



Community Liaison Committee Meeting #17

February 10, 2016



Agenda



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1. Review of October 6th, 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 2016
 9. Next meeting?
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Membership Issues



- St Mary's River RAP coordinator
 - Public representative
 - Algoma Public Health representative
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Port of Algoma



The Port of Algoma Redevelopment Project Status:

- The project is a brownfield redevelopment of the existing port facilities that have been operational for the past 100 years.
 - No new berths/slips will be constructed. Not a deep water port. Limited by draft allowed by lock system.
 - Stage 1 Archaeology Reports Completed:
 - Terrestrial archaeology assessment of port lands
 - Marine archaeology assessment of St. Mary's River adjacent to port lands
 - Fisheries Effects Determination Report Completed:
 - Spring fisheries assessment
 - Fall fisheries assessment (including diving at dock faces and in areas of proposed dredging)
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Port of Algoma



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- Terrestrial Effects Determination Report Completed:
 - Spring and summer breeding bird survey
 - Spring wildlife observations
 - Spring and summer wetland observations
 - Summer vegetation observation
 - No work to be conducted in Leighs Bay or in areas that have protected species (bank swallows). No dredging in areas of significant fish habitats.
 - Areas of potential dredging are mostly limited to areas previously dredged and to maintain 28 foot draft equivalent to locks for navigational safety.
 - Consultation has been initiated with various First Nations communities (Canadian and US)
 - Meeting held with BPAC to present current plan for redevelopment
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Port of Algoma



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- Next steps:
 - Continue discussions with various regulatory agencies to determine required permits/EA requirements.
 - Submit project report and application for potential project funding.
 - Continue consultation with First Nations, public and regulatory agencies.
 - Further information is available at www.algomaport.com, including a powerpoint presentation of current status.
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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
 - No update since last meeting
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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.
 - 2016 plans
 - Engineering design underway for acoustic enclosures around two steelmaking gas cleaning plant fan motors
 - Design complete. Plan to install acoustic enclosures around three cooling tower fan motors
 - Engineering design underway 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:
 - 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



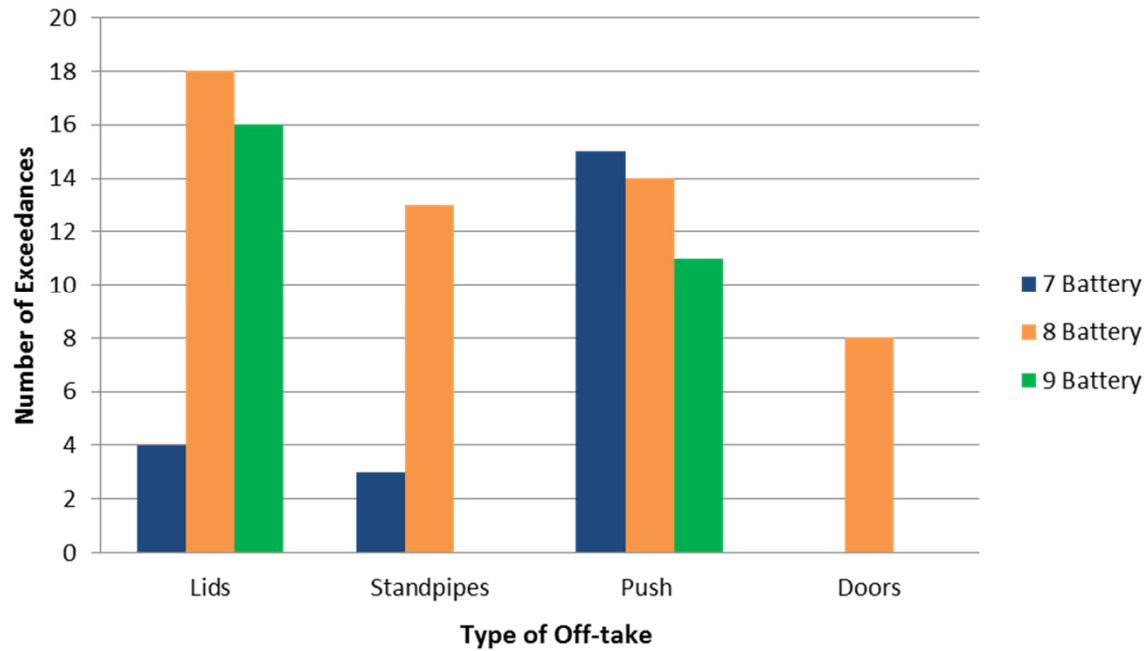
Implementation Date	Maximum Anytime Leak Limits			Pushing Opacity
	Doors	Lids	Off-takes	
July 2, 2015	54	2	25	50%
Jan 1, 2016	32	2	15	50%
Jan 1, 2017	10	2	5	50%
Jan 1, 2018	10	2	5	40%
Jan 1, 2020	5	1	4	30%

