



South Coast Air Quality Management District

21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 • www.aqmd.gov

May 25, 2011

Mr. Gerardo C. Rios
Chief of Permit Operations
US EPA Region IX Air 3
75 Hawthorne Street
San Francisco, CA 94105-3901

Dear Mr. Rios:

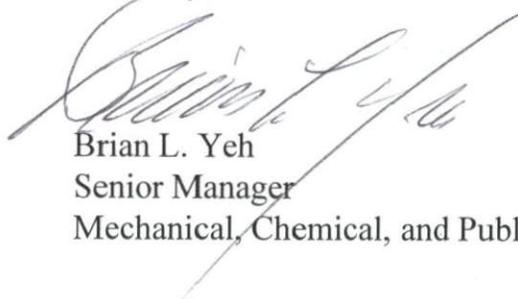
SUBJECT: Shultz Steel Company (ID 16639) Title V Permit Revision

Shultz Steel Company has proposed to revise their Title V permit by the addition of Furnace Device D126, Furnace Device D128 and Emergency Internal Combustion Engine Device D130; the modification of Furnace Device D21 by replacing existing burners with lower NOx emission burners; and an administrative change of condition to Devices D99, D73, D49, D47 and D14.

This is a custom steel parts fabrication facility (SIC 3462) located at 5321 Firestone Boulevard, South Gate, CA 90280. This proposed permit revision is considered as a "de minimus significant permit revision" to their Title V permit. Attached for your review are the permit evaluations, proposed Section D and Section H. With your receipt of the proposed Section D and Section H today, we will note that the EPA 45-day review period begins on May 25, 2011.

If you have any questions or need additional information regarding the proposed permit revision, please call Mr. Kien Huynh at (909) 396-2635.

Sincerely,

A handwritten signature in black ink, appearing to read "Brian L. Yeh", is written over a large, light-colored diagonal line that extends from the bottom left towards the top right of the signature area.

Brian L. Yeh
Senior Manager
Mechanical, Chemical, and Public Services

BLY:kh
Attachments

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT <i>ENGINEERING & COMPLIANCE</i> APPLICATION PROCESSING AND CALCULATIONS	Page	1 of 11
	A/Nos.	517777 et al
	Processed By	KH
	Checked By	KH
	Date	5/9/11

Applicant's Name: Shultz Steel
Mailing Address: 5321 Firestone Blvd.
 South Gate, CA 90280

Equipment Location: Same

Equipment Description:

APPLICATION NO. 517777: D126 P/C
 HEAT TREATING FURNACE NO. FXT (DEVICE D126), NON-FERROUS ALLOYS AND STEEL ALLOYS, HOTWORK, WITH TEN 1,500,000 BTU/HR HOTWORK MODEL HV400 NATURAL GAS-FIRED BURNERS, AND ONE 25 HP COMBUSTION AIR BLOWER.

APPLICATION NO. 517779: D21 Mod P/C
 ALTERATION TO HEAT TREAT FURNACE PERMIT TO OPERATE F65685 (A/N 420796), DEVICE D21, BY:
 THE REMOVAL OF:

- EIGHT ECLIPSE BURNERS, MODEL 85TA , NATURAL GAS-FIRED, EACH 1,300,000 BTU/HR AND THE ADDITION OF:
- EIGHT HOTWORK BURNERS, MODEL HV300 , NATURAL GAS-FIRED, EACH 1,000,000 BTU/HR

APPLICATION NO. 519711: D128 P/C
 HEAT TREATING FURNACE NO. RHT (DEVICE D128), NON-FERROUS ALLOYS AND STEEL ALLOYS, HOTWORK, WITH EIGHT 1,000,000 BTU/HR HOTWORK MODEL CT HV300 NATURAL GAS-FIRED BURNERS, AND ONE 20 HP COMBUSTION AIR BLOWER.

APPLICATION NO. 521062: D99 Previous F97554 477522 C/C
 HEAT TREATING FURNACE NO. RHC (DEVICE D99), 8,000,000 BTU/HR NATURAL GAS-FIRED.

APPLICATION NO. 521064: D73 Previous F97559 477582 C/C
 HEAT TREATING FURNACE NO. FXR (DEVICE D73), 32,000,000 BTU/HR NATURAL GAS-FIRED.

APPLICATION NO. 521065: D49 Previous F97557 477579 C/C
 HEAT TREATING FURNACE NO. AFA (DEVICE D49), 5,900,000 BTU/HR NATURAL GAS-FIRED.

APPLICATION NO. 521067: D47 Previous F97558 477580 C/C
 HEAT TREATING FURNACE NO. FNE (DEVICE D47), 15,000,000 BTU/HR NATURAL GAS-FIRED.

APPLICATION NO. 521069: D14 Previous F97562 478745 C/C
 HEAT TREATING FURNACE NO. FDS (DEVICE D14), 6,000,000 BTU/HR NATURAL GAS-FIRED.

HISTORY:

				521062, 64-
Applications	517777	517779	519711	65, 67, 69
Application(s) received on:	1/18/11	1/18/11	3/11/11	4/12/11
Equipment installed/modified:	No	No	No	Yes
Equipment in Condition C1.19 bubble?	Yes	No	Yes	Yes

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT	Page	3 of 11
<i>ENGINEERING & COMPLIANCE</i>	A/Nos.	517777 et al
APPLICATION PROCESSING AND CALCULATIONS	Processed By	KH
	Checked By	
	Date	5/9/11

PM₁₀ in total PM: 100%
 HHV of natural gas: 1,050 BTU/ft³
 CO limit? No

Computations:

VOC:

lb/hr 0.0067 lb/MM BTU*15 MM BTU = 0.10 lb/hr
 lb/day Max. 0.10 lb/hr*24 hrs/day = 2.40 lb/day Max.
 lb/day, Avg 0.10 lb/hr*24 hrs/day*1.00 (Load factor) = 2.40 lb/day, Avg
 lb/yr 2.40 lb/day*7 days/wk*52 wks/yr = 873.60 lb/yr

NOx:

lb/MM BTU 0.00121 lb/MM BTU-ppm*50 ppm = 0.0607 lb/MM BTU
 lb/hr 0.0607 lb/MM BTU*15 MM BTU/hr = 0.91 lb/hr
 lb/day Max. 0.91 lb/hr*24 hrs/day = 21.85 lb/day Max.
 lb/day, Avg 0.91 lb/hr*24 hrs/day*1.00 (Load factor) = 21.85 lb/day, Avg
 lb/yr 21.85 lb/day*7 days/wk*52 wks/yr = 7954.49 lb/yr

SOx:

lb/hr 0.0008 lb/MM BTU*15 MM BTU = 0.012 lb/hr
 lb/day Max. 0.012 lb/hr*24 hrs/day = 0.28 lb/day Max.
 lb/day, Avg 0.012 lb/hr*24 hrs/day*1.00(Load factor) = 0.28 lb/day, Avg
 lb/yr 0.28 lb/day*7 days/wk*52 wks/yr = 103.58 lb/yr

CO:

lb/hr 0.0333 lb/MM BTU*15 MM BTU = 0.50 lb/hr
 lb/day Max. 0.50 lb/hr*24 hrs/day = 12.00 lb/day Max.
 lb/day, Avg 0.50 lb/hr*24 hrs/day*1.00 (Load factor) = 12.00 lb/day, Avg
 lb/yr 12.00 lb/day*7 days/wk*52 wks/yr = 4368.00 lb/yr

PM/PM10

lb/hr 0.0071 lb/MM BTU*15 MM BTU = 0.11 lb/hr
 lb/day Max. 0.11 lb/hr*24 hrs/day = 2.57 lb/day Max.
 lb/day, Avg 0.11 lb/hr*24 hrs/day*1.00 (Load factor) = 2.57 lb/day, Avg
 lb/yr 2.57 lb/day*7 days/wk*52 wks/yr = 936.00 lb/yr

Summary:

A/N 517777

	VOC	NOx	SOx	CO	PM/PM10
Factor (lb/MM BTU)	0.0067	0.0607	0.0008	0.0333	0.0071
lb/hr	0.10	0.91	0.012	0.50	0.11
lb/day					
Max.	2	22	0	12	3
Avg.	2.400	21.85	0.2846	12.00	2.571
lb/yr	873.60	7,954.49	103.58	4,368.00	936.00

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT	Page	4 of 11
<i>ENGINEERING & COMPLIANCE</i>	A/Nos.	517777 et al
APPLICATION PROCESSING AND CALCULATIONS	Processed By	KH
	Checked By	
	Date	5/9/11

<u>APPLICATION NO. 517779:</u>	D21	Mod P/C	
<u>Given:</u>		<u>Modified</u>	<u>Existing</u>
Maximum Heat Input Rating, MM BTU/hr:		8.0	10.4
Fuel:		Natural gas	
Equipment Operating Load:		100%	
Conversion Factors, ppm @ 3% O ₂ to lb/MM BTU			
NOx		0.00121	
CO		0.00074	
<u>Operating Schedule:</u>			
hrs/day		24	
days/wk		7	
weeks/yr		52	
		<u>Modified</u> ^(Note 1)	<u>Existing</u>
NOx Concentration, ppm @ 3% O ₂ (dry)		50	65.00
CO Concentration, ppm @ 3% O ₂ (dry)			
Emission Factors, lb/MM BTU: (Default)			
ROG:		0.0067	
SOx :		0.0008	
CO:		0.0333	
PM:		0.0071	
PM ₁₀ in total PM:		100%	
HHV of natural gas:		1,050 BTU/ft ³	
CO limit?		No	
<u>Computations:</u>			
<u>VOC:</u>			
lb/hr	0.0067 lb/MM BTU*8 MM BTU =	0.05 lb/hr	
lb/day Max.	0.05 lb/hr*24 hrs/day =	1.28 lb/day Max.	
lb/day, Avg	0.05 lb/hr*24 hrs/day*1.00 (Load factor) =	1.28 lb/day, Avg	
lb/yr	1.28 lb/day*7 days/wk*52 wks/yr =	465.92 lb/yr	
<u>NOx:</u>			
lb/MM BTU	0.00121 lb/MM BTU-ppm*50 ppm =	0.0607 lb/MM BTU	
lb/hr	0.0607 lb/MM BTU*8 MM BTU =	0.49 lb/hr	
lb/day Max.	0.49 lb/hr*24 hrs/day =	11.65 lb/day Max.	
lb/day, Avg	0.49 lb/hr*24 hrs/day*1.00 (Load factor) =	11.65 lb/day, Avg	
lb/yr	11.65 lb/day*7 days/wk*52 wks/yr =	4242.39 lb/yr	
<u>SOx:</u>			
lb/hr	0.0008 lb/MM BTU*8 MM BTU =	0.006 lb/hr	
lb/day Max.	0.006 lb/hr*24 hrs/day =	0.15 lb/day Max.	
lb/day, Avg	0.006 lb/hr*24 hrs/day*1.00(Load factor) =	0.15 lb/day, Avg	
lb/yr	0.15 lb/day*7 days/wk*52 wks/yr =	55.24 lb/yr	

ENGINEERING & COMPLIANCE

A/Nos.

517777 et al

Processed By

KH

Checked By

Date

5/9/11

APPLICATION PROCESSING AND CALCULATIONS

CO:

lb/hr 0.0333 lb/MM BTU*8 MM BTU = 0.27 lb/hr
 lb/day Max. 0.27 lb/hr*24 hrs/day = 6.40 lb/day Max.
 lb/day, Avg 0.27 lb/hr*24 hrs/day*1.00 (Load factor) = 6.40 lb/day, Avg
 lb/yr 6.40 lb/day*7 days/wk*52 wks/yr = 2329.60 lb/yr

PM/PM10

lb/hr 0.0071 lb/MM BTU*8 MM BTU = 0.06 lb/hr
 lb/day Max. 0.06 lb/hr*24 hrs/day = 1.37 lb/day Max.
 lb/day, Avg 0.06 lb/hr*24 hrs/day*1.00 (Load factor) = 1.37 lb/day, Avg
 lb/yr 1.37 lb/day*7 days/wk*52 wks/yr = 499.20 lb/yr

Summary:

A/N 517779

	VOC	NOx	SOx	CO	PM/PM10
Factor (lb/MM BTU)	0.0067	0.0607	0.0008	0.0333	0.0071
lb/hr	0.05	0.49	0.006	0.27	0.06
lb/day					
Max.	1	12	0	6	1
Avg.	1.280	11.65	0.1518	6.40	1.371
lb/yr	465.92	4,242.39	55.24	2,329.60	499.20

Emission impacts due to the modification:

	VOC	NOx	SOx ⁽¹⁾	CO	PM10
A/N 420796 (Before)	1.680	99.36	0.1973	8.40	1.680
A/N 517779 (After)	1.280	11.65	0.1518	6.40	1.371
After - Before	-0.400	-87.71	-0.0455	-2.00	-0.309
Emission impacts	Decreased	Decreased	Decreased	Decreased	Decreased

⁽¹⁾SOx emission is calculated from burner ratings (SOx emission was not recorded when Permit F65685 [A/N 420796] was issued)

Note: Emissions for A/N 420796 are from NSR Application Emission Inquiry.

