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## **Ontario's Development of a Proposed Technical Standard for the Metal Finishing Sector - Update**

November 13, 2013  
Canadian Association for Surface Finishing  
CASF Technical & Environmental Forum  
Vaughan, Ontario

# Overview

- Ontario's Local Air Quality Regulation
- Technical Standard Compliance Approach
- Update on development of a proposed technical standard for the metal finishing sector

# Local Air Quality Regulation

- Ontario's Local Air Quality Regulation (O. Reg. 419/05: Air Pollution – Local Air Quality) works within the province's air management framework by regulating air contaminants released into communities by various sources including local industrial and commercial facilities.
- Our goal is to limit exposure to substances released into air that can affect human health and the environment, while allowing industry to operate responsibly under a set of rules that are publicly transparent.

# Local Air Quality Regulation

The regulation includes three compliance approaches for industry to demonstrate environmental performance and make improvements when required:

**1** Demonstrate **compliance with the general 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 facilities affected by new or updated requirements. Assessed using approved air dispersion models or through modelling and monitoring.)

OR

**3** Register and meet the requirements under a **technical standard** for specified contaminants.

(Provided the MOE has developed a technical standard that applies to the sector and those contaminants.)

# Technical Standard Compliance Approach

- Technology-based solution designed for two or more facilities in a sector that may not be able to meet an air standard due to technical or economic limitations.
- Can include technology, operating, monitoring and reporting requirements.
- Development includes a better understanding of specific sources of contaminants for that sector, benchmarking technology to address the sources of contaminants and consideration of economic issues that related to the sector.
- Any facility in the sector (that may or may not meet the air standard) may request to be registered under the technical standard (once established).
- Goal is to have a more efficient tool to better manage air emissions and reduce overall exposure from various industrial and commercial facilities in a sector.
- There are two types of technical standards:

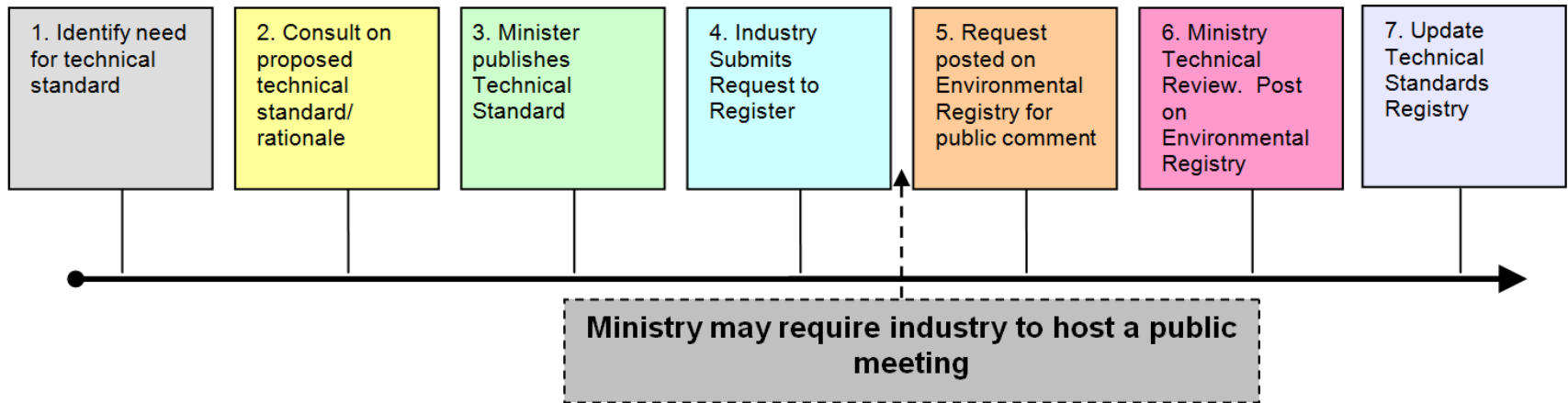
## Industry Standards

Address all sources of specified contaminants from a specific sector.

## Equipment Standards

Address one source of contaminant(s), but may apply to one or multiple sectors.

# Technical Standard Process



A facility that meets its obligations under a technical standard is in compliance with the regulation for the registered contaminants.

# Technical Standards

## Currently Established Technical Standards

- forest products industry standard
- foundries industry standard

## Technical Standards Under Development

- fiber glass insulation manufacturing
- foundries update (additional substances and sources)
- hot mix asphalt
- iron and steel (coke and by-products plants)
- metal finishers
- mine sites (excludes smelting and refining operations)
- mini-mills (iron and steel)
- petrochemical
- petroleum refineries
- pulp and paper mills (forest products update)

