



Community Liaison Committee Meeting #36

March 2021

Agenda

1. Review of Dec. 8th, 2020 meeting notes
2. Membership Items and Terms of Reference
3. Site Specific Standards / Technical Standards
4. Environmental Compliance Approval updates
5. Legacy Environmental Action Plan
6. Public Complaints
7. Next Meetings

Membership Items

Current Members and Alternates

Representation

Algoma Steel
Ministry of Environment, Conservation & Parks
Public
Public
SSM Tribe of Chippewa Indians
Algoma Public Health
Chippewa County Health Dept.
Batchewana First Nations
City of Sault Ste. Marie
United Steel Workers Local 2251
St. Mary's River RAP Coordinator

Primary Member

Fred Post
Lori Greco
David Trowbridge
Jillian Marquis
Kathie Brosemer
Kara Flannigan
Steve Carey
Dan Sayers Jr.
Catherine Taddo
Wayne Hubbard
Lisa Derickx

Alternate

Chris Galizia
Ron Dorscht
Peter McLarty
Suzanne Lieurance
Chris Spooney
Maggie McAuley
Dennis Gagne

CLC Terms Of Reference

- An updated Terms of Reference was circulated for comments on February 1st and a final version was provided on February 11th.

Site Specific Standards for Particulate and BaP

- On March 27th, 2015 Algoma received a Site Specific Standard (SSS) for Particulate which sets specific emission limits in cokemaking. Expiry of the SSS has since been extended to June 2023 to allow enough time for a technical standard to be developed and for facilities to register. The rules and leak limits remain the same, but have been incorporated into a cokemaking Environmental Compliance Approval which requires:
 - Certified observers (per EPA Method 9 and Method 303)
 - 5 days per week, 10 Saturdays and 10 Sundays each year
 - Must observe daily per battery: 4 pushes, 5 charges, all lids, all doors, and all standpipes
 - Must make operational adjustments if over the daily limits and notify MECF

Cokemaking Emissions Performance – 100% compliance

Identifies Key Performance Indicators related to Cokemaking Emissions:

- average intensity of pushing emissions
- average duration of charging emissions
- % lid leaks
- % off-takes leaks
- % door leaks

Conformance calculated daily for each battery

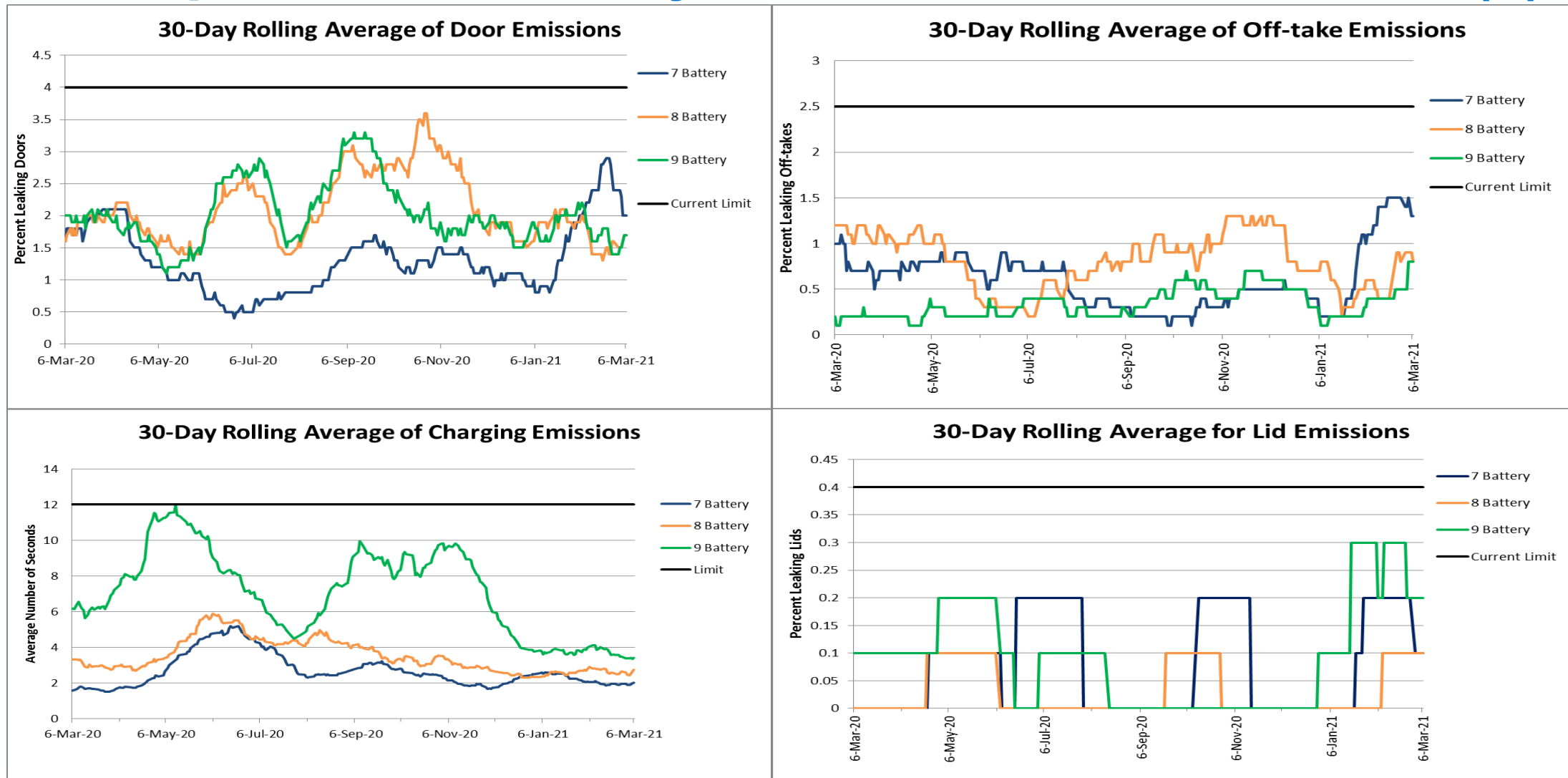
New limits introduced July 2015. Progressive, annual reduction.

