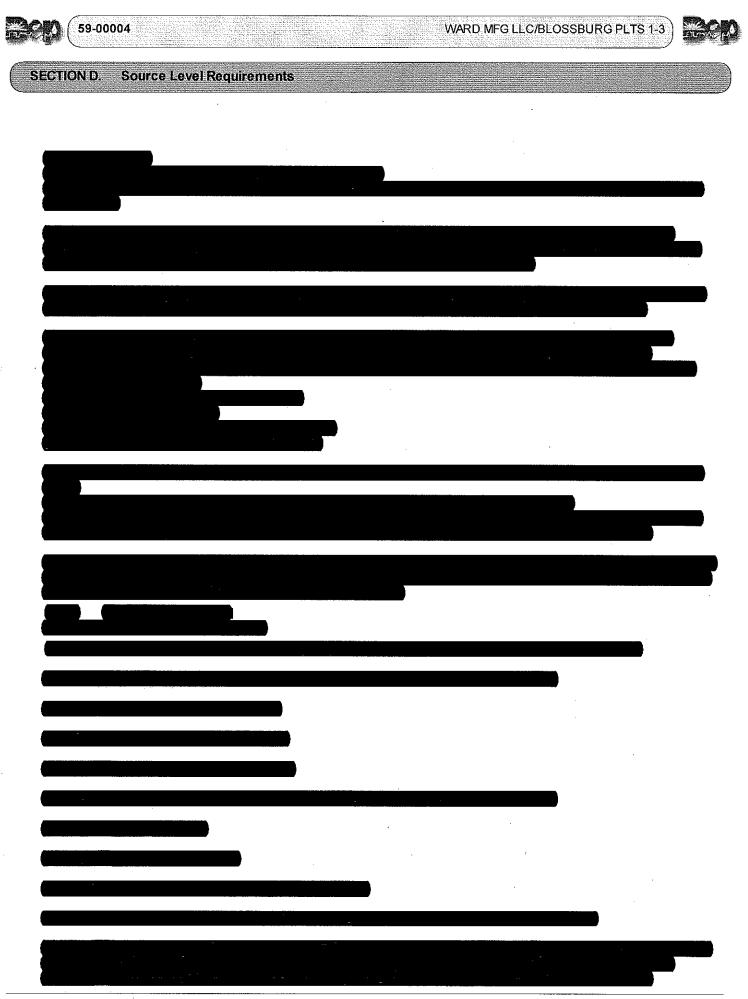
(2) Such information as is necessary to demonstrate that compliance with the sulfur oxides emission limitation applicable herein to Control Device ID C23 is being achieved.

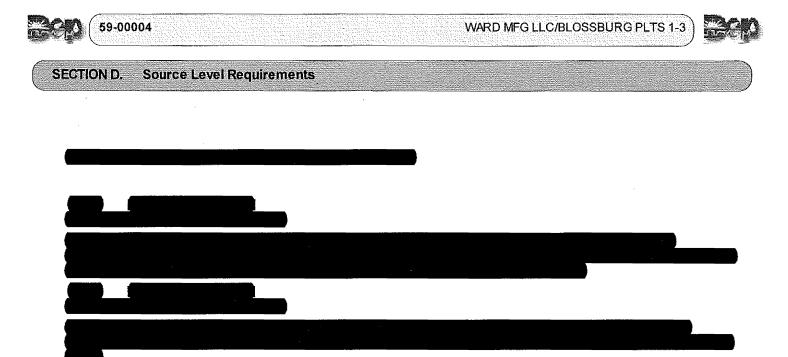
(3) Such information as is necessary to demonstrate that compliance with the combined VOC emission limitations applicable herein to Source IDs 173 and 199 is being achieved.

(b) These records shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.



