



The Steel Company of Canada

Lake Erie Works Community Liaison Committee (CLC) Meeting

May 1, 2024



Agenda

Discussion Topics for Today's Meeting



1. Welcome
2. Review and Approval of Agenda
3. Review and Approval of Minutes of 30 January 2024 Meeting
4. Coke Battery Performance – Q1 2024
5. Fugitive Dust Management
6. Additional Updates
7. Community Feedback
8. Adjournment



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Coke Battery Performance – Method 303

Performance Review – Daily (Q1 2024)



Date	Doors (% Leaks)	Lids (% Leaks)	Off-takes (% Leaks)
2015 Thresholds (July 2 start)	54%	2%	NA
2016 Thresholds	32%	2%	NA
2017-2019 Thresholds	10%	2%	5%
2020 - 2024 Thresholds	5%	1%	4%
January 1 – March 31, 2024 Range (Average)	0 – 6.98% (1.54%)	0 – 0.63% (0.02%)	0 – 3.66% (0.36%)

Daily Measurements Performed in Q1 2024

All weekdays, except for holidays

- 1 Saturday

Q1 2024 Operational Adjustments

- 1 door adjustment

Coke Battery Performance – Method 303

Performance Review – 30-Day Rolling Avg. (Q1 2024)



Date	Doors (% Leaks)	Lids (% Leaks)	Off-takes (% Leaks)	Charging (sec) (log avg)
2015 Limits (July 2 start)	38%	0.8%	25%	12 sec
2016 Limits	22.5%	0.8%	15%	12 s
2017-2019 Limits	7%	0.8%	4.2%	12 s
2020 - 2024 Limits	4%	0.4%	2.5%	12 s
January 1 – March 31, 2024 Range (Average)	1.35 – 1.94% (1.59%)	0.00 – 0.06% (0.02%)	0.08 – 0.72% (0.35%)	2.32 – 4.93 s (3.68 s)

Q1 2024 Performance

- In compliance with current limits

Coke Battery Performance – Method 303

Performance Review – Daily Observations. (Q1 2024)



Date	Pushing Emission (opacity %)
2015 Threshold (July 2 start)	≥ 50%
2016 – 2018	≥ 50%
2019	≥ 40%
2020 - 2024	≥ 30%
January 1 – March 31, 2024 (Average)	0 – 33.33% (11.16%)

Q1 2024 Operational Adjustments

- 2 Operational Adjustments

Coke Battery Performance

Additional Items



- There were no community complaints for the period of Q1 2024 related to the Cokemaking operations
- MECP invited to provide any verbal comments

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Fugitive Dust Management

Overview



- Well-established fugitive dust management plan already in place
 - A “living” document – best management practices for continual improvement
 - Integrated in Standard Operating Procedures
- Dust mitigation practices are customized by season to address different external environmental conditions
- Stockpiles and roads are inspected on a continuous basis to determine need for dust control
- Several tools are utilized to take a proactive approach and identify impactful weather conditions (i.e. high winds) that could require mitigating action

Fugitive Dust Management

Raw Material Handling - Dock



- The Process Coordinator - Raw Materials & Dock oversees dust management of stockpiles at all times of the year
- Stockpiles generally arranged to minimize surface area that can be affected by prevailing winds
- Sufficient quantity of raw materials are shipped to the facility via boat prior to seasonal closure of the Great Lakes Seaway.
 - Cover coal piles with a crusting agent → sealant
 - Dozers and graders used to maintain appropriate pile dimensions
- In forecasted high wind conditions, operating stockpiles are suppressed with water by tanker immediately (temperature considerations)
- May include temporary cessation of operations if deemed necessary

Fugitive Dust Management

Tools For High Wind Warning Notification



- Automated email alerts when measured wind at a weather station exceeds an alert setpoints
 - Emails are sent to iron producing management and all blast furnace Shift Managers (24 x 7)
 - System is integrated with the blast furnace control room alarm server, issuing an alarm for “High Wind Warning”, monitored at all times.
- Information is immediately passed on to all Raw Material/Dock personnel via radio so they can take immediate action

The screenshot shows the website interface for the LEW Blast Furnace & Dock Department. At the top left is the 'stelCORE' logo. Below it is a navigation bar with tabs for 'General Info.', 'Logs', 'Safety', 'Mobile Equipment', 'Employee', 'Technical', 'Links', 'Training', and 'Administration'. The main content area features a welcome message and a weather data table. A red arrow points from the text 'Current weather conditions and forecast information is prominently displayed and available on our internal systems' to the weather data table.