Implementation Date	30 day rolling average %			Charging Emission	Pushing Opacity (%)
	Doors	Lids	Off-takes		
July 2, 2015	38	0.8	25	12 sec	50
Jan 1, 2016	22.5	0.8	15	12 sec	50
Jan 1, 2017	7	0.8	4.2	12 sec	50
Jan 1, 2019	7	0.8	4.2	12 sec	40
Jan 1, 2020	4	0.4	2.5	12 sec	30



Algoma Steel is meeting the current limits on all three batteries.

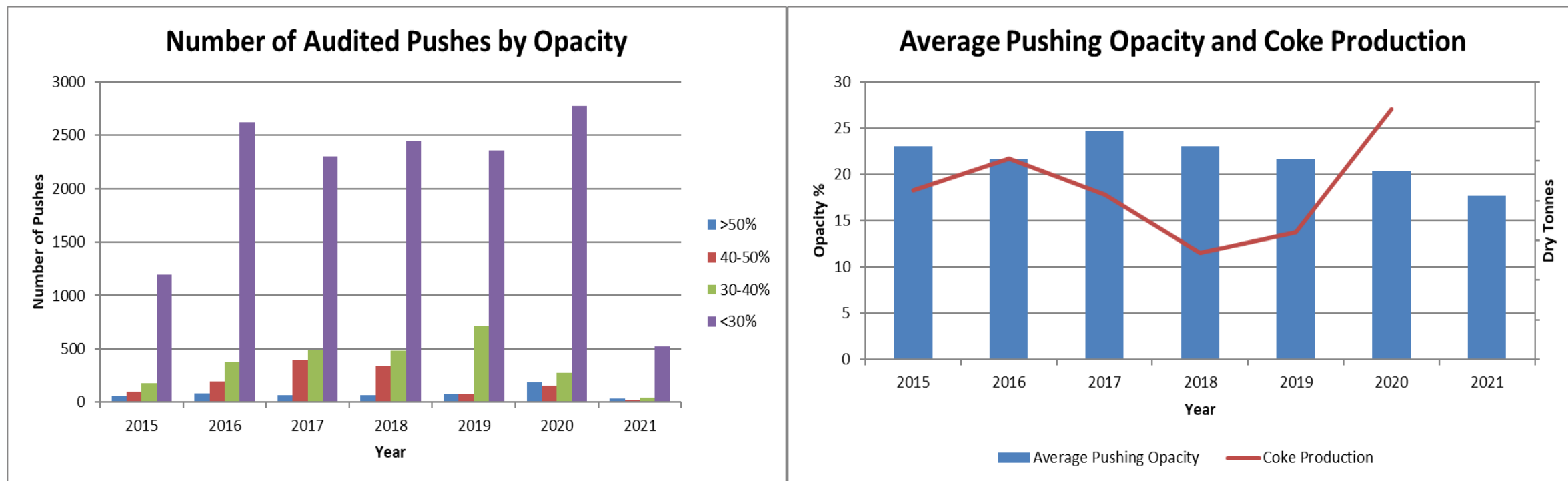
Site Specific Air Quality Standard - Particulate & B(a)P



