



U. S. Steel Canada Inc.

# Lake Erie Works Community Liaison Committee

*June 17, 2016*

John Benson

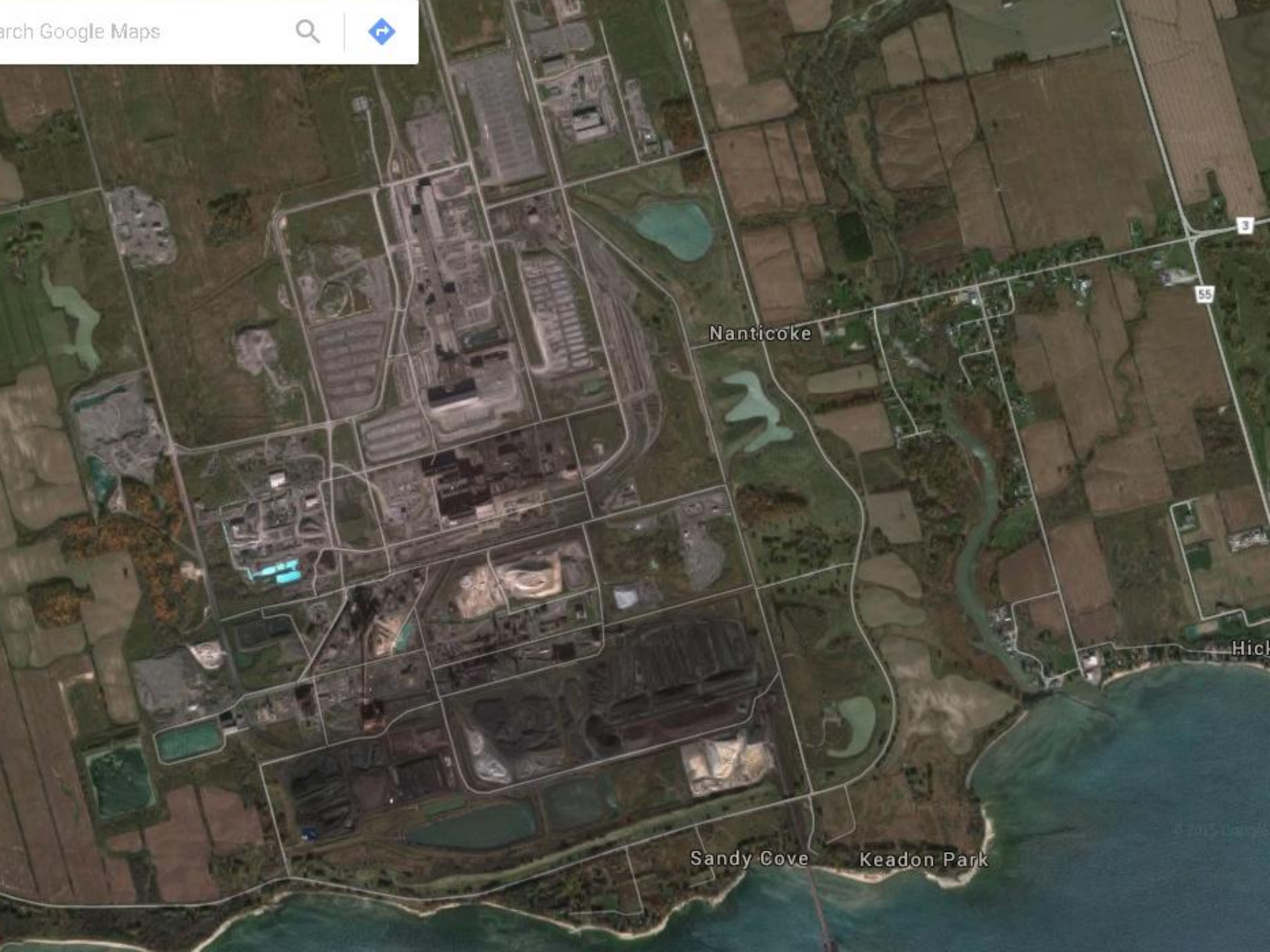


## Agenda

1. *Introductions*
2. *Coke Oven Emissions Overview*
3. *How has LEW performed under the Site Specific Standard Order – Particulates?*
4. *Site-Specific Standard – Benzene and Benzo[a]pyrene*
5. *Community Feedback*
6. *Adjournment*







