	AQIFAC / Ca	se # 25-0	000-0006
2700-FM-AQ0023 Rev. 1/2008 pennsylvania penanylvania	INSPECTION		Commonwealth of Pennsylvania Department of Environmental Protection Air Quality Program
Date(s) of Inspection: TV PA GP SM GP NM MEGA	25-00066 2	xpiration Date: 18 Feb 2014	Case #: PFID#: 25-000-00064 510624
Company Name: Accuride Corp Eric Plant Name:	Municipality: CHU OF E Physical Location:	ne	County: EY P Federal ID — Plant Code #:
Acundlene Fre Fage? Responsible Official:	H E.12#5	Hailing Address:	76-0534862-1
Title: Steven Kuhn	2.0	1015 -	17th CL
Phone #(s): 9/4 480 CHM	λη	1015 E 1 Frie	d J
Mark (X) All Inspection Types Th	at Apply To This Insp	pection:	
Full Compliance Evaluation (FCE)	☐ Plan Approval Inspection		File Review (FR) 3/13/14
Operating Permit Inspection (PI)	☐ Initial Permit Inspection (I	PI)	Complaint Inspection (CI)
Routine/Partial (RTPT)	Follow-Up Inspection (Re	f. Date:)	Sample Collection (SC)
☐ Minor Source(s) Inspection (RFD)	Stack Test Observation		Multi-Media Inspection (MM)
Other:	Announced		
Annual Compliance Certification Received:	YES NO N/A	Date Received	:
AIMS Report Received:	YES NO N/A	Date Received	: 3/114
Mark (X) All Activities That Appl			S/III-
☐ File Review	Pre-Inspection Briefing		Exit Interview/Briefing
Pre-Inspection Observations	Check For New/Unreport	ed Sources	Sample(s) Collected
☐ Visible Emissions Observations	☐ Verify Operation of CEMS		Other
Comments/Recommendations	C o Ent	forcement since last F	CE No (If yes, attach summary)
not with mutt Drad	tur trucolita	T-0	retter Cuts aluminum
billets to Size and pre			7 / / / / / / / / / / / / / / / / / / /
	currently for		1) laina waten projects
Eachts operates 5d	oys IWK 3 S	hots/day	and employs-212
Persons.	emission or n	nalodar Pro	blems were poted
	orissus were	nord toda	4
Inspection is pending	records revie	w.	<u> </u>
			to Fellow the transition 2. The Called
Compliance Status	Awaiting Co. Re	Signature: 7	ds a Follow-Up Inspection? Yes No
Company Representatives 138/1	EH+S Coordin	ater /	7/13/1L
DEP Representative: O Welissa Baggan	Tille: AQ Specialis		Date/Time; 3/13/14
inspection are shown above and on any attached p sample results or from any additional review of Depar	ages, and may include violations u tment records. Notification will be fo	ncovered during the inspec	Program, inspected the identified site. The findings of this con. Violations play also be discovered upon review of are noted.
Page of eFacts Inspe	ction ID#: <u>2254028</u>	Date: 3/18/14	_ Reviewed By flamed Makey
Page of eFacts Inspe See attached Checklis White – Regional Office	r <i>t</i> □Y€	ellow – Site	☐ Pink – District Office

Accuride Erie L.P.: This synthetic minor facility performs non-ferrous forging. This division forges wheels, mostly for large trucks.

**Permit is due to expire 2/28/2014- Renewal has been submitted and reviewed and is waiting to be finalized. See the attached list for proposed changes to the operating permit. Accuride received a NOV for failure to keep records from Section D Source 102. Corrections were made within 14 days.

Permit contact: Matt Brady 814.480.6418 or 814.790.3675 mbrady eaccurite corp. com

Section B. General Site Requirements:
$\sqrt{}$ #002, 003 Operating permit due to expire; renewal application due 6 – 18 mos. prior
02/28/2014
#006, 009 Inspection and entry including access to records, and ability to sample and monitor
#015 May not reactivate a source that has been out of operation > 1 yr w/o dept. approval.
$\sqrt{}$ #019, 020 Shall comply with sampling, monitoring, testing and record keeping requirements and
make available to the Department for 5 years.
Secatore renewal submitted
#OB Working w/ consultant (ECS+R) on deachwatern notice tox Source 10
only oferested I day last year. Section C. Site Level Requirements:
$\sqrt{}$ #001, 014 Reasonable actions shall be taken to prevent particulate matter to become airborne
from demolition & construction activities, the grading & maintenance of roads, land clearing,
stockpiles, etc.
$\sqrt{}$ #001 No fugitive emissions present in the outdoor atmosphere w/exception of those listed
above.
$\sqrt{}$ #002 No fugitives from sources in condition #1 should be visible outside the property.
#003 No malodors detected outside the property
$\sqrt{}$ #004 No emissions w/opacity equal to or greater than 20% for a period of more than 3 min in
one hr or equal to or greater than 60% at any time are not permitted into the outdoor atmosphere.
#006 Facility-wide emissions of CO is limited to a maximum of 95 tons. © 23.96 Tons +have
\checkmark #008, 009 Facility shall monitor and record the amount of natural gas combusted on a monthly \checkmark
basis,
$\sqrt{}$ #009 Facilities shall keep an on-site facility log for monthly totals of CO and NOx emissions from
all processes; monthly total shall be added to the previous 11-mo totals to assure compliance.
$\sqrt{}$ #012, 013 AIMS report including information on all previously reported sources, new sources, &
modified sources to be submitted by Mar. 1 of each year; submitted in format specified by Dept.
#015 No open burning.
#OID, 013 Recd 3/1/14 also had a 30 day extension.
#009,009 (heckenteural Hom Oct 2012 - Feb 2014
#009 Currently @ 10. 81 TPY For NOx UMISSIONS
Section D. Source Level Requirements
section D. source Level Requirements
Source 106B 1995 Quench Tank (26-5) (natural gas) FML -1→ CU 106B → STAC \$106B
#001 No $SO_2 > 4$ lbs. /mmbtu of heat input in 1 hr. (This condition cannot be verified by
$\frac{1}{100}$ $\frac{1}$
002 Operate and maintain as per mfg.'s specifications.