Algoma is operating below the limit for all parameters.

Site Specific Air Quality Standard - Particulate & B(a)P

Pushing Opacity



Notes:

- 2015 data begins on July 2nd when the SSS came into force
- 2021 data includes Jan 1, 2021 to date
- Number of audits per year vary based on changing operating conditions



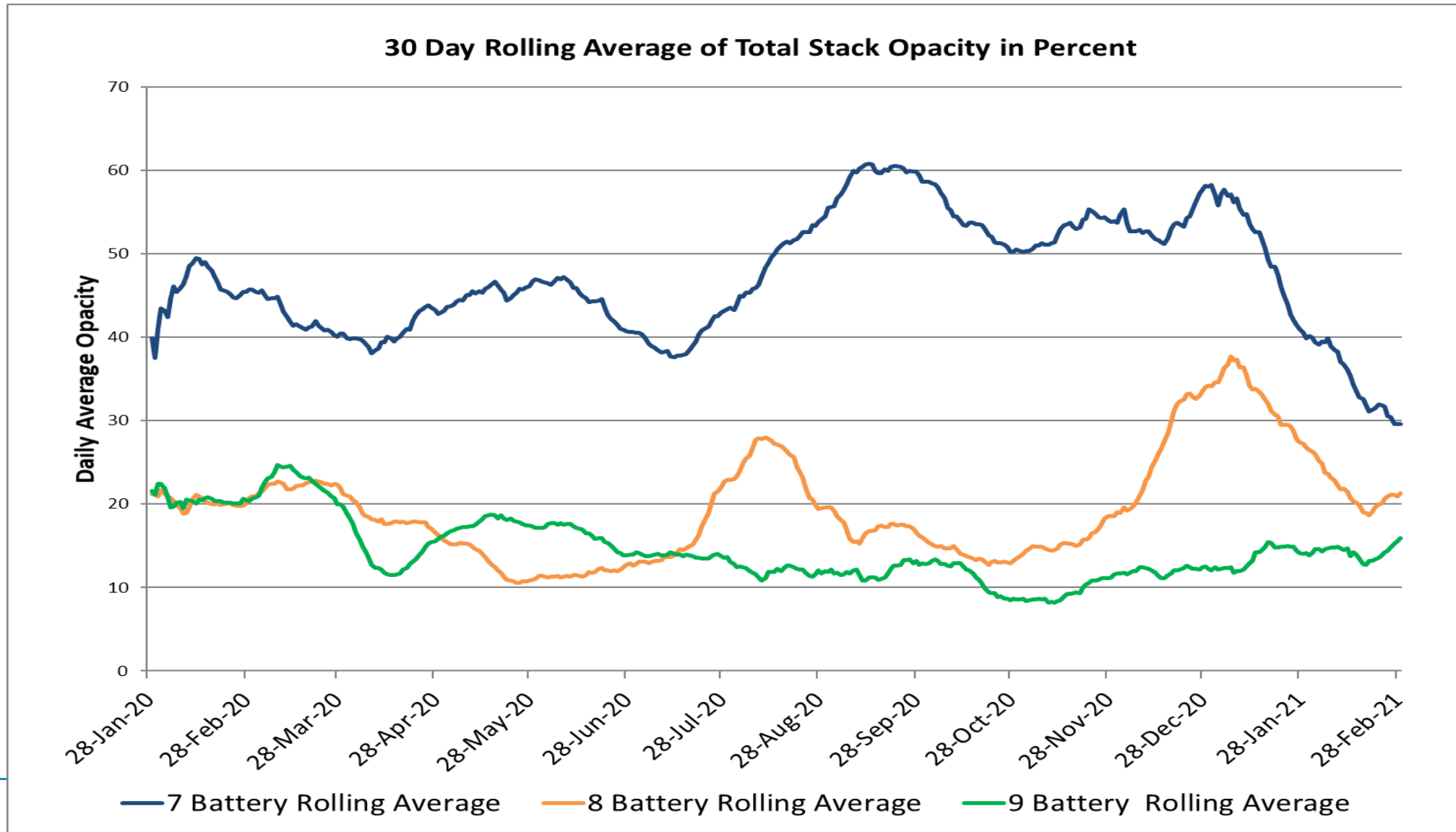
To date all corrective actions have been successful at reducing pushing opacity below the limit.