APPLICATION NO. 519711:

D128

P/C

Given:

Maximum Heat Input Rating, MM BTU/hr:

8

Fuel:

Natural gas

Equipment Operating Load:

100%

Conversion Factors, ppm @ 3% O₂ to lb/MM BTU

NOx

0.00121

CO

0.00074

Operating Schedule:

hrs/day

24

days/wk

7

weeks/yr

52

ENGINEERING & COMPLIANCE

A/Nos.

517777 et al

Processed By

KH

Checked By

APPLICATION PROCESSING AND CALCULATIONS

Date

5/9/11

NOx Concentration, ppm @ 3% O ₂ (dry)		50
CO Concentration, ppm @ 3% O ₂ (dry)		
Emission Factors, lb/MM BTU: (Default)		
ROG:		0.0067
SOx :		0.0008
CO:		0.0333
PM:		0.0071
PM ₁₀ in total PM:		100%
HHV of natural gas:		1,050 BTU/ft ³
CO limit?		No
<u>Computations:</u>		
<u>VOC:</u>		
lb/hr	0.0067 lb/MM BTU*15 MM BTU =	0.10 lb/hr
lb/day Max.	0.10 lb/hr*24 hrs/day =	2.40 lb/day Max.
lb/day, Avg	0.10 lb/hr*24 hrs/day*1.00 (Load factor) =	2.40 lb/day, Avg
lb/yr	2.40 lb/day*7 days/wk*52 wks/yr =	873.60 lb/yr
<u>NOx:</u>		
lb/MM BTU	0.00121 lb/MM BTU-ppm*50 ppm =	0.0607 lb/MM BTU
lb/hr	0.0607 lb/MM BTU*15 MM BTU/hr =	0.91 lb/hr
lb/day Max.	0.91 lb/hr*24 hrs/day =	21.85 lb/day Max.
lb/day, Avg	0.91 lb/hr*24 hrs/day*1.00 (Load factor) =	21.85 lb/day, Avg
lb/yr	21.85 lb/day*7 days/wk*52 wks/yr =	7954.49 lb/yr
<u>SOx:</u>		
lb/hr	0.0008 lb/MM BTU*15 MM BTU =	0.012 lb/hr
lb/day Max.	0.012 lb/hr*24 hrs/day =	0.28 lb/day Max.
lb/day, Avg	0.012 lb/hr*24 hrs/day*1.00(Load factor) =	0.28 lb/day, Avg
lb/yr	0.28 lb/day*7 days/wk*52 wks/yr =	103.58 lb/yr
<u>CO:</u>		
lb/hr	0.0333 lb/MM BTU*15 MM BTU =	0.50 lb/hr
lb/day Max.	0.50 lb/hr*24 hrs/day =	12.00 lb/day Max.
lb/day, Avg	0.50 lb/hr*24 hrs/day*1.00 (Load factor) =	12.00 lb/day, Avg
lb/yr	12.00 lb/day*7 days/wk*52 wks/yr =	4368.00 lb/yr
<u>PM/PM10</u>		
lb/hr	0.0071 lb/MM BTU*15 MM BTU =	0.11 lb/hr
lb/day Max.	0.11 lb/hr*24 hrs/day =	2.57 lb/day Max.
lb/day, Avg	0.11 lb/hr*24 hrs/day*1.00 (Load factor) =	2.57 lb/day, Avg
lb/yr	2.57 lb/day*7 days/wk*52 wks/yr =	936.00 lb/yr

Summary:

A/N 519711

	VOC	NOx	SOx	CO	PM/PM10
Factor (lb/MM BTU)	0.0067	0.0607	0.0008	0.0333	0.0071
lb/hr	0.10	0.91	0.012	0.50	0.11
lb/day					
Max.	2	22	0	12	3
Avg.	2.400	21.85	0.2846	12.00	2.571
lb/yr	873.60	7,954.49	103.58	4,368.00	936.00

APPLICATION NO. 521062, 64, 65, 67 & 69:

Emissions from NSR "Application Emission Inquiry" for previous applications will be used for the current applications.

Operating schedule

hrs/day

24 hrs/day

days/wk

7 days/wk

wks/yr

52 wks/yr

APPLICATION NO. 521062:

D99

Previous A/N:

477522

	VOC/TOG	NOx	SOx	CO	PM10
lb/hr	0.02	0.17	0	0.09	0.02
lb/day	0.48	4.08	0	2.16	0.48
AV30	0	4	0	2	0
lb/yr	174.72	1485.12	19.44	786.24	174.72

Applicable Rules

401

402

404

407/409

APPLICATION NO. 521064:

D73

Previous A/N:

477582

	VOC/TOG	NOx	SOx	CO	PM10
lb/hr	0.11	0.66	0.01	0.53	0.11
lb/day	2.64	15.84	0.24	12.72	2.64
AV30	3	16	0	13	3
lb/yr	960.96	5765.76	109.36	4630.08	960.96

Applicable Rules

401

402

404

407/409

APPLICATION NO. 521065:

D49

Previous A/N:

477579

	VOC/TOG	NOx	SOx	CO	PM10
lb/hr	0.04	0.62	0.01	0.2	0.04
lb/day	0.96	14.88	0.24	4.8	0.96
AV30	1	15	0	5	1
lb/yr	349.44	5416.32	40.74	1747.2	349.44

Applicable Rules

401

402

404

407/409

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT ENGINEERING & COMPLIANCE APPLICATION PROCESSING AND CALCULATIONS	Page 8 of 11 A/Nos. 517777 et al Processed By KH Checked By Date 5/9/11
---	---

APPLICATION NO. 521067: D47 Previous A/N: 477580

	VOC	NOx	SOx	CO	PM10	Applicable Rules
lb/hr	0.04	0.43	0.01	0.21	0.05	401
lb/day	0.96	10.32	0.24	5.04	1.2	402
AV30	1	10	0	5	1	404
lb/yr	349.44	3756.48	44.43	1834.56	436.8	407/409

APPLICATION NO. 521069: D14 Previous A/N: 478745

	VOC	NOx	SOx	CO	PM10	Applicable Rules
lb/hr	0.04	0.53	0.01	0.2	0.04	401
lb/day	0.96	12.72	0.24	4.8	0.96	402
AV30	1	13	0	5	1	404
lb/yr	349.44	4630.08	41.43	1747.2	349.44	407/409

Emission impacts due to the alteration of D21:

There will be an emission decrease due the alteration (lower NOx concentration & low furnace rating).

Emission impacts due to the installation of the new furnaces: D126 D128

To avoid having to provide PM10 and ROG ERCs to offset the emission increases from the new furnaces, the applicant proposes to include natural gas usage of the new furnaces into the natural gas usage bubble created by Condition C1.19.

C1.19: The operator shall limit the natural gas fuel usage to no more than 24 MM cubic feet in any one calendar month. This limit is based on the combined natural gas usage of devices D14, D47, D49, D73, and D99.

With the addition of natural gas usage of the new furnaces to the bubble, the new devices will be added to the list of devices in Condition C1.19.

Table 1 below shows ratings and NOx concentrations of the devices in the bubble.

Table 1

Devices	Rating, MM BTU/hr	NOx, ppm @ 3% O2
D99	8	44
D73	32	34.1
D49	6	87
D47	15	55
D14	6	73
D126	15	50
D128	8	50

APPLICATION NO. 517777:

Data from Table 1 show that the highest NOx emission increase due to the operation of the proposed furnace occurs when the proposed furnace operates at the expense of Device D73. Therefore, the maximum NOx emission increase should be calculated from:

Heat input		15 MM BTU/hr
NOx concentration	50 ppm @3% O2-34.1 ppm @3% O2=	15.9 ppm @3% O2
<u>NOx:</u> (Used for Rule 212 evaluation, offset and modeling)		
lb/MM BTU	0.00121 lb/MM BTU-ppm*15.9 ppm =	0.0193 lb/MM BTU
lb/hr	0.0193 lb/MM BTU*15 MM BTU/hr =	0.29 lb/hr
lb/day	0.29 lb/hr*24 hrs/day =	6.95 lb/day Max.
lb/yr	6.95 lb/day*7 days/wk*52 wks/yr =	2,530 lb/yr

APPLICATION NO. 519711:

Data from Table 1 show that the highest NOx emission increase due to the operation of the proposed furnace occurs when the proposed furnace operates at the expense of Device D73. Therefore, the maximum NOx emission increase should be calculated from:

Heat input		8 MM BTU/hr
NOx concentration	50 ppm @3% O2-34.1 ppm @3% O2=	15.9 ppm @3% O2
<u>NOx:</u> (Used for Rule 212 evaluation, offset and modeling)		
lb/MM BTU	0.00121 lb/MM BTU-ppm*15.9 ppm =	0.0193 lb/MM BTU
lb/hr	0.0193 lb/MM BTU*8 MM BTU/hr =	0.15 lb/hr
lb/day	0.15 lb/hr*24 hrs/day =	3.71 lb/day Max.
lb/yr	3.71 lb/day*7 days/wk*52 wks/yr =	1,349 lb/yr

Total NOx RTCs requirements (two new furnaces + Emergency IC engine)

A/N 517777	Furnace	2,530 lb/yr
A/N 519711	Furnace	1,349 lb/yr
A/N 518003	Emergency IC Engine	73 lb/yr
Total		3,952 lb/yr

	From	To	
Facility NOx RTC Holding	1/1/11	12/31/11	28,198 lbs
	1/1/12	12/31/12	28,198 lbs

OK

Emission impacts from the existing furnaces with Change of Condition processing:

Because the processing is for adding new devices to the existing fuel limit bubble, there will be no emission impacts from the associated existing furnaces.

Project emission increases for Rule 212 evaluation:

A/Ns	lb/day				
	VOC	NOx	SOx	CO	PM10
517777	0	6.95	0	0	0
517779	0	0	0	0	0
519711	0	3.71	0	0	0
518003	0.05	0.05	6.78E-05	0.07	0
Total	0.05	10.71	6.78E-05	0.07	0

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT <i>ENGINEERING & COMPLIANCE</i> APPLICATION PROCESSING AND CALCULATIONS	Page 10 of 11 A/Nos. 517777 et al Processed By KH Checked By Date 5/9/11
---	--

RULES EVALUATION

Rule 212:

(c) (1) Emissions near a school

The equipment is not located within 1000 feet from the outer boundary of a school. (The nearest school is 3,696 feet from the facility). This is not a project requiring notification under this paragraph.

(c) (2) On-site emission increases exceeding the daily maximums

The emission increases do not exceed any of the daily maximums specified in subdivision (g) of this rule. This is not a project requiring notification as described in this paragraph.

(c) (3) Emissions of toxic air contaminants

There is no increase in emissions of toxic air contaminants. This is not a project requiring notification under this paragraph.

(g) Emission increases exceeding the daily maximums

The emission increases do not exceed any of the daily maximums specified in subdivision (g) of this rule. The equipment is not subject to the notification requirements of this subdivision.

Rule 401:

No visible emissions are expected from this type of equipment. Compliance is expected.

Rule 402:

Nuisance problems due to the operation of this equipment are unlikely.

Rule 404:

Combustion of natural gas does not generate a significant amount of PM emission. Compliance is expected.

Rules 407/409:

This equipment is fired with natural gas. Compliance is expected.

Rule 1147:

Because the equipment is located at a RECLAIM facility, it is exempted per rule (g) (1) (B).

Regulation XIII - New Source Review

APPLICATION NO. 517779:

There is no emission increase due to the modification, NSR is not applicable.

Other applications:

ROG/ SOx/PM10/CO:

With the natural gas usage limit, there is no emission increase due the operation of the equipment.

Rule 1401:

With the natural gas usage limit bubble, there is no emission increase due to the operation of the proposed equipment. This rule is not applicable.

Rule 1703 - PSD Analysis:

With the natural gas usage bubble for the new equipment and alteration with reduction in the emissions, there is no emission increase due to the facility modification. NSR is not applicable.

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT <i>ENGINEERING & COMPLIANCE</i> APPLICATION PROCESSING AND CALCULATIONS	Page	11 of 11
	A/Nos.	517777 et al
	Processed By	KH
	Checked By	
	Date	5/9/11

Rule 2005 - New Source Review for RECLAIM

APPLICATION NOS. 517777 & 519711:

NOx:

RTCs

The facility is a NOx RECLAIM facility. It holds enough NOx RTCs for the operation of the proposed equipment.

