

JULY 01, 2020



JULY 31, 2019



INTERNATIONAL BRIDGE - USA



NO. 7 BATTERY FAILED PUSHES- AUGUST (NOT REPORTED)

JULY 17, 2019 (>40%)



JULY 28, 2019 (>50%)



Note: The pushing limit in 2019 was 40%.

NO. 7 BATTERY FAILED PUSHES- AUGUST (NOT REPORTED)



Note: The pushing limit in 2019 was 40%.



Heavy particulate emissions predominately from COB #8 stack @ 9:02 am from Bonney St.



No. 7 Blast Furnace releasing untreated gas and particulate from dirty bleeder valves



Heavy iron emissions from the casthouse of No.07 Blast Furnace



Heavy iron emissions discharged from the BOSP Plant on July 13, 2019



Very high opacity (100%) acrid stack emission from No. 7 Battery on May 07, 2019

No. 2 BOSP (Basic Oxygen Steelmaking Plant) fugitive emissions



No.7 Blast Furnace Bleeder Valve emissions



No. 8 Battery Coke Oven Battery stack emissions



No. 7 Blast Furnace Casthouse emissions



No. 7 Blast Furnace Casthouse emissions



No. 8 and 9 battery cokemaking emissions (pushing/charging emissions)



No. 8 and 9 battery cokemaking emissions (pushing emissions)



No. 8 and 9 battery cokemaking emissions (pushing emissions)



Coffining emissions from ASI Landfill



Quench Tower emissions



No.2 BOSP emissions and 8 Battery stack emissions



No.2 BOSP emissions and 8 Battery stack emissions



No.2 BOSP fugitive emissions



No. 7 and No. 8 battery pushing emissions



No. 7 Battery stack emissions and No. 7 Blast Furnace waste gases





No. 8 Battery pushing emissions



No. 8 Battery pushing emissions



No. 7 Battery pushing emissions and Quench Tower emissions



No. 8 and 9 Battery pushing emissions



Coke oven and flaring emissions



Banding and hazing from steel operations (Carmen's Way)



No. 2 BOSP fugitive emissions



No. 7 Blast Furnace Casthouse emissions and coke oven battery emissions



No. 8 and 9 Battery Coke Oven Battery stack emissions



Coke Oven Battery emissions



No. 7, 8, and 9 Coke Oven Battery stack emissions



No. 7, 8, and 9 Coke Oven Battery stack emissions



Hazes from steel plant emissions



Hazing from No.2 BOSP, No. 7 Blast Furnace and coke oven battery emissions



Hazing from No.2 BOSP, No. 7 Blast Furnace and coke oven battery emissions



Hazing from No.2 BOSP, No. 7 Blast Furnace and coke oven battery emissions



No. 7 Blast Furnace bleeder valve emissions



No. 2 BOSP emissions



Hazes from coke oven battery emissions



No. 7 Blast Furnace Casthouse emissions



Court Bulletin Nouvelles judiciaires



Ministry of the
Environment

Ministère de
l'Environnement

For Immediate Release
October 15, 2010

ESSAR STEEL ALGOMA INC. FINED \$100,000 FOR PARTICULATE DISCHARGE

SAULT STE. MARIE – On September 30, 2010, Essar Steel Algoma Inc. was fined \$100,000 for causing or permitting the discharge of a contaminant, namely particulates, into the natural environment, contrary to the Environmental Protection Act.

The Court heard that the company operates a steel making facility in Sault Ste. Marie. On August 28, 2008, the ministry received complaints about emissions from the company's smokestacks. The smoke emissions had prompted the complainants to go inside their homes. Ministry staff observed smoke being emitted from the site and noted that it appeared to drop to ground level and migrate in a northerly direction off the property.

The company was charged following an investigation by the ministry's Investigations and Enforcement Branch.

The company was fined \$100,000 plus a victim fine surcharge and given 90 days to pay.

For further information:

Members of the media:

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Communications Branch
(416) 314-6666

Contact information for the general public:

416-325-4000 or 1-800-565-4923/
www.ontario.ca/environment

Coke dust plumes cost steelmaker \$390,000

ArcelorMittal Dofasco admits to six charges

[Matthew Van Dongen](#)

The Hamilton Spectator

Tuesday, May 27, 2014

ArcelorMittal Dofasco faces a government order to cut pollution at its steelmaking plant even as it prepares to pay \$390,000 in fines for releasing coke-oven dust into the air two years ago.

