



ArcelorMittal

ArcelorMittal Dofasco: Site-Specific Air Standards

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November 1, 2012



Site-specific Air Standards

- Under Ontario Reg 419/05, new emission (concentration) standards became effective (2010) for Suspended Particulate Matter (SPM) and will be effective (2013) for Total Reduced Sulphur (TRS)
- To comply with the Regulation and as provided, MOE approved Site-specific Standards (then called “Altered Standards”) for AMD in July 2010.
 - Maximum Point of Impingement (POI) at property line
 - Requires completion of an Action Plan of specific emission-reducing projects, and submission of various reports.
- Site-specific Standards expire February 1, 2015
 - New compliance mechanism will be required

Site-Specific Air Levels

- Under Ontario Reg 419/05, new emission (concentration) standards will come into effect for Benzene and Benzo(a)Pyrene on July 1, 2016
- In advance of those new standards, MOE approved Site-specific levels for benzene and B(a)P for AMD in July 2010.
 - Maximum Point of Impingement (POI) at property line
 - Requires completion of an Action Plan of specific emission-reducing projects, and submission of various reports.
- Site-specific levels expire February 1, 2015
 - Before new Standards come into effect

Site-Specific Air Standards & Levels: Action Plan Projects

Project	Target
New Door Machine @ #1 Coke Plant	B(a)P
New Door Jambs @ #3 Coke Plant	B(a)P
New Jamb Cleaner on Pusher Side and Door & Jamb Cleaner on Coke Side @ #2 Coke Plant <i>(Complete in Nov 2012)</i>	B(a)P
Coke Guide Pyrometers @ #1, #2, #3 CPs	B(a)P
Electronic Off-gas Controllers @ #2, #3 CPs	B(a)P
Off-Gas Temperature Monitors @ #3 CP <i>(complete in December 2012)</i>	B(a)P
Improved Primary Coolers @ #1 By-Products	Benzene
New Thermal Oxidizer @ #1 By-Products	Benzene
Annual Leak Detection and Repair Program at #1, #2 By-Products	Benzene
Increased Road Sweeping/Flushing	SPM



Compliance Options under O. Reg. 419/05

1 Demonstrate **compliance with the air standards** by the phase-in period.

(Assessed using approved air dispersion models or through modelling and monitoring).

OR

2 Request and meet a **site-specific standard**.

(Available to eligible facilities affected by new or existing requirements. Assessed using approved air dispersion models or through modelling and monitoring).

OR

3 Register under a **technical standard** for specified contaminants.

(Available if the Ministry of the Environment has developed a technical standard that applies to the sector and those contaminants).

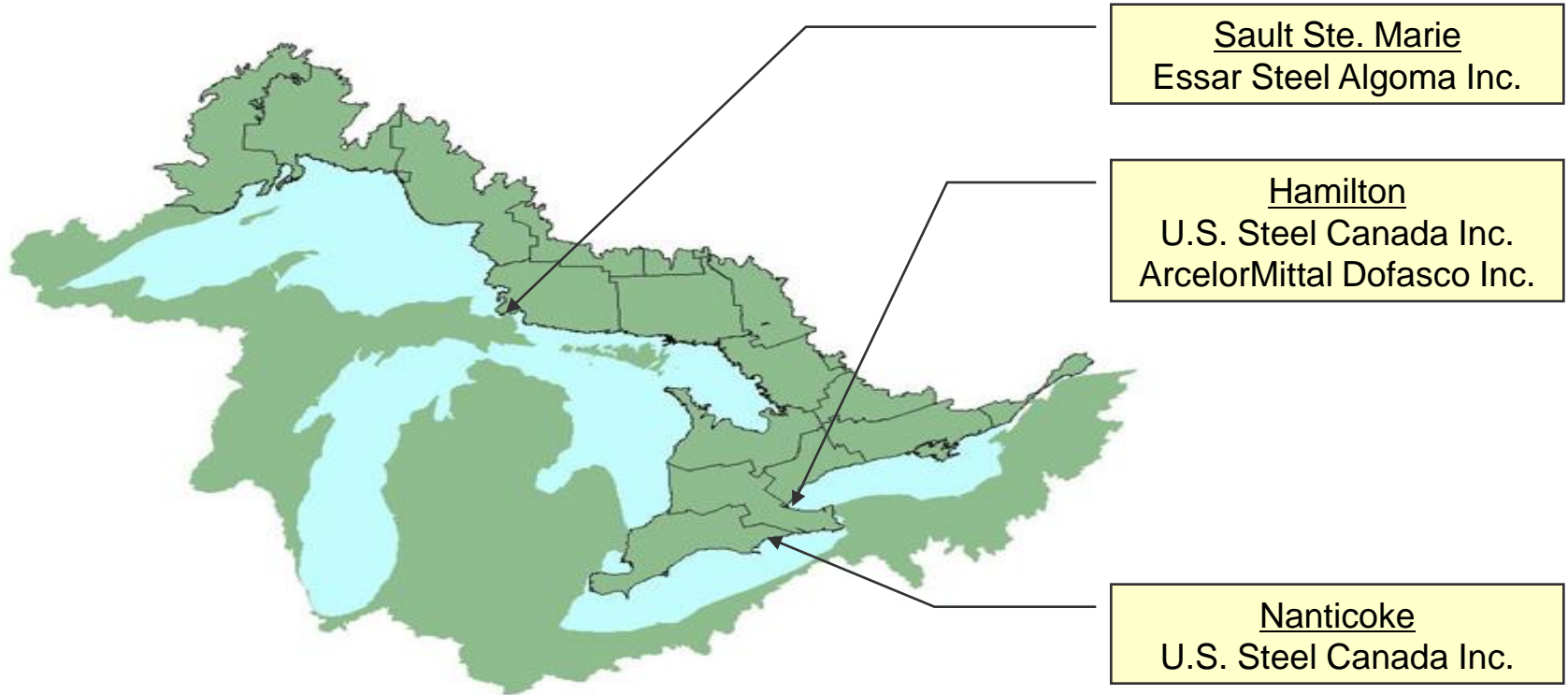
Why a Technical Standard?