BACT:

	ppm @ 3% O ₂		
	Limit	Expected	Compliance
NOx	50	50	Yes

Modeling:

The NOx emission increase is less than the amount in Table A-1 of Rule 2005. No further analysis is required. Complies.

Other applications:

With alteration with reduction in the emissions and change of condition that does not cause any emission impacts, there is no emission increase due to the facility modification. NSR is not applicable.

DISCUSSIONS

NSR Inputs: With the fuel consumption bubble, PM10, SOx, CO and VOC 30-day average emissions from the new furnaces will be recorded as "0" in NSR account. The calculated NOx emissions from "Emission impacts due to the installation of the new furnaces" (Pages 8 & 9) will be used for NOx 30-day average emissions for the two new furnaces.

Based on information submitted with the application and the above evaluation, it is determined that the equipment will operate in compliance with all the applicable rules and regulations of the District.

RECOMMENDATIONS

Issue permits.

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT <i>STATIONARY SOURCE COMPLIANCE</i> APPLICATION PROCESSING AND CALCULATIONS	PAGE	1 of 4
	A/N	518003
	PROCESSED BY	KH
	CHECKED BY	
	DATE	5/14/11

Applicant's Name: Shultz Steel
Mailing Address: 5321 Firestone Boulevard
 South Gate, CA 90280

Equipment Location: Same

Equipment Description:

APPLICATION NO. 518003:

INTERNAL COMBUSTION ENGINE, GENERAC MODEL 6.8GLPN-70, NATURALLY ASPIRATED, 10 CYLINDERS, 110.7 HP, NATURAL GAS-FUELED, WITH A GENERAC P/N 0G9763 3-WAY CATALYTIC CONVERTER AND A GENERAC P/N 0F5763 AIR-TO-FUEL RATIO CONTROLLER, DRIVING AN EMERGENCY ELECTRICAL GENERATOR.

HISTORY/PROCESS DESCRIPTION:

Application(s) received on: 1/7/11
 Equipment installed: No
 Violations recorded: 1 Notice of Violation was issued in the last two years. Notice of Violation (NOV) P52563 was issued on 9/10/09, for a violation on 3/2/09, for not submitting TV V Semi-annual and Annual reports in a timely manner. The compliance for NOV P52563 was achieved on 4/1/09.

The application was filed for Permit to Construct and Operate a natural gas-fueled internal combustion engine driving an emergency generator.

CALCULATIONS:

Given:

HP		110.7 HP
g to lb conversion factor		0.0022 lb/g
Maintenance and testing limit:		50 hrs/yr
Operating schedule		
hrs/day		1 hrs/day
days/wk		1 days/wk
hrs/month	50 hrs/yr/12 months/yr =	4.17 hrs/month
wks/yr		50 wks/yr
hrs/yr (for RTC holding requirement)		200 hrs/yr
Fuel consumption at 100% rated load		1,020 ft ³ /hr
HHV of natural gas		1,050 BTU/ft ³
Emission factors, g/HP-hr:		
VOC		1.50 g/HP-hr
NOx		1.50 g/HP-hr
SOx		0.002 g/HP-hr
CO		2.00 g/HP-hr

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT <i>STATIONARY SOURCE COMPLIANCE</i> APPLICATION PROCESSING AND CALCULATIONS	PAGE	2 of 4
	A/N	518003
	PROCESSED BY	KH
	CHECKED BY	
	DATE	5/14/11

Computations:

VOC:

lb/hr $1.50 \text{ g/HP-hr} * 110.7 \text{ HP} * 0.0022046 \text{ lb/g} = 0.37 \text{ lb/hr}$
 lb/day (30-day Avg.) $0.37 \text{ lb/hr} * 4.17 \text{ hrs/month} / 30 \text{ days/month} = 0.05 \text{ lb/day}$
 lb/yr $0.37 \text{ lb/hr} * 1 \text{ hr/day} * 1 \text{ day/wk} * 50 \text{ wks/yr} = 18.30 \text{ lb/yr}$

NOx:

lb/hr $1.50 \text{ g/HP-hr} * 110.7 \text{ HP} * 0.0022046 \text{ lb/g} = 0.37 \text{ lb/hr}$
 lb/day (30-day Avg.) $0.37 \text{ lb/hr} * 4.17 \text{ hrs/month} / 30 \text{ days/month} = 0.05 \text{ lb/day}$
 lb/yr $0.37 \text{ lb/hr} * 1 \text{ hr/day} * 1 \text{ day/wk} * 50 \text{ wks/yr} = 18.30 \text{ lb/yr}$
 lb/yr (RTC holding requirement) $0.37 \text{ lb/hr} * 200 \text{ hrs/yr} = 73.21 \text{ lb/yr}$

SOx:

lb/hr $0.002 \text{ g/HP-hr} * 110.7 \text{ HP} * 0.0022046 \text{ lb/g} = 0.0005 \text{ lb/hr}$
 lb/day (30-day Avg.) $0.0005 \text{ lb/hr} * 4.17 \text{ hrs/month} / 30 \text{ days/month} = 0.0001 \text{ lb/day}$
 lb/yr $0.0005 \text{ lb/hr} * 1 \text{ hr/day} * 1 \text{ day/wk} * 50 \text{ wks/yr} = 0.02 \text{ lb/yr}$

CO:

lb/hr $2 \text{ g/HP-hr} * 110.7 \text{ HP} * 0.0022046 \text{ lb/g} = 0.49 \text{ lb/hr}$
 lb/day (30-day Avg.) $0.49 \text{ lb/hr} * 4.17 \text{ hrs/month} / 30 \text{ days/month} = 0.07 \text{ lb/day}$
 lb/yr $0.49 \text{ lb/hr} * 1 \text{ hr/day} * 1 \text{ day/wk} * 50 \text{ wks/yr} = 24.40 \text{ lb/yr}$

Summary:

	VOC	NOx	SOx	CO
lb/hr	0.37	0.37	0	0.49
lb/day (30-day Avg.)	0.05	0.05	0	0.07
lb/yr, Average	18.30	18.30	0.02	24.40
lb/yr, Max. for RTC holding		73.21		

Maximum heat input: $1020 \text{ ft}^3/\text{hr} * 1050 \text{ BTU}/\text{ft}^3 * 10^{-6} = 1.07 \text{ MM BTU/hr}$

EVALUATION:

Rule 212:

(c) (1): Emissions near a school

The equipment is not located within 1000 feet from the outer boundary of a school. (The nearest school is 3,696 feet from the facility). This is not a project requiring notification under this paragraph.

(c) (2): On-site emission increases exceeding the daily maximums

The emission increases do not exceed any of the daily maximums specified in subdivision (g) of this rule. This is not a project requiring notification as described in this paragraph.

(c) (3): Emissions of toxic air contaminants

Results of Tier 1 analysis show that MICR is less 1 in a million. The equipment is not subject to the public notice requirements of subdivision (c).

(g): Emission increases exceeding the daily maximums

The emission increases do not exceed any of the daily maximums specified in subdivision (g) of this rule. The equipment is not subject to the notification requirements of this subdivision.

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT <i>STATIONARY SOURCE COMPLIANCE</i> APPLICATION PROCESSING AND CALCULATIONS	PAGE	3 of 4
	A/N	518003
	PROCESSED BY	KH
	CHECKED BY	
	DATE	5/14/11

Rule 401:

Based on experience with similar equipment, this equipment is expected to operate in compliance with the visible emission limits.

Rule 402:

Based on experience with similar equipment, nuisance complaints are not expected.

Rule 404:

Based on experience with similar equipment, compliance with this rule is expected.

Rule 431.1:

This equipment is fired with natural gas. Compliance is expected.

Rule 1110.2:

ROG & CO:

The engine is exempt from all provisions of this rule per Rule 1110.2 (h) (2).

Rule 1147:

Because the equipment is located at a RECLAIM facility, it is exempted per rule (g) (1) (B).

Regulation XIII: New Source Review

The equipment qualifies for an exemption under Rule 1304 (a) (4) - Emergency Equipment. It is exempt from the offset and modeling requirements. However, it must comply with BACT.

BACT:

	VOC	CO
	g/HP-hr	
Limits	1.5	2
Expected*	1.5	2
Compliance	Yes	Yes

*Natural gas engine with NSCR plus air-to-fuel ratio controller is expected to attain emission levels below those stated.

Compliance: YES

Rule 1401:

Exempt per Rule 1401 (g) (1) (F) Amended September 10, 2010.

Rule 1703 - PSD Anal CO

Since the facility is not within 10 km of a Class I area and the CO emission increase is less than 100 tons per year, except for BACT, all other requirements of Regulation XVII - Prevention of Significant Deterioration - are not applicable to this facility.

BACT:

See above BACT evaluation. Complies

Rule 2005 - New Source Review for RECLAIM

The equipment qualifies for an exemption under Rule 2005 (k) (5) - Emergency Equipment.

It is exempt from the modeling requirements. However, it must comply with BACT and offsets requirements.

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT <i>STATIONARY SOURCE COMPLIANCE</i> APPLICATION PROCESSING AND CALCULATIONS	PAGE	4 of 4
	A/N	518003
	PROCESSED BY	KH
	CHECKED BY	
	DATE	5/14/11

BACT:

	NOx
	g/HP-hr
Requirements	1.5
Expected*	1.5
Compliance	Yes

*Natural gas engine with NSCR plus air-to-fuel ratio controller is expected to attain an emission level below the stated.

RTCs

The facility is a NOx RECLAIM facility. It holds enough NOx RTCs for the operation of the proposed equipment.

Total NOx RTCs holding requirements (Two new furnaces + Emergency IC engine)

A/N 517777	Furnace	2,530 lb/yr
A/N 519711	Furnace	1,349 lb/yr
A/N 518003	Emergency IC Engine	73 lb/yr
Total		3,952 lb/yr

	From	To	
Facility NOx RTC Holding	1/1/11	12/31/11	28,198 lbs
	1/1/12	12/31/12	28,198 lbs

DISCUSSIONS:

OK

Based on information submitted with the application and the above evaluation, it is determined that the equipment operates in compliance with all the applicable rules and regulations of the District.

RECOMMENDATIONS:

Issue Permit to Construct/Operate subject to the permit conditions as stated in Section D.

TIER 1 SCREENING RISK ASSESSMENT REPORT

Receptor Distance (actual)	25
Receptor Distance (for X/Q LOOKUP)	25

Tier 1 Results	
Cancer/Chronic ASI	Acute ASI
6.52E-03	6.92E-03
PASSED	PASSED

APPLICATION SCREENING INDEX CALCULATION

Compound	Average Annual Emission Rate	Max Hourly Emission Rate (lbs/hr)	Cancer / Chronic Pollutant Screening Level (lbs/yr)	Acute Pollutant Screening Level (lbs/hr)	Cancer / Chronic Pollutant Screening Index	Acute Pollutant Screening Index (PSI)
Acetaldehyde	3.37E-04	6.74E-06	1.14E+01	2.35E-01	2.96E-05	2.87E-05
Acrolein	3.18E-04	6.35E-06	1.16E+01	1.25E-03	2.74E-05	5.08E-03
Benzene (including benzene from gasoline)	1.91E-04	3.82E-06	1.14E+00	7.39E-01	1.67E-04	5.17E-06
Butadiene, 1,3-	8.01E-05	1.60E-06	1.90E-01		4.21E-04	
Carbon tetrachloride (Tetrachloromethane)	2.14E-06	4.27E-08	7.61E-01	1.08E+00	2.81E-06	3.96E-08
Chlorobenzene	1.56E-06	3.12E-08	3.31E+04		4.71E-11	
Chloroform(trichloromethane)	1.65E-06	3.31E-08	6.01E+00	8.52E-02	2.75E-07	3.88E-07
Dichloroethane, 1,1-	1.36E-06	2.73E-08	2.00E+01		6.81E-08	
Ethyl benzene	2.99E-06	5.99E-08	1.31E+01		2.29E-07	
Ethylene dibromide(1,2-Dibromoethane)	2.57E-06	5.14E-08	4.57E-01		5.63E-06	
Ethylene dichloride (or 1,2-dichloroethane)	1.36E-06	2.73E-08	1.59E+00		8.60E-07	
Formaldehyde	2.48E-03	4.95E-05	5.44E+00	2.75E-02	4.55E-04	1.80E-03
Methanol (methyl alcohol)	3.69E-04	7.39E-06	1.32E+05	1.40E+01	2.79E-09	5.28E-07
Methylene chloride(Dichloromethane)	4.97E-06	9.95E-08	3.26E+01	7.00E+00	1.53E-07	1.42E-08
PolyCyclic Aromatic Hydrocarbon (PAHs)	5.30E-06	1.06E-07	9.84E-04		5.39E-03	
Naphthalene	1.17E-05	2.34E-07	9.51E-01		1.23E-05	
Styrene (vinyl benzene)	1.44E-06	2.87E-08	2.98E+04	1.05E+01	4.83E-11	2.74E-09
Tetrachloroethane 1,1,2,2-	3.05E-06	6.11E-08	5.71E-01		5.35E-06	
Toluene (methyl benzene)	6.74E-05	1.35E-06	9.92E+03	1.85E+01	6.79E-09	7.28E-08
Trichloroethane, 1,1,2-	1.85E-06	3.69E-08	2.00E+00		9.22E-07	
Vinyl chloride (chloroethylene)	8.67E-07	1.73E-08	4.23E-01	9.00E+01	2.05E-06	1.93E-10
Xylenes (isomers and mixtures)	2.35E-05	4.71E-07	2.31E+04	1.10E+01	1.02E-09	4.28E-08
TOTAL (APPLICATION SCREENING INDEX)					6.52E-03	6.92E-03