Source 102 8000 Ton Forging Press "Forge line 1" (Aluminum) PROC 102→ CNTL C102→STAC S102 (Venturi scrubber)
#001 No PM > .02 grain/dscf(This condition cannot be verified by inspector)
#002 Dept. reserves the right to require source testing to show compliance for use of water
based lubricants.
#003, 004 005, 007 A differential manometer or equivalent device shall be permanently
installed at a convenient location to indicate pressure drop across each of 3 Venturi scrubbers; an
inspection log with the daily pressure drop recorded shall be kept; a minimum 12" w.g. pressure
drop.
* #003, 004, 006, 007 A rotometer or equivalent shall be permanently installed at a convenient
location to indicate the water flow rate to each of the 3 scrubbers; an inspection log with the daily
flow rate recorded shall be kept; 220 gal/min to the scrubber shall be maintained.
* #004 Facility shall maintain a log of all preventive maintenance inspections on control devices;
shall contain the dates, potential problems & defects, corrective measures taken as well as the pressure
drop and water flow rate.
#008, 009 These sources shall not be operated without the air pollution control devices and as
per mfg.'s specs and consistent w/good air pollution control practices.
* This forge only operated once in the last year Facility is planning on
doing maintenance and submitting a deactivation notice
Source 103 7000 Ton Forging Press "Forge line 4" (Aluminum) PROC 103→ CNTL C103→STAC \$103 (Venturi scrubber)
#001 No PM > 0.01 grain/dscf. (This condition cannot be verified by inspector)
#002, 003, 004, 008 A differential manometer or equivalent device shall be permanently
installed at a convenient location to indicate pressure drop across each of 3 Venturi scrubbers; an
inspection log with the daily pressure drop recorded shall be kept; minimum pressure drop is 12 inches
w.g.,
#002, 003, 005, A rotometer or equivalent shall be permanently installed at a convenient
location to indicate the water flow rate to each of the 3 scrubbers; an inspection log with the daily
flowrate recorded shall be kept; a minimum water flow of 140 gallons/min. shall be maintained.
#003 Facility shall maintain a log of all preventive maintenance inspections on control devices;
shall contain the dates, potential problems & defects, corrective measures taken as well as the pressure
drop and water flow rate.
#006, 007 The sources shall not be operated without the air pollution control devices and as
per mfg.'s specs and consistent w/good air pollution control practices. Not constructed of Does not operate often (Sel attucked readings)
Used as a back-up for another press.
#COD, COB MY 1008 See attached description

Source 104 2000 Heat Treating Furnaces FML -1→ PROC 104 → STAC S104 (9-1, 9-2, & 10-1) (Alum wheels) Heat treat 3
#001 Emission Restrictions: Feb readings CO (5.60 tpy) 91 SOx: (0.04 tpy) 0.00 (0.569 tpy) 0.059 PM10 (1.23 tpy) 0.082 NOx (7.75 tpy) 1.08 rolling
#002, 003 Source shall only be fired with natural gas; maintain records of natural gas use; records to be kept for 5 yrs. (3 metersfor, monitoring Operating unboding fumace while instricting #1022003 (no usage whenever 20 MMSCF/month)
Solution furnace Solution furnace (26:24) (Natural gas) FML-1→ PROC 106A → STAC S106A
#001 No PM in effluent gas 0.04 grain/dscf when effluent gas volume is < 150,000 dscf (This condition cannot be verified by inspector but is assumed to be met with use of natural gas as a fuel) #002 No SO ₂ in effluent gas > 500 ppm by volume, dry (This condition cannot be verified but is assumed to be met with the use of natural gas as a fuel) # 003 Operate and maintain as per mfg.'s specifications. Operation have Splitch temperature many they are the death go below 960 for Solin filmage generally many was a fuel below 960 for Solin filmage generally many was a fuel below 960 for Solin filmage generally many was a fuel below 960 for Solin filmage generally many was a fuel below 960 for Solin filmage generally many was a fuel below 960 for Solin filmage generally many was a fuel below 960 for Solin filmage generally many was a fuel below 960 for Solin filmage generally many
Source106C 1995 Age Furnace (26-6) Age Furnace FML -1→ PROC 106C →STAC → S106C #001 No PM in effluent gas > 0.04 grain/dscf when effluent gas volume is < 150,000 dscf (This condition cannot be verified by inspector but is assumed to be met with use of natural gas as a fuel) #002 No SO₂ in effluent gas > 500 ppm by volume, dry (This condition cannot be verified but is assumed to be met with the use of natural gas as a fuel) # 003 Operate and maintain as per mfg.'s specifications.
Source 107 (2) Cold Cleaning Machines (4-1, 22-7) one in bldg 12 Source 107 (2) Cold Cleaning Machines (4-1, 22-7) one in bldg 12