Nanticoke

Sandy Cove

Keadon Park

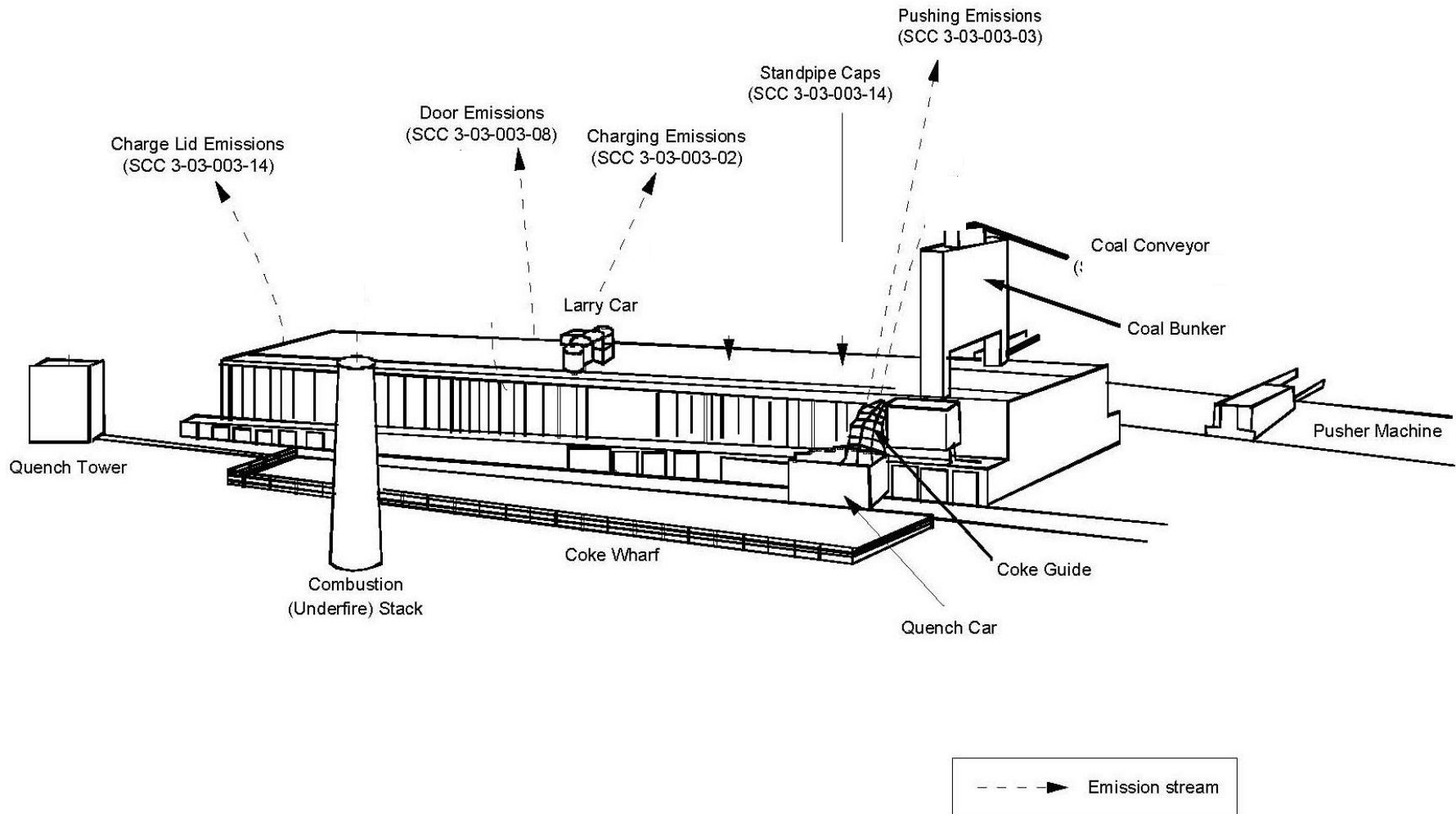
Hick







# Cokemaking Overview







# Summary of Site-Specific Standard Order

## **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

## **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



# Site-Specific Standard Order Report Card

## Daily Observations - Coke Battery

### Leaks and Charges

| Date  | Doors<br>(% Leaks)            | Lids<br>(% Leaks)           | Off-takes<br>(% 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                            |
| <b>January 1 – June 1, 2016<br/>Range<br/>Average</b> | <b>0 – 18.60%<br/>(5.04%)</b> | <b>0 – 1.2%<br/>(0.09%)</b> | <b>0 – 6.90%<br/>(3.03%)</b> |

All daily measurements were performed, including:

- All weekdays, except for holidays
- 10 Saturdays (Ytd = 3) and 10 Sundays (Ytd = 5)
- There were no exceedences during this time period





# Site-Specific Standard Order Report Card (cont'd)

## 30-Day Rolling Averages - Coke Battery

### Leaks and Charges

| Date  | Doors<br>(% Leaks)                  | Lids<br>(% Leaks)                   | Off-takes<br>(% Leaks)             | Charging (sec)<br>(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                                 |
| <b>January 1 – June 1, 2015</b><br><b>Range</b><br><b>Average</b> | <b>3.80 – 5.94%</b><br><b>3.80%</b> | <b>0.00 – 0.16%</b><br><b>0.08%</b> | <b>2.59 – 3.61%</b><br><b>3.0%</b> | <b>6.2 – 8.0 sec</b><br><b>7.1 sec</b> |

There were no 30-day average exceedences.



# Site-Specific Standard Order Report Card (cont'd)

## Pushing

### Daily Observations – Pushing - Coke Battery

| Date  | Pushing Emission (opacity %) |
|---|------------------------------|
| 2015 Limit (July 2 start)                             | ≥ 50%                        |
| 2016 – 2018   | ≥ 50%                        |
| 2019  | ≥ 40%                        |
| 2020  | ≥ 30%                        |
| <b>January 1 – June 1, 2015<br/>Range<br/>Average</b> | <b>0 – 43.3%<br/>6.99%</b>   |

All required Pushing measurements were completed.

### Operational Adjustments Report:

There were no exceedences this period, hence no operational adjustments were conducted.





## 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



## **Adjournment**

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