Toxics

Engine Rating:		110.7 HP
Fuel consumption		1,020 ft ³ /hr
BSFC	1,020 ft ³ /hr/110.7 HP =	9.21 ft ³ /HP-hr
Annual fuel consumption:		ft ³ /yr
Engine load:		100%
Equivalent annual operating time:		50 hrs
Control efficiency (Assumed)		50%
Operating Schedule:		
hrs/day		1
days/wk		1
weeks/yr		50

	lb/16 ⁶ ft ³		Emissions		
	Uncontrolled*	Controlled	lb/hr	lb/day	lb/yr
Acetaldehyde	0.9440	0.472	0.000481	0.00048	0.02407
Acrolein	0.3783	0.18915	0.000193	0.00019	0.00965
Benzene	3.2570	1.6285	0.001661	0.00166	0.08305
Formaldehyde	32.4963	16.24815	0.016573	0.01657	0.82866
Naphthalene	0.1785	0.08925	0.000091	0.00009	0.00455
PAH'S **	0.0179	0.00895	0.000009	0.00001	0.00046
Toluene	1.1145	0.55725	0.000568	0.00057	0.02842
Xylenes	0.4048	0.2024	0.000206	0.00021	0.01032

Note:

1. Toxic air contaminants are from Emission Factors for AB-2588

FACILITY PERMIT TO OPERATE SHULTZ STEEL CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1: FORGING OPERATION					
FURNACE, ROTARY, NO.FD-8, NATURAL GAS, 7.035 MMBTU/HR WITH A/N: 480319 BURNER, NATURAL GAS, NORTH AMERICAN, MODEL 4825-6Z, 7 TOTAL; 1.005 MMBTU/HR	D3		NOX: PROCESS UNIT**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 108.44 PPMV NATURAL GAS (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B59.1, D12.2, D28.5
FURNACE, NO.FHH, NATURAL GAS, 9.6 MMBTU/HR A/N: 468866	D4		NOX: PROCESS UNIT**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 72.99 PPMV NATURAL GAS (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B59.1, D28.5
FURNACE, ROTARY, NO.689-2-PM, FUS, NATURAL GAS, 16 MMBTU/HR WITH A/N: 459748 BURNER, NATURAL GAS, HOTWORK, MODEL HV-300, 16 TOTAL; 1 MMBTU/HR HEAT EXCHANGER	D5		NOX: LARGE SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 47.5 PPMV NATURAL GAS (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B59.1, C1.6, C19.1, D12.2, D12.3, E71.1

- * (1) (1A) (1B) Denotes RECLAIM emission factor
- (2) (2A) (2B) Denotes RECLAIM emission rate
- (3) Denotes RECLAIM concentration limit
- (4) Denotes BACT emission limit
- (5) (5A) (5B) Denotes command and control emission limit
- (6) Denotes air toxic control rule limit
- (7) Denotes NSR applicability limit
- (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS. etc.)
- (9) See App B for Emission Limits
- (10) See section J for NESHAP/MACT requirements

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE SHULTZ STEEL CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1: FORGING OPERATION					
FURNACE, NO.FBE, NATURAL GAS, 11.2 MMBTU/HR A/N: 477527	D8		NOX: LARGE SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 33 PPMV NATURAL GAS (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B59.1
FURNACE, NO.FBR, NATURAL GAS, HEAT TREATING, REGENERATIVE TYPE, 15.6 MMBTU/HR WITH A/N: 454769 BURNER, BLOOM ENGINEERING, MODEL S1500-40B, 12 TOTAL; 1.3 MMBTU/HR	D9		NOX: LARGE SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 47 PPMV NATURAL GAS (3) [RULE 2012, 5-6-2005]; NOX: 50 PPMV NATURAL GAS (4) [RULE 2005, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B59.1
FURNACE, NO.FUR, NATURAL GAS, WITH LOW NOX BURNER, 16 MMBTU/HR WITH A/N: 455693 BURNER, NATURAL GAS, HOTWORK, MODEL HV-300, 16 TOTAL; 1 MMBTU/HR	D10		NOX: LARGE SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 55 PPMV NATURAL GAS (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B59.1

* (1) (1A) (1B) Denotes RECLAIM emission factor (2) (2A) (2B) Denotes RECLAIM emission rate
 (3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
 (5) (5A) (5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
 (7) Denotes NSR applicability limit (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 (9) See App B for Emission Limits (10) See section J for NESHAP/MACT requirements

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE SHULTZ STEEL CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1: FORGING OPERATION					
FURNACE, NO.FBF, NATURAL GAS, 11.2 MMBTU/HR A/N: 478743	D11		NOX: LARGE SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 55 PPMV NATURAL GAS (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B59.1
FURNACE, NO FRB, NATURAL GAS, WITH LOW NOX BURNER, 6 MMBTU/HR WITH A/N: 454766 BURNER, NATURAL GAS, ZEDTEC, MODEL HV-400, WITH LOW NOX BURNER, 4 TOTAL; 1.5 MMBTU/HR	D12		NOX: PROCESS UNIT**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 39.23 PPMV NATURAL GAS (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B59.1, D12.1, D28.5, D323.1
FURNACE, NO.FDR, NATURAL GAS, 4.5 MMBTU/HR A/N:	D13		NOX: PROCESS UNIT**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 70.31 PPMV NATURAL GAS (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B59.1, C1.18, D28.5
FURNACE, NO.FDS, NATURAL GAS, 6 MMBTU/HR A/N:	D14		NOX: PROCESS UNIT**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 72.95 PPMV NATURAL GAS (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B59.1, C1.19, D28.5

* (1) (1A) (1B) Denotes RECLAIM emission factor
 (3) Denotes RECLAIM concentration limit
 (5) (5A) (5B) Denotes command and control emission limit
 (7) Denotes NSR applicability limit
 (9) See App B for Emission Limits
 (2) (2A) (2B) Denotes RECLAIM emission rate
 (4) Denotes BACT emission limit
 (6) Denotes air toxic control rule limit
 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 (10) See section J for NESHAP/MACT requirements

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE SHULTZ STEEL CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1: FORGING OPERATION					
FURNACE, NO.FDV, NATURAL GAS, 3 MMBTU/HR WITH A/N: 454765 BURNER, HOTWORK COMBUSTION TECHNOLOGY, MODEL HV-400, 2 TOTAL; 1.5 MMBTU/HR	D15		NOX: PROCESS UNIT**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 48 PPMV NATURAL GAS (3) [RULE 2012, 5-6-2005]; NOX: 50 PPMV NATURAL GAS (4) [RULE 2005, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B59.1, C1.12, D28.5
FURNACE, FUF, NATURAL GAS, WITH LOW NOX BURNER, 12 MMBTU/HR WITH A/N: 455695 BURNER, NATURAL GAS, HOTWORK, MODEL HV400, 6 TOTAL; 2 MMBTU/HR	D17		NOX: LARGE SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 50 PPMV NATURAL GAS (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B59.1
FURNACE, NO.FFE, NATURAL GAS, 12 MMBTU/HR A/N: 337934	D18		NOX: LARGE SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 55 PPMV NATURAL GAS (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B59.1

* (1) (1A) (1B) Denotes RECLAIM emission factor (2) (2A) (2B) Denotes RECLAIM emission rate
 (3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
 (5) (5A) (5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
 (7) Denotes NSR applicability limit (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 (9) See App B for Emission Limits (10) See section J for NESHAP/MACT requirements

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE SHULTZ STEEL CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1: FORGING OPERATION					
FURNACE, NO.FFD, NATURAL GAS, 12 MMBTU/HR A/N: 337935	D19		NOX: LARGE SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 55 PPMV NATURAL GAS (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B59.1
FURNACE, NO.FPN, NATURAL GAS, 10.4 MMBTU/HR A/N:	D21		NOX: LARGE SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 65 PPMV NATURAL GAS (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B59.1
FURNACE, NO.26, FHX, NATURAL GAS, 5.9 MMBTU/HR A/N: 454763	D22		NOX: PROCESS UNIT**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 71.39 PPMV NATURAL GAS (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B59.1, D28.5
FURNACE, NO.25, FFB, NATURAL GAS, 5.9 MMBTU/HR A/N: 391606	D23		NOX: PROCESS UNIT**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 60 PPMV NATURAL GAS (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B59.1, D28.5

* (1) (1A) (1B) Denotes RECLAIM emission factor (2) (2A) (2B) Denotes RECLAIM emission rate
 (3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
 (5) (5A) (5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
 (7) Denotes NSR applicability limit (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 (9) See App B for Emission Limits (10) See section J for NESHAP/MACT requirements

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE SHULTZ STEEL CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1: FORGING OPERATION					
FURNACE, NO.FPM, NATURAL GAS, REGENERATIVE BURNERS, 8.2 MMBTU/HR MAXIMUM HEAT INPUT, WITH LOW NOX BURNER, 16.4 MMBTU/HR WITH A/N: 477521 BURNER, NATURAL GAS, ZEDTEC, MODEL HOTWORK EJ06, WITH LOW NOX BURNER, 2 TOTAL; 8.2 MMBTU/HR	D26		NOX: PROCESS UNIT**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 65 PPMV NATURAL GAS (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	A63.1, D12.1, D28.5, D323.1
FURNACE, NO. FPL, NATURAL GAS, REGENERATIVE BURNERS, 8.2 MMBTU/HR MAXIMUM HEAT INPUT, WITH LOW NOX BURNER, 8.2 MMBTU/HR WITH A/N: 433450 BURNER, NATURAL GAS, ZEDTEC, MODEL HOTWORK EJ06, WITH LOW NOX BURNER, 2 TOTAL; 8.2 MMBTU/HR	D27		NOX: PROCESS UNIT**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 130 LBS/MMSCF NATURAL GAS (1) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	A63.1, D12.1, D323.1
FURNACE, HEAT TREATING, NO.FHN, NATURAL GAS, 4.6 MMBTU/HR A/N: 477523	D28		NOX: PROCESS UNIT**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 65.6 PPMV NATURAL GAS (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B59.1, D12.1, D28.5, D323.1

- | | |
|---|---|
| <p>* (1) (1A) (1B) Denotes RECLAIM emission factor
 (3) Denotes RECLAIM concentration limit
 (5) (5A) (5B) Denotes command and control emission limit
 (7) Denotes NSR applicability limit
 (9) See App B for Emission Limits</p> | <p>(2) (2A) (2B) Denotes RECLAIM emission rate
 (4) Denotes BACT emission limit
 (6) Denotes air toxic control rule limit
 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 (10) See section J for NESHAP/MACT requirements</p> |
|---|---|

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE SHULTZ STEEL CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 1: FORGING OPERATION					
FURNACE, FORGE, ROTARY, FPK, NATURAL GAS, 8 MMBTU/HR WITH A/N: 468861 BURNER, NATURAL GAS, GDA ASSOCIATES, MODEL HV300 COLD AIR PULSED, 8 TOTAL; 1 MMBTU/HR	D42		NOX: PROCESS UNIT**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 50 PPMV NATURAL GAS (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B59.1, D28.5
FURNACE, FORGE, ROTARY, FNH, NATURAL GAS, 8 MMBTU/HR WITH A/N: 469865 BURNER, NATURAL GAS, GDA ASSOCIATES, MODEL HV300 COLD AIR PULSED, 8 TOTAL; 1 MMBTU/HR	D46		NOX: PROCESS UNIT**	CO: 2000 PPMV NATURAL GAS (5) [RULE 407, 4-2-1982]; NOX: 50 PPMV NATURAL GAS (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B59.1, D28.5