#001 Cold Cleaning Machines (2 or more gals solvent w/greater than 5% VOCs):

- a. Immersion machines shall have a freeboard ratio of 0.50 or greater.
- b. Have a permanent, conspicuous label summarizing operating requirements.
- c. Fans should not be blowing across the work area.
- d. The machine should be covered at all times when not in use OR for remote reservoir cold cleaning machines, a perforated drain with a max. 6" dia.
- e. Waste solvent shall be collected & stored in closed containers.
- f. Absorbent materials may not be cleaned in the cold cleaning machine
- g. Do not use any solvent with a vapor pressure of 1.0 mm Hg or greater and containing greater than 5% VOC by weight.

Name and address of some pressure of the solvent i. MSDS or other approp	supplier, type of solvent inc t measured in mmHg at 20 o priate documentation provid	
Lid closed no fans	or other issues v	inter
	<u> </u>	· · · · · · · · · · · · · · · · · · ·
Source 108 Process Heating- Natu	ural Gas Usage	FML -1→ PROC 108 →STAC S108
Includes 12 different pieces of eq		
Annealing furnace, 4-1	5000/8000 Venturi Duct	
Stress relief furnace, 4-2	Pre-heat furnaces, 22-1 22	
Lg. Die Heater, 22-20	Press Die Ring Burner, 22	,
Sm. Die Heater, 22-21	Press Die Torches, 22-11&	22-19
Press Die Ring Burner, 22-18		
cannot be verified by inspector. $\sqrt{\text{#002 No SO}_2}$ in effluent gainspector)	/dscf when effluent gas voluns > 500 ppm by volume do	me is < 150,000 dscf (This condition ry (This condition cannot be verified by ns.
IND ISSUES MOTEON	e de la companya del companya de la companya del companya de la co	
	.	
Source109 Miscellaneous Natural	l Gas Usage	FML -1→ PROC 109 →STAC S109 →STAC Z109
		ction process (space heating units, infrared atter heaters); all less than 10 MMBtu/hr.
condition cannot be verified by i #002, 003 No SO ₂ in efflue > 4 lbs/mmbtu of heat input ove be met with the use of natural ga	inspector but is assumed to lent gas > 500 ppm by voluer a 1 hr. period (This condi	fluent gas volume is < 150,000 dscf (This be met with use of natural gas as a fuel) me, dry OR SO2 from a combustion unit tion cannot be verified but is assumed to ns.