Ambient Temp.:	1.8 °C	@ 2019-02-03 00:05
Humidex:	-5.0 °C	@ 2019-02-03 00:51
Equiv. Chill Temp.:	-7.4 °C	@ 2019-02-03 00:30
Wind Speed:	20.3 km/hr	@ 2019-02-03 00:30
Wind Direction:	232.0 °	@ 2019-02-03 00:30

[Wind Forecast \(4\\$hrs\). Internet Required.](#)

Wind, waves & weather forecast

Lake Erie / Long Point

[Maps](#) >

 **6mph**
West-Southwest

 **32°F**
Overcast

Data based on our forecast model  7:45 am  5:18 pm  1:30 pm (UTC -5)  564 ft  splocs.com



 Forecast

 Superforecast

 Webcams



















Last update: 11:38 am local time
This forecast is based on the GFS model

 Print this forecast  Embed this forecast

Local date

Thursday, Jan 19

Friday, Jan 20

Local time	1am	4am	7am	10am	1pm	4pm	7pm	10pm	1am	4am	7am	10am	1pm	4pm	7pm	10pm
Wind direction	↘	↗	↗	➤	➤	↗	↙	↙	←	←	←	←	←	▲	↗	↗
Wind speed (mph)	16	13	13	10	7	5	3	6	8	12	12	15	9	5	7	8
Wind gusts (max mph)	24	20	20	13	8	6	3	7	10	16	15	18	12	6	9	10
Cloud cover																
Precipitation type													☔	☔	☔	
Precipitation (in/3h)													0.16	0.08	0.08	
Air temperature (°F)	34	32	32	32	32	34	32	32	32	32	34	36	34	36	37	37
Air pressure (inHG)	29.44	29.44	29.44	29.5	29.44	29.41	29.41	29.38	29.32	29.26	29.18	29.15	29.12	29.12	29.15	29.15

Fugitive Dust Management

Raw Material Fields



- Managed by a sprinkler system, typically used in conjunction with water tankers for dust suppression
- In 2016 we developed a sprinkler system for coal field with input from community stakeholders
 - System was installed with 3 towers
- More recently, expanded system to include 7 towers and is controlled via a computer system PLC



Fugitive Dust Management

In-Plant Roads & Fields



- Dust control on plant roadways & storage field vary based on seasonal conditions
- Internal visual inspection of roadways and related areas are conducted daily
- The method chosen to manage the dust is dependent on the type of road and traffic volumes



Fugitive Dust Management

In-Plant Paved Roads



- Dust from paved roads are managed on a regular basis
 - Dust management practices include road sweeping, water flushing (temperature-permitting), and limiting vehicle speed



- In early 2020 Stelco purchased a Regenerative Sweeper Truck for year-round road dust control.
- The vacuum action of this unit requires no water, allowing for use in freezing temperatures that traditional sweepers cannot operate in.



- Additionally, road sweeping contractors supplement our work force when required
- Road flusher trucks can also be used in combination with a Road Sweeper or independently on heavier traffic roads and/or areas.

Fugitive Dust Management

Future enhancements



- We are continuously seeking to enhance our dust management measures



- A new water tanker fill water pump system was recently purchased
- The portable new pump system ensures a quick and reliable means of filling our water tanker fleet.
- The new pump is capable of filling our water tanker within two minutes.



- We are also in the process of acquiring a new water tanker – arriving in early 2025

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- Additional feedback received in Q1 2024:
 - Dust
- Applying for a Site Wide Air Environmental Compliance Approval (ECA) with Limited Operational Flexibility (LOF) Application
 - Would replace all the current ECAs for air and noise at this facility
 - This application is not proposing to add any new emission sources but to consolidate the existing ones
 - ECAs with LOFs permit certain modifications to the facility subject to limits on operational flexibility that include a production limit for the facility to be specified in the approval
 - Would streamline the process necessary for implementing certain process changes
 - The proposal can be found at: <https://ero.ontario.ca/notice/019-8415>
- 2024 CLC Meeting Schedule
 - ~~Wed. Jan. 31~~
 - ~~Wed. May 1~~
 - Wed. July 31
 - Wed. Oct. 9

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