



Notes of Meeting #30 – Algoma Steel Community Liaison Committee

Date: September 10th, 2019

Location: Algoma Steel
Administration Building
Main Conference Room

Time: 12pm to 2:00pm

CLC Members in Attendance

Fred Post – Algoma Steel
Chris Galizia – Algoma Steel
Kara Flannigan – Algoma Public Health
Ron Dorscht – Ministry of Environment, Conservation and Parks (MECP)
Catherine Taddo – Corporation of the City of Sault Ste. Marie
Lisa Derickx – St. Mary’s River RAP Coordinator
Lori Greco - Ministry of Environment, Conservation and Parks (MECP)
Steve Carey – Chippewa County Health Department
Wayne Hubbard – United Steelworkers Local 2251
Peter McLarty – Public
Patt Marquis - Public

CLC Members not in Attendance

Reg Dunn – United Steelworkers Local 2251
Jonathon Bouma - Algoma Public Health (alternate)
Dan Sayers Jr. – Batchewana First Nations
Kathie Brosemer – Sault Ste. Marie Tribe of Chippewa Indians
Maggie McAuley – Corporation of the City of Sault Ste. Marie
David Trowbridge - Public

Meeting Notes

1. Review of the Agenda

There were no new items proposed to be added to the agenda.

2. Review of Meeting #29 Notes

There were no comments regarding the minutes of the June 4th CLC meeting. They have been posted on the company website.

3. Membership issues

A re-cap of current membership was provided.

4. Site Specific Standard (SSS) for particulate and BaP

Fred re-capped the development process and coke plant rules detailed within the Site Specific Standard for particulate that was issued in March 2015. This MECP approval was based on an emissions model that predicted potential for emissions over the Reg. 419 limit. The regulation

has an alternate compliance mechanism in which the MECP and the company agree to a plan to reduce emissions over a period of time. Algoma worked with the MECP and other coke makers to develop this Standard with a focus on emission reductions from the cokemaking process in anticipation of the new limits coming into force for Benzene and BaP. A Site Specific Standard has been developed and its implementation began on July 2nd 2015 with a progressive phase in of more strict limits over time.

On July 2nd 2015, Algoma began to monitor coke oven emissions in accordance with the site specific standard. The progressive phase in of limits has occurred on an annual basis. A graphic representation of Algoma's performance was presented along with a summary of corrective actions and operational adjustments made to date. There has been a consistent improvement trend for all emission sources, highlighting the most recent reductions in door and standpipe emissions for which the company achieved full compliance with the new limits in August 2017 and has remained in compliance. The company is currently in compliance with all limits and is taking early action in preparing to achieve future limits ahead of schedule.

The MECP has begun talks with industry to determine what will be in place after the existing SSS's expire. This is discussed in greater detail in sections 7 and 8 below.

5. Stack Opacity

A new graph was provided showing the coke stack opacity performance for the past year. The graphs show the percent of total opacity in a 30 day rolling average to depict the long term performance trends. There has been significant improvement on both 8 and 9 battery stacks over the course of the year. This topic continues to be an issue and the company is working with the MECP to develop a detailed action plan to reduce opacity.

Peter McLarty raised questions about how these events were reported on the company website and how those reports should be interpreted. It was explained that the opacity meters record any event over 20% opacity that lasts for six consecutive minutes or longer. Each day a report is automatically generated that summarizes the total number of events that occur for each battery and reported to the website in accordance with applicable regulation. Since the intensity of opacity is believed to be more important than the number of incidents in a day, the graph presented was prepared to show the overall improvement trends in stack opacity.

6. Public Complaints

Public complaints regarding particulate and odour from the last quarter were discussed. There was a discussion regarding whether Algoma plots the locations of public complaints – this has not been conducted and there are some issues regarding confidentiality, but it was agreed that the patterns of complaints will be reviewed the findings will be discussed at the next CLC meeting.

Peter McLarty raised concerns regarding the prevailing winds and the desire to locate an additional monitoring station east of the facility. Algoma agreed to provide a summary of prevailing winds and present the findings at the next CLC meeting for discussion. The potential installation of an additional monitoring station remains a discussion with the MECP through the development of a new Industry Standard summarized in section 8 below.

7. Site Specific Standard for Benzene and Particulate

An update was provided regarding the site specific standard for benzene. The approved standard requires continued addition to the Benzene Emission Control (BEC) system and on site monitoring. The company is proceeding with the installation of benzene emission controls as outlined in the site specific standard. Two controls were installed in 2017 and a third source was removed from service in spring 2018.

Planning for the installation of the remaining controls by 2020 year end is now underway.

A ten week benzene air monitoring program was completed in fall 2018 in the by-product area to look for potential benzene sources not currently controlled. Three sources were identified and control actions are either completed or planned.

A one year ambient air monitoring program commenced in August 2018 and was completed in August 2019 which measured suspended particulate matter and metals (Iron, Chromium VI, Manganese and Nickel). Hexavalent chromium sample results were below precise laboratory detection limits at all locations. Measurements of manganese concentrations were elevated at some locations indicating the likelihood for manganese to be part of the new Industry / Technical Standard as it is developed by the MECP. Iron and nickel results did not indicate any concern.

8. Industry / Technical / Site Specific Standard

Only a briefing on this section was provided because the MECP's Scott Grant and Bruce Gillies provided a separate presentation at the previous June 4th CLC meeting on the development of an Industry Standard for the integrated iron and steel sector. The following overview is a summary of that discussion.