The company pleaded guilty Monday to six charges of exceeding visible pollution standards.

But it noted in a statement that past and ongoing repairs — including an \$87 million investment — are improving the environmental performance of its coke-making plants.

Seven other charges were dropped.

The rare provincial charges — the first of their kind laid against the steelmaker since local air regulations were updated almost a decade ago — came after nearly 200 air pollution violations were recorded in 2012.

But hundreds of new "opacity exceedances" — basically thick smoke plumes that linger for more than six minutes — have since been recorded by the Ministry of the Environment, said local spokesperson Jennifer Hall.

Ministry staff have noted more than 500 violations since April 2012, an average of one every day-and-a-half.

That's no surprise to residents living in the shadow of the steelmaker, said Barbara LaFleshe, who attended provincial offences court to hear the verdict. "It hasn't gotten better. All you have to do is sit there and watch and you'd see (a smoke plume) practically every day," said the resident of McAnulty neighbourhood, where studies show residents face a higher risk of dying due to air pollution.

LaFleshe said she was disappointed a sustained citizen effort to submit photos of pollution to the MOE resulted in what she called a "slap on the wrist" and questioned whether it would deter future pollution.

Hall said the ministry is poised to issue an [order](#) that sets deadlines for a series of planned environmental fixes between this June and 2018.

But company spokesperson Marie Verdun said via email that ArcelorMittal "worked closely" with the MOE on the actions outlined in the order, and required improvements are already underway.

Verdun said the company previously committed to close by early 2015 its oldest coke-making plant, which turns coal into fuel for steel-making blast furnaces.

That move alone is expected to cut the number of opacity violations by 30 per cent, she said

Full article: <https://www.simcoe.com/news-story/4540106-coke-dust-plumes-cost-steelmaker-390-000/>

CHANGES TO THE NOTATION OF ASI'S PROCESS UPSET TABLE IN 2020


<div style="text-align: center;">  <p>Environmental incidents resulting from operations</p> </div>				
The following table lists the environmental incidents with the potential for an off-site impact, related to operations, for the date indicated:				
Date occurred 2020	Department	Description of the Incident	Resolution	Ministry of the Environment, Conservation and Parks File Number
August 4	Cokemaking	Stack emission #7 Battery, 21 events	Ovens to be inspected	
August 4	Cokemaking	Stack emission #8 Battery, 11 events	Ovens to be inspected	
August 4	Cokemaking	Stack emission #9 Battery, 7 events	Ovens to be inspected	
August 3	Cokemaking	Fill out emission Ht 1338H	Stopped fill out -- waited for dampers to activate	3237-BS6J7R
August 3	Cokemaking	Pushing emission #8 Battery, #112 Oven	Checked next oven in sequence and stopped pushing for more coking time	6524-BS6J6N
August 3	Steelmaking	Pushing emission #8 Battery, #106 Oven	Checked next oven in sequence and stopped pushing for more coking time	4252-BS6J5L
August 3	Cokemaking	Stack emission #7 Battery, 13 events	Ovens to be inspected	
August 3	Cokemaking	Stack emission #8 Battery, 22 events	Ovens to be inspected	

Photo 19: Showing the number of stack violations (events) for each COB stack and a Ministry File No.


<div style="text-align: center;">  <p>Environmental incidents resulting from operations</p> </div>		
August 4	Cokemaking	Stack opacity emissions on #7 Battery
August 4	Cokemaking	Stack opacity emissions on #8 Battery
August 4	Cokemaking	Stack opacity emissions on #9 Battery
August 3	Steelmaking	Fill out emission Ht 1338H
August 3	Cokemaking	Pushing emission #8 Battery, #112 Oven
August 3	Cokemaking	Pushing emission #8 Battery, #106 Oven
August 3	Cokemaking	Stack opacity emissions on #7 Battery
August 3	Cokemaking	Stack opacity emissions on #8 Battery

Photo 20: The number of stack violations (events) are no longer posted or a Ministry File No.

*Changes to ASI Process Upset Table were first noticed on September 18, 2020. The table initially included incidents starting from the beginning of the year. Currently, incidents are only noted beginning from June 08, 2020.

