



The Steel Company of Canada

**Lake Erie Works
Community Liaison Committee Meeting
Q2 2020**

12 August 2020

Agenda

1. Introductions
2. COVID-19 Update
3. Performance under O.Reg. 419/05 Site Specific Standard Order – Particulates
4. By-Products Energy Recovery Electricity Generation Project Update
5. Additional Capital Projects Updates
6. Community Feedback
7. Adjournment

COVID-19 Update

- On-going vigilant efforts at Stelco, continually monitoring changes in best practices and regulations, and their impact on the safety of our employees, our operations and our customers and suppliers
- Examples:
 - Employees working from home where feasible and only essential contractors and visitors allowed into the facilities to reduce exposure
 - Restrictions on travel & face-to-face meetings
 - Regular communication with contractors, trucking companies & pre-screening visitors
 - Increased cleaning and disinfecting of areas as well as supplies
 - Increased hand sanitizer and additional portable hand washing stations throughout the facilities
 - Enforcing physical distancing and managing jobs with proper PPE or physical barriers where distancing isn't possible
 - Staggering shift start times, breaks and lunches, and changing schedules to reduce risk of exposures
 - Requirement to wear face protection (masks) when physical distancing can't be maintained
- Continued monitoring of Public Health recommendations, industry best practices, and ongoing review of new products and technology that is being offered during COVID-19

Site-Specific Standard Order (Particulates): Performance Review – Daily During Rehabilitation Project (Apr – Jun 2020)

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 Thresholds	5%	1%	4%
Apr 1– Jun 30, 2020 Range (Average)	0.0 – 7.90% (2.58%)	0.0 – 1.32% (0.06%)	0.00 – 16.7% (5.53%)

Daily Measurements Performed 2020

- All weekdays, except for holidays
- 4 Saturdays
- 3 Sundays

Apr 1 to Jun 30 Operational Adjustments

- 32 operational adjustments for offtakes
- 11 operational adjustments for doors
- 3 operational adjustments for lids

These results not reflective of typical performance due to significant battery rehabilitation.



Site-Specific Standard Order (Particulates): Performance Review – Daily (July 2020)

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 Thresholds	5%	1%	4%
Jul 1 – Jul 31, 2020 Range (Average)	0.0 – 2.63% (0.83%)	0.0 – 0.0% (0.0%)	0.00 – 5.26% (1.67%)

- In light of COVID-19 impact on global and domestic economies, Stelco deferring future rehabilitation work on coke battery; expects to provide project status update in 2021.
- An updated environmental management plan for the half of the battery currently in operation has been developed and implemented.

Jul 1 to Jul 31 Operational Adjustments

- 1 operational adjustment for offtakes

Site-Specific Standard Order (Particulates): Performance Review – 30 Day Rolling Averages During Rehabilitation Project (Apr – June 2020)

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 Limits	4%	0.4%	2.5%	12 s
Apr 1 – Jun 30, 2020 Range (Average)	1.50 – 4.51% (3.20%)	0.00 – 0.13% (0.07%)	0.61 – 11.90% (7.61%)	6.3 – 8.1s (7.6s)

April 1 – June 30, 2020 Performance

- Ministry of Environment approved Stelco's plan to minimize emissions during rehabilitation program

These results not reflective of typical performance due to significant battery rehabilitation.



Site-Specific Standard Order (Particulates): Performance Review – 30 Day Rolling Averages (July 2020)

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 Limits	4%	0.4%	2.5%	12 s
Jul 1 – Jul 31, 2020 Range (Average)	0.43 – 1.33% (0.86%)	0.00 – 0.00% (0.00%)	0.87 – 1.57% (1.23%)	6.3 – 8.27s (7.5s)

July 1 – July 31, 2020 Performance

- In compliance with 2020 limits

Site-Specific Standard Order (Particulates): Performance Review – Daily Observations – During Rehabilitation Project (Apr -June 2020)

Date	Pushing Emission (opacity %)
2015 Threshold (July 2 start)	$\geq 50\%$
2016 – 2018	$\geq 50\%$
2019	$\geq 40\%$
2020	$\geq 30\%$
Apr 1 – Jun 30, 2020 Range (Average)	0 – 65.00% (6.24%)

April 1 – June 30, 2020 Operational Adjustments

- 1 operational adjustment (increased gas flow to raise temperature in Oven #38)

These results not reflective of typical performance due to on-going significant battery rehabilitation.

Site-Specific Standard Order (Particulates): Performance Review – Daily Observations (July 2020)

Date	Pushing Emission (opacity %)
2015 Threshold (July 2 start)	$\geq 50\%$
2016 – 2018	$\geq 50\%$
2019	$\geq 40\%$
2020	$\geq 30\%$
Jul 1 – Jul 31, 2020 Range (Average)	0 – 70.00% (9.38%)

July 1 – July 31, 2020 Operational Adjustments

- 2 operational adjustments for this period due to cold wall temperatures for:
 - Ceramic welding repairs
 - Sticker removal

Site-Specific Standard Order (Particulates): Performance Review – Additional Items

- There were no community complaints for the period of Q2 2020 related to the Site-Specific Standard
- Additional
 - 2 noise inquiries
 - One inquiry related to backup safety alarm of material handling vehicle
 - One inquiry was determined not to be related to Stelco operations
- MECP to provide verbal comments

By-Products Energy Recovery Electricity Generation Project Update

- Stelco has entered into an agreement with DTE Energy Services, Inc. for the development, construction and operation of a 65 MW By-Product Energy Recovery Electricity Generation Facility Project at LEW (previously discussed with the CLC and described as a cogeneration project)
- Utilize existing excess by-product gases from Stelco's operations that have recoverable energy value, specifically blast furnace gas and coke oven gas that would otherwise be flared into the atmosphere, to generate electricity on-site for use internally.
 - Steam turbine generator and cooling tower will be built to harness the energy from these gases and keep the facility cool
 - Transformer station and transmission line will convert the electricity into a useable form and transport the electricity that is generated

By-Products Energy Recovery Electricity Generation Project Update (cont'd)

- Stelco has prepared a Declaration Order Request to the MECP that the transformer station not be required to undergo a Class Environmental Assessment for Minor Transmission Facilities (Class EA for MTF)
 - Rationale: The processes, permits and approvals that are already required through other MECP requirements, would be duplicated through the full Class EA for MTF process which would result in delays to the Project schedule
 - This Project has minimal to no effect on changes to the environment and surrounding community. It would also decrease the plant's reliance on the provincial electrical grid, therefore reducing LEW's Scope 2 (indirect) greenhouse gas emissions

By-Products Energy Recovery Electricity Generation Project Update (cont'd)

- Construction of certain parts of the project launched in July 2020 with the Plant expected to be operational in the first half of 2022
 - Transformer station by Spring 2021
- If you have questions or comments regarding the By-Products Energy Recovery Electricity Generation Project please contact Petar Kolundzija at petar.kolundzija@stelco.com

Additional Capital Projects Updates

- Blast Furnace Outage
 - We commenced the blast furnace outage on July 18, 2020
 - 75-days long project, including blast furnace re-line
 - Active and on-going planning and management to ensure health and safety of all workers, including COVID 19 precautions
- Pig Caster Project
 - Cast excess pig iron into ingots and sell to other steelmakers and/or utilize internally
 - Anticipate operation to be up and running prior to year end

Community Feedback

Next Meeting

- Wed. Nov. 4, 2020



The Steel Company of Canada

Thank You.

stelco.com