



Community Liaison Committee Meeting #16

October 6th, 2015



Agenda



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1. Review of April 30th, 2015 meeting notes.
 2. Membership issues
 3. Status Report: Noise Abatement
 4. Current and planned activities that require an application for an Environmental Compliance Approval (ECA)
 5. Boat Slip Assessment
 6. Port of Algoma
 7. Site Specific Standard for Particulate, BaP, Benzene
 8. Public Open House for 2015
 9. Next meeting?
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Membership Issues



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- Welcome Lisa Derickx from the St. Mary's River Remedial Action Plan.
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Port of Algoma



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- Jerry Suurna to provide an update to the committee
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Boat Slip Sediment Assessment



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- There are ongoing efforts to de-list the St. Marys River as an Area of Concern (AOC) under the Remedial Action Plan (RAP)
 - Essar's boat slip was dredged twice (first in 1998 and second in 2006).
 - Re-assessment of the sediment quality in the slip has not been conducted since prior to the last dredging.
 - Essar worked with Environment Canada, the MOE and the RAP to conduct a follow-up sediment assessment in the boat slip in fall of 2014.
 - The objective was to determine the relative success that improvements to environmental performance and past dredging operations have had on the sediment quality.
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Boat Slip Sediment Assessment



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- Results:
 - The results indicate the presence of PAH's in sediment at the north end of the slip
 - Recommendations:
 - Continue remediation efforts (Dredging) to restore sediment quality as done in 1998 and 2006
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Noise Abatement



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- Early in 2014 the MOE accepted a plan to reduce noise emissions from 10 sources throughout the facility.
 - 2015-16 plans
 - Design and install acoustic enclosures around two steelmaking gas cleaning plant fan motors
 - Design and install acoustic enclosures around three cooling tower fan motors
 - Engineering design for low pressure turbine for excess steam generated at #2 BOSP
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New Environmental Compliance Approval Applications



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- Currently the following applications are with the MOE for processing:
 - Landfill amendment to reflect current activities
 - The ECA has been approved with requested amendments.
 - New Coke Battery – no changes
 - Administrative amendment to the ECA for the steelmaking effluent treatment system to reflect structural changes made in July. The structure was simply raised in order to prevent Lake Superior water from entering system. No changes to treatment system or effluent quality.
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Site Specific Standard for Particulate



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- On March 27th, 2015 Essar received a Site Specific Standard for Particulate accompanied by a Directors Order which sets specific emission limits in cokemaking.
 - 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, all off-takes
 - Must make operational adjustments if over the daily limits and notify MOE
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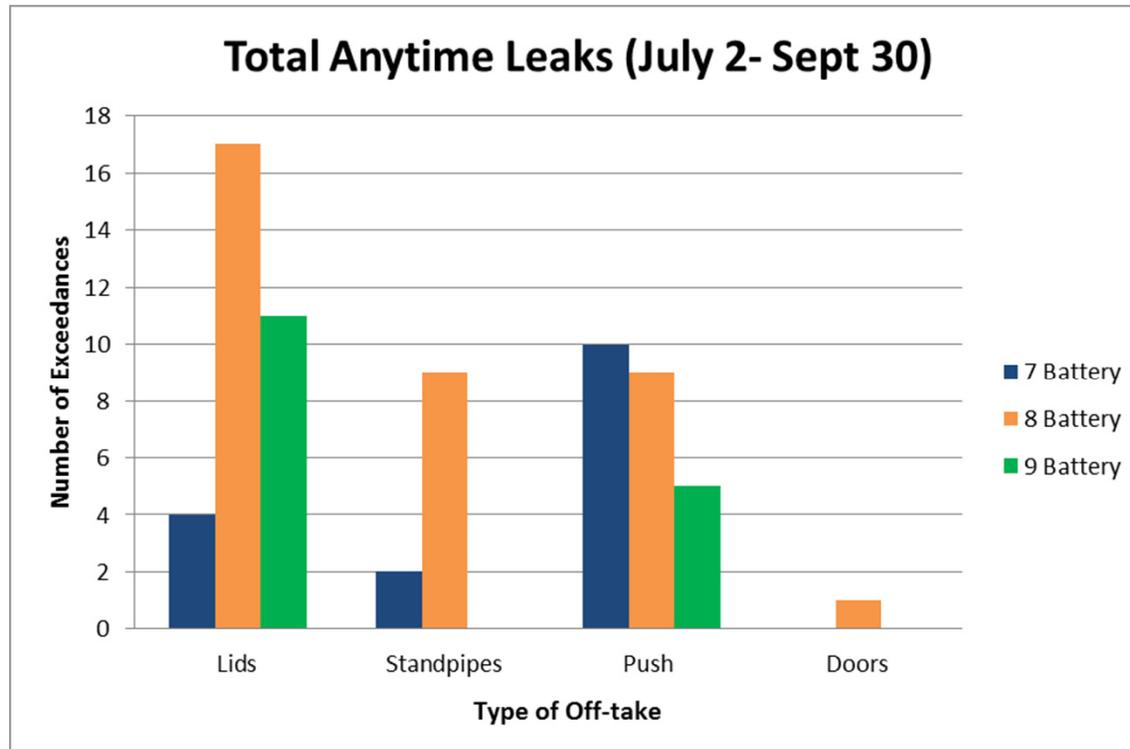
Maximum Anytime Leak Limits