Cokemaking Stack Opacity

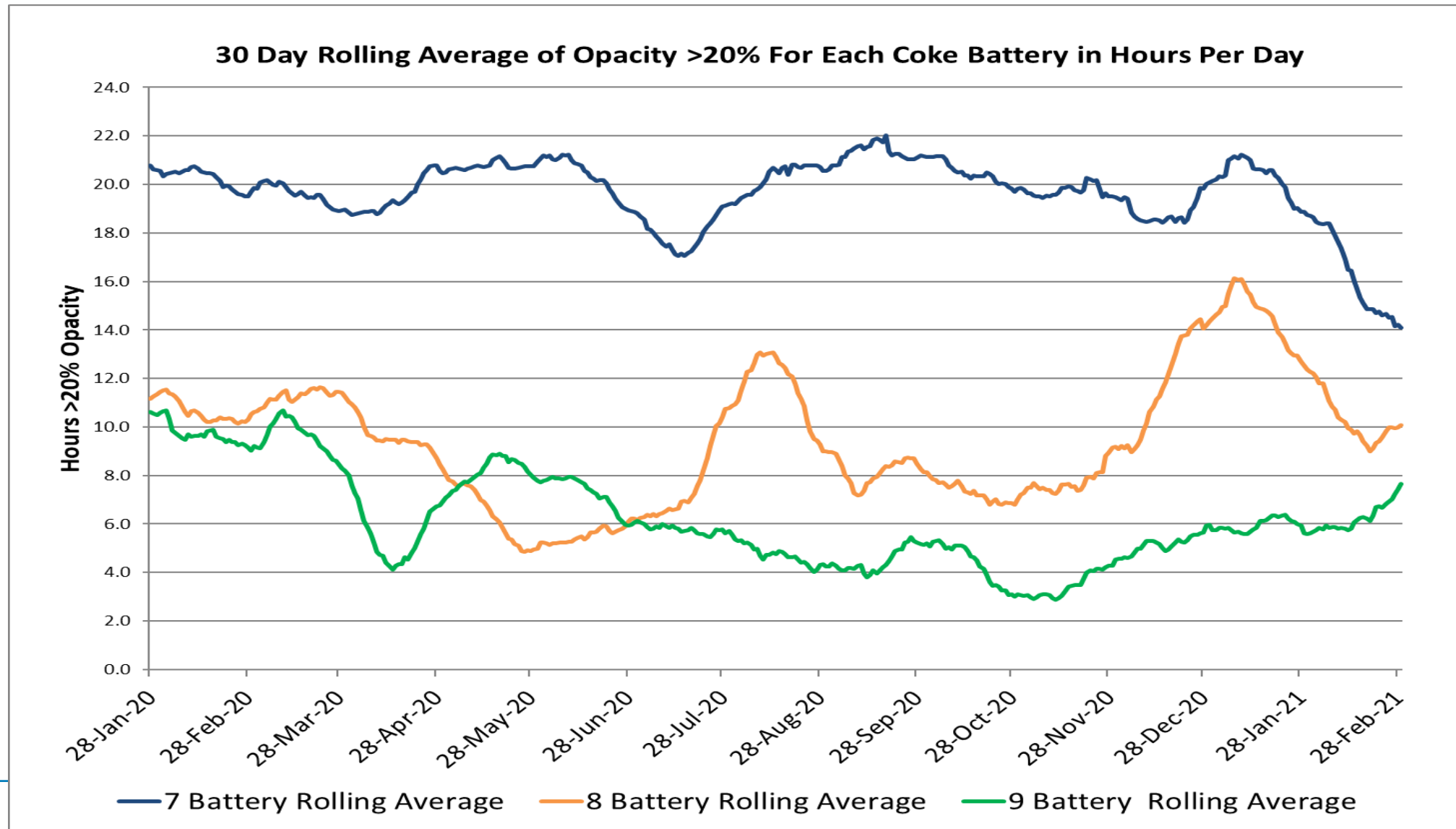
We have adopted a two-pronged approach to improving stack opacity. Efforts to date are showing positive results:

1. Replacing aging infrastructure and thoroughly inspecting and repairing oven masonry conditions. This minimizes gas leakage from the ovens to the flues and reduces stack opacity.
2. Implementing a thorough and methodical gas system inspection and correction program. This ensures clean gas is supplied, unrestricted to the batteries, allowing optimal combustion control and improving overall battery heating and stack opacity.

Cokemaking Stack Opacity Performance – Average Opacity



Cokemaking Stack Opacity Performance – Average Opacity Duration >20%



Technical Standard

Regulatory Instrument to replace existing SSS's

- A new integrated steelmaking industry Technical Standard for multiple air contaminants is under development
- Contaminants include: Suspended Particulate Matter, B(a)P, Benzene, Sulfur Dioxide, Total Reduced Sulfur and Manganese
- The MECP has circulated a draft rationale document to the working group for review and comment

Algoma Steel participating in MECP led working groups focusing on:

- Fugitive metal/particulate emissions from on-site roadways; steel-making; slag management;
- Identifying current emission sources and air pollution controls to ensure no back-sliding;
- Expanding Leak Detection And Repair (LDAR) programs in by-product plants for benzene;
- Coke oven gas de-sulphurization (Federally required by January 1, 2026);
- Development of an Ontario-based cokemaking emission auditor training and certification program;
- Completing a jurisdictional review of best available emission control techniques globally;
- Industry economic overview and economic feasibility assessment (industry led);
- Development of trigger mechanisms to facilitate a review of the appropriateness of the Technical Standard every 7-8 years

Environmental Compliance Approvals

There are currently no applications for new environmental compliance approvals.

LEAP - Addressing Legacy Environmental Issues

Legacy Environmental Action Plan (LEAP)

- The LEAP is a risk-based environmental management plan with the objectives of identifying, assessing, managing and mitigating off-site adverse environmental effects caused by Legacy Environmental Contamination at the Site.
- Targeted annual investment - \$3.8 million; totaling \$79.8 million over 21 years

\$4.4 million in projects have are planned for 2021 including the following :

- Refurbish #7 Tank for future Groundwater Collection System (**~60% complete**)
- Design Base Line Road Ditch Water Treatment Facility (**Underway**)
- Carbon capture and storage testing (**Underway**)
- Extrusion briquetting testing (**Underway**)
- Boat Slip Sediment Study to develop a rehabilitation target for sediment quality criteria (**Underway**)
- Boat slip dredging (**Planned**)
- Expanding the site wide baseline hydrogeological investigation (**Planned**)
- Design Oil Water Separator and Groundwater Collection System (**Planned**)
- Design Dirt / Oil / Water Separator for Vacuum Truck Dumping (**Planned**)
- Designing groundwater collection and treatment systems (**Planned**)
- Tank Bottom Clean-out (#1 & #5 Tanks) (**Planned**)
- Surface stabilization, ground and surface water management and revegetation (**Planned**)

Public Complaints

There were no public complaints received since the last CLC meeting that related to matters addressed in the SSS Order.

The following public complaints were received by the company since the last CLC:

- 1 Odour/Particulate – Caused by blast furnace shutdown
- 2 Noise – Caused by boiler malfunction at Conmee Avenue Facility

NEW – A new boiler was installed at the Conmee Avenue Facility to prevent noise

An internal investigation into each public complaint is conducted and a report is submitted to the MECP and a summary is listed on the company website.

Next Meetings

- Proposed 2021 Schedule:
 - June 8th, 2021
 - Sept 14th, 2021
 - Dec 14th, 2021