ALGOMA STEEL INC. COKE OVEN BATTERY OPACITY VIOLATIONS (2019-2020)

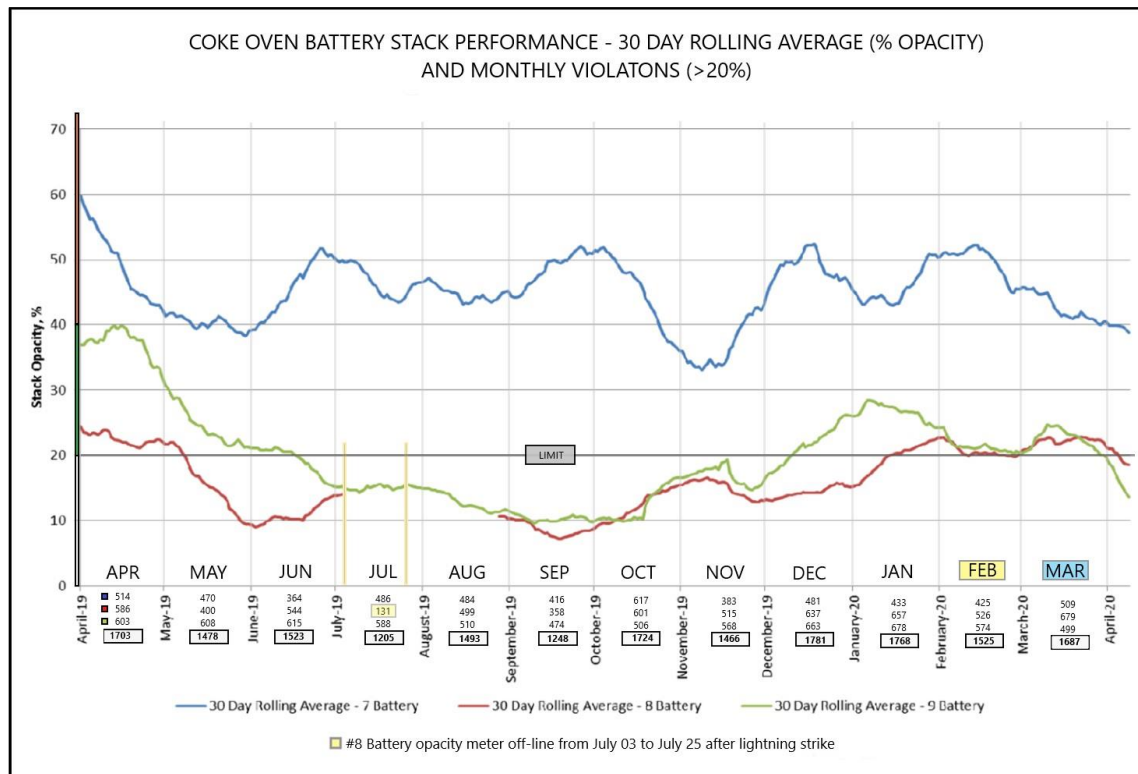


Photo 17: Modified from: ASI ACLC Meeting Presentation #33, June 09, 2020, slide 7.

COMPARISON OF ASI COKE OVEN BATTERY STACK MONTHLY VIOLATIONS FOR 2019-2020									
Total Year Violations 2019					Total Year Violations 2020				
Month	7 Battery	8 Battery	9 Battery		Month	7 Battery	8 Battery	9 Battery	
JAN	no data	no data	no data	no data	JAN	433	657	678	1768
FEB	270	545	530	1345	FEB	425	526	574	1525
MAR	323	633	488	1444	MAR	509	679	499	1687
APR	514	586	603	1703	APR	437	610	618	1665
MAY	470	400	608	1478	MAY	341	443	638	1422
JUN	364	544	615	1523	JUN	506	484	562	1552
JUL	486	131	588	1205	JUL	479	462	444	1385
AUG	484	499	510	1493	AUG	324	536	349	1209
SEPT	416	358	474	1248	SEPT*	117	323	198	638
OCT	617	601	506	1724	OCT	*	*	*	*
NOV	383	515	568	1466	NOV				
DEC	481	637	663	1781	DEC				
TOTAL	4808	5449	6153	16410	TOTAL	3571	4720	4560	12851

All data compiled from ASI Process Upset Tables
*Data incomplete, data no longer posted on ASI Process Upset Table

Photo 18: Chart showing the difference in the number of monthly violations from 2019 to 2020.