Source 110 (3) Wheel Washers (5-1, 5-2 & 5-3) (Natural Ga	$FML -1 \rightarrow PROC 110 \rightarrow STAC S110$
HOOL No. D. O. O. Grain (deef when effluent record)	included the condition
$\sqrt{}$ #001 No PM > 0.04 grain/dscf when effluent gas voluciant be verified by inspector.	ine is < 150,000 asci (This condition
#002 No SO_2 in effluent gas > 500 ppm by volume d	ry (This condition cannot be verified by
inspector)	if y (This condition cannot be verified by
# 003 Operate and maintain as per mfg.'s specification	ons
RFD (01/19/2009): 7 add'l machine lines w/washers. (The r	machine line portions are controlled by
mist collectors & HEPA filters w/air re-circulated in the bldg.	
Dovatine NO Droblems noted dunin	
Source 111 (2) Carbottom Furnaces	PROC 111 →STAC S111
(Burns off lube residue from dies.) (22-2	2 & 22-23: Bldg 22) (Aluminum Dies)
#001 No PM > 0.04 grain/dscf when effluent gas volu	ume is < 150,000 dscf (This condition
cannot be verified by inspector.	
# 002 Operate and maintain as per mfg.'s specification	
Operatine No Drobbems or 135748 Re	SHEW. HAVE CITED CHIM IS
on turnacisto vecora temp.	
•	
Source 112 A, 112 B, 112C: (2006 Heat Treat Line)	FML -1→ PROC 112→STAC S112A
Source 112 A, 112 B, 112C: (2006 Heat Treat Line) (Natural gas)	
(Natural gas)	
(Natural gas) Source 112A: 2006 solution furnace	y STAC S112B
(Natural gas)	y STAC S112B
(Natural gas) Source 112A: 2006 solution furnace	y STAC S112B
(Natural gas) Source 112A: 2006 solution furnace Heats up (no solution) to "move" alloys around for even di	stribution. □ STAC S112B
(Natural gas) Source 112A: 2006 solution furnace Heats up (no solution) to "move" alloys around for even di Source 112B: 2006 quench tank Source 112 C: 2006 age furnace	stribution.
(Natural gas) Source 112A: 2006 solution furnace Heats up (no solution) to "move" alloys around for even di Source 112B: 2006 quench tank	stribution.
(Natural gas) Source 112A: 2006 solution furnace Heats up (no solution) to "move" alloys around for even di Source 112B: 2006 quench tank Source 112 C: 2006 age furnace Prematurely ages wheel; hardens once cooled	istribution. FML -1→ PROC 112B →STAC S112C FML -1→ PROC 112C →STAC S112D →STAC S112E
Source 112A: 2006 solution furnace Heats up (no solution) to "move" alloys around for even di Source 112B: 2006 quench tank Source 112 C: 2006 age furnace Prematurely ages wheel; hardens once cooled #001. 004, 009 Emission Restrictions: The following so	istribution. FML -1→ PROC 112B → STAC S112C FML -1→ PROC 112C → STAC S112D → STAC S112E hall not be exceeded from the 2006 Heat
Source 112A: 2006 solution furnace Heats up (no solution) to "move" alloys around for even di Source 112B: 2006 quench tank Source 112 C: 2006 age furnace Prematurely ages wheel; hardens once cooled #001. 004, 009 Emission Restrictions: The following so Treat Line; records shall be kept and calculated on a monthly	istribution. FML -1→ PROC 112B →STAC S112C FML -1→ PROC 112C →STAC S112D →STAC S112E hall not be exceeded from the 2006 Heat
Source 112A: 2006 solution furnace Heats up (no solution) to "move" alloys around for even di Source 112B: 2006 quench tank Source 112 C: 2006 age furnace Prematurely ages wheel; hardens once cooled #001. 004, 009 Emission Restrictions: The following solution: records shall be kept and calculated on a monthly calculated.	istribution. FML -1→ PROC 112B → STAC S112C FML -1→ PROC 112C → STAC S112D → STAC S112E hall not be exceeded from the 2006 Heat by basis; 12-mo rolling total also to be
Source 112A: 2006 solution furnace Heats up (no solution) to "move" alloys around for even di Source 112B: 2006 quench tank Source 112 C: 2006 age furnace Prematurely ages wheel; hardens once cooled #001. 004, 009 Emission Restrictions: The following solution: records shall be kept and calculated on a monthly calculated.	istribution. FML -1→ PROC 112B → STAC S112C FML -1→ PROC 112C → STAC S112D → STAC S112E hall not be exceeded from the 2006 Heat by basis; 12-mo rolling total also to be
Source 112A: 2006 solution furnace Heats up (no solution) to "move" alloys around for even di Source 112B: 2006 quench tank Source 112 C: 2006 age furnace Prematurely ages wheel; hardens once cooled #001. 004, 009 Emission Restrictions: The following so Treat Line; records shall be kept and calculated on a monthly	istribution. FML -1→ PROC 112B → STAC S112C FML -1→ PROC 112C → STAC S112D → STAC S112E hall not be exceeded from the 2006 Heat by basis; 12-mo rolling total also to be
Source 112A: 2006 solution furnace Heats up (no solution) to "move" alloys around for even di Source 112B: 2006 quench tank Source 112 C: 2006 age furnace Prematurely ages wheel; hardens once cooled #001. 004, 009 Emission Restrictions: The following solution: records shall be kept and calculated on a monthly calculated. NOx (6.0 tpy) 1.13 CO ((9.07 tpy) 0.95 PM10 (0.57 tpy) 0.085 SOx (0.04 tpy) 0.006	istribution. FML -1→ PROC 112B → STAC S112C FML -1→ PROC 112C → STAC S112D → STAC S112E hall not be exceeded from the 2006 Heat ly basis; 12-mo rolling total also to be VOC (0.40 tpy) (2.00)
Source 112A: 2006 solution furnace Heats up (no solution) to "move" alloys around for even di Source 112B: 2006 quench tank Source 112 C: 2006 age furnace Prematurely ages wheel; hardens once cooled #001. 004, 009 Emission Restrictions: The following solution: records shall be kept and calculated on a monthly calculated.	istribution. FML -1→ PROC 112B → STAC S112C FML -1→ PROC 112C → STAC S112D → STAC S112E hall not be exceeded from the 2006 Heat ly basis; 12-mo rolling total also to be VOC (0.40 tpy) (2.00)
Source 112A: 2006 solution furnace Heats up (no solution) to "move" alloys around for even di Source 112B: 2006 quench tank Source 112 C: 2006 age furnace Prematurely ages wheel; hardens once cooled #001. 004, 009 Emission Restrictions: The following st Treat Line; records shall be kept and calculated on a monthle calculated. NOx (6.0 tpy) 1.13 CO ((9.07 tpy) 0.95 PM10 (0.57 tpy) 0.085 SOx (0.04 tpy) 0.006 NOx and CO emissions shall be calculated based on the very	istribution. FML -1→ PROC 112B → STAC S112C FML -1→ PROC 112C → STAC S112D → STAC S112E hall not be exceeded from the 2006 Heat ly basis; 12-mo rolling total also to be VOC (0.40 tpy) (1) (2) (3) Indors emission factors x fuel usage x hrs. of