The MECP has commenced discussions with the iron and steel sector on new Industry / Technical / Site Specific Standards for multiple air contaminants that will replace the existing approvals when they expire. The potential contaminants could include Particulate, B(a)P, Benzene, SO₂, Metals (Iron, Nickel, Manganese and Chromium VI). The process is led by the MECP and is expected to take 3-4 years to develop the new technical standards. The MECP conducted a site visit on May 8 and accepted the monitoring programs for benzene and metals which may be used to inform if/or where future controls may be required. The Benzene Air Monitoring Program and the Metals Air Monitoring Program which commenced in August, 2018 are both complete.

The next steps involve developing working groups to focus on the following topics:

- Fugitive metal/particulate emissions from on-site roadways; steel-making; slag management;
- Limiting emissions from blast furnace upsets;
- Identifying current emission sources and air pollution control approaches at each facility;
- Assessing the ongoing ambient air monitoring program results;
- Coke oven gas de-sulphurization (Federally required by January 1, 2026);
- Development of an Ontario-based emission auditor training and certification program;
- Completing a jurisdictional review of best available emission control techniques globally;
- Industry economic overview and economic feasibility assessment (industry led);
- Development of trigger mechanisms to facilitate a review of the appropriateness of the Technical Standard every 7-8 years

9. Status Report: Noise Abatement

The MECP has accepted a plan to reduce noise emissions from 7 sources throughout the facility by Dec. 31st 2023.

- The installation of 2 large fan motor enclosures at the steelmaking gas cleaning plant is now complete at an estimated cost of \$1.2 million. The noise level was successfully reduced from 102 dBA to 86 dBA at 1 meter from the source.

- An acoustic silencer at the #2 BOSP steam blow-off was installed at steelmaking in June at a cost of \$684,000. The muffler successfully reduced the noise level from 133 dBA to 92 dBA at 5 meters from the source.

10. Current and planned activities that require Environmental Compliance Approval (ECA) application

Algoma is currently applying for an amendment to an existing ECA for its #2 Ladle Metallurgy Furnace (LMF) to install a larger baghouse than the existing approval to improve capture efficiency at both Ladle Metallurgy treatment stations.

11. Legacy Environmental Action Plan

In fall 2018 upon exiting CCAA, the MECP and Algoma Steel signed an Environmental Framework Agreement which was established to mitigate risk from on-site legacy environmental liabilities. Ontario's Environmental Protection Act allows a person responsible for a source of contaminant to submit a Program to prevent or to reduce and control the discharge into the natural environment of any contaminant. A Program Approval is a document describing the associated abatement activities. A Program Approval has been posted on the EBR for public comment and was issued May 3rd 2019.

The Environmental Framework Agreement and the associated Program Approval are the legal instruments which have initiated the development of the Legacy Environmental Action Plan (LEAP). The LEAP is a risk-based environmental management plan to be maintained and funded by Algoma Steel, with the objectives of identifying, assessing, managing and mitigating off-site adverse environmental effects caused by Legacy Environmental Contamination at the Site. Algoma Steel will be responsible for planning, budgeting/funding, implementing, documenting and reporting the activities undertaken as part of the LEAP, while the MECP has oversight, review and approval responsibilities for LEAP budget, plans and activities, including approval (or pre-approval) of eligible LEAP expenses. A formal action and implementation plan for Year 1, and indicative action plans for the following four calendar years has been approved by the MECP.

The following list of year 1 LEAP projects has commenced:

- Site wide baseline investigation
- PCB disposal
- Dredge contaminated sediment from Boat Slip
- Secondary Containment Waste Oil Tanks
- Secondary Containment Raw Liquor Tanks
- Legacy Tire Disposal
- Legacy Coke Oven Gas main cleaning
- Engineering for re-routing blast furnace 30" sewer
- Engineering Base Line Ditch Water Treatment

12. Climate Change Regulations

A briefing was provided on the status of federal and provincial government's climate change regulatory development process.

The Federal Output Based Pricing System (OBPS) regulations were published in June 2019. The OBPS sets emissions benchmarks for specific industrial processes and facilities will be required to pay for emissions above those benchmarks. The OBPS applies in provinces without carbon pricing systems starting Jan 1 2019.

In July, Ontario released details of a new provincial climate change plan for industry which sets emissions performance standards for industrial processes. However; Ontario's proposed plan has not been accepted by the federal government and therefore the federal backstop regulations to apply to the Integrated Iron and Steel Sector in Ontario.

13. Public Open House

The last Public Open House was held on December 5th, 2018 from 4-7pm at the Polish Canadian Hall in Bayview. The next open house will be scheduled in mid-fall 2019.

14. Next Meeting

The tentative 2019 CLC meeting schedule is as follows:

- December 10th, 2019

The meeting adjourned at 2:00 PM, September 10th, 2019.

*Meeting notes prepared by Chris Galizia and Fred Post
September 26th, 2019*

Current Members and Alternates

Representation	Primary Member	Alternate
Algoma Steel	Fred Post	Chris Galizia
Ministry of Environment, Conservation and Parks	Lori Greco	Ron Dorscht
Public	David Trowbridge	Peter McLarty
Public	Patt Marquis	
SSM Tribe of Chippewa Indians	Kathie Brosemer	
Algoma Public Health	Kara Flannigan	Chris Spooney
Chippewa County Health Dept.	Steve Carey	Suzanne Lieurance
Batchewana First Nations	Dan Sayers Jr.	
City of Sault Ste. Marie	Catherine Taddo	Maggie McAuley
United Steel Workers Local 2251	Reginald Dunn	Wayne Hubbard
St. Mary's River RAP Coordinator	Lisa Derickx	