- * (1) (1A) (1B) Denotes RECLAIM emission factor
 - (3) Denotes RECLAIM concentration limit
 - (5) (5A) (5B) Denotes command and control emission limit
 - (7) Denotes NSR applicability limit
 - (9) See App B for Emission Limits
 - (2) (2A) (2B) Denotes RECLAIM emission rate
 - (4) Denotes BACT emission limit
 - (6) Denotes air toxic control rule limit
 - (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 - (10) See section J for NESHAP/MACT requirements
- ** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE SHULTZ STEEL CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1: FORGING OPERATION					
FURNACE, FORGE, FNE, NATURAL GAS, BOX TYPE, WITH LOW NOX BURNER, 15 MMBTU/HR WITH A/N: BURNER, NATURAL GAS, ECLIPSE, MODEL THERMJET 075, WITH LOW NOX BURNER, 20 TOTAL: 0.75 MMBTU/HR	D47		NOX: LARGE SOURCE**	CO: 2000 PPMV NATURAL GAS (5) [RULE 407, 4-2-1982]; NOX: 55 PPMV NATURAL GAS (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B59.1, C1.19, C1.20
FURNACE, FORGE, REISNER, NO. 23, AFA, NATURAL GAS, PRE HEATED AIR, 5.9 MMBTU/HR A/N:	D49		NOX: PROCESS UNIT**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 87 PPMV NATURAL GAS (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B59.1, C1.19, D28.5
FURNACE, HEAT TREATING, RHA, WITH TWO ECS, MODELO. HV 400 AND TWO ECS, MODEL NO. HV 600 BURNERS, NATURAL GAS, 12 MMBTU/HR A/N: 459752	D51		NOX: LARGE SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 45 PPMV NATURAL GAS (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B59.1

- * (1) (1A) (1B) Denotes RECLAIM emission factor
 - (3) Denotes RECLAIM concentration limit
 - (5) (5A) (5B) Denotes command and control emission limit
 - (7) Denotes NSR applicability limit
 - (9) See App B for Emission Limits
 - (2) (2A) (2B) Denotes RECLAIM emission rate
 - (4) Denotes BACT emission limit
 - (6) Denotes air toxic control rule limit
 - (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 - (10) See section J for NESHAP/MACT requirements
- ** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE SHULTZ STEEL CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1: FORGING OPERATION					
FURNACE, FORGE, FXR, ROTARY HEARTH TYPE, THORPE TECHNOLOGIES INC., NATURAL GAS, WITH LOW NOX BURNER, 32 MMBTU/HR A/N:	D73		NOX: LARGE SOURCE**	CO: 2000 PPMV NATURAL GAS (5) [RULE 407, 4-2-1982]; NOX: 34.1 PPMM NATURAL GAS (3) [RULE 2012, 5-6-2005]; NOX: 60 PPMV NATURAL GAS (4) [RULE 2005, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF NATURAL GAS (5) [RULE 409, 8-7-1981]	B59.1, C1.19
FURNACE, NO.20N, FUH, NATURAL GAS, WITH LOW NOX BURNER, 6 MMBTU/HR WITH A/N: 420800 BURNER, NATURAL GAS, ZEDTEC, MODEL HV-400, WITH LOW NOX BURNER, 2 TOTAL; 2 MMBTU/HR BURNER, NATURAL GAS, ZEDTEC, MODEL HV-300, WITH LOW NOX BURNER, 2 TOTAL; 1 MMBTU/HR	D76		NOX: PROCESS UNIT**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 50 PPMV NATURAL GAS (4) [RULE 2005, 5-6-2005]; NOX: 50 PPMV NATURAL GAS (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B59.1, C1.3, D12.1, D28.5

* (1) (1A) (1B) Denotes RECLAIM emission factor
 (2) (2A) (2B) Denotes RECLAIM emission rate
 (3) Denotes RECLAIM concentration limit
 (4) Denotes BACT emission limit
 (5) (5A) (5B) Denotes command and control emission limit
 (6) Denotes air toxic control rule limit
 (7) Denotes NSR applicability limit
 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 (9) See App B for Emission Limits
 (10) See section J for NESHAP/MACT requirements

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE SHULTZ STEEL CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1: FORGING OPERATION					
FURNACE, RHC, NATURAL GAS, WITH LOW NOX BURNER, 8 MMBTU/HR A/N:	D99		NOX: PROCESS UNIT**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 44 PPMV NATURAL GAS (3) [RULE 2012, 5-6-2005]; NOX: 50 PPMV NATURAL GAS (4) [RULE 2005, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B59.1, C1.19, D28.5, E71.2
Process 2: ABRASIVE BLASTING					
ABRASIVE BLASTING, MACHINE, CGR A/N: 348079	D30	C58 C59		PM: (9) [RULE 1140, 8-2-1985; RULE 405, 2-7-1986]	D323.2
ABRASIVE BLASTING, MACHINE, CBI A/N: 447950	D32	C103 C104		PM: (9) [RULE 1140, 8-2-1985; RULE 405, 2-7-1986]	C1.17, D323.2
ABRASIVE BLASTING, MACHINE, NO. B, CGQ, PANGBORN, MODEL ROTOBlast 12LK-1, STEEL GRIT, HEIGHT: 6 FT ; DIAMETER: 12 FT A/N: 351261	D44	C58 C59		PM: (9) [RULE 1140, 8-2-1985; RULE 405, 2-7-1986]	D323.2
ABRASIVE BLASTING, ENCLOSED, CG7, PANGBORN, MODEL NO. A, ROTOBlast 12LK-1, STEEL GRIT, WITH THREE WHEELS, EACH 25 HP, HEIGHT: 6 FT ; DIAMETER: 12 FT A/N: 447948	D87	C58 C59		PM: (9) [RULE 1140, 8-2-1985; RULE 405, 2-7-1986]	A433.1, C1.15, D323.2, E190.1
BAGHOUSE, WHEELABRATOR, MODEL 144 TA-SB, PULSE JET CLEANED. 4230 SQ.FT.; 225 BAGS A/N: 447954	C53	D95 D96		PM: (9) [RULE 404, 2-7-1986]	C6.1, D322.1, D381.1, E102.1, K67.1

- * (1) (1A) (1B) Denotes RECLAIM emission factor
- (3) Denotes RECLAIM concentration limit
- (5) (5A) (5B) Denotes command and control emission limit
- (7) Denotes NSR applicability limit
- (9) See App B for Emission Limits
- (2) (2A) (2B) Denotes RECLAIM emission rate
- (4) Denotes BACT emission limit
- (6) Denotes air toxic control rule limit
- (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
- (10) See section J for NESHAP/MACT requirements

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE SHULTZ STEEL CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 2: ABRASIVE BLASTING					
ABRASIVE BLASTING, ROOM, CGN, 1 TOTAL; WIDTH: 32 FT; HEIGHT: 10 FT; LENGTH: 8 FT A/N: 348486	D60	C58 C59		PM: (9) [RULE 1140, 2-1-1980; RULE 1140, 8-2-1985; RULE 405, 2-7-1986]	B59.2, D323.2, E17.2
ABRASIVE BLASTING, ROOM, CB2, 1 TOTAL; WIDTH: 32 FT; HEIGHT: 10 FT; LENGTH: 8 FT A/N: 348487	D63	C58 C59		PM: (9) [RULE 1140, 2-1-1980; RULE 1140, 8-2-1985; RULE 405, 2-7-1986]	B59.2, D323.2, E17.2
BAGHOUSE, NO. 5, CLOTH FILTER, TORIT, MODEL 484-RF-8, WITH 5034 SQ. FT., 484 BAGS, REVERSE AIR CLEANING, AND A GOYEN MODEL BBD5 BAG LEAK DETECTION SYSTEM A/N: 510607	C58	D30 D44 D60 D63 D87 D90 D101 D102		PM: (9) [RULE 1140, 2-1-1980; RULE 1140, 8-2-1985; RULE 405, 2-7-1986]	A72.1, C6.1, D322.1, D381.1, E102.1, E193.1, H23.2, K67.1
BAGHOUSE, NO. 6, CLOTH FILTER, TORIT, MODEL 484-RF-8, WITH 5034 SQ. FT., 484 BAGS, REVERSE AIR CLEANING, AND A GOYEN MODEL BBD5 BAG LEAK DETECTION SYSTEM A/N: 510608	C59	D30 D44 D60 D63 D87 D90 D101 D102		PM: (9) [RULE 1140, 2-1-1980; RULE 1140, 8-2-1985; RULE 405, 2-7-1986]	A72.1, C6.1, D322.1, D381.1, E102.1, E193.1, H23.2, K67.1
ABRASIVE BLASTING, ENCLOSED, RBR, WHEELABRATOR, WITH TWO TABLES AND TWO WHEELS, EACH 30 HP A/N: 447946	D90	C58 C59		PM: (9) [RULE 1140, 2-1-1980; RULE 1140, 8-2-1985; RULE 405, 2-7-1986]	A433.1, C1.13, D323.2, E190.1

- * (1) (1A) (1B) Denotes RECLAIM emission factor
- (3) Denotes RECLAIM concentration limit
- (5) (5A) (5B) Denotes command and control emission limit
- (7) Denotes NSR applicability limit
- (9) See App B for Emission Limits
- (2) (2A) (2B) Denotes RECLAIM emission rate
- (4) Denotes BACT emission limit
- (6) Denotes air toxic control rule limit
- (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
- (10) See section J for NESHAP/MACT requirements

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE SHULTZ STEEL CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 2: ABRASIVE BLASTING					
ABRASIVE BLASTING, ROOM, RNB, GLASS BEAD ABRASIVE WITH A/N: 412819 ABRASIVE BLASTING NOZZLE, GLASS BEAD ABRASIVE, 1 TOTAL; DIAMETER: .19 IN; 60 PSIA	D95	C53		PM: (9) [RULE 1140, 2-1-1980; RULE 1140, 8-2-1985; RULE 405, 2-7-1986]	A433.1, C1.8, D323.2, E190.1
ABRASIVE BLASTING, ROOM, RNA, STEEL SHOT WITH A/N: 412820 ABRASIVE BLASTING NOZZLE, STEEL SHOT, 1 TOTAL; DIAMETER: .19 IN; 60 PSIA	D96	C53		PM: (9) [RULE 1140, 2-1-1980; RULE 1140, 8-2-1985; RULE 405, 2-7-1986]	A433.1, C1.9, D323.2, E190.1
ABRASIVE BLASTING, ENCLOSED, CGL, PANGBORN ROTOBLAST, WITH ONE 5 HP WHEEL, STEEL GRIT, DRUM TYPE A/N: 447947	D101	C58 C59		PM: (9) [RULE 1140, 2-1-1980; RULE 1140, 8-2-1985; RULE 405, 2-7-1986]	D323.2
ABRASIVE BLASTING, CABINET, CB3, PANGBORN, MODEL 4/140DD, STEEL GRIT, WITH FOUR IMPELLERS, 25 HP EACH A/N: 447949	D102	C58 C59		PM: (9) [RULE 1140, 2-1-1980; RULE 1140, 8-2-1985; RULE 405, 2-7-1986]	A433.1, C1.16, D323.2, E190.1
BAGHOUSE, CLOTH FILTER, TORIT, MODEL 484-RF-8, WITH 5034 SQ. FT., 484 BAGS, REVERSE AIR CLEANING, AND A GOYEN MODEL BBD5 BAG LEAK DETECTION SYSTEM A/N: 510609	C103	D32		PM: (9) [RULE 1140, 2-1-1980; RULE 1140, 8-2-1985; RULE 405, 2-7-1986]	C6.1, D322.1, D381.1, E102.1, E193.1, H23.2, K67.1

- * (1) (1A) (1B) Denotes RECLAIM emission factor (2) (2A) (2B) Denotes RECLAIM emission rate
 (3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
 (5) (5A) (5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
 (7) Denotes NSR applicability limit (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 (9) See App B for Emission Limits (10) See section J for NESHAP/MACT requirements