# Metal Finishing Sector

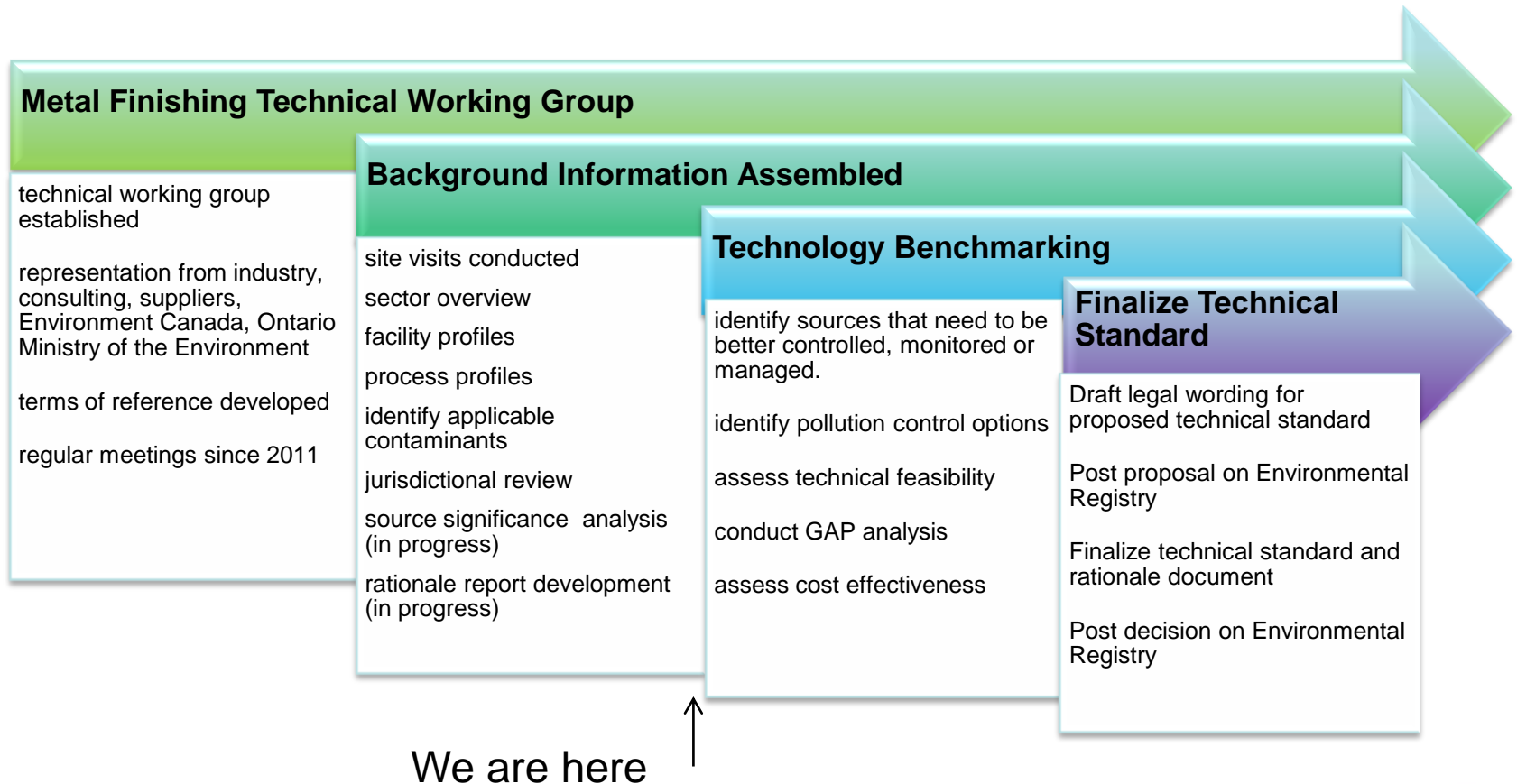
- Ontario's metal finishing sector identified challenges for their facilities in meeting the new **hexavalent chromium** air standard which takes effect July 1, 2016.
- Chromium compounds (hexavalent):
  - 0.00014  $\mu\text{g}/\text{m}^3$ , annual average (Schedule 3 Air Standard\*)
  - 0.0021  $\mu\text{g}/\text{m}^3$ , 1/2-hour average (Schedule 2 Air Standard\*)
  - 0.07  $\mu\text{g}/\text{m}^3$ , 24-hour average (Schedule 6 Upper Risk Threshold\*\*)
  - 0.21  $\mu\text{g}/\text{m}^3$ , 1/2-hour average (Schedule 6 Upper Risk Threshold\*\*)
- Ontario's metal finishing sector requested that the technical standard compliance approach be developed. They felt this option would be beneficial to the sector.

\* Air Standards - effective July 1, 2016

\*\* URTs - effective July 29, 2011



# Progress on Development of Proposed Metal Finishing Technical Standard



# How to Stay Informed

- Information on Local Air Quality Regulation is available at MOE website: [http://www.ene.gov.on.ca/environment/en/industry/standards/industrial\\_air\\_emissions/air\\_pollution/index.htm](http://www.ene.gov.on.ca/environment/en/industry/standards/industrial_air_emissions/air_pollution/index.htm)
- Information on Technical Standards is available at MOE website: [http://www.ene.gov.on.ca/environment/en/resources/STDPROD\\_078194.html](http://www.ene.gov.on.ca/environment/en/resources/STDPROD_078194.html)
- Once a draft is developed, a notice of the proposed metal finishing technical standard will be posted to the Environmental Registry for public comment.
- New policy proposals, requests for site-specific standards or registrations to technical standards proposals can also be found on the Environmental Registry: <http://www.ebr.gov.on.ca/ERS-WEB-External/index.jsp>
- Community or public consultation/engagement can occur at key milestones throughout the process.

# Contact Information

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# Questions?

# Appendix - Regulatory Pathways/Timelines for Hexavalent Chromium