- Conformance calculated daily for each battery

Performance to Date – Operational Adjustments



Total Anytime Leaks (July 2- Dec 31)



- All operational adjustments to date have been successful at meeting daily leak limits

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

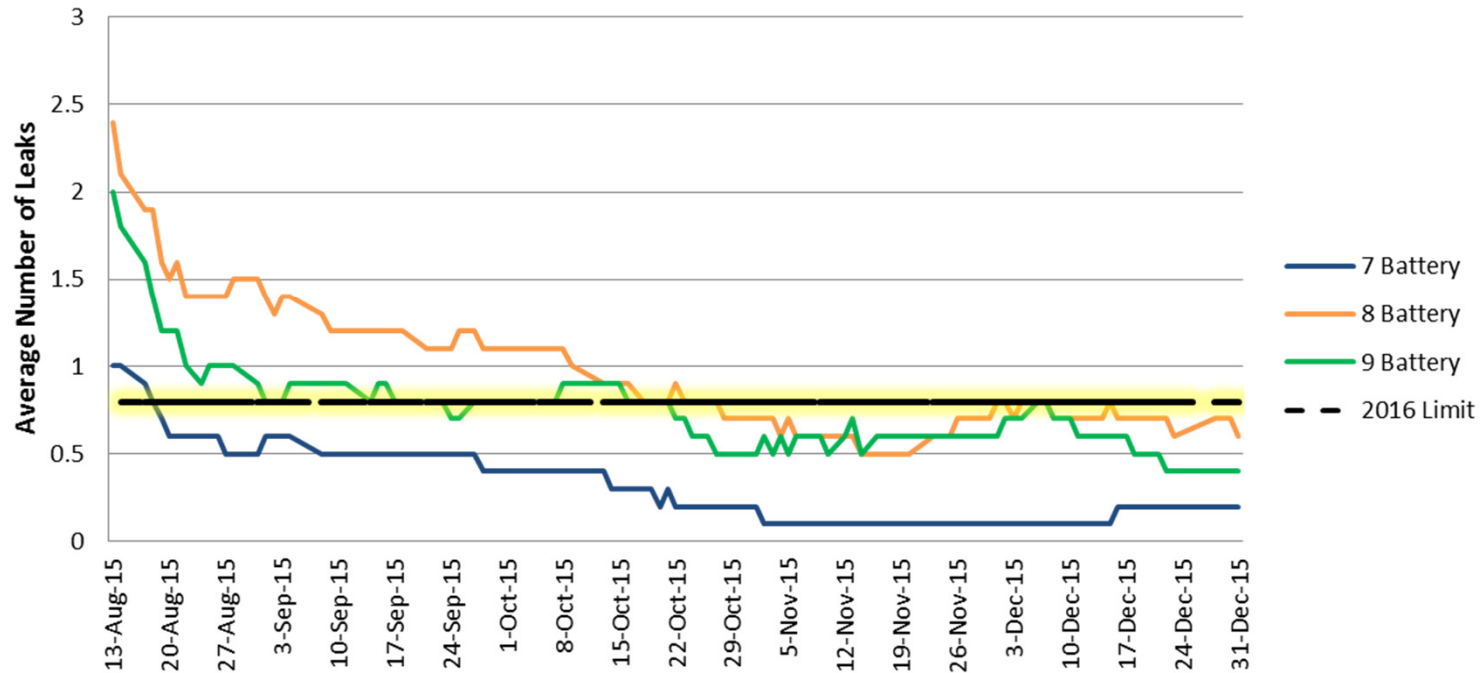


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- When an out of compliance Push is observed:
 - 30 days granted to correct the oven and re-observe a Push within compliance (average opacity less than 50%)
 - If the oven cannot be corrected in 30 days, a detailed plan must be approved by the MOE
 - If the plan is not approved, the oven must be taken out of service for 30 days (penalty)
