



The Steel Company of Canada

Lake Erie Works Community Liaison Committee (CLC) Meeting

July 27, 2022



Agenda

Discussion Topics for Today's Meeting



1. Welcome
2. Review and Approval of Agenda
3. Review and Approval of Minutes of 20 April 2022 Meeting
4. Cokemaking Rehabilitation Project - Summary
5. Coke Battery Performance since Re-Start
6. Tree Planting Project – Summary
7. Existing On-site Landfill Expansion – ECA Amendment Application
8. Community Feedback
9. Adjournment



Agenda

Discussion Topics for Today's Meeting



1. Welcome
2. Review and Approval of Agenda
3. Review and Approval of Minutes of 20 April 2022 Meeting
4. **Cokemaking Rehabilitation Project - Summary**
5. Coke Battery Performance Since Re-Start
6. Tree Planting Project – Summary
7. Existing On-site Landfill Expansion – ECA Amendment Application
8. Community Feedback
9. Adjournment



Coke Battery Rehabilitation Project

Summary



- In July 2019, we commenced the rehabilitation of the LEW coke battery by idling one half of the battery and preparing the ovens for repair and related demolition work
- During the first quarter of 2021, the Company ceased its coke production at LEW to proceed with an expanded project to rehabilitate the coke battery, which includes upgrading the LEW coke oven end flues
- Cokemaking operations resumed safely on April 19, 2022
- Rehabilitation environmental highlights:
 - Water seal caps – enhanced system to prevent emissions from standpipe lids
 - New doors for each coke oven – tight seals to minimize potential leaks during coking
 - Rehabilitated battery bracing system – Returning to OEM dimensional specifications ensures proper battery machinery alignment
 - Utilizing "Big Block" refractory technology – least possible oven joints to prevent cross wall leakage
 - New off gas collector mains with "compensator slip joints" – eliminating raw gas visible emissions
 - Installation of new Battery Heating Control Logic Computer - Introduction of shift to shift stability to minimize operating swings

Coke Battery Rehabilitation Project

Summary (cont'd)



- Photos of project highlights to be presented by Peter Schiestel, Division Manager - Cokemaking

Agenda

Discussion Topics for Today's Meeting



1. Welcome
2. Review and Approval of Agenda
3. Review and Approval of Minutes of 20 April 2022 Meeting
4. Cokemaking Rehabilitation Project - Summary
5. **Coke Battery Performance since Re-Start**
6. Tree Planting Project – Summary
7. Existing On-site Landfill Expansion – ECA Amendment Application
8. Community Feedback
9. Adjournment



Coke Battery Performance – Method 303

Performance Review – Daily (May 19 – June 2022)



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 - 2022 Thresholds	5%	1%	4%
May 19– June 30, 2022 Range (Average)	0.0 – 3.41% (0.32%)	0.0 – 1.25% (0.06%)	0.00 – 9.76% (1.59%)

Daily Measurements Performed since May 19

- All weekdays, except for holidays
- 3 Saturdays
- 1 Sunday

May 19 to June 30 Operational Adjustments

- 6 operational adjustments for offtakes
- 1 operational adjustment for lids

These results may not reflect typical performance due to the coke battery resuming operations recently after the rehabilitation project

Coke Battery Performance – Method 303

Performance Review – 30-Day Rolling Avg. (June 28-June 30,2022)



Since the coke battery resuming operations recently after the rehabilitation project, the first day in which the 30-day rolling average data was collected was June 28, 2022

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 - 2022 Limits	4%	0.4%	2.5%	12 s
June 28-30, 2022 Range (Average)	0.22 – 0.34% (0.26%)	0.02 – 0.06% (0.05%)	1.30 – 1.70% (1.54%)	4.88 - 5.04s (4.94 s)

June 28-30 Performance

- In compliance with current limits

These results may not reflect typical performance due to the coke battery resuming operations recently after the rehabilitation project

Coke Battery Performance – Method 303

Performance Review – Daily Observations. (May 19 – June 30, 2022)



Date	Pushing Emission (opacity %)
2015 Threshold (July 2 start)	≥ 50%
2016 – 2018	≥ 50%
2019	≥ 40%
2020 - 2022	≥ 30%
May 19 – June 30, 2022 Range (Average)	0 – 23.33% (4.18%)

May 19 - June 30 Operational Adjustments

- None required

Coke Battery Performance

Additional Items



- There were no community complaints for the period of Q2 2022 related to the cokemaking operations
- MECP invited to provide any verbal comments

Agenda

Discussion Topics for Today's Meeting



1. Welcome
2. Review and Approval of Agenda
3. Review and Approval of Minutes of 20 April 2022 Meeting
4. Cokemaking Rehabilitation Project - Summary
5. Coke Battery Performance since Re-Start
6. **Tree Planting Project – Summary**
7. Existing On-site Landfill Expansion – ECA Amendment Application
8. Community Feedback
9. Adjournment



Tree Planting Plan

Overview



- Stelco partnered with Forests Ontario to plant over 24,000 trees at Lake Erie Works in May 2022
- The next slides provide an overview of the afforestation and windbreak planting



Tree Planting Plan

Recap



- Create natural buffers that can also capture fugitive particulate matter over time
- Protect groundwater, reduce surface run-off and contribute to vital natural ecosystem services
- Trees planted would sequester significant amounts of carbon over their lifetime
- Species selected based on expert advice of Forests Ontario
 - Include mixture of conifer and hardwood
- Combination of machine and hand planting
- Planting quality assessment and survival assessments will be completed over time

Tree Planting

East Side Afforestation



Tree Planting

South Side Windbreak



Tree Planting

Photos of Planting Program



Tree Planting

Photos of Planting Program



Agenda

Discussion Topics for Today's Meeting



1. Welcome
2. Review and Approval of Agenda
3. Review and Approval of Minutes of 20 April 2022 Meeting
4. Cokemaking Rehabilitation Project - Summary
5. Coke Battery Performance since Re-Start
6. Tree Planting Project – Summary
7. Existing On-site Landfill Expansion – ECA Amendment Application
8. Community Feedback
9. Adjournment



Existing On-site Landfill Expansion

Environmental Compliance Approval Amendment Application



- This is separate from the Environmental Assessment process underway for the Quarry Landfill Expansion Project
- Former limestone quarry at the west end of the Lake Erie Works Facility, since 1984 approved for onsite storage of ironmaking and steelmaking non-hazardous secondary materials that cannot be recycled or reused
- The existing approved capacity of the site is 1,300,000 m³; nearing its capacity
- Seeking MECP approval for limited vertical expansion to allow for approximately 1 additional year of capacity
- A minor change that would not affect the operation of the site
 - Environmental performance and monitoring requirements would remain in place
- Notification of this application to the MECP to be mailed or emailed to adjacent neighbours



Agenda

Discussion Topics for Today's Meeting



1. Welcome
2. Review and Approval of Agenda
3. Review and Approval of Minutes of 20 April 2022 Meeting
4. Cokemaking Rehabilitation Project - Summary
5. Coke Battery Performance since Re-Start
6. Tree Planting Project – Summary
7. On-site Landfill Expansion – ECA Amendment Application
8. **Community Feedback**
9. Adjournment



Agenda

Discussion Topics for Today's Meeting



1. Welcome
2. Review and Approval of Agenda
3. Review and Approval of Minutes of 20 April 2022 Meeting
4. Cokemaking Rehabilitation Project - Summary
5. Coke Battery Performance since Re-Start
6. Tree Planting Project – Summary
7. On-site Landfill Expansion – ECA Amendment Application
8. Community Feedback
9. **Adjournment**





The Steel Company of Canada