

Foundries – Industry Standard Supplemental Application Form

Section 1. General Information and Instructions

Information requested in this form is collected under the authority of the Environmental Protection Act, R.S.O. 1990 (EPA) and the Environmental Bill of Rights, C. 28, Statutes of Ontario, 1993, (EBR) and will be used to evaluate applications for Registration to a Technical Standard under Section 39 of Ontario Regulation 419/05: Air Pollution – Local Air Quality. It may be used for new applications for registration, for amendments to registrations and notifying the Director of any changes to the information required in this form in accordance with subsection 39 (6) of O. Reg. 419/05. If there is a change to the information provided in the sections marked with an asterisk, the Director must be notified of the change within 30 days. This form must be completed with respect to all requirements listed below and in accordance with the requirements of section 39 of O. Reg. 419/05 in order for it to be considered a request. The Ministry of the Environment may request additional information from the applicant during the technical review of any form accepted as complete.

Section 2. NAICS

List all North American Industry Classification System (NAICS) codes that apply to the facility and indicate which NAICS code describes the primary processes and activities of the facility:

Already recorded on the general application form?

- Yes
 No

	Description	Primary Code	Secondary or Other Applicable Code
331511	_____		
331514	_____		
331529	_____		
331529	_____		
Other Codes:	_____		

Section 3. Contaminants

Requested Contaminants for Registration: (please use attached Schedule A)

Section 4. Non-Ferrous Foundries that Use Lead*

Is the facility a “non-ferrous foundry that uses lead” (see definition in Foundries – Industry Standard)?

- Yes
 - No
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Section 5. Ventilation Coordinator

Name and Title of the Ventilation Coordinator and Date of Appointment:

Section 6. Facility Information

Written Description of Processes and activities performed at the facility, particularly if not considered typical foundry processes (e.g. coating/painting of castings):

Types of Products Manufactured at the facility:

Maximum Production Rates*:

All Facilities:

Total melt capacity in tonnes per day (i.e. 24 hours): _____

Total melt capacity in tonnes per month (i.e. 30 days): _____

Total pouring capacity in tonnes per day (i.e. 24 hours): _____

Total pouring capacity in tonnes per month (i.e. 30 days): _____

Grey Iron Castings:

Maximum tonnes melted, charged and poured/cooled per day: _____

Maximum tonnes melted, charged and poured/cooled per month: _____

Brass and Bronze Castings:

Maximum tonnes melted, charged and poured/cooled per day: _____

Maximum tonnes melted, charged and poured/cooled per month: _____

Operating Scenarios:

Continuous or Batch/Job shop or both: _____

Raw Materials:

Is external (e.g. not originating from the facility) scrap used as a raw material?

Yes

No

Product alloy with highest lead content: _____

Highest Weight Percent Lead (%)*: _____

Maximum tonnes poured of alloy with highest lead content per year, per 30 days and per day*:

Annual: _____

30 Days: _____

Daily: _____

Average tonnes poured of alloy with highest lead content per year, per 30 days and per day*:

Annual: _____

30 Days: _____

Daily: _____

Section 7. Source Information*

Existing Sources:

Sources			Capacity	Local Exhaust Ventilation		Pollution Control Equipment	
Type of Furnace	Number of Furnaces	Use (e.g. Melt / Hold)	Melt / Hold Capacity (tonnes per hour)	Currently in use? (Yes or No)	If yes, describe type (e.g. roof-mounted, side draft, canopy hoods, direct furnace extraction, partial furnace enclosure, total furnace enclosure)	Currently in use? (Yes or No)	If yes, describe type (e.g. 6 compartment pulse-jet baghouse, venturi scrubber)
Coke-fired Cupola Furnaces							
Gas-fired Cupola Furnaces							
Crucible Furnaces							
Induction Furnaces							
Electric Arc Furnaces							
Open Hearth Furnaces							
Rotary Furnaces							
Reverberatory Furnaces							
Other, please specify							

Sources			Capacity	Local Exhaust Ventilation		Pollution Control Equipment	
Pouring Station/Area (use facility's name for area, e.g. Turntable 1)	Number	Type (e.g. turntable)	Capacity (tonnes poured per hour)	Currently in use? Yes / No	If yes, describe type (e.g. canopy hoods, direct extraction, partial enclosure, total enclosure)	Currently in use? Yes / No	If yes, describe type (e.g. 6 compartment pulse-jet baghouse, venturi scrubber)