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE SHULTZ STEEL CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 2: ABRASIVE BLASTING					
BAGHOUSE, CLOTH FILTER, TORIT, MODEL 484-RF-8, WITH 5034 SQ. FT., 484 BAGS, REVERSE AIR CLEANING, AND A GOYEN MODEL BBD5 BAG LEAK DETECTION SYSTEM A/N: 510610	C104	D32		PM: (9)	C6.1, D322.1, D381.1, E102.1, E193.1, H23.2, K67.1
ABRASIVE BLASTING, MACHINE, RVP, CRUCIBLE LANCE BLASTER, STEEL GRIT, PANGBORN ROTOBLAST WITH A/N: 476975 ABRASIVE BLASTING NOZZLE, 2 TOTAL; DIAMETER: .38 IN; 80 PSIG	D111	C113		PM: (9) [RULE 1140, 2-1-1980; RULE 1140. 8-2-1985; RULE 405, 2-7-1986]	D323.2
BAGHOUSE, RVD, PANGBORN, MODEL PC 02-04, PULSE JET CLEANED, 760 SQ.FT.; 4 CARTRIDGE A/N: 476978	C113	D111		PM: (9) [RULE 404, 2-7-1986]	C6.1, D322.1, D381.1, E102.1, K67.1
FILTER, HEPA, WITH TWO HIGH EFFICIENCY PARTICULATE AIR FILTERS A/N: 476978	C114			PM: (9) [RULE 404, 2-7-1986]	C10.1, D322.1, D381.1, K67.1
Process 4: R-219 EXEMPT EQUIPMENT SUBJECT TO SOURCE SPECIFIC RULES					
RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, PORTABLE, ARCHITECTURAL COATINGS	E43			ROG: (9) [RULE 1113, 11-8-1996; RULE 1113. 7-13-2007; RULE 1171, 11-7-2003; RULE 1171. 5-1-2009]	K67.2
Process 5: EMERGENCY INTERNAL COMBUSTION ENGINE OPERATION					
System 1:					

- * (1) (1A) (1B) Denotes RECLAIM emission factor
- (2) (2A) (2B) Denotes RECLAIM emission rate
- (3) Denotes RECLAIM concentration limit
- (4) Denotes BACT emission limit
- (5) (5A) (5B) Denotes command and control emission limit
- (6) Denotes air toxic control rule limit
- (7) Denotes NSR applicability limit
- (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
- (9) See App B for Emission Limits
- (10) See section J for NESHAP/MACT requirements

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE SHULTZ STEEL CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 5: EMERGENCY INTERNAL COMBUSTION ENGINE OPERATION					
INTERNAL COMBUSTION ENGINE, EMERGENCY POWER, SERIAL NO. 11819079, DIESEL FUEL, CUMMINS, MODEL CPL-1921, WITH AFTERCOOLER, TURBOCHARGER, 460 BHP A/N: 383641	D75		NOX: PROCESS UNIT**	NOX: 6.9 GRAM/BHP-HR DIESEL (4); NOX: 469 LBS/1000 GAL DIESEL (1) [RULE 2012, 12-7-1995; RULE 2012, 3-16-2001]; PM: (9) [RULE 404, 2-7-1986]	B61.1, C1.1, C1.2, E114.1, K67.3
INTERNAL COMBUSTION ENGINE, EMERGENCY POWER, RICH BURN, NATURAL GAS, GENERAC, MODEL 6.8GLPN-70, WITH A 3-WAY CATALYTIC CONVERTER, 110.7 BHP A/N: 383641	D130		NOX: PROCESS UNIT**	CO: 2 GRAM/BHP-HR NATURAL GAS (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]; NOX: 1.5 GRAM/BHP-HR NATURAL GAS (4) [RULE 2005, 5-6-2005]; NOX: 1.5 GRAM/BHP-HR NATURAL GAS (3) [RULE 2012, 5-6-2005]; ROG: 1.5 GRAM/BHP-HR NATURAL GAS (4) [RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]	D12.4, E115.1, E448.3, I296.1, K67.3
Process 6: METAL CUTTING OPERATION					
PLASMA ARC CUTTER, HYPER THERM, MODEL PAC-500, WITH WATER TABLE AND NOZZLE SHROUD 64 KVA A/N: 405720	D80			PM: (9) [RULE 405, 2-7-1986]	D323.1, E448.1

- * (1) (1A) (1B) Denotes RECLAIM emission factor
- (3) Denotes RECLAIM concentration limit
- (5) (5A) (5B) Denotes command and control emission limit
- (7) Denotes NSR applicability limit
- (9) See App B for Emission Limits
- (2) (2A) (2B) Denotes RECLAIM emission rate
- (4) Denotes BACT emission limit
- (6) Denotes air toxic control rule limit
- (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
- (10) See section J for NESHAP/MACT requirements

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

**FACILITY PERMIT TO OPERATE
SHULTZ STEEL CO**

SECTION D: DEVICE ID INDEX

**The following sub-section provides an index
to the devices that make up the facility
description sorted by device ID.**

**FACILITY PERMIT TO OPERATE
 SHULTZ STEEL CO
 SECTION D: DEVICE ID INDEX**

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D3	1	1	0
D4	1	1	0
D5	1	1	0
D8	2	1	0
D9	2	1	0
D10	2	1	0
D11	3	1	0
D12	3	1	0
D13	3	1	0
D14	3	1	0
D15	4	1	0
D17	4	1	0
D18	4	1	0
D19	5	1	0
D21	5	1	0
D22	5	1	0
D23	5	1	0
D26	6	1	0
D27	6	1	0
D28	6	1	0
D30	10	2	0
D32	10	2	0
D42	7	1	0
E43	13	4	0
D44	10	2	0
D46	7	1	0
D47	8	1	0
D49	8	1	0
D51	8	1	0
C53	10	2	0
C58	11	2	0
C59	11	2	0
D60	11	2	0
D63	11	2	0
D73	9	1	0

**FACILITY PERMIT TO OPERATE
SHULTZ STEEL CO
SECTION D: DEVICE ID INDEX**

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D75	14	5	1
D76	9	1	0
D80	14	6	0
D87	10	2	0
D90	11	2	0
D95	12	2	0
D96	12	2	0
D99	10	1	0
D101	12	2	0
D102	12	2	0
C103	12	2	0
C104	13	2	0
D111	13	2	0
C113	13	2	0
C114	13	2	0
D130	14	5	1

FACILITY PERMIT TO OPERATE SHULTZ STEEL CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

FACILITY CONDITIONS

F9.1 Except for open abrasive blasting operations, the operator shall not discharge into the atmosphere from any single source of emissions whatsoever any air contaminant for a period or periods aggregating more than three minutes in any one hour which is:

(a) As dark or darker in shade as that designated No.1 on the Ringelmann Chart, as published by the United States Bureau of Mines; or

(b) Of such opacity as to obscure an observer's view to a degree equal to or greater than does smoke described in subparagraph (a) of this condition.

[RULE 401, 3-2-1984; RULE 401, 11-9-2001]

F14.1 The operator shall not use diesel fuel containing sulfur compounds in excess of 500 ppm by weight.

[RULE 431.2, 5-4-1990; RULE 431.2, 9-15-2000]

F14.2 The operator shall not purchase diesel fuel containing sulfur compounds in excess of 15 ppm by weight as supplied by the supplier.

[RULE 431.2, 9-15-2000]

DEVICE CONDITIONS

A. Emission Limits

A63.1 The operator shall limit emissions from this equipment as follows:

FACILITY PERMIT TO OPERATE SHULTZ STEEL CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

CONTAMINANT	EMISSIONS LIMIT
ROG	Less than or equal to 1 LBS IN ANY ONE DAY
CO	Less than or equal to 2 LBS IN ANY ONE DAY
PM	Less than or equal to 1 LBS IN ANY ONE DAY

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D26, D27]

A72.1 The operator shall maintain this equipment to achieve a minimum removal efficiency of 99.85 percent for PM during the normal operation of the equipment it vents.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : C58, C59]

A433.1 The operator shall not use any materials containing compounds identified in District Rule 1401 as ammended 3/4/05, with the following exceptions:

Compound	Emission Limit (Units)
Manganese	10 wt %
Copper	70 wt %
Lead	10 wt %
Beryllium	0.007 wt %
Vanadium	15 wt %
Ni	0.612 lbs/yr

FACILITY PERMIT TO OPERATE SHULTZ STEEL CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

[RULE 1401, 3-4-2005]

[Devices subject to this condition : D87, D90, D95, D96, D102]

B. Material/Fuel Type Limits

B59.1 The operator shall not use the following material(s) in this device :

Metal contaminated with rubber, plastic, paper, rags, oil, grease

Smoke producing material

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 401, 3-2-1984; RULE 401, 11-9-2001]

[Devices subject to this condition : D3, D4, D5, D8, D9, D10, D11, D12, D13, D14, D15, D17, D18, D19, D21, D22, D23, D28, D42, D46, D47, D49, D51, D73, D76, D99]

B59.2 The operator shall not use the following material(s) in this device :

Abrasive blasting sand

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D60, D63]

B61.1 The operator shall not use diesel fuel containing the following specified compounds:

Compound	weight percent

FACILITY PERMIT TO OPERATE SHULTZ STEEL CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Sulfur greater than | 0.05

[RULE 431.2, 5-4-1990; RULE 431.2, 9-15-2000]

[Devices subject to this condition : D75]

C. Throughput or Operating Parameter Limits

C1.1 The operator shall limit the operating time to no more than 199 in any 12-month period.

To comply with this condition, the operator shall install and maintain a(n) timer to accurately indicate the elapsed operating time of the engine.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

The operator shall maintain an engine operating log listing the date of operation, reason for operation, the fuel consumption, in gallons, and engine operating time, in hours. The log shall be maintained on file for a minimum of five years and shall be made available to AQMD personnel upon request.

[RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996]

[Devices subject to this condition : D75]

C1.2 The operator shall limit the maintenance testing to no more than 50 hour(s) in any one year.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

[RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996]

FACILITY PERMIT TO OPERATE SHULTZ STEEL CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

[Devices subject to this condition : D75]

- C1.3 The operator shall limit the natural gas fuel usage to no more than 1.68 MM cubic feet in any one calendar month.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D76]

- C1.6 The operator shall limit the fuel usage to no more than 4.9 MM cubic feet per month.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D5]

- C1.8 The operator shall limit the operating time to no more than 300 hour(s) in any one month.

To comply with this condition, the operator shall install and maintain a(n) non-resettable elapsed time meter to accurately indicate the elapsed operating time of the equipment.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D95]

- C1.9 The operator shall limit the operating time to no more than 600 hour(s) in any one month.

To comply with this condition, the operator shall install and maintain a(n) non-resettable elapsed time meter to accurately indicate the elapsed operating time of the equipment.

FACILITY PERMIT TO OPERATE SHULTZ STEEL CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D96]

- C1.12 The operator shall limit the natural gas fuel usage to no more than 2.057 MM cubic feet in any one calendar month.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D15]

- C1.13 The operator shall limit the operating time to no more than 555 hour(s) in any one month.

To comply with this condition, the operator shall install and maintain a(n) non-resettable elapsed time meter to accurately indicate the elapsed operating time of the equipment.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D90]

- C1.15 The operator shall limit the operating time to no more than 444 hour(s) in any one month.

To comply with this condition, the operator shall install and maintain a(n) non-resettable elapsed time meter to accurately indicate the elapsed operating time of the equipment.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D87]

FACILITY PERMIT TO OPERATE SHULTZ STEEL CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

C1.16 The operator shall limit the operating time to no more than 333 hour(s) in any one month.

To comply with this condition, the operator shall install and maintain a(n) non-resettable elapsed time meter to accurately indicate the elapsed operating time of the equipment.

[**RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]**

[Devices subject to this condition : D102]

C1.17 The operator shall limit the operating time to no more than 480 hour(s) in any one month.

To comply with this condition, the operator shall install and maintain a(n) non-resettable elapsed time meter to accurately indicate the elapsed operating time of the equipment.

[**RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]**

[Devices subject to this condition : D32]

C1.18 The operator shall limit the natural gas fuel usage to no more than 1.67 MM cubic feet in any one calendar month.

To comply with this condition, the operator shall install and maintain a(n) non-resettable totalizing fuel meter to accurately indicate the fuel usage in the furnace.

The operator shall maintain records in a manner approved by the District, to demonstrate compliance with this condition.

[**RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]**

FACILITY PERMIT TO OPERATE SHULTZ STEEL CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

[Devices subject to this condition : D13]

- C1.19 The operator shall limit the natural gas fuel usage to no more than 24 MM cubic feet in any one calendar month.

this limit is based on the combined natural gas usage of the heat treating furnaces under devices D14, D47, D49, D73, D99, D126 and D128.

[**RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002**]

[Devices subject to this condition : D14, D47, D49, D73, D99]

- C1.20 The operator shall limit the natural gas fuel usage to no more than 4.457 MM cubic feet in any one calendar month.

[**RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002**]

[Devices subject to this condition : D47]

- C6.1 The operator shall use this equipment in such a manner that the differential pressure being monitored, as indicated below, does not exceed 6 inches water column.

To comply with this condition, the operator shall install and maintain a(n) differential pressure gauge to accurately indicate the differential pressure across the bags.

The operator shall record the parameter being monitored once every month.

[**RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002**]

[Devices subject to this condition : C53, C58, C59, C103, C104, C113]

- C10.1 The operator shall use this equipment in such a manner that the differential pressure being monitored, as indicated below, is maintained between 0.5 and 3 inches water column.