$\frac{1}{1000}$ #002, 004, 005, 007 Shall only use natural gas for fuel for all the burners; shall install gas met	tors
to measure natural gas amounts; monthly records on usage shall be kept & totaled based on 12-mo	
	O
rolling total.	rc.
#004, 005 Shall monitor the temperature of each source on a continuous basis during all hour	13,
records of the temperature shall be kept	
#004, 006 Shall conduct a monthly inspection of each of the burners and tune the burners on	
annual basis; records shall be kept of the maintenance conducted on each source and of the annual	
tune-ups and adjustments of the burners.	
#008 Shall maintain and operate as per mfg.'s specs.	1 1
Solution 1000° F Age 360° F Quench 175-185° 15, Have an operation	nonitary
Do amual Shutdown Aug or Sept for inspection.	temps e
of Condition is being chanced in renowal.	Oltimea
	ment's
Operation of the stand becomes	Turalan
#001,004005 r007 See attached records	
/ /	
Source 113 7000 Ton Forge Line 5 FML -1 \rightarrow PROC 113 \rightarrow CNTL C113 \rightarrow STAC S113	
Line 5 wet scrubber	
#001 PM not to exceed .02 grain/dscf (This condition cannot be verified by inspector)	20
#002, 003, 004 Shall monitor and record the pressure drop daily; to be maintained between	30
- 45 inches w.g.	
$\text{#002, 003, 004 Shall monitor and record the flow rate daily; shall be maintained between 20$	00 -
310 gallons/min.	
#003, 004 Shall maintain a copy of the mfg.'s spec's; source and control device to be operate	≥d
and maintained as per mfg.'s specs.	
$\sqrt{}$ #003 Records shall be kept on the source and control device on any maintenance performed;	; the
date, time, and duration of any malfunction.	
#004 The scrubber shall be operated whenever the forging press is operated.	
#005 The die preheat furnace shall only combust pipeline quality natural gas.	
Operating Pump flow 223 april	
1 - 1 - 1 = 1	
#062,003+004 Del actalively paperwork	
	
\cdot	
Source 114 7000 Ton Forge Line 6 FML -1→ PROC 114→ CNTL C114 →STAC S114	
Line 6 wet scrubber	
\checkmark , #001 PM is limited and shall not exceed .02 gr/dscf	
#002, 003, 004 Shall monitor and record the pressure drop daily; to be maintained between	30-
45 inches w.g.	
#002, 003, 004 Shall monitor and record the flow rate daily; shall be maintained between 20	00 –
310 gallons/min.	
#003, 004 Shall maintain a copy of the mfg.'s spec's; source and control device to be operate	ed
and maintained as per mfg.'s specs.	
#003 Records shall be kept on the source and control device on any maintenance performed	l: the
date time, and duration of any malfunction.	, .
#004 The scrubber shall be operated whenever the forging press is operated.	
V #004 The scrubber shall be operated whenever the forging press is operated.	

$\sqrt{}$ #005 The die preheat furnace shall only combust pipeline quality natural gas.	
Flow Rote @ 227 grow accorting No Droblems or issues noted	
#002,003-004 See attached Seerwork	

Activities/sources with no emission limitations or add'l requirements

Die shop weld booth

aluminum billet saw

band saw

(5) wheel spinners

Bldg. 22 fugitive emissions (22-12)

(3) trim presses

wheel cooler Quality Dept lathe inter-source chip processor

Hoffman sandblasting unit

ventilation fans

plant maintenance

battery chargers

waste oil/coolant tank (wastewater)

steam cleaning units.

(3) wheel machining lines (consists of a CNC machine, a Prestress machine, & a handhole machine) miscellaneous machining equipment (consists of planers, lathes, metal saws, grinders, & drill presses),

RFD (01/19/2009): chip grinder controlled by a cyclone & air filtration unit prior to air recirculation within bldg.

RFD (04/16/2009): 2nd phase of transfer from Ohio: transfer of 5 wheel sanding polishing lines (each w/5-6 heads) controlled by a single Venturi scrubber.

RFD submitted 11-02-2010 for replacement of wash tank $\,$ w/ 2 assoc. 0.5 mmBtu/hr nat. gas fired burners (exempt from PA)

RFD submitted 2-22-12 for a mist collector and nat. gas fired process heater (0.3 mmbtu)

RFD submitted 3/20/12 to add 3 wheel machining lines (2,8,9) and 6 mist collectors

**All of the above RFD's will be added to the permit renewal if applicable.

Source I	D	Section C Conditions 008-009 Provided by facility 3/13/14 Accuride 2013 Gas Usage (CF) Feb-14 Jan-14 Dec-13 Nov-13 Oct-13 Sep-13 Aug-13 Jul-13 Jun-13 May-13 Ap												
		Feb-14	Jan-14	Dec-13	Nov-13	Oct-13	Sep-13	Aug-13	Jul-13	Jun-13	May-13	Apr-13		
	FG5 Die Fu	11165	7943	10999	12525	7349	7930	12810	8526	6997	11315	8342		
	FG6 Die Fı	5581	3891	5334	6655	4077	5314	9347	5361	4503	6068	5639		
1	08 Preheat#5(0	0	0	0	0	0	0	0	0	0	(
1	08 FG4 Prehe	0	0	0	0	0	-1	1	0	0	0	(
1	04 HT3 Soluti	880000	793000	2058000	1442000	900000	1020000	2260000	1095000	897000	1686000	1036000		
1	04 Ht3 North	234935	217725	272871	358599	227760	218430	415810	221600	196659	283031	236618		
1	04 HT3 South	239000	213000	294000	371400	229800	240200	478200	239000	216300	315400	257500		
112A*	HT4 Soluti	1598274	1235906	1702360	1941990	1297619	1458081	2775970	1578640	1249900	1576900	1220800		
112B*	HT4 Age*	202830	300190	299230	338833	231631	172066	612680	309490	268110	344990	261700		
1	06 HT2 Soluti	905000	658000	1108000	1238000	789000	1080000	1779000	673000	732000	968000	740000		