Implementation Date	Maximum Anytime Leak Limits			Pushing Opacity
	Doors	Lids	Off-takes	
July 2, 2015	54	2	25	50%
Jan 1, 2016	32	2	15	50%
Jan 1, 2017	10	2	5	50%
Jan 1, 2018	10	2	5	40%
Jan 1, 2020	5	1	4	30%

- Conformance calculated daily for each battery

Performance to Date – Operational Adjustments



- All operational adjustments to date have been successful at meeting daily leak limits
- Frequency of daily limit excursions continues to decline

Rolling Average Leak Limits



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

- Conformance calculated daily for each battery

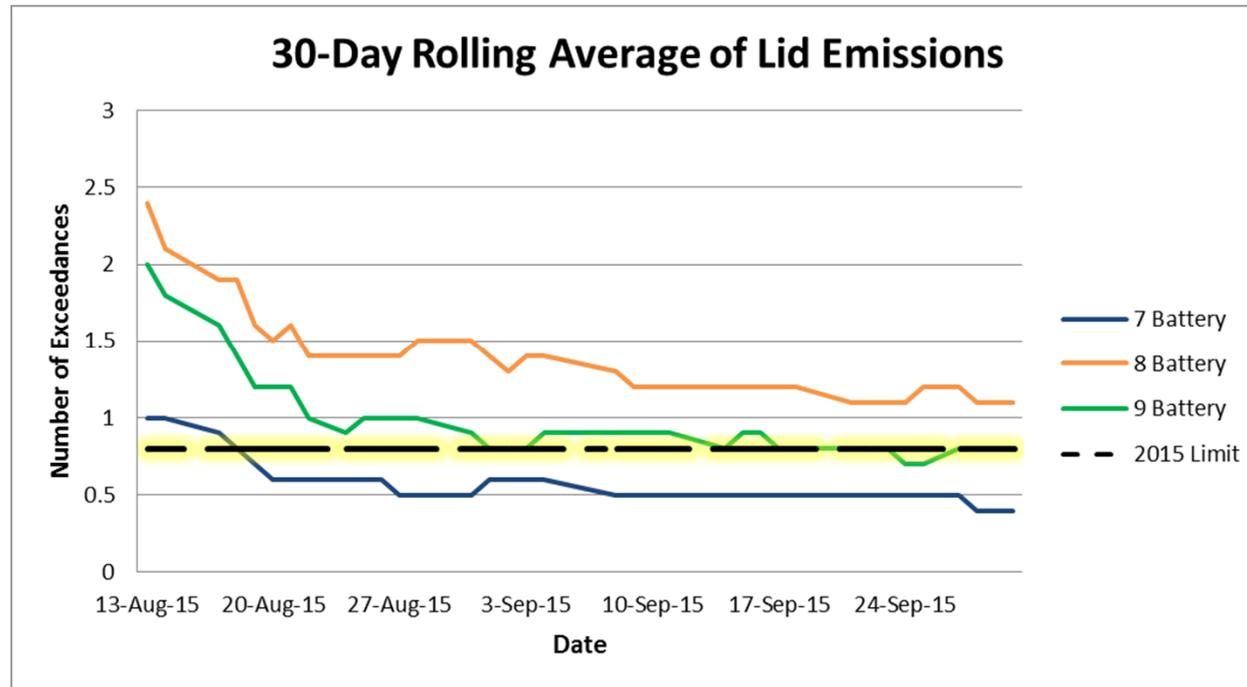
Operational Adjustments – Pushing



Typical corrective actions include:

- Taking cross-wall temperature readings to identify problem flues
- Cleaning the flues, pins, orifices
- Increasing oven temperature
- Getting adjacent ovens repaired and back in service
- Adjusting fuel or air to achieve proper combustion
- Extending coking time

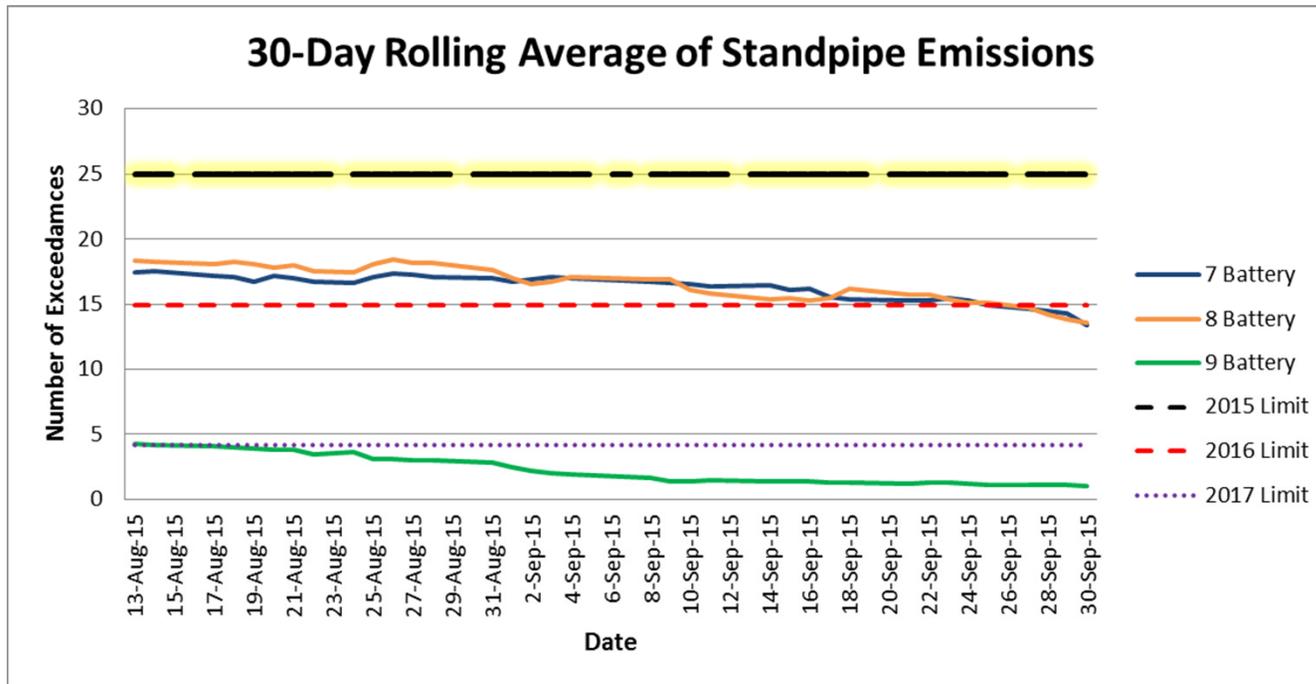
Rolling Avg. Lid Leaks



Typical corrective actions include:

- Re-luting the lid
- Replacing the lid
- Replacing the charge hole base and re-luting the lid

