



**LAKE ERIE WORKS
COMMUNITY LIAISON COMMITTEE MEETING**

6 October 2016



U. S. Steel Canada

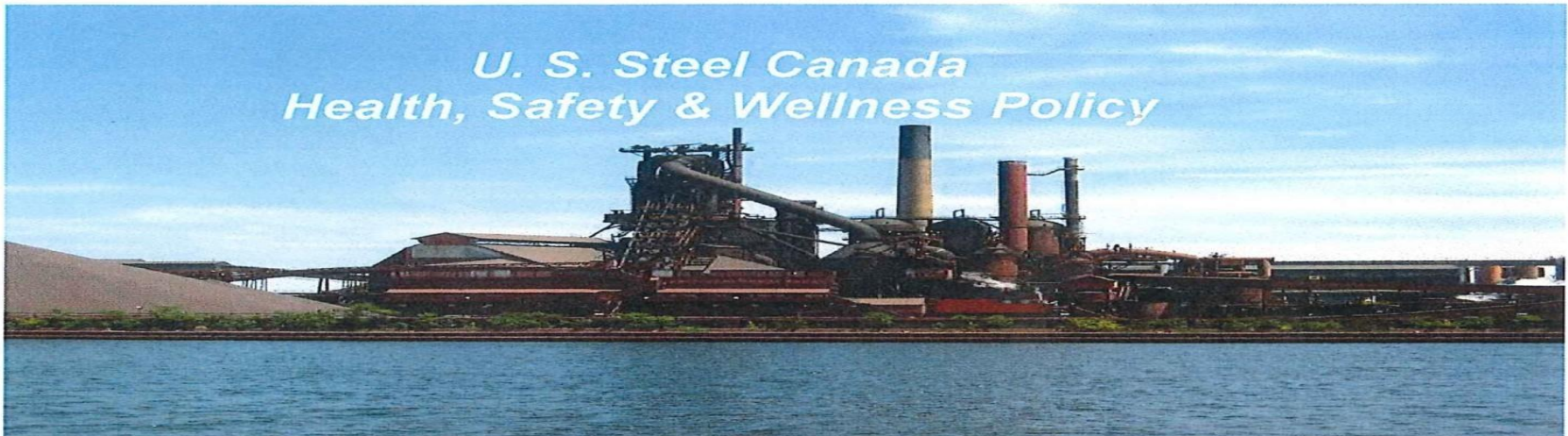


AGENDA

1. **Welcome and Safety Contact**
2. **Review and Approval of Agenda**
3. **Review and Approval of Minutes of 17 June 2016**
4. **Performance under O.Reg. 419/05 Site Specific Standard Order - Particulates**
5. **Lake Erie Works Coal Field Dust Management Update**
6. **Environmental Update – Climate Change**
7. **Community Concerns**
8. **CLC Meeting Schedule for 2017**
9. **Adjournment**



WELCOME AND SAFETY CONTACT



All U. S. Steel Canada employees, partners, and agencies hold shared responsibility to create and maintain a healthy workplace culture by acting in compliance with this policy.

"Safety First" is a core value at U. S. Steel Canada. We will operate our company in a manner that leaves our employees and our community healthy, well and safe.

We will achieve our commitment by:

- Ensuring that senior management is responsible to initiate, maintain and support our Safety and Industrial Hygiene program.
- Requiring those in leadership roles to be responsible to provide a safe work environment and to ensure that workers comply with our requirements.
- Requiring all of our employees, contractors and visitors to be responsible for working in accordance with established procedures, practices, rules and duties made under the Occupational Health and Safety Act and where work is deemed unsafe, ensuring it is stopped.
- Providing our employees with appropriate Health and Safety training in the safe performance of their jobs.
- Continuously improving our equipment, practices and the training of our employees.

Michael A. McQuade
President & General Manager
U. S. Steel Canada Inc.
July, 2016



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SITE-SPECIFIC STANDARD ORDER (PARTICULATES): PERFORMANCE REVIEW – DAILY OBSERVATIONS

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%
June 1 – Sept 30, 2016 Range (Average)	0 – 8.1% (Average = 2.69%)	0 – 2.4% (Average = 0.15%)	0 – 7.1% (Average = 3.06%)

Daily Measurements Performed YTD

- All weekdays, except for holidays
- 10 Saturdays (Completed = 5) and
10 Sundays (Completed = 6)

June – Sept 2016 Operational Adjustments (OA)

- 1 OA for topside port lids: Sealant was applied to leaking lids



SITE-SPECIFIC STANDARD ORDER (PARTICULATES): PERFORMANCE REVIEW – 30 DAY ROLLING AVERAGES

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
June 1 – Sept 30, 2016 Range (Average)	1.89 - 5.21% (2.99%)	0.04 – 0.26% (0.14%)	2.52 – 3.66% (3.04%)	6.1 – 8 s (6.5 s)

June – Sept 2016 Performance

- In compliance with 2016 limits



SITE-SPECIFIC STANDARD ORDER (PARTICULATES): PERFORMANCE REVIEW – DAILY OBSERVATIONS – PUSHING EMISSIONS

Date	Pushing Emission (opacity %)
2015 Limit (July 2 start)	≥ 50%
2016 – 2018	≥ 50%
2019	≥ 40%
2020	≥ 30%
June 1 – Sept 30, 2016 Range (Average)	0 - 50% (9.4%)

June – Sept 2016 Operational Adjustments (OA)

- 1 OA – Adjusted battery temperature and underfiring system pressure



SITE-SPECIFIC STANDARD ORDER (PARTICULATES): COMMUNITY COMPLAINTS

There were no community complaints related to coke battery operations associated with the Site-Specific Standard Order (Particulates) between June and September 2016



SITE-SPECIFIC STANDARD ORDER (PARTICULATES): MOECC COMMENTS

- MOECC representative to provide verbal remarks



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LAKE ERIE WORKS COAL FIELD DUST MANAGEMENT UPDATE

**BARRY STEFUREAK, PROCESS COORDINATOR
RAW MATERIALS & DOCKS**



U. S. Steel Canada

DUST MANAGEMENT PLAN REVIEW - SUMMER 2016

- Well-established fugitive dust management plan already in place
 - A “living” document – best management practices for continual improvement
- Opportunity to utilize inter-plant synergies between “sister” USSC facilities

Research

- Visited Nanticoke community
- Reviewed dust control plan and identified opportunities for improvement

Plan

- Seal north side of the coal field with sealant
- Utilize water tankers during the day and night for dust suppression
- Conducted meetings with all team crews to discuss our roles and responsibilities
 - Opportunity for further extension of internal outreach on dust management plan
 - Focus on proactive approach

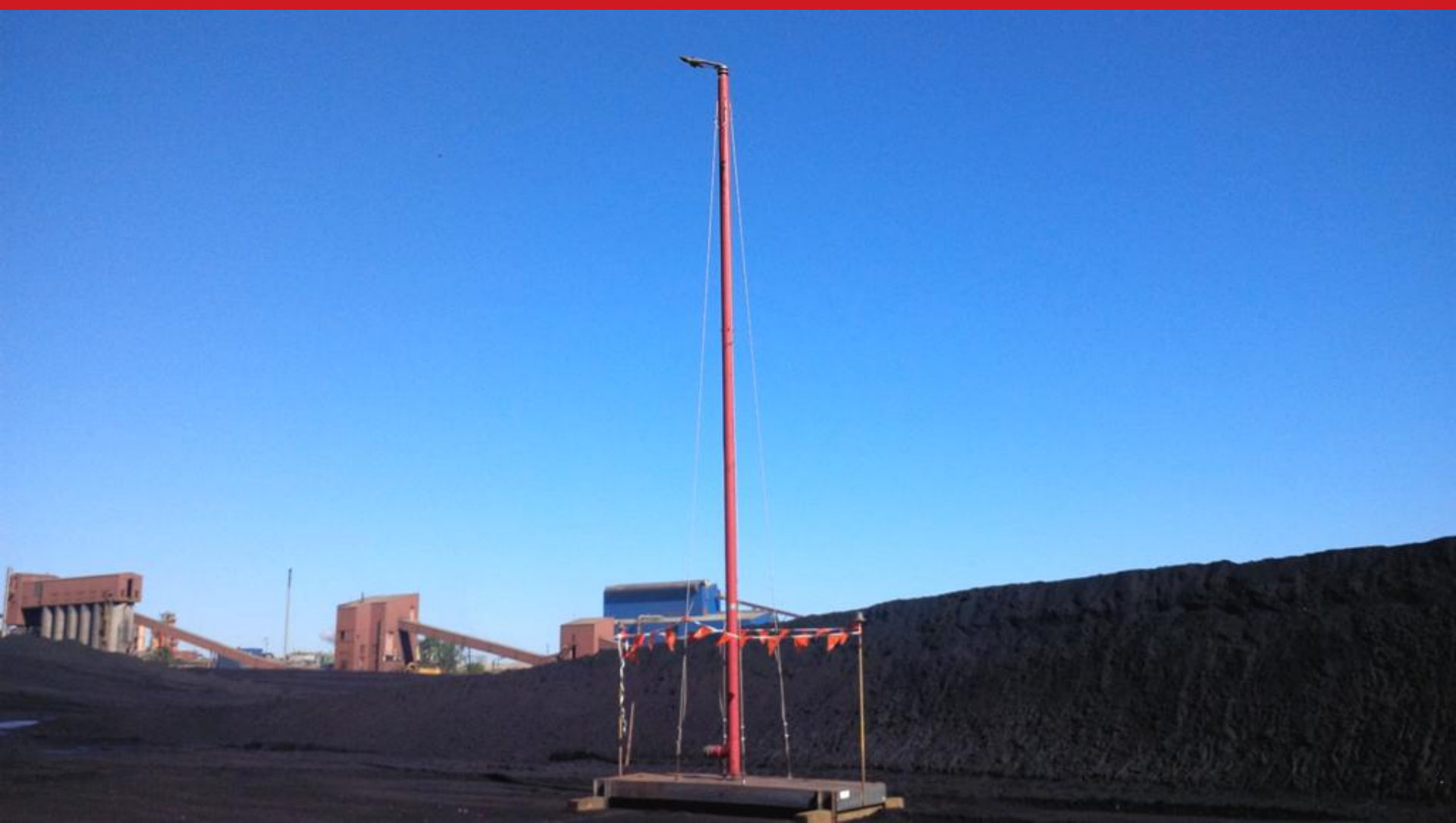


TOOLS FOR PROACTIVE APPROACH

- Utilize internal website to ensure timely communication with team crews
- Integrate detailed weather forecast information which allow us to be proactive in using our coal dust suppression tools effectively
- [Click photo on right to demonstrate](#)



PILOT SPRINKLER TOWERS



PILOT SPRINKLER SYSTEM



- A great example of where our business and the community have come together to proactively develop potential solutions
- Three 40 ft. towers
- One tower per coal pile
- Sprinkler system is used in conjunction with water tankers for dust suppression
- Next steps
 - Continue with fine-tuning system

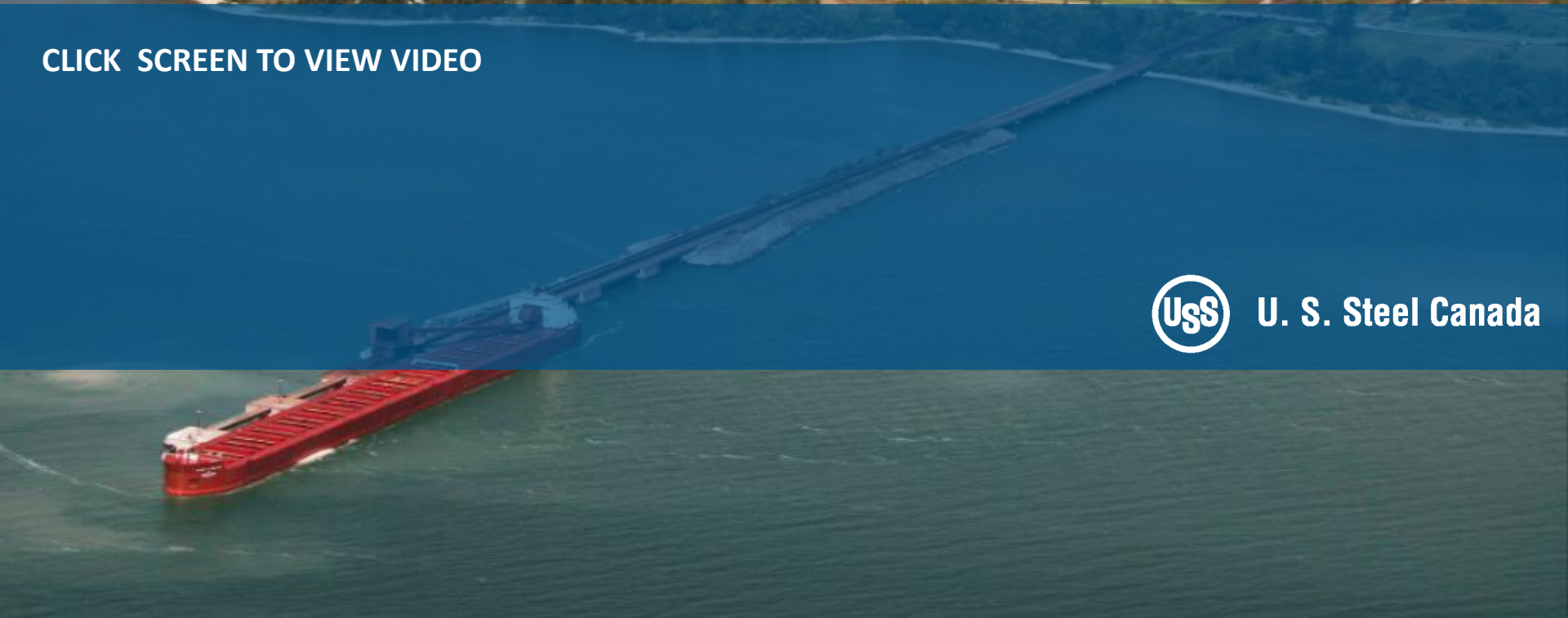




[CLICK SCREEN TO VIEW VIDEO](#)



U. S. Steel Canada





THANK YOU



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CLIMATE CHANGE: ONTARIO CAP AND TRADE

- On May 18, 2016 the Climate Change Mitigation and Low-carbon Economy Act, 2016 received Royal Assent
 - Provincial GHG Targets:
 - a. 15% below 1990 levels by the end of 2020;
 - b. 37% below 1990 levels by the end of 2030; and
 - c. 80% below 1990 levels by the end of 2050
- Cap and Trade Regulation (O. Reg. 144/16) in effect since July 1, 2016
 - Defines key elements (e.g. caps, allocations) and program rules (auctions, market requirements)
- Quantification Reporting and Verification of Greenhouse Gas Emissions Regulation (O. Reg. 143/16) comes in effect January 1, 2017
- Ontario program begins on January 1, 2017
- Ontario program targeting to link with Quebec and California (Western Climate Initiative) in 2018
- Post-2020 program design still underway



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PROPOSED 2017 CLC MEETING SCHEDULE



- Thursday, January 26
- Wednesday, April 12 (tentative)
- Wednesday, July 12
- Wednesday, October 11 (tentative)



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**THANK YOU FOR YOUR TIME AND COMMITMENT TO
THE LAKE ERIE WORKS COMMUNITY LIAISON
COMMITTEE**