 - For all pushes observed over the limit, all corrective actions have been successful at reducing opacity below the limit.
 - Typical corrective actions include:
 - Taking cross-wall temperature readings to identify problem flues
 - Cleaning the flues, pins, orifices, flex hoses
 - Increasing oven temperature
 - Getting adjacent ovens repaired and back in service
 - Adjusting fuel or air to achieve proper combustion
 - Extending coking time
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Rolling Avg. Lid Leaks



30-Day Rolling Average of Lid Emissions



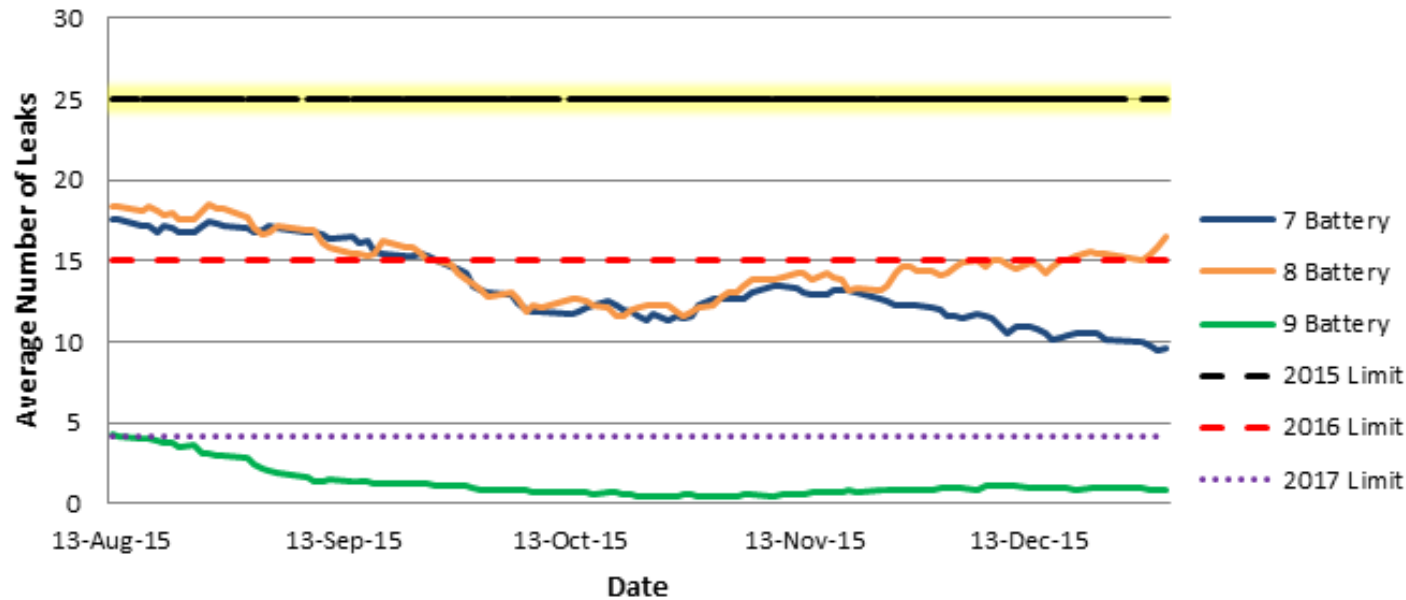
Typical corrective actions include:

- Re-luting the lid
- Replacing the lid
- Pointing up and grouting charge hole bases

Rolling Avg. Off-take Leaks



30-Day Rolling Average of Standpipe Emissions



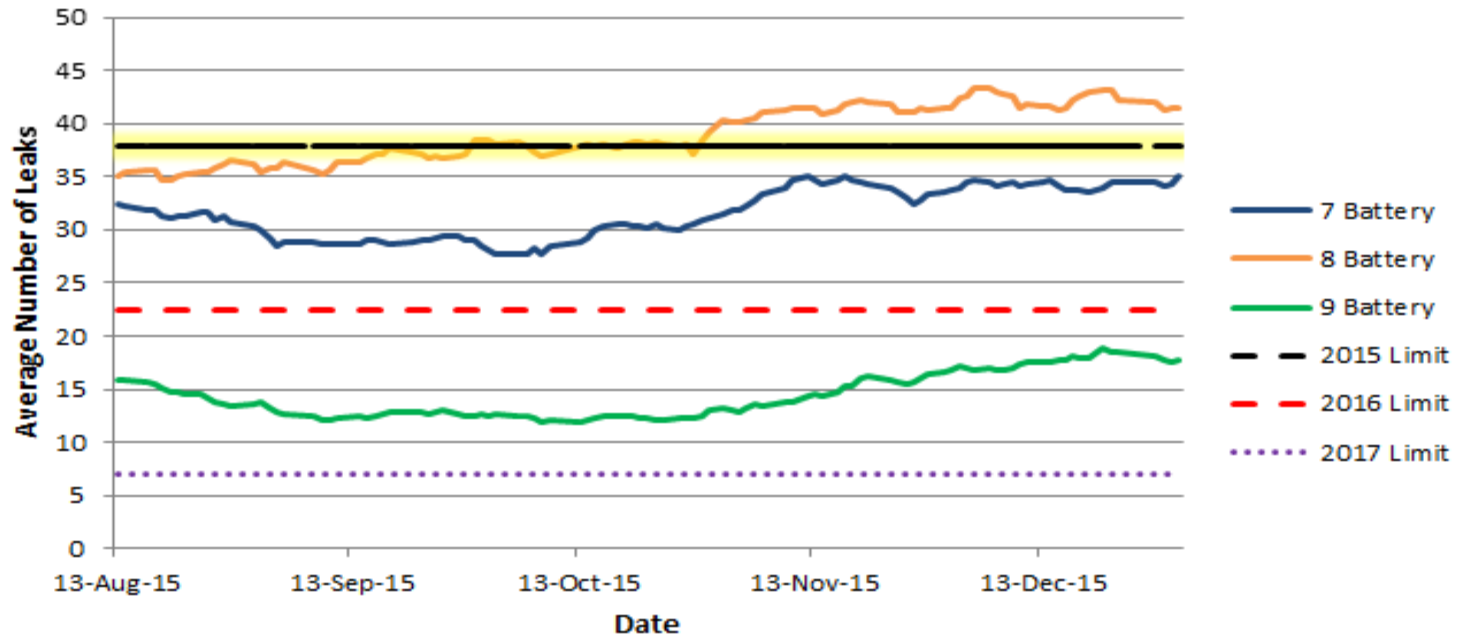
Typical corrective actions include:

- Changing soft seal and adjusting the cap
- Cleaning the gooseneck, sleeve to collector main, and steam jet
- Re-packing collar
- Applying masonry seal (blue)