rating between 112A, 112B and 112C.

	Monthly Gas Usage (MMSCF)											
112A	HT4 Soluti	1.059	0.904	1.177	1.342	0.900	0.959	1.993	1.111	0.893	1.131	0.872
112B	HT4 Quenc	0.106	0.090	0.118	0.134	0.090	0.096	0.199	0.111	0.089	0.113	0.087
112C	HT4 Age	0.636	0.542	0.706	0.805	0.540	0.575	1.196	0.666	0.536	0.678	0.523
104(total)	HT3	1.353935	1.223725	2.624871	2.171999	1.35756	1.47863	3.15401	1.5556	1.309959	2.284431	1.530118

Section C Conditions 0062-009 Provided by facility 3/23/14 Limiting Potential CO Emissions for Synthetic Minor Status (2013 Wheel Data)

Jan 14 - 12 Month Press Utilization Spreadsheet

Wheel Broduction

	Wileel Ploduci	lion											
	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Total
Forge 1	0	0	0	0	0	0	0	0	0	,O	0	0	0
Forge 4	0	535	121	0	11029	107	0		1190	461	0	168	13611
Forge 5	41587	34442	30952	27994	27200	33639	36974	40078	49547	44096	49476	34396	450381
Forge 6	32245	49951	43346	49719	44545	38766	27661	31403	33653	31048	31384	36034	449755
	73832	84928	74419	77713	82774	72512	64635	71481	84390	75605	80860	70598	913747

Press	Stack E	missions	Cycle Time	Stack Emissions	Number of Wheels \$	Stack Emissions
	(TPY)	(lbs/hr)	(seconds)	(lbs/wheel)	(wheels/yr)	(TPY)
5K Press	15.600	3.562	48.000	0.047	0	` ´ O
8K Press	15.600	3.562	48.000	0.047	0	0
7K Press	17.100	3.904	48.000	0.052	13611	0.354258904
7K Press (Line 5)	17.620	4.023	30.000	0.034	450381	7.549194463
7K Press (Line 6)	17.620	4.023	30.000	0.034	449755	7.538701579

Notes:

Press emissions are based upon stack emissions as determined by the 1999 stack test and presented in the prior permit application. Emissions for the 2 new 7K presses are based upon 1999 stack test data adjusted to reflect lower lube usage and faster cycle times

as reflected in the plan approval application for those sources.

Potential fugitive emissions from the presses (approx. 12 TPY total) are not included in the facility potential to emit for CO for synthetic minor status.

Fugitive emissions from gas-fired combustion sources have been assumed to be at 0 TPY at this time to simplify tracking.

Facility CO Emissions Calculations for Reporting

	(TPY)*
5K Press	0
8K Press	C
7K Press	0.3542589
7K Press (Line 5)	7.5491945
7K Press (Line 6)	7.5387016
Natural Gas Sources**	8.59766

Section C cond #009 Provided by facility 3/23/14

Enter 12 Mo. Gas Usage in MMSCF: 205.50

		12 Mo. Rolling Ave
	Gas Throughput Capacity	Estimated Actual Usage
Source ID Source Name	(MCF/HR)	(MCF/HR)
104 2000 Heat treat Furnaces	17	1.997521822
106A 1995 Sol'n Furnace	9.5	1.116262195
106B 1995 Quench Tank	1	0.117501284
106C 1995 Age Furnace	3.5	0.411254493
108 Process Heating (metered)	0	0
108 (Unmetered portion) ¹	36.7	4.31229711
109 Misc. Gas Usage	99.3	11.66787747
110 Wheel Washers ^{1,2}	6.65	0.781383536
112A 2006 Sol'n Furnace	10	1.175012836
112B 2006 Quench Tank	1	0.117501284
112C 2006 Age Furnace	6	0.705007702
113 7000 Ton Forge 5 Preheat	4	0.470005135
114 7000 Ton Forge 6 Preheat	4	0.470005135
117 Nat. Gas Generator	1	0.117501284
	<u>199.65</u>	<u>23.45913128</u>

5K Press

8K Press

7K Press

7K Press (Line 5)

7K Press (Line 6)

This spreadsheet equally apportions gas usage over all combustion sources and conservatively assur

		Month	Usage (ccf)	
		Jan-14	306332	
		Feb-13	276717	
Estimate NOx Emissions		Mar-13	264907.65	
(TPY)		Арг-13	175217.7	
0.874914558		May-13	106021.65	
0.488922841		Jun-13	99655.5	
0.051465562		Jul-13	101293.5	
0.180129468		Aug-13	85029	
0		Sep-13	76521.9	
1.888786134		Oct-13	113,454	
5.11053033		Nov-13	205,989	
0.342245989		Dec-13	243,881	
0.514655622			2,055,020	
0.051465562			, ,	
0.308793373			205.50	MMSCF
0.205862249				
0.205862249				
0.051465562				
<u>10.28</u>	Total From Gas Coml	oustion		
0				
0				
0.010948493				
0.261758758				
0.263769331				
<u>0.54</u>	Total from presses			

Facility Total 12 Mo. Rolling Ave. NOx

mes the small boiler AP-42 factor (100 lb/MMSCF) for all sources.