COMPARISON OF HOURS OF ASI STACK VIOLATIONS TO ALLEGHENY COUNTY FINES FOR US STEEL – (CLAIRTON)

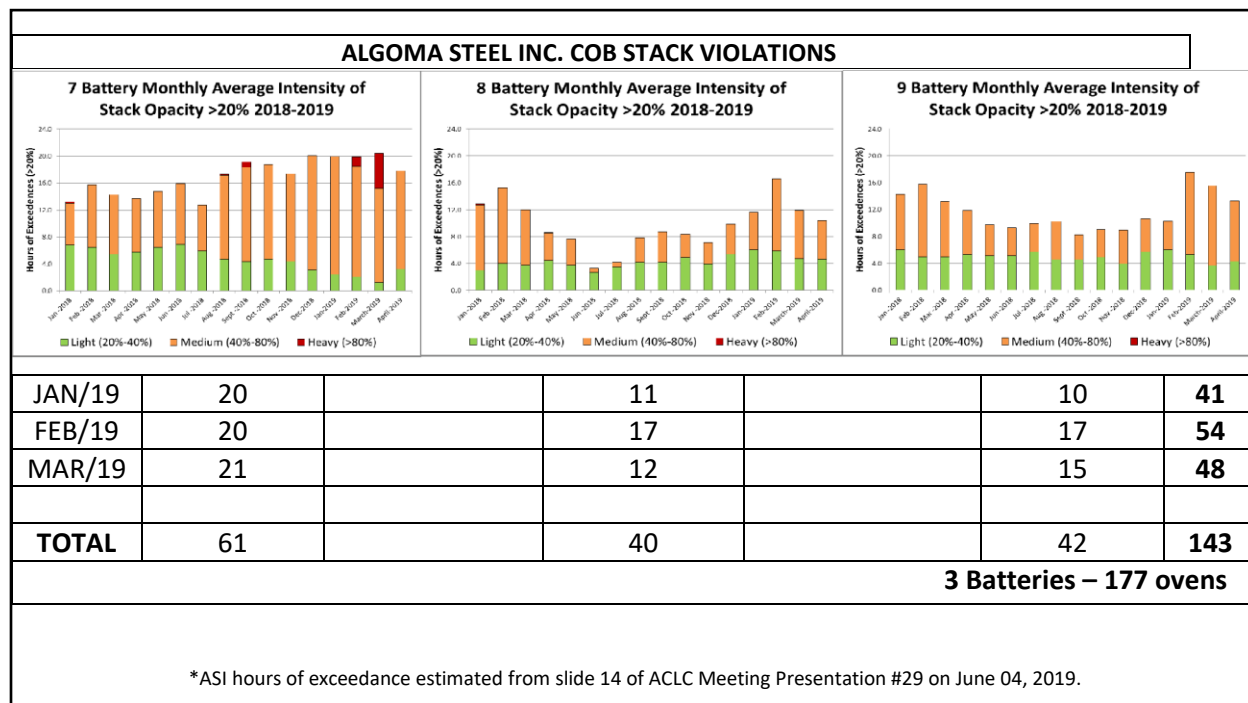


Photo 21: Modified from: ASI ACLC Meeting Presentation #29, June 04, 2019, slide 14

**UNITED STATES STEEL - CLAIRTON PLANT
OPACITY VIOLATIONS (HOURS OF EXCEEDANCE >20%)**

Combustion Stack COM Non-compliant Clock Hours

Battery	July	August	September	Total Clock Hours 2nd Qtr 2019	amount
1	5	2	4	11	\$2,200
2	13	12	10	35	\$8,600
3	4	5	10	19	\$3,800
13	2	2	6	10	\$2,000
14	4	2	8	14	\$2,800
15	3	10	11	24	\$4,800
19	3	9	10	22	\$4,400
20	13	1	1	15	\$3,000
B	5	5	2	12	\$2,400
C	0	1	1	2	\$400
Count:	52	49	63	164	\$34,400 subtotal

* Note: 33 hrs. @ \$200 & 2 hrs. @ \$1000 = \$8,600

10 Batteries - 708 ovens

Photo 22: Modified from: *Report by Allegheny Health Department Air Quality Program (January 14, 2020), pg.9

*United States Steel Clairton Plant; Demand for Stipulated Penalties Under Settlement Agreement and Order #190604 Section IX. Stipulated Penalties April 1, 2019 through September 30, 2019 (2nd and 3rd Quarters)

Note: There is currently no fines issued for opacity violations at ASI. US regulations in Allegheny County are also stricter than Ontario where an opacity violation (>20%) occurs after 3 consecutive minutes versus 6 consecutive minutes in Ontario.