Rolling Avg. Door Leaks



30-Day Rolling Average of Door Emissions



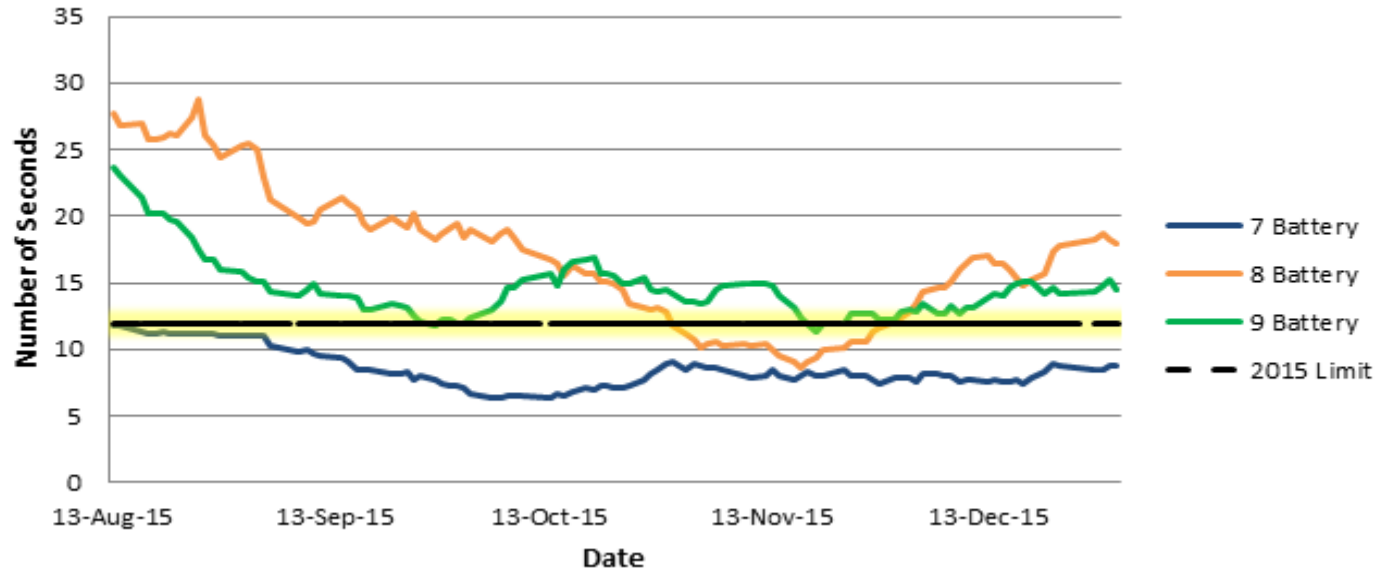
Corrective actions include:

- Adjusting door bolts and frame clips
- Cleaning doors, door jambs, sill plates and spotting targets to ensure a tight seal
- Replacing damaged doors and frames
- Minimizing door fire burn times

Rolling Avg. Charge Times



30-Day Rolling Average for Charging Emissions



Typical corrective actions include:

- Adjusting carbon scraper bar
- Decarbonizing standpipes, goosenecks, charge holes
- Replacing drop sleeve donuts, bellow bags, and new carbon seal trial
- 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:

- The Ministry has requested a plan to achieve compliance with current and future limits. The plan will be provided in February.

Cokemaking investments



#8 Battery through walls

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

#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

Cokemaking investments



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- A new short and long term compliance plan is under development based on a thorough inspection of the condition of all components of each oven.
 - The plan includes:
 - Repair or replacement of oven components (steelwork, refractory)
 - Design and install of new equipment (standpipes, modular spare door extractor, cameras)
 - Increased door replacement and program expansion
 - Additional positions in standpipes, door repair and masonry

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 completed in September.
 - New high traffic areas identified for paving in 2016
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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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- All PCB containing transformers have been removed from service
 - All inventory of PCBs over 50 ppm sent for destruction
 - In full compliance with PCB regulations
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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
 - Anticipate draft legislation in spring 2016 with final regulation in 2017
 - Sector wide emission calculation methodologies has been agreed upon
 - There will be recognition for Fixed Process Emissions
 - Anticipating a 4% annual cap decline
 - 100% assistance factor for Energy Intensive Trade Exposed sectors for the first compliance period (2017-2021)
 - Initial carbon cost expected to be ~\$12 US/tonne
 - Assume 5% annual carbon price escalation
 - Assume 2% annual increase for inflation
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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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- Spring 2016
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