Sources			Capacity	Local Exhaust Ventilation		Pollution Control Equipment	
Finishing Operation/Area	Number	Type (e.g. automated manual)	Capacity (tonnes per hour)	Currently in use? Yes / No	If yes, describe type (e.g. slotted hood, side draft hood, canopy hoods, direct extraction, partial enclosure, total enclosure)	Currently in use? Yes / No	If yes, describe type (e.g. 6 compartment pulse-jet baghouse, venturi scrubber)
Cutting							
Trimming							
Grinding							
Sand Blasting							
Other Blasting							
Mold and Core Making Operation/Area	Number	Type (e.g. Amine Based, SO2 based)	Capacity (molds/cores per hour)	Currently in use? Yes / No	If yes, describe type (e.g. slotted hood, side draft hood, canopy hoods, direct extraction, partial enclosure, total enclosure)	Currently in use? Yes / No	If yes, describe type (e.g. 6 compartment pulse-jet baghouse, venturi scrubber)
Hot Box							
Warm Box							
Shell Core							
Cold Box using amine catalyst							
Shakeout							
Cooling of casting Operation/ Area	Number	Type (e.g.	Capacity (tonnes per hour)	Currently in use? Yes / No	If yes, describe type (e.g. slotted hood, side draft hood, canopy hoods, direct extraction, partial enclosure, total enclosure)	Currently in use? Yes / No	If yes, describe type (e.g. 6 compartment pulse-jet baghouse, venturi scrubber)
Cooling line							
Cooling area							

Section 8. Building, Stack and Exhaust Information

Has a table of the heights and diameters of stacks and exhausts of the sources listed in the Technical Standard been attached?

- Yes
- No

Has a table of the heights of all buildings, including all tiers, and structures been attached?

- Yes
- No

Section 9. Environmental Management

Does the facility have a documented management system (e.g. QS 9000 or ISO 14001)?

- Yes
- No

Is the facility externally assessed (e.g. certification/registration/audited) against the requirements of a documented management system (e.g. QS 9000 or ISO 14001), and when was the last third party assessment conducted?

- Yes
- No

Date of the last third party assessment: _____

Has the facility implemented an environmental communication procedure?

- Yes
- No

Does the facility have a public liaison committee or similar type of outreach to its neighbours?

- Yes
- No

Schedule A: Requested Contaminants

Suspended Particulate Matter:

Requesting Registration (Yes / No)	Contaminant	CAS Number	Requesting Registration (Yes / No)	Contaminant	CAS Number
	Aluminum	7429-90-5		Nitrates	14797-55-8
	Antimony	7440-36-0		Organic Carbon	Not Available
	Arsenic	7440-38-2		Palladium	7440-05-3
	Barium	7440-39-3		Phosphorus	7723-14-0
	Beryllium	7440-41-7		Platinum	7440-06-4
	Bromine	7726-95-6		Potassium	7440-09-7
	Boron	7440-42-8		Rhodium	7440-16-6
	Cadmium (and Cadmium Compounds)	7440-43-9		Rubidium	7440-17-7
	Calcium	7440-70-2		Selenium	7782-49-2
	Carbon	7440-44-0		Silica	14808-60-7
	Chlorine	7782-50-5		Silicon	36 7440-21-330194, 12597-37-40
	Chromium (and Chromium Compounds)	7440-47-3		Silver	7440-22-4
	Cobalt	7440-48-4		Sodium	7440-23-5
	Copper (and Copper Compounds)	7440-50-8		Strontium	7440-24-6
	Gallium	7440-55-3		Sulphates	Not Available
	Hexavalent Chromium	18540-29-9		Sulphur	7704-34-9
	Indium	7440-74-6		Suspended particulate matter	Not Applicable
	Iron	7439-89-6		Thallium	7440-28-0
	Lanthanum	7439-91-0		Tin and Compounds	7440-31-5
	Lead (and Lead Compounds)	7439-92-1		Titanium	7440-32-6
	Magnesium	7439-95-4		Vanadium	7440-62-2
	Manganese (and Manganese Compounds)	7439-96-5		Yttrium	7440-65-5
	Mercury	7439-97-6		Zinc and Compounds	7440