

Notice number: 0786-BPUPFP
Reference number: 7008-BPUP34

Notice
s. 36 of O. Regulation 419/05 as amended
made under the *Environmental Protection Act*, R.S.O. 1990, c.E 19 (EPA), as amended

To: Algoma Steel Inc.
105 West Street
Sault Ste. Marie, Ontario
P6A 7B4

Site: 105 West Street
Sault Ste. Marie, Ontario

Part 1: Definitions

In this Notice,

“Act” means the *Environmental Protection Act*, R.S.O. 1990, c. E. 19, as amended;

“Director” means the undersigned Director or any other person appointed under section 5 of the Act as a Director for the purposes of section 36 of the Regulation;

“Facility” means the Algoma Steel Inc. facility that is located at 105 West Street, Sault Ste. Marie, Ontario;

“Notice” means this Notice number 0786-BPUPFP, as it may be amended from time to time;

“Person Responsible” means Algoma Steel Inc. being the person who discharges or causes or permits the discharge of contaminants from the Facility into the air;

“Regulation” means Ontario Regulation 419/05: *Air Pollution - Local Air Quality*, made under the Act; and

“Section 35 Approval” means the approval issued to Essar Steel Algoma Inc. under section 35(1) of the Regulation issued on March 27, 2015, a copy of which is attached in Appendix 1.

Part 2: Legal Authority

The following sets out the legal authority that forms the basis for this Notice:

- 36.** (1) If the Director sets a site-specific standard under subsection 35 (1), the Director may give a person to whom the site-specific standard applies a notice,

- (a) altering the conditions imposed under subsection 35 (6);
 - (b) altering the period referred to in subsection 35 (9) so that it ends on an earlier date, if the Director is of the opinion that the person should be capable of complying with a more stringent standard by the earlier date;
 - (c) altering the period referred to in subsection 35 (9) so that it ends on a later date that is not more than 10 years after the date the period began;
 - (d) replacing the site-specific standard with a more stringent site-specific standard, if the Director is of the opinion that,
 - (i) the person is capable of complying with the more stringent site-specific standard, or
 - (ii) discharges of the contaminant that are permitted by the site-specific standard may cause an adverse effect;
 - (e) replacing the site-specific standard with a site-specific standard for another averaging period, if Schedule 3 sets out a standard for the other averaging period and, after the first-mentioned site-specific standard was set, an amendment to Schedule 3 removed the standard set out in Schedule 3 for the averaging period to which the first-mentioned site-specific standard applied; or
 - (f) setting an additional site-specific standard for another averaging period, if,
 - (i) after the first site-specific standard was set, an amendment to Schedule 3 added a new standard that applies to the other averaging period, and
 - (ii) the Director is of the opinion that the additional site-specific standard can be complied with by implementing the plan that was submitted under paragraph 7 of subsection 33 (1) or paragraph 4 of subsection 33 (4) with the request that related to the first site-specific standard. O. Reg. 282/11, s. 11.
- (2) Before the Director gives a person a notice under subsection (1), the Director shall give the person a draft of the notice and an opportunity to make written submissions to the Director during the period that ends 90 days after the draft is given. O. Reg. 282/11, s. 11.
- (3) References in this Regulation to a site-specific standard set under subsection 35 (1) include a replacement site-specific standard or additional site-specific standard set under clause (1) (d), (e) or (f). O. Reg. 282/11, s. 11.

Part 3: Grounds for Notice

- 3.1 Pursuant to section 35 of the Regulation, on March 27, 2015, the Director issued the Section 35 Approval to the Person Responsible.
- 3.2 Pursuant to subsection 35(9) of the Regulation, the Director specified a period for the Section 35 Approval that ended five years and nine months after the date the period began.
- 3.2 Pursuant to subsection 36(1)(c) of the Regulation, I, the Director, am altering the period referred to in subsection 35 (9) so that it ends on a later date that is not more than 10 years after the date the period began.

3.3 In accordance with subsection 36(2) of the Regulation, the Director provided a draft of this Notice to the Person Responsible at the Facility and provided an opportunity for that person to make written submissions to the Director during a ninety (90) day period.

Part 4: Notice Requirements

Pursuant to my authority under subsection 36(1) of the Regulation, I hereby amend the Section 35 Approval so that it expires on June 30, 2023.