59-00004	WARD MFG LLC/BLOSSBURG PL	TS 1-3
SECTION D. Source Level Requirements		
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*** Permit Shield in Effect. ***

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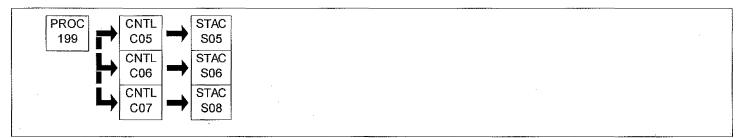




Source ID: 199

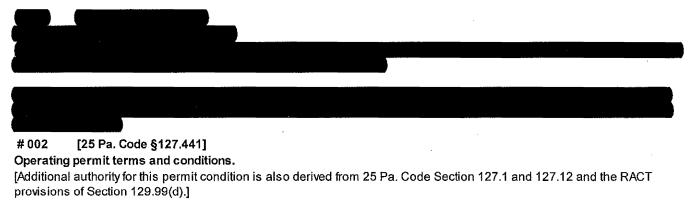
Source Name: MOLDING LINES (SP01, SP02, & SP03)

Source Capacity/Throughput:



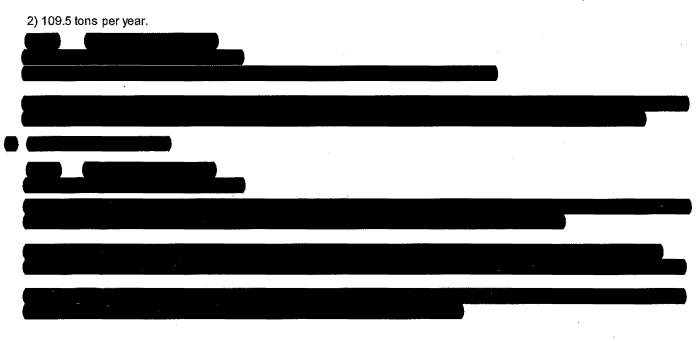
I. RESTRICTIONS.

Emission Restriction(s).

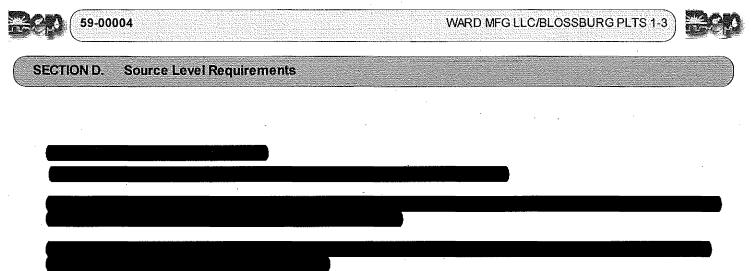


The total combined volatile organic compound (VOC) emissions from the equipment of the two SPO molding lines that are controlled by Control Devices IDs C05 and C07 (the SPO baghouses) associated with Source ID 199, and the equipment of Source ID 173 that are controlled by Control Device ID C23 (the Wheelabrator baghouse associated with Source ID 173) shall not exceed the following rates:





20 1	59-00004 WARD MFG LLC/BLOSSBURG PLTS 1-3	26p
SEC	ON D. Source Level Requirements	
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IV. 1	CORDKEEPING REQUIREMENTS.	
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#010 [25 Pa. Code §127.441] Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 CFR 63.7710(b).]

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(c) Pursuant to the RACT provisions of Section 129.99(d), the permitee shall keep the procedures for igniting gases from mold vents associated with Source ID 199 or maintain records of the ignitability determination according to 40 CFR 63.7710(b)(6) available to the Department for review upon request.