FACILITY PERMIT TO OPERATE SHULTZ STEEL CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

To comply with this condition, the operator shall install and maintain a(n) differential pressure gauge to accurately indicate the differential pressure across the filter.

The operator shall determine and record the differential pressure across the filter once a week.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]

[Devices subject to this condition : C114]

C19.1 The operator shall maintain Furnace Temperature and Preheat Temperature in accordance with the following relationship:

Furnace Temperature	Deg F	Preheat Temperature	Deg F
Less than or equal to	2000	Less than or equal to	1227
Less than or equal to	2050	Less than or equal to	963
Less than or equal to	2100	Less than or equal to	720
Less than or equal to	2150	Less than or equal to	522
Less than or equal to	2200	Less than or equal to	353
Less than or equal to	2250	Less than or equal to	249
Less than or equal to	2300	Less than or equal to	186
Less than or equal to	2350	Less than or equal to	113

FACILITY PERMIT TO OPERATE SHULTZ STEEL CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

[RULE 2005, 5-6-2005]

[Devices subject to this condition : D5]

D. Monitoring/Testing Requirements

D12.1 The operator shall install and maintain a(n) non-resettable totalizing fuel meter to accurately indicate the fuel usage in the furnace.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D12, D26, D27, D28, D76]

D12.2 The operator shall install and maintain a(n) temperature reading device to accurately indicate the temperature of the furnace.

The operator shall also install and maintain a device to continuously record the parameter being measured.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]

[Devices subject to this condition : D3, D5]

D12.3 The operator shall install and maintain a(n) temperature reading device to accurately indicate the temperature of the combustion air (Preheat temperature).

The operator shall also install and maintain a device to continuously record the parameter being measured.

[RULE 2005, 5-6-2005]

FACILITY PERMIT TO OPERATE SHULTZ STEEL CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

[Devices subject to this condition : D5]

- D12.4 The operator shall install and maintain a(n) non-resettable elapsed time meter to accurately indicate the elapsed operating time of the engine.

[RULE 1110.2, 7-9-2010; **RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996;**
RULE 1470, 6-1-2007]

[Devices subject to this condition : D130]

- D28.5 The operator shall conduct source test(s) in accordance with the following specifications:

The test shall be conducted every five -year period with the first period ending on December 31, 2009.

The test shall be conducted within 12 months of the approval of concentration limit.

The test shall be conducted to determine the NOx emissions at the outlet.

[**RULE 2012, 5-6-2005**]

[Devices subject to this condition : D3, D4, D12, D13, D14, D15, D22, D23, D26, D28, D42, D46, D49, D76, D99]

- D322.1 The operator shall perform annual inspection of the equipment and filter media for leaks, broken or torn filter media, and improperly installed filter media.

[**RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997**]

[Devices subject to this condition : C53, C58, C59, C103, C104, C113, C114]

FACILITY PERMIT TO OPERATE SHULTZ STEEL CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

D323.1 The operator shall conduct an inspection for visible emissions from all stacks and other emission points of this equipment whenever there is a public complaint of visible emissions, whenever visible emissions are observed, and on a semi-annual basis, at least, unless the equipment did not operate during the entire semi-annual period. The routine semi-annual inspection shall be conducted while the equipment is in operation and during daylight hours.

If any visible emissions (not including condensed water vapor) are detected that last more than three minutes in any one hour, the operator shall verify and certify within 24 hours that the equipment causing the emission and any associated air pollution control equipment are operating normally according to their design and standard procedures and under the same conditions under which compliance was achieved in the past, and either:

- 1). Take corrective action(s) that eliminates the visible emissions within 24 hours and report the visible emissions as a potential deviation in accordance with the reporting requirements in Section K of this permit; or
- 2). Have a CARB-certified smoke reader determine compliance with the opacity standard, using EPA Method 9 or the procedures in the CARB manual "Visible Emission Evaluation", within three business days and report any deviations to AQMD.

The operator shall keep the records in accordance with the recordkeeping requirements in Section K of this permit and the following records:

- 1). Stack or emission point identification;
- 2). Description of any corrective actions taken to abate visible emissions;
- 3). Date and time visible emission was abated; and
- 4). All visible emission observation records by operator or a certified smoke reader.

FACILITY PERMIT TO OPERATE SHULTZ STEEL CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : D12, D26, D27, D28, D80]

FACILITY PERMIT TO OPERATE SHULTZ STEEL CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

D323.2 The operator shall conduct an inspection for visible emissions from all stacks and other emission points of this equipment whenever there is a public complaint of visible emissions, whenever visible emissions are observed, and on an annual basis, at least, unless the equipment did not operate during the entire annual period. The routine annual inspection shall be conducted while the equipment is in operation and during daylight hours.

If any visible emissions (not including condensed water vapor) are detected that last more than three minutes in any one hour, the operator shall verify and certify within 24 hours that the equipment causing the emission and any associated air pollution control equipment are operating normally according to their design and standard procedures and under the same conditions under which compliance was achieved in the past, and either:

- 1). Take corrective action(s) that eliminates the visible emissions within 24 hours and report the visible emissions as a potential deviation in accordance with the reporting requirements in Section K of this permit; or
- 2). Have a CARB-certified smoke reader determine compliance with the opacity standard, using EPA Method 9 or the procedures in the CARB manual "Visible Emission Evaluation", within three business days and report any deviations to AQMD.

The operator shall keep the records in accordance with the recordkeeping requirements in Section K of this permit and the following records:

- 1). Stack or emission point identification;
- 2). Description of any corrective actions taken to abate visible emissions;
- 3). Date and time visible emission was abated; and
- 4). All visible emission observation records by operator or a certified smoke reader.

FACILITY PERMIT TO OPERATE SHULTZ STEEL CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : D30, D32, D44, D60, D63, D87, D90, D95, D96, D101, D102, D111]

D381.1 The operator shall conduct an inspection for visible emissions from all stacks and other emission points of this equipment whenever there is a public complaint of visible emissions, whenever visible emissions are observed, and on a quarterly basis, at least, unless the equipment did not operate during the entire quarterly period. The routine quarterly inspection shall be conducted while the equipment is in operation and during daylight hours. If any visible emissions (not including condensed water vapor) are detected, the operator shall take corrective action(s) that eliminates the visible emissions within 24 hours and report the visible emissions as a potential deviation in accordance with the reporting requirements in Section K of this permit.

The operator shall keep the records in accordance with the recordkeeping requirements in Section K of this permit and the following records:

- 1). Stack or emission point identification;
- 2). Description of any corrective actions taken to abate visible emissions; and
- 3). Date and time visible emission was abated.

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : C53, C58, C59, C103, C104, C113, C114]

E. Equipment Operation/Construction Requirements

E17.2 The operator shall not use more than 1 of the following items simultaneously:

FACILITY PERMIT TO OPERATE SHULTZ STEEL CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Device ID: D61 [ABRASIVE BLASTING NOZZLE]

Device ID: D62 [ABRASIVE BLASTING NOZZLE]

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D60, D63]

E71.1 The operator shall only operate this equipment if the furnace temperature does not exceed 2350 F.

[RULE 2005, 5-6-2005]

[Devices subject to this condition : D5]

E71.2 The operator shall only operate this equipment if the furnace temperature does not exceed 2000 F.

[RULE 2005, 5-6-2005]

[Devices subject to this condition : D99]

E102.1 The operator shall discharge dust collected in this equipment only into closed containers.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 401, 3-2-1984; RULE 401, 11-9-2001]

[Devices subject to this condition : C53, C58, C59, C103, C104, C113]

E114.1 The operator shall not use this equipment in conjunction with any utility voluntary demand reduction program.

FACILITY PERMIT TO OPERATE SHULTZ STEEL CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

[RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996]

[Devices subject to this condition : D75]

- E115.1 The operator shall maintain an automatic air-to-fuel ratio controller so as to regulate the air-to-fuel ratio within tolerance limits as recommended by the catalyst supplier or manufacturer.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 2005, 5-6-2005]

[Devices subject to this condition : D130]

- E190.1 The operator shall maintain a minimum stack height of 25 feet.

[RULE 1401, 3-4-2005]

[Devices subject to this condition : D87, D90, D95, D96, D102]

- E193.1 The operator shall operate and maintain this equipment according to the following requirements:

FACILITY PERMIT TO OPERATE SHULTZ STEEL CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

The baghouse pressure differential across the filter bags shall be maintained between 1" and 6" of water column whenever the equipment it serves is in operation.

The operator shall operate and maintain a pressure differential gauge to measure and indicate the pressure differential across the baghouse filter bags pursuant to the operation and maintenance requirements in 40 CFR Part 64.7. The pressure differential across the filters shall be recorded at least once a day.

For the purpose of this condition, a deviation shall be defined as when the pressure differential across the filters is less than 1" of water column or more than 6" of water column occurs during the normal operation of the equipment it serves.

Whenever a deviation occurs, the operator shall inspect this equipment to identify the cause of such a deviation, take immediate corrective action to maintain the pressure differential across the filters between 1" and 6" of water column, and keep records of the duration and cause (including unknown cause, if applicable) of the deviation and the corrective actions taken.

All deviations shall be reported to the AQMD on a semi-annual basis pursuant to the requirements specified in 40 CFR Part 64.9 and Condition Nos. 22 and 23 in Section K of this permit. The semi-annual monitoring report shall include the total operating time of this equipment and the total accumulated duration of all deviations for each semi-annual reporting period specified in Condition No. 23 in Section K of this permit.

The operator shall submit an application with an Quality Improvement Plan (QIP) in accordance with 40 CFR Part 64.8 to the AQMD if more than six deviations occur in any semi-annual reporting period specified in Condition No. 23 in Section K of this permit. The required QIP shall be submitted to the AQMD within 90 calendar days after the due date for the semi-annual monitoring report.

The operator shall inspect and maintain all components of this equipment on an annual basis in accordance with the manufacturer's specifications.

The operator shall keep adequate records in a format that is acceptable to the AQMD

FACILITY PERMIT TO OPERATE SHULTZ STEEL CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

to demonstrate compliance with all applicable requirements specified in this condition and 40 CFR Part 64.9 for a minimum of five years.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; 40CFR Part 64, 10-22-1997]

[Devices subject to this condition : C58, C59, C103, C104]

E448.1 The operator shall comply with the following requirements:

The total weight of chromium in the metal melted or cut shall not exceed 205 pounds in any year.

The total weight of nickel in the metal melted or cut shall not exceed 128 pounds in any year.

The operator shall maintain records in a manner approved by the District to demonstrate compliance with this condition.

[RULE 1401, 5-3-2002]

[Devices subject to this condition : D80]

E448.3 The operator shall comply with the following requirements:

FACILITY PERMIT TO OPERATE SHULTZ STEEL CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

The engine shall not be operated more than 200 hours in any one year, which includes no more than 50 hours in any one year and 4.17 hours in any one month for maintenance and testing.

Operation beyond the 50 hours per year allotted for engine maintenance and testing shall be allowed only in the event of a loss of grid power or up to 30 minutes prior to a rotating outage, provided that the utility distribution company has ordered rotating outages in the control area where the engine is located or has indicated that it expects to issue such an order at a certain time, and the engine is located in a utility service block that is subject to the rotating outage.

Engine operation shall be terminated immediately after the utility distribution company advises that a rotating outage is no longer imminent or in effect.

This engine shall not be used as part of an interruptible service contract in which a facility receives a payment or reduced rates in return for reducing electric load on the grid when requested to so by the utility or the grid operator.

[RULE 1110.2, 7-9-2010; **RULE 1303(a)(1)-BACT, 5-10-1996**; RULE 1303(a)(1)-BACT, 12-6-2002; **RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996**; **RULE 2005, 5-6-2005**]

[Devices subject to this condition : D130]

H. Applicable Rules

H23.2 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
PM	District Rule	1155

FACILITY PERMIT TO OPERATE SHULTZ STEEL CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

[RULE 1155, 12-4-2009]

[Devices subject to this condition : C58, C59, C103, C104]

I. Administrative

1296.1 This equipment shall not be operated unless the operator demonstrates to the Executive Officer that the facility holds sufficient RTCs to offset the annual emissions increase for the first 12 months of operation. In addition, this equipment shall not be operated unless the operator demonstrates to the Executive Officer that, at the commencement of each compliance year after the start of operation, the facility holds sufficient RTCs in an amount equal to the annual emissions increase.

For the purposes of this condition, the annual emission increase is 73 lbs. of NO_x

RTCs held for the purpose of demonstrating compliance with this condition either at the commencement of initial operation or of a compliance year may be sold only after 12 months of start of initial operation or after the fourth quarter of the applicable compliance year, respectively.

To comply with this condition, the operator shall, prior to each compliance year hold a minimum NO_x RTCs of 73 lbs.