Source 103 Provided by facility 3/23/H

FORGE 4- SCRUBBER DAILY DATA SHEET							
. 1				`			<u> </u>
DATE	PIT-100 Inlet Vac	Fan Speed	FIT-162 Recirc Flow (220 gpm min.)	Venturi Damper (12in. min.)	Demister Diff Press	Remarks	Initials
01/01/13	·						
01/02/13							
01/02/13							1
01/03/13	-						
01/04/13							
01/03/13							
01/06/13	-						
01/07/13							
01/08/13	-			-	_		
01/03/13							
01/10/13							
01/11/13				·-			
01/12/13	·						
01/13/13			- .				
01/14/13							
01/15/13							
01/10/13/							<u> </u>
01/17/13							<u> </u>
01/18/13							
01/19/13		-					
01/20/13	_	•	•				
01/21/13				i		-	
01/22/13							
01/23/13							
01/24/13							-
							
01/26/13						_	
01/27/13		39.8	270	36.5	3.9		MB
01/28/13		38.9	270	36.4	3.9	-	MB
01/29/13		39.4	270	36.4	4.5		MB
01/30/13		39.4	271	35.4	3.7		MB
01/31/13		39.8	2/1	33./	3./		מואון
02/01/13			<u>.</u>	•			
02/02/13				<u> </u>	,		-
02/03/13							-
02/04/13				<u> </u>			
02/05/13							

No readings were taken from 2/1/3-7/16/13-were omitted

	<u></u>	DISTOR	may mac	<u>IMOOTTI</u>	24 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	רושוד -	0001/2017
06/27/13			<u> </u>				
06/28/13					_		
06/29/13			·			_	
						<u> </u>	
06/30/13							
07/01/13							
07/02/13							
07/03/13					-		
07/04/13							
07/05/13						ŀ	
07/06/13							
07/07/13							
07/08/13							
07/09/13						•	
07/10/13							
07/11/13				<u> </u>	_		
				. —			
07/12/13			-				
07/13/13			·				
07/14/13							
07/15/13							
07/16/13						-	
07/17/13			270	35.7	3.9		
07/18/13	-1.9	39.7	271	34.8	4.8		
07/19/13	-1.9	39.9	271	36.2	4.8		
07/20/13							
						.	
07/21/13							
07/22/13	-2.1	48.8	276	38.1	4.9		
07/23/13	-2.2	49.4	280	37.7	4.7		
07/24/13		48.6	279	38.3	4.8		
07/25/13			278	39.6	4.9		
		46.3		33.0		1	
07/26/13						no production	
07/27/13					_	0.00	
07/28/13							
07/29/13						. 	
			No. 1				
07/30/13				<u> </u>			
07/31/13							
08/01/13							
08/02/13		-	-		-		
08/03/13							
08/04/13							
08/05/13	1					<u> </u>	L
08/06/13							
08/07/13					· · ·		
					 		
08/08/13						<u>. </u>	
08/09/13		<u> </u>		-			
08/10/13							
08/11/13							
		-	 -				
08/12/13	<u> </u>					<u> </u>	

Sources 104 4112 Provided by facility 12 Mo. Rolling Average NOx (TPY) 3/23/14

	12 Mo. Rolling Average NOx (TPY)						
	-	Feb-14	Jan-14	Dec-13			
112A	HT4 Soluti	0.66	0.65	0.65			
112B	HT4 Quenc	0.07	0.06	0.06			
112C	HT4 Age	0.40	0.39	0.39			
104(total)	HT3	1.08	1.09	1.10			
	12 Mo Polli	12 Mo. Rolling Average CO (TPY)					
	12 W.O. ROIII	Feb-14	Jan-14	Dec-13			
112A	HT4 Soluti	0.56	0.55	0.55			
112R	HT4 Quenc	0.06	0.05	0.05			
112C	HT4 Age	0.33	0.33	0.33			
104(total)	HT3	0.91	0.91	0.93			
10 /(1015.)		3.3 /	0.0.	0.00			
	12 Mo. Rolli	ing Averag	e PM (TPY)				
		Feb-14	Jan-14	Dec-13			
112A	HT4 Soluti	0.050	0.049	0.049			
112B	HT4 Quenc	0.005	0.005	0.005			
112C	HT4 Age	0.030	0.030	0.030			
104(total)	HT3	0.082	0.082	0.084			
	12 Mo. Rolli		-	-			
		Feb-14	Jan-14	Dec-13			
112A	HT4 Soluti	0.004	0.004	0.004			
112B	HT4 Quenc	0.000	0.000	0.000			
112C	HT4 Age	0.002	0.002	0.002			
104(total)	HT3	0.006	0.007	0.007			
	12 Mo. Rolli	ing Averag	e VOC (TP)	()			
		Feb-14	Jan-14	Dec-13			
112A	HT4 Soluti	0.036	0.036	0.036			
112B	HT4 Quenc	0.004	0.004	0.004			
112C	HT4 Age	0.022	0.021	0.021			