#011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

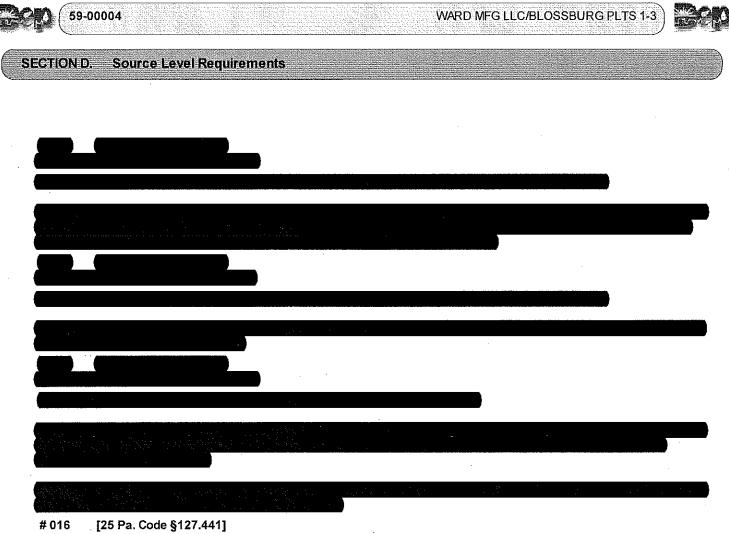
(a) The permittee shall keep records of the following:

(2) Pursuant to the recordkeeping requirements of Section 129.100(d), such information as is necessary to demonstrate that compliance with the combined VOC emission limitations specified above under I. Restrictions.

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VI. WORK PRACTICE REQUIREMENTS.

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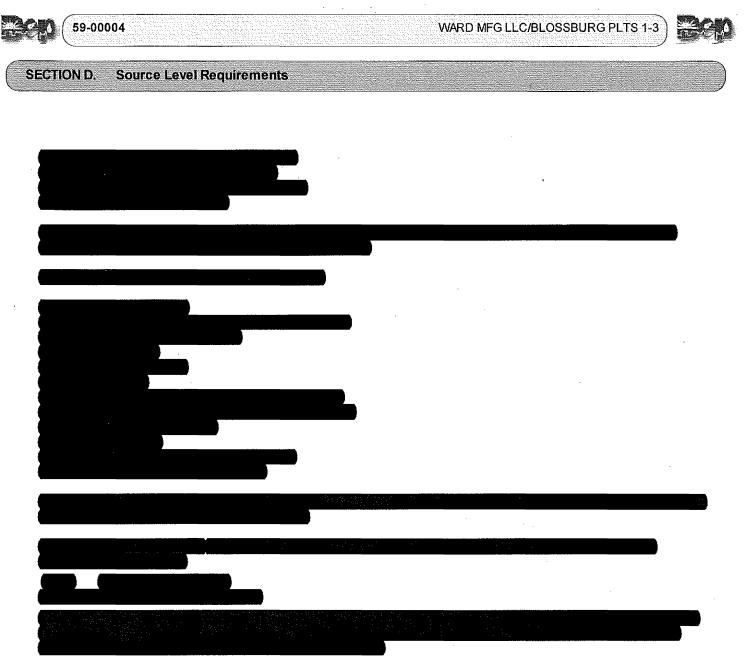
Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 CFR 63.7745(a)(5)]

(a) Pursuant to the RACT provisions of Section 129.99(d), the permittee shall ignite gases from mold vents according to the procedures in the plan required by 40 CFR 63.7710(b)(6).

VII. ADDITIONAL REQUIREMENTS.

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#019 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Pursuant to the RACT provisions of 25 Pa. Code Section 129.99(d), by no later than January 1, 2017, the permittee shall cease operation of all volatile organic compound-emitting sources associated with SPO2. For reference, SPO2 consists of the following:

- (1) Cupola Runner
- (2) Ladle Fill station
- (3) Pouring Conveyer
- (4) Spill Sand Pit Conveyer
- (5) Mold Cooling Conveyer
- (6) Rollover, Punchout, Separator, and Casting Conveyer
- (7) Discharge to Didion Feed Conveyer
- (8) Return Sand Belt (basement to 1st floor)
- (9) Didion Feed or "Punchout to Drum" Conveyer (Unit 19a)
- (10) Didion Media Drum (Unit 20)
- (11) Didion Sand Discharge Conveyer (Unit 15)
- (12) Didion Discharge
- (13) Accumulating/Cooling Conveyer (Unit 21a)
- (14) Deaccumulating Conveyers (Units 13b and 21b)
- (15) A Wheelabrator #7117 TA-SB model 144 Jet III D/C fabric collector (Control Device ID C06).