COMPARISON OF ASI PUSHING VIOLATIONS TO ALLEGHENY COUNTY FINES FOR US STEEL – (CLAIRTON)

ALGOMA STEEL INC. PUSHING VIOLATIONS (JAN -MAR 2020)											
DATE	BATTERY	OVEN#		DATE	BATTERY	OVEN#					
04-Jan	8	90		04-Feb	8	91					
04-Jan	9	33		24-Feb	8	89					
05-Jan	8	85		24-Feb	8	71					
05-Jan	9	26		27-Feb	9	39					
05-Jan	9	44									
06-Jan	8	18		DATE	BATTERY	OVEN#					
06-Jan	9	13		01-Mar	8	70					
06-Jan	9	24		07-Mar	8	98					
06-Jan	9	26		08-Mar	9	19					
06-Jan	9	46		08-Mar	9	29					
07-Jan	8	84		10-Mar	8	ND					
09-Jan	8	64		19-Mar	7	51					
11-Jan	9	33		28-Mar	8	68					
13-Jan	8	97		29-Mar	8	64					
19-Jan	8	97									
19-Jan	9	38		MONTH	FAILS						
24-Jan	8	108		JAN	23						
24-Jan	9	25		FEB	4						
26-Jan	8	70		MAR	8						
28-Jan	8	97		TOTAL	35						
30-Jan	8	68									
30-Jan	9	26									
31-Jan	8	74									

Note: All data was compiled from ASI Process Upset Tables

Photo 23: Number of pushing violations at ASI recorded on their Process Upset Table

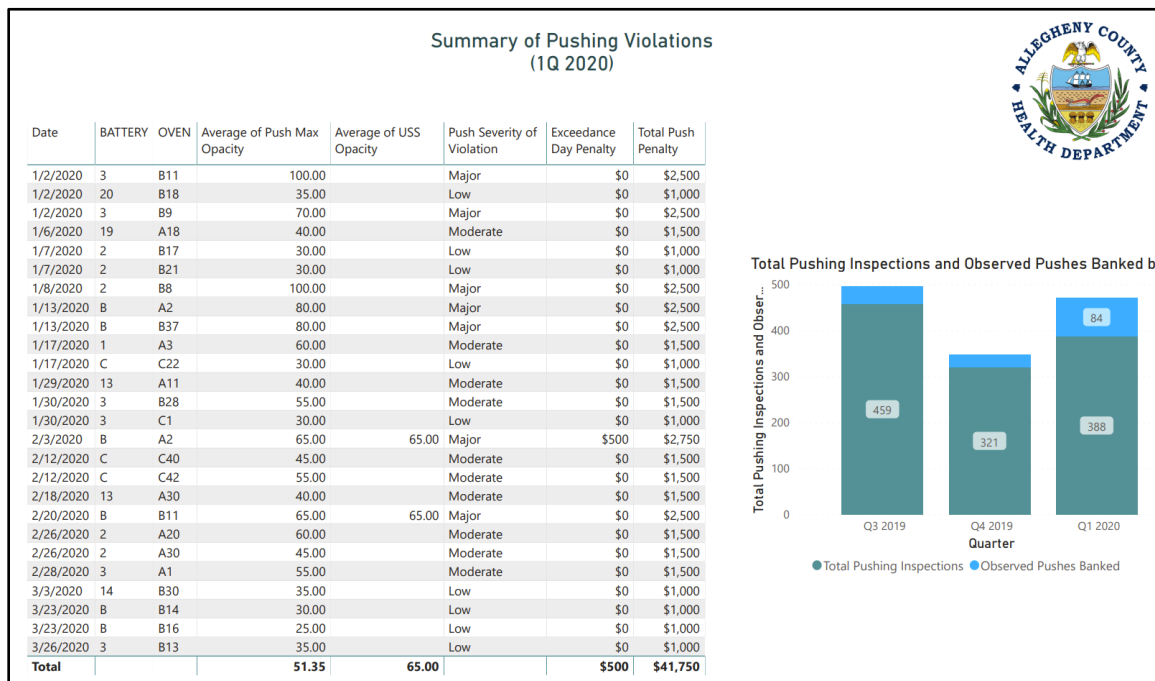


Photo 24: Modified from: *Report by Allegheny Health Department Air Quality Program (May 28, 2020), pg.18

*United States Steel Clairton Plant; Demand for Stipulated Penalties Under Settlement Agreement and Order #190604 Section IX. Stipulated Penalties October 1, 2019 through March 31, 2020 (4th and 1st Quarters)

Note: There is currently no fines issued for pushing violations at ASI.