Issued this **xx** day of **Month** 2020

Heather Malcolmson
Director
Ontario Regulation 419/05 – Section 36

Appendix 1



Ministry
of the
Environment
and Climate
Change

Ministère
de
l'Environnement
et de l'Action en
matière de
changement
climatique

**Site-specific Standard Approval Issued Pursuant to
s.35(1) of O. Reg. 419/05**
Approval Number: 501-15-rv0
Reference Number: 6802-9TTLP6
Issue Date: March 27, 2015
Expiry Date: December 31, 2020

Site-specific Standard
Approval Issued to: Essar Steel Algoma Inc.
105 West Street
Sault Ste Marie, Ontario P6A 7B4

Site Location: 105 West Street
Sault Ste Marie, Ontario P6A 7B4

DEFINITIONS - TERMS

For the purpose of this site-specific standard approval for suspended particulate matter the following definitions apply:

- (1) "Action Plan" means the document entitled "Essar Steel Algoma Inc., Application for Site Specific Standard Action Plan", dated October 2013 and submitted by the Company as part of its Request. See Schedule 1 to this Approval.
- (2) "Approval" means this site-specific standard approval number 501-15-rv0, reference number 6802-9TTLP6 issued March 27, 2015.
- (3) "Company" means Essar Steel Algoma Inc.
- (4) "Director" means a Director in the Standards Development Branch of the Ministry appointed under section 35 of the Regulation under the Environmental Protection Act.
- (5) "District Manager" means the District Manager of the Ministry's Sudbury District Office.
- (6) "Facility" means the Company facility referred to as Essar Steel Algoma mill and located at 105 West Street, Sault Ste Marie
- (7) "Ministry" means the Ontario Ministry of the Environment.
- (8) "Ministry Review Report" means the report, dated February 20, 2015 that provides a written review by Ministry staff of the Request by the Company for a site-specific standard for suspended particulate matter with an averaging period of 24 hours.

- (9) "Order" means order number 501-15-order-rv0 issued in conjunction with this Approval under s.35(14) of the Regulation.
- (10) "POI" means point of impingement and has the same definition as section 2 of the Regulation.
- (11) "Regulation" means Ontario Regulation 419/05: Air Pollution – Local Air Quality under the Environmental Protection Act as amended from time to time.
- (12) "Request" means the request for site specific standard, dated October 25, 2013, submitted by the Company with respect to the suspended particulate matter standard with a 24-hour averaging period listed in Schedule 3 of the Regulation and includes,
- i. letter, dated October 25, 2013, from Fred Post, Manager, Environment Control Services of the Company to Steve Klose, Director – Standards Development Branch of the Ministry and to Agatha Garcia-Wright, Director, Environmental Approvals Branch.
 - ii. the request document dated October 24, 2013 and signed by Jerry Suurna, General Manager, Safety, Environment and Energy Services of the Company;
 - iii. the Emission Summary and Dispersion Modelling report dated October 2013;
 - iv. a Technology Benchmarking Report dated December 2, 2009;
 - v. a Public Consultation Summary documenting the Public Meeting held on October 16, 2013; and
 - vi. the Action Plan report dated, October 2013, submitted by the Company.
- (13) "Suspended Particulate Matter" means particulate matter that has an aerodynamic diameter of less than 44 microns.

GROUNDS FOR APPROVAL

In accordance with section 35 of the Regulation,

A. I, the Director, am satisfied that:

1. The Request is consistent with subsection 32(1), paragraph 6 of the Regulation.
2. The requirements of section 32 of the Regulation have been met.
3. The Request satisfies the requirements of section 33 and other relevant portions of the Regulation.
4. The notification and holding of a public meeting and follow-up to the public meeting by the Company met the requirements of section 34 of the Regulation.

