

**ArcelorMittal Dofasco  
Alternative Standards Process  
Open House Summary Document**

**October 16, 2008**

The Ontario Government regulates local air quality through Ontario Regulation 419/05. Through Regulation 419, the province sets air quality standards based on values that protect against health and environmental effects. The Ministry of the Environment expects that companies will determine whether they will meet the new and more stringent standards by using updated air emissions models to predict the concentration of the pollutant at a “Point of Impingement (POI)” (specific location such as the fence line of the plant or a place in the community) and then compare the predicted value to the new standard or guideline. However, the Ministry acknowledges that sometimes it will take time for facilities to make the significant adjustments and investments needed to improve on their air emissions. For this reason the Alternative Standard Process was developed to establish interim site-specific standards with the goal of continuous improvement toward achieving the standard over time.

At ArcelorMittal Dofasco, we take our environmental responsibilities very seriously. Our 750-acre steelmaking complex features state-of-the-art facilities that are among the most efficient, flexible and technologically advanced in North America. As we have continually invested in upgrading our facilities over time, we have already implemented many emission-reduction technologies. Further changes to meet the new air emission limits will take additional time to design and implement once the appropriate technology has been identified. We have been preparing for the regulation since 2004 when the first facility-wide inventory was prepared for the site. We have invested thousands of hours of work to update and improve our assessment since then. Our consultants have spent significant effort in ensuring that the model is consistent with the Regulatory requirements and Ministry guidelines.

Our assessment indicates that the predicted concentration at the POI for two compounds may be above the new standards (suspended particulate matter and benzo(a)pyrene), and one additional compound is considered a “compound of interest” because of its association with health effects (benzene). This information is summarized in the following table:

Contaminant	Averaging Period [hours]	MOE POI Limit [ $\mu\text{g}/\text{m}^3$ ]	Limiting Effect	Regulation Schedule No.
Total Suspended Particulate	24-hour	120	Visibility	Schedule 3
Benzene	N/A	N/A	N/A	N/A
Benzo(a)Pyrene	24-hour	0.0011	Health	Guideline

The emission estimates and the dispersion modelling completed so far is very conservative and will require significant refining over the next several months. To this end we have been collecting samples from air monitors located on our property. To date, our modelling results are inconsistent with (higher than) local measured results in the community, indicating that our modelling is very conservative. Following MOE guidance and in accordance with the Regulation we will conduct an analysis combining both modeled and monitored results to ensure we have the best estimates of actual emission rates used in our model (conservative and not

underestimating). Through the Alternative Standards process, we will demonstrate that we are doing the best we can reasonably do to reduce these pollutants.

The following information will be submitted to the Ministry to support our application:

- A preliminary Emission Summary and Dispersion Modelling (ESDM) Report (October 31, 2008).
  - A refined ESDM Report that reflects the results from the modelling/monitoring study that is underway and will include an assessment of the magnitude and frequency of exceedances of the standard(s) *once this information is available (April 1, 2009)*
- Technology Benchmarking Report (TBR) that provides a listing of the possible material substitution, process changes and pollution control options that can be used to minimize the release of these pollutants, as well as information on the iron and steel industry in other jurisdictions.
- An Action Plan with a schedule of dates/timelines to complete the outstanding information. The Action Plan will be updated to assess and rank technical methods for reductions in emission concentrations and provide an assessment of feasible technologies identified in the TBR once the refined emission rates have been approved by the MOE.
- Public Consultation Report summarizing the feedback from this Open House.

A copy of the information included with the application can be provided to you upon request. Please complete the questionnaire that you were provided with at this Open House if you would like to receive any of these documents.

Your feedback is important to us. You can participate in the Alternative Standards Process by:

- Filling out a questionnaire - all input will be summarized and incorporated into the Public Consultation Report.
- Participating in future Community Forum - we will hold future community informational meetings once the refined emission estimates are available.
- Reviewing the EBR - Alternative Standard applications will be posted on the Ontario Environmental Registry (EBR) for comment:  
[http://www.ene.gov.on.ca/envision/env\\_reg/ebr/english/index.htm](http://www.ene.gov.on.ca/envision/env_reg/ebr/english/index.htm)
- Providing comments directly to ArcelorMittal Dofasco:

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