In accordance with Rule 2005(f), unused RTCs may be sold only during the reconciliation period for the fourth quarter of the applicable compliance year inclusive of the 1st compliance year.

[RULE 2005, 5-6-2005]

[Devices subject to this condition : D130]

K. Record Keeping/Reporting

FACILITY PERMIT TO OPERATE SHULTZ STEEL CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

K67.1 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

The name of the person performing the inspection and/or maintenance of the filter media

The date, time and results of the inspection

The date, time and description of any maintenance or repairs resulting from the inspection

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : C53, C58, C59, C103, C104, C113, C114]

K67.2 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

For architectural applications where no thinners, reducers, or other VOC containing materials are added, maintain semi-annual records for all coating consisting of (a) coating type, (b) VOC content as supplied in grams per liter (g/l) of materials for low-solids coatings, (c) VOC content as supplied in g/l of coating, less water and exempt solvent, for other coatings.

For architectural applications where thinners, reducers, or other VOC containing materials are added, maintain daily records for each coating consisting of (a) coating type, (b) VOC content as applied in grams per liter (g/l) of materials used for low-solids coatings, (c) VOC content as applied in g/l of coating, less water and exempt solvent, for other coatings.

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : E43]

FACILITY PERMIT TO OPERATE SHULTZ STEEL CO

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

K67.3 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

The engine operating log shall be kept and maintained on file to record when the engine is started manually. The log shall list the date of operation, the timer reading in hours at the beginning and end of operation, and the reason for operation.

By January 15th of each year, the operator shall total and record the total hours of operation (including hours for both manual and automatic operation) for the previous calendar year.

All records required by this permit shall be kept in a format that is acceptable to the District, shall be retained on the premises for at least five years, and shall be made available to any District representative upon request.

[RULE 1110.2, 7-9-2010; **RULE 1304(a)-Modeling and Offset Exemption, 6-14-1996;**
RULE 1470, 6-1-2007]

[Devices subject to this condition : D75, D130]

FACILITY PERMIT TO OPERATE SHULTZ STEEL CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 1: FORGING OPERATION					
FURNACE, NO.FDR, NATURAL GAS, 4.2 MMBTU/HR WITH A/N: 480320 Permit to Construct Issued: 01/27/09 BURNER, NATURAL GAS, NORTH AMERICAN, MODEL 4441-4-A, 8 TOTAL; 0.525 MMBTU/HR	D13		NOX: PROCESS UNIT**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 70.31 PPMV NATURAL GAS (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B59.1, C1.23, D12.1, D12.2, D28.5, D29.1
FURNACE, NO.FPN, NATURAL GAS, 8 MMBTU/HR WITH A/N: BURNER, NATURAL GAS, HOTWORK, MODEL HV300, WITH LOW NOX BURNER, 8 TOTAL; 1 MMBTU/HR	D21		NOX: PROCESS UNIT**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 50 PPMV NATURAL GAS (4) [RULE 2005, 5-6-2005]; NOX: 50 PPMV NATURAL GAS (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 407, 4-2-1982]	B59.1, D28.6

- * (1) (1A) (1B) Denotes RECLAIM emission factor
 - (3) Denotes RECLAIM concentration limit
 - (5) (5A) (5B) Denotes command and control emission limit
 - (7) Denotes NSR applicability limit
 - (9) See App B for Emission Limits
 - (2) (2A) (2B) Denotes RECLAIM emission rate
 - (4) Denotes BACT emission limit
 - (6) Denotes air toxic control rule limit
 - (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 - (10) See section J for NESHAP/MACT requirements
- ** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE SHULTZ STEEL CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 1: FORGING OPERATION					
FURNACE, FORGE, FXT, NATURAL GAS, ONE 25 HP COMBUST AIR BLOWER, WITH LOW NOX BURNER, 15 MMBTU/HR WITH A/N: BURNER, NATURAL GAS, HOTWORK, MODEL HV400, WITH LOW NOX BURNER, 10 TOTAL; 1.5 MMBTU/HR	D126		NOX: LARGE SOURCE**	CO: 2000 PPMV NATURAL GAS (5) [RULE 407, 4-2-1982]; NOX: 50 PPMV NATURAL GAS (3) [RULE 2012, 5-6-2005]; NOX: 50 PPMV NATURAL GAS (4) [RULE 2005, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B59.1, C1.19, D28.6, I296.2
FURNACE, RHT, NATURAL GAS, ONE 20 HP COMBUSTION BLOWER, WITH LOW NOX BURNER, 8 MMBTU/HR WITH A/N: BURNER, NATURAL GAS, HOTWORK, MODEL CT HV300, WITH LOW NOX BURNER, 8 TOTAL; 1 MMBTU/HR	D128		NOX: PROCESS UNIT**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 50 PPMV NATURAL GAS (4) [RULE 2005, 5-6-2005]; NOX: 50 PPMV NATURAL GAS (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	B59.1, C1.19, D28.6, D28.8, I296.3

- * (1) (1A) (1B) Denotes RECLAIM emission factor
- (3) Denotes RECLAIM concentration limit
- (5) (5A) (5B) Denotes command and control emission limit
- (7) Denotes NSR applicability limit
- (9) See App B for Emission Limits
- (2) (2A) (2B) Denotes RECLAIM emission rate
- (4) Denotes BACT emission limit
- (6) Denotes air toxic control rule limit
- (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
- (10) See section J for NESHAP/MACT requirements

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

**FACILITY PERMIT TO OPERATE
SHULTZ STEEL CO**

SECTION H: DEVICE ID INDEX

**The following sub-section provides an index
to the devices that make up the facility
description sorted by device ID.**

**FACILITY PERMIT TO OPERATE
SHULTZ STEEL CO**

SECTION H: DEVICE ID INDEX

Device Index For Section H			
Device ID	Section H Page No.	Process	System
D13	1	1	0
D21	1	1	0
D126	2	1	0
D128	2	1	0

FACILITY PERMIT TO OPERATE SHULTZ STEEL CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

FACILITY CONDITIONS

F9.1 Except for open abrasive blasting operations, the operator shall not discharge into the atmosphere from any single source of emissions whatsoever any air contaminant for a period or periods aggregating more than three minutes in any one hour which is:

(a) As dark or darker in shade as that designated No.1 on the Ringelmann Chart, as published by the United States Bureau of Mines; or

(b) Of such opacity as to obscure an observer's view to a degree equal to or greater than does smoke described in subparagraph (a) of this condition.

[RULE 401, 3-2-1984; RULE 401, 11-9-2001]

F14.1 The operator shall not use diesel fuel containing sulfur compounds in excess of 500 ppm by weight.

[RULE 431.2, 5-4-1990; RULE 431.2, 9-15-2000]

F14.2 The operator shall not purchase diesel fuel containing sulfur compounds in excess of 15 ppm by weight as supplied by the supplier.

[RULE 431.2, 9-15-2000]

DEVICE CONDITIONS

B. Material/Fuel Type Limits

B59.1 The operator shall not use the following material(s) in this device :

Metal contaminated with rubber, plastic, paper, rags, oil, grease

Smoke producing material

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 401, 3-2-1984; RULE 401, 11-9-2001]

FACILITY PERMIT TO OPERATE SHULTZ STEEL CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

[Devices subject to this condition : D13, D21, D126, D128]

C. Throughput or Operating Parameter Limits

- C1.19 The operator shall limit the natural gas fuel usage to no more than 24 MM cubic feet in any one calendar month.

this limit is based on the combined natural gas usage of the heat treating furnaces under devices D14, D47, D49, D73, D99, D126 and D128.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D126, D128]

- C1.23 The operator shall limit the natural gas fuel usage to no more than 1.67 MM cubic feet in any one calendar month.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D13]

D. Monitoring/Testing Requirements

- D12.1 The operator shall install and maintain a(n) non-resettable totalizing fuel meter to accurately indicate the fuel usage in the furnace.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D13]

- D12.2 The operator shall install and maintain a(n) temperature reading device to accurately indicate the temperature of the furnace.

The operator shall also install and maintain a device to continuously record the parameter being measured.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]

FACILITY PERMIT TO OPERATE SHULTZ STEEL CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

[Devices subject to this condition : D13]

D28.5 The operator shall conduct source test(s) in accordance with the following specifications:

The test shall be conducted every five -year period with the first period ending on December 31, 2009.

The test shall be conducted within 12 months of the approval of concentration limit.

The test shall be conducted to determine the NO_x emissions at the outlet.

[RULE 2012, 5-6-2005]

[Devices subject to this condition : D13]

D28.6 The operator shall conduct source test(s) in accordance with the following specifications:

The test shall be conducted to determine NO_x and CO concentrations, in terms of ppmv on a dry basis corrected to 3% oxygen, at the outlet.

The District shall be notified of the date and time of the test at least 10 days prior to the test.

[RULE 2005, 5-6-2005]

[Devices subject to this condition : D21, D126, D128]

D28.8 The operator shall conduct source test(s) in accordance with the following specifications:

FACILITY PERMIT TO OPERATE SHULTZ STEEL CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

The test shall be conducted every five -year period with the first period ending on December 31, 2014.

The test shall be conducted within 12 months of the approval of concentration limit.

The test shall be conducted to determine the NOx emissions at the outlet.

[RULE 2012, 5-6-2005]

[Devices subject to this condition : D128]

D29.1 The operator shall conduct source test(s) for the pollutant(s) identified below.

Pollutant(s) to be tested	Required Test Method(s)	Averaging Time	Test Location
NOX emissions	Approved District method	District-approved averaging time	Outlet

The test shall be conducted at the furnace maximum operating temperature to determine NOx concentrations, in terms of ppmv on a dry basis corrected to 3% oxygen, at the outlet.

The test shall determine/document the exhaust flow rate, in acfm; the moisture content, in %; the furnace temperature, in degree F; the exhaust temperature, in degree F; the oxygen content, in %; and the fuel rate, in scfh.

The District shall be notified of the date and time of the test at least 10 days prior to the test.

[RULE 2005, 5-6-2005]

[Devices subject to this condition : D13]

I. Administrative

FACILITY PERMIT TO OPERATE SHULTZ STEEL CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

1296.2 This equipment shall not be operated unless the operator demonstrates to the Executive Officer that the facility holds sufficient RTCs to offset the annual emissions increase for the first 12 months of operation. In addition, this equipment shall not be operated unless the operator demonstrates to the Executive Officer that, at the commencement of each compliance year after the start of operation, the facility holds sufficient RTCs in an amount equal to the annual emissions increase.

For the purposes of this condition, the annual emission increase is 2530 lbs. of NO_x

RTCs held for the purpose of demonstrating compliance with this condition either at the commencement of initial operation or of a compliance year may be sold only after 12 months of start of initial operation or after the fourth quarter of the applicable compliance year, respectively.

To comply with this condition, the operator shall prior to the 1st compliance year hold a minimum NO_x RTCs of 2,530 lbs/yr. This condition shall apply during the 1st 12 months of operation, commencing with the initial operation of the furnace.

To comply with this condition, the operator shall, prior to the beginning of all years subsequent to the 1st compliance year, hold a minimum of 2,530 lbs/yr of NO_x RTCs for operation of the furnace. In accordance with Rule 2005(f), unused RTC's may be sold only during the reconciliation period for the fourth quarter of the applicable compliance year inclusive of the 1st compliance year.

[RULE 2005, 5-6-2005]

[Devices subject to this condition : D126]

1296.3 This equipment shall not be operated unless the operator demonstrates to the Executive Officer that the facility holds sufficient RTCs to offset the annual emissions increase for the first 12 months of operation. In addition, this equipment shall not be operated unless the operator demonstrates to the Executive Officer that, at the commencement of each compliance year after the start of operation, the facility holds sufficient RTCs in an amount equal to the annual emissions increase.

FACILITY PERMIT TO OPERATE SHULTZ STEEL CO

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

The operator shall comply with the terms and conditions set forth below:

For the purposes of this condition, the annual emission increase is 1349 lbs. of NO_x

RTCs held for the purpose of demonstrating compliance with this condition either at the commencement of initial operation or of a compliance year may be sold only after 12 months of start of initial operation or after the fourth quarter of the applicable compliance year, respectively.

To comply with this condition, the operator shall prior to the 1st compliance year hold a minimum NO_x RTCs of 1,349 lbs/yr. This condition shall apply during the 1st 12 months of operation, commencing with the initial operation of the furnace.

To comply with this condition, the operator shall, prior to the beginning of all years subsequent to the 1st compliance year, hold a minimum of 1,349 lbs/yr of NO_x RTCs for operation of the furnace. In accordance with Rule 2005(f), unused RTC's may be sold only during the reconciliation period for the fourth quarter of the applicable compliance year inclusive of the 1st compliance year.

[RULE 2005, 5-6-2005]

[Devices subject to this condition : D128]