B. Based on the above conclusions and the information that I have reviewed, including the Request, the Ministry Review Report and various interactions with the Company, I am of the opinion that:

1. The Company cannot comply with section 20 of the Regulation with respect to the suspended particulate matter standard of 120 µg/m³ over a 24-hour averaging period in Schedule 3 of the Regulation because it is not technically feasible for the Company to comply.
 2. The site-specific suspended particulate matter standard, as presented in Table 1 below, is the minimum change necessary to enable the Company to comply with section 20 of the Regulation.
 3. The conditions imposed are appropriate having considered the following:
 - a. The nature of suspended particulate matter;
 - b. The frequency with which the inability to comply with section 20 referred to in subclause 35 (1)(b)(i) of the Regulation would occur; and
 - c. Whether there are any acute effects associated with suspended particulate matter.
 4. There is no public interest reason sufficient to require denial of the Request.
 5. The site-specific suspended particulate matter standard is not likely to permit frequent discharges of the contaminant that result in the concentration of the contaminant at a POI located on a place referred to in subsection 30(8) of the Regulation exceeding the other time period upper risk threshold set out for the contaminant in Schedule 6 of the Regulation.
 6. Compliance with this Approval will result in improvements to reduce discharges to air.
- C. The Company was provided a copy of a draft of the Approval on September 22, 2014 and provided an opportunity to make written submissions to the Director during the period that ended 30 days after the draft was given.

SITE-SPECIFIC STANDARD APPROVED

Pursuant to s.35 (4), (4.1) and (5) of the Regulation, with respect to discharges from the Facility, references in the Regulation to a standard set out in Schedule 3 for suspended particulate matter shall be deemed to be references to the corresponding site-specific standard set out in Table 1.

Table 1 – Site-Specific Standard for the Facility

Contaminant	Contaminant Chemical Abstract System No.	Site-specific Standard (µg/m³)	Site-specific Standard Averaging Period
Suspended Particulate Matter	---	127	24-hour

EXPIRY

In accordance with s.35 (9) of the Regulation, this Approval shall expire on December 31, 2020 after which the standard set out in Schedule 3 to the Regulation for the 24-hour averaging period will apply to discharges of suspended particulate matter from the Facility.

The above noted Request is approved under Section 35 of the Regulation.

DATED AT TORONTO this 27th day of March 2015,



Steve Klose, P. Eng.
Director
Ontario Regulation 419/05 – Section 35

c.
J. Taylor, Director, Northern Region
B. Cameron, District Manager, Sudbury District Office
R. Dorscht, Area Supervisor (A), Sault Ste Marie Area Office/B. McLaughlin
Director, Environmental Assessment and Approvals Branch/R. Wan, Supervisor
I. Parrott, Manager, Local Air Quality Section, Standards Development Branch/S. Grant

Schedule 1: Summary of Action Plan Items

Equipment/Sources	Item Number	Description of Measure
Coke Battery Number 7	1	Re-paving of battery top.
	2	Repairs to 17 flue ends.
	3	Installation of automated mechanical door and jamb cleaners with auxiliary fan to maintain suction.
	4	Installation of continuous opacity monitoring system in waste gas stack.
	5	Change-out 17 pusher-side buck stays and implement new straight end flue brick against new steelwork.
	6	Improvements to pusher-side door jambs (i.e., modify doors to spring-loaded sealing pan).
	7	Replace 13 coke side door jambs (with a further 16 coke side door jambs that will be removed as a result of modification to the buck stays).
	8	Replacement of 22 goose neck/stand pipes.
	9	Upgrade wooden ties for the coke pusher tracks to steel ones.
	10	Modifications to the coke side door machine (west end of ovens).
	11	Insulate 57 1/2" pant legs" and provide masonry patching between battery/pant leg and leg/waste heat tunnel.
	12	Patching of collector main and collector main structural supports.
	13	Investigate decarbonization system in comparison to the same system for Coke Battery Numbers 8 and 9.
	14	Automation upgrade to larry car.
	15	Upgrade of steam valve actuator (for aspirating system) to allow communication through a programmable logic controller.
Coke Battery Numbers 8 and 9	16	Installation of continuous emission monitoring system in waste heat stacks.
	17	Replacement of the remaining through walls.
	18	General masonry repairs on end flues, through walls, floors, door jambs and parapets to improve battery seals.
	19	For Coke Battery Number 8: Improvements to battery heating system to reduce "dark" coke emissions.
Dekishing	20	Installation of new 60,000 cubic feet per minute (approximately 28.3 cubic metres per second) baghouse and hood collection system on the west dekish system.