



U. S. Steel Canada Inc.

Lake Erie Works Community Liaison Committee

December 16 2015

John Benson

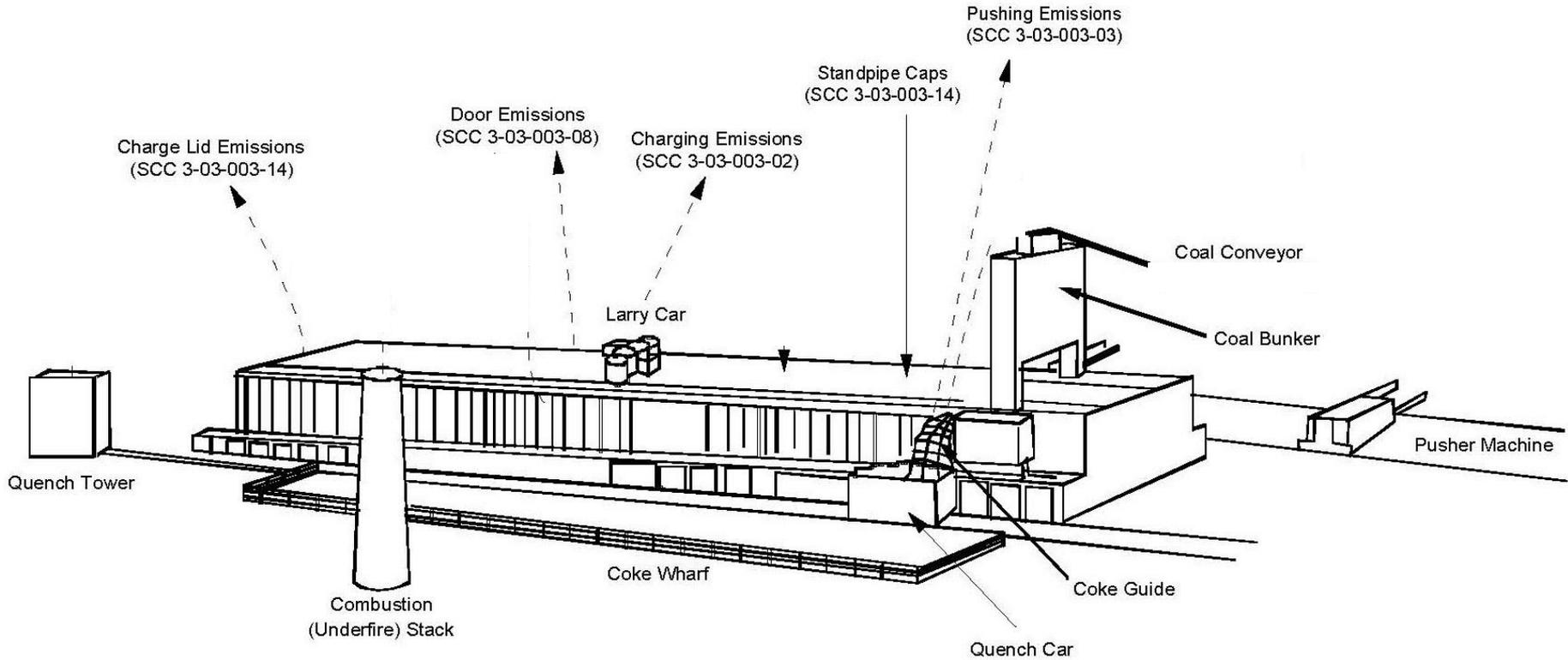


Agenda

- 1. Introduction.***
- 2. What are Coke Oven Emissions?***
- 3. How has LEW done under the new rules of Reg. 419 (Site Specific Standard Order – Particulates)?***
- 4. What new regulations are coming?***
- 5. What are the concerns and issues?***
- 6. Adjournment***







---▶ Emission stream



Summary of Order Requirements for Leaks and Charging

- Weekday counts using US EPA Method 303 + some weekends
- Do an Operational Adjustment (OA) if a daily limit is exceeded
- Notify the MOECC of any OA's in a 7 day period
- Report to MOECC any exceedences of 30 day rolling limits

Summary of Order Requirements for Pushing

- Weekday opacity assessment of 4 consecutive ovens using US EPA Method 9 + some weekends
- Notify MOECC when a day's observations are missed
- Do an OA if a an oven exceeds opacity limit
- Notify MOECC if an oven has not been re-assessed as being <limit in 15 days
- Get an approved plan from MOECC if not re-assessed as being <limit in 30 day



Daily Observations - Coke Battery

Report Card – Leaks and Charges

Date	Doors (% Leaks)	Lids (% Leaks)	Off-takes (% Leaks)
2015 Limits (July 2 start)	54%	2%	NA
2016 Limits	32%	2%	NA
2017-2019 Limits	10%	2%	5
2020 Limits	5%	1%	4
July 2 – Dec 1, 2015 Range Average	0 – 15.1% (3.42%)	0 – 2.5% (0.10%)	0 – 11.3% (2.98%)

All daily measurements were performed, including:

- All weekdays, except for holidays
- 10 Saturdays (Ytd = 4) and 10 Sundays (Ytd = 4)
- There was 1 exceedence - for Lids (2.5%)
 - Operational adjustment conducted – apply sealant to leaking lids



30-Day Rolling Averages - Coke Battery

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 sec
2017-2019 Limits	7%	0.8%	4.2%	12 sec
2020 Limits	4%	0.4%	2.5%	12 sec
July 2 – Dec 1, 2015 Range Average	2.34 – 4.84% 3.09%	0.02 – 0.56% 0.16%	2.54 – 3.40% 2.93%	6.0 – 8.4 sec 7.1 sec

There were no 30-day average exceedences.

Report Card –
Leaks and Charges



Daily Observations – Pushing - Coke Battery

Report Card – Pushing

Date	Pushing Emission (opacity %)
2015 Limit (July 2 start)	≥ 50%
2016 – 2018	≥ 50%
2019	≥ 40%
2020	≥ 30%
July 2 – Dec. 1, 2015 Range Average	0 – 49.2% 19.52%

All required Pushing measurements were performed with the exception of 2 days as follows:

- 1.) One due to broken level bar in the oven.
- 2.) One occurred when the plant downturn ran in dark hours.



New regulations that are coming to Lake Erie Works - Site Specific Standards

Benzo[a]Pyrene

- controls are similar to the SSS - Particulates
- B[a]P is attached to particulates
- controlled by visible emission observations limits

Benzene

- expansion of the Leak Detection and Repair program
- identification of other sources of fugitive benzene emissions



Questions and Answers



Adjournment

**Thank You for taking time to be part of
the Lake Erie Works
Community Liaison Committee**