0.059

0.060

0.061

104(total) HT3

Source 113 Provided by facility 3/23/14

FORGE 5 - SCRUBBER DAILY DATA SHEET							
DATE	DUCT PRS (IN H2O)	VENT DP (IN H2O)	MESH DP (IN H2O)	PMP FLW (GPM)	REMARKS	INIT.	
	R	JUST BE 30-4	5	MUST BE 200-310			
01/01/13		,			No Production	[*] MB	
01/02/13	-0.3	40.7	3.6	227		MB	
01/03/13	-0.4	40.9	3.8	227		МВ	
01/04/13	-0.3	39.9	4.8	226		MB	
01/05/13							
01/06/13							
01/07/13	-0.3	39.6	4.9	227		МВ	
01/08/13	-0.3	39.4	5	228		MB	
01/09/13	-0.2	39.2	5.6	226		МВ	
01/10/13		38.9	5.3	224		MB	
01/11/13	-0.3	39.1	5.1	228		MB .	
01/12/13							
01/13/13							
01/14/13	-0.3	34.9	4.7	225		МВ	
01/15/13	-0.1	34.6	4.7	229		МВ	
01/16/13	-0.3	39.9	5.3	227		МВ	
01/17/13	-0.2	40.2	5.9	227		МВ	
01/18/13	-1.6	37.2	5.8	225		МВ	
01/19/13							
01/20/13							
01/21/13					MLK day	MB	
01/22/13	-0.3	33.8	4.6	227		MB	
01/23/13	-0.3	39.2	4.8	227		MB	
01/24/13	-0.3	34.7	4.9	226		MB	
01/25/13	-0.2	34.6	3.9	229		MB	
01/26/13				<u>.</u>			
01/27/13							
01/28/13		37.7	5	225		MB	
01/29/13		36.1	4.7	224		МВ	
01/30/13		40.1	5.1	222		МВ	
01/31/13		36.1	4.8	226		МВ	
02/01/13		36.1	5.1	225		МВ	
02/02/13						МВ	
02/03/13		_					
02/04/13		37	4.8	226		МВ	
02/05/13	-1.5	33.6	5	226	<u> </u>	MB	
02/06/13			5.2	226		МВ	
02/07/13		36.1	5.2	226		МВ	
02/08/13	-1.5	37.1	5.3	226		МВ	
02/09/13				_			
02/10/13						·	

Source 14 Provided by facility 3/23/14

FORGE 6 - SCRUBBER DAILY DATA SHEET							
DATE	DUCT PRS (IN H2O)	VENT DP (IN H2O)	MESH DP (IN H2O)	PMP FLW (GPM)	REMARK S	INIT.	
	P.	NUST BE 30-4	5 M	UST BE 200-3	10		
01/02/13	-0.4	39.2	3.8	226		MB	
01/03/13	-0.4	40.2	3.7	227		MB	
01/04/13	-0.4	40.8	4	231		MB_	
01/05/13							
01/06/13							
01/07/13	-0.4	37.8	4.4	229		MB	
01/08/13	-0.5	38.2	4.6	231		MB	
01/09/13	0.3	41.1	4.7	229		MB	
01/10/13	-0.2	39.6	5.6	229		MB	
01/11/13	-0.3	34.4	4.3	229		МВ	
01/12/13							
01/13/13							
01/14/13	-0.4	40.5	4.4	227		MB	
01/15/13	-0.2	40.1	4.9	228		MB	
01/16/13	-0.3	40.4	4.8	228		MB	
01/17/13	-0.2	36.9	5.1	227		MB	
01/18/13	-1.8	33.3	4.5	226		MB	
01/19/13							
01/20/13				-			
01/21/13	-0.2	39.9	4.6	230		MB	
01/22/13	-0.2	41.2	4.7	228		MB	
01/23/13	-0.5	38.3	4.1	229		MB	
01/24/13	-0.3	37.1	4	231		MB	
01/25/13	-0.4	40.5	4.9	230		MB	
01/26/13							
01/27/13							
01/28/13					Down for s		
01/29/13		_			Down for s		
01/30/13					Down for s		
01/31/13					Down for s		
02/01/13	-1.9	33.8	3.1	227		MB	
02/02/13	_			_		MB_	
02/03/13							
02/04/13		39.6	2.1	231		MB	
02/05/13		36.4	2.3	230		MB	
02/06/13	-1.8	33.9	2.5	220		MB	
02/07/13	-1.9	36.3	2.5	222		MB	
02/08/13	-1.8	32.4	2.5	218		MB	
02/08/13	-1.8	32.4	2.5		-	MB	
02/09/13			_				
02/10/13							