- **①** The MOE may approach a sector:
 - During the development of new or revised air standards, certain sectors may be identified that would be ideally addressed by a technical standard rather than the air standard compliance option

- **②** Industry Sector/Association may approach MOE :
 - If two or more facilities in a sector identify challenges in meeting one or more air standards, they may approach the MOE and request that a technical standard be developed. Facilities would identify common sources that could be addressed on a sector basis.



Coke Making Facilities In Ontario



Cokemaking Technical Standard

- In 2011, MOE proposed a Technical Standard for Cokemaking to Ontario members of Canadian Steel Producers Association.
 - All will require Site-specific standards for benzene, B(a)P
 - No current cokemaking technology will achieve 419/05 limit
- Consistent sector-wide compliance approach for emission reduction measures, technologies and documentation.
 - Specified timelines for improvements
- Scope:
 - Benzene, Benzo(a)pyrene, Sulphur Dioxide
 - Coke Oven Batteries – charging to quenching
 - By-Products Plant – including desulphurization
 - All sources of Sulphur Dioxide air emissions
- Planned implementation date of July 1, 2016 to align with effective date of new benzene and B(a)P standards



Reg 419/05 Regulatory Status

	USS – Hamilton	USS – Lake Erie	Essar Algoma	AM Dofasco
SPM	Required	Required	TBD	Site-Specific Standard to Feb 2015
TRS	TBD	TBD	TBD	Site-Specific Standard to Feb 2015
Benzene	SSS or Tech Std required July 1, 2016	SSS or Tech Std required July 1, 2016	SSS or Tech Std required July 1, 2016	Site-Specific Level to Feb 2015
B(a)P	SSS or Tech Std required July 1, 2016	SSS or Tech Std required July 1, 2016	SSS or Tech Std required July 1, 2016	Site-Specific Level to Feb 2015

ArcelorMittal Dofasco Request



1. Extension of Site-Specific Levels for Benzene and B(a)P

- From February 1, 2015 to June 30, 2016 (17 months)
 - Align with effective date for new standards July 1, 2016
 - Regulatory “level playing field” with other Ontario integrated steel producers not currently subject to site-specific levels
- Compliance beyond July 1, 2016 will be addressed either through a Cokemaking Technical Standard or new Site-specific Standards

2. Extension of Site-Specific Standards for SPM and TRS

- From February 1, 2015 to June 30, 2016 (17 months)
 - Align the effective dates of all AMD's compliance mechanisms under O. Reg. 419/05
 - July 2011 amendments to 419/05 extended the available term for Site-specific Standards from “up to 5 years or up to 10 years in extenuating circumstances” to “a minimum of 5 years and a maximum of 10 years”
- If required, AMD will apply for new Site-specific Standards for SPM and TRS to be effective July 1, 2016.

Opportunity to Comment

- MOE will consider AMD's request after public consultation
 - November 1st: AMD Community Liaison Committee presentation with subsequent website posting and dissemination by members to their stakeholders
 - November 15th: Hamilton Industrial Environmental Association Community Advisory Panel
 - To be advised: MOE's Environmental Bill of Rights website
- Public can also submit comments directly to MOE:
 - Jeff Burdon
Standards Development Branch
jeff.burdon@ontario.ca
 - Geoff Knapper
Hamilton District Office
geoffrey.knapper@ontario.ca



Questions?