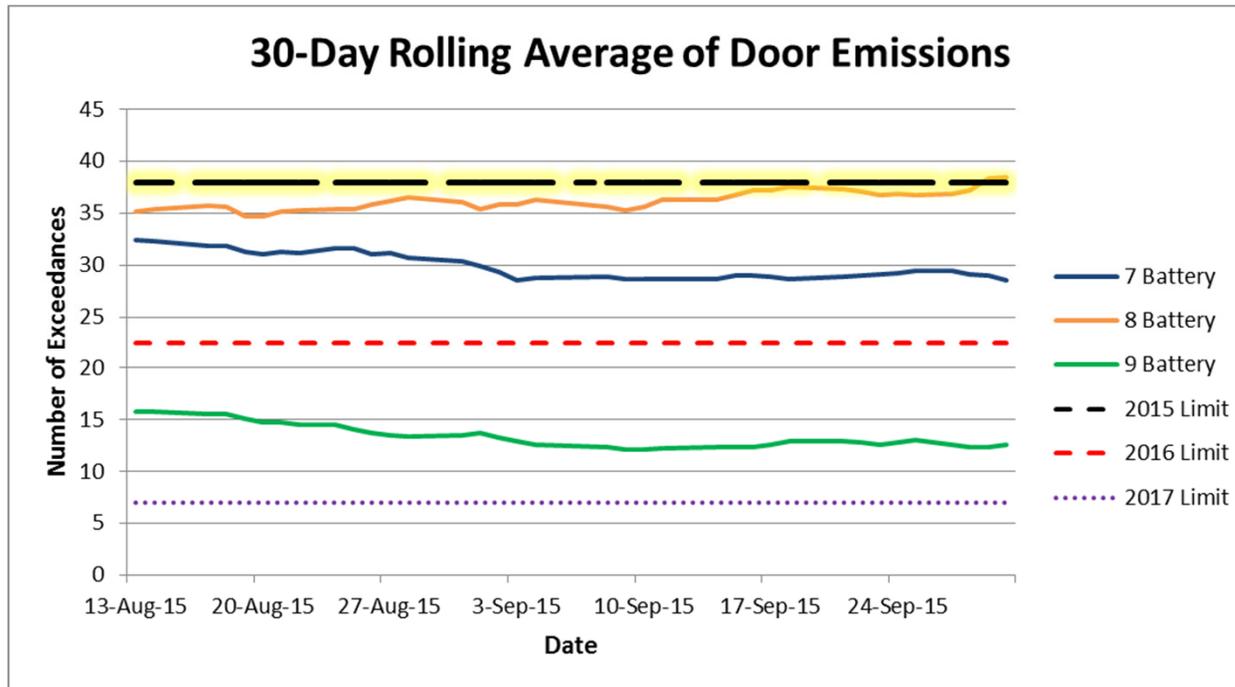
Rolling Avg. Off-take Leaks



Typical corrective actions include:

- Changing soft seal
- Re-packing collar
- Adjusting cap
- Applying masonry seal (blue)

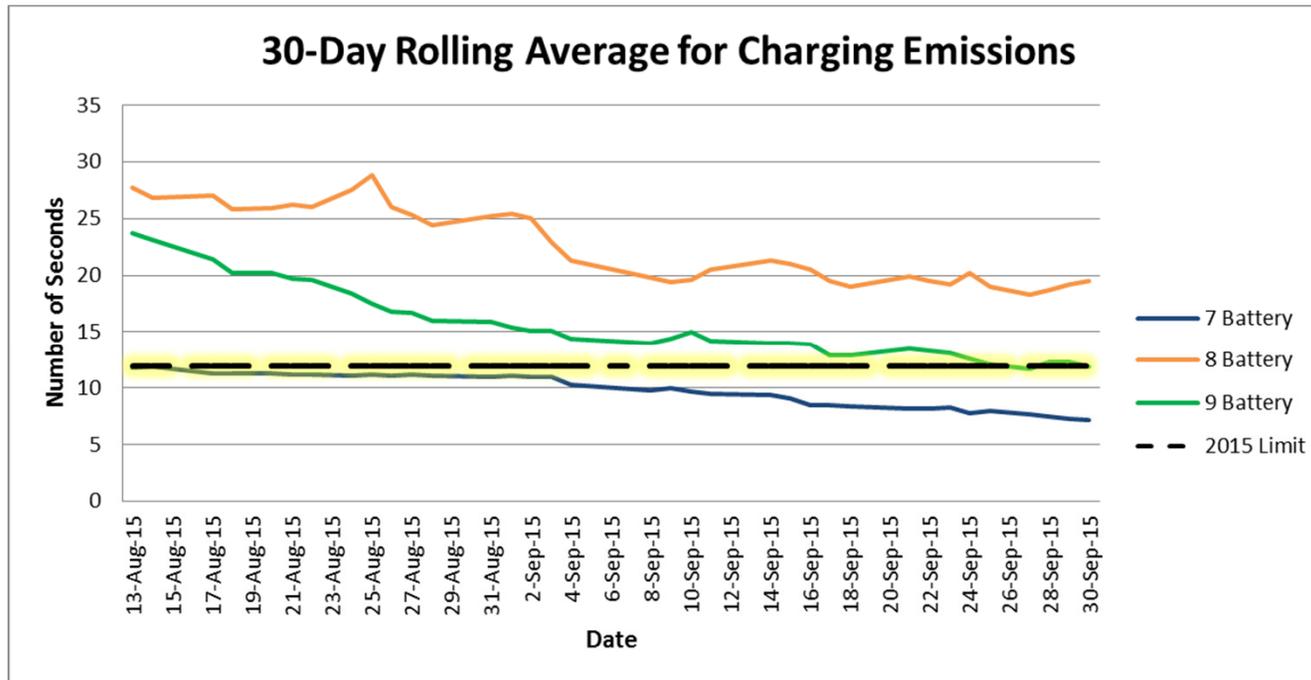
Rolling Avg. Door Leaks



Improvement plans include:

- Adjusting door bolts
- Improving door and jamb cleaning
- Replacing doors and frames

Rolling Avg. Charge Times



Typical corrective actions include:

- Adjusting carbon scraper bar
- Decarbonizing standpipes, goosenecks, charge holes
- Replacing drop sleeve donuts and bellow bags
- Adjusting coal feed systems to optimize coal charging volume

Complaints and Comments



Complaints received by the Facility since the last meeting of the CLC that relate to a matter addressed in the Order (e.g. pushing emissions, charging emissions):

- There have been no complaints received relating to matters addressed in the Order.

Comments provided to the facility by the MOECC regarding the status of 30-day limits, daily limits / operational adjustments, pushing limits/operational adjustments, community complaints:

- There have been no comments received from the MOECC

Cokemaking investments



#8 Battery through walls

- In July Essar began the rebuilding of through walls
- 9 oven walls remaining on #8 battery
- Anticipated completion in December

#7 Battery revitalization

- Progressing with #7 battery revitalization project. Work includes:
 - Battery top re-paving
 - Buckstay changes
 - Door and jamb changes
 - Standpipe and gooseneck changes
 - End flue repairs
 - Regenerator repairs
 - Ensuring functional heating, decarb, steam and coal feed systems
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Road Paving



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- Paving continues to reduce particulate emissions from the facility
 - A high traffic area east of the coldmill was paved in August
 - The steelmaking scrap yard (a very high traffic area) was paved in September. This has significantly reduced track-out onto other paved roads.
 - Repairs to asphalt at ten rail crossings began in September.
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Site Specific Standard for Benzene and BaP



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- Both the benzene and BaP standards are in approvals with the Ministry
 - The BaP requirements will be the same as the particulate standard since the emission sources are the same.
 - The Benzene standard will require continued addition to Benzene Emission Control (BEC) systems followed by monitoring
 - Essar's plan is to continue to connect one source per year to BEC
 - Will then purchase a portable GC to “sniff out” further benzene sources
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PCB's



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- Continued removal from service of PCB containing transformers
 - All completed as of May 2015
 - Plan in place to destroy inventory of PCBs by Dec 31, 2015
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GHG Cap and Trade



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- The design of the cap and trade system remains largely unknown.
 - Consultation with the MOE is ongoing.
 - No movement with Environment Canada since early 2015.

 - Some preliminary assumptions from Ontario
 - Sector wide emission calculation methodologies has been agreed upon
 - There will be recognition for Fixed Process Emissions
 - Anticipating a 4% annual cap decline
 - 0.98 assistance factor for Energy Intensive Trade Exposed sectors
 - Initial carbon cost expected to be ~\$12 US/tonne
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Public Open Houses



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- Last open house held on June 24, 2015 at the new Library at the Goulais Avenue Community Centre.
 - Focus was on Cokemaking Site Specific Standard
 - ESAI focused the information on efforts to reduce emissions from Cokemaking.
 - An information letter was sent to our neighbours highlighting key points prior to the open house.

 - Next open house?
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Next meeting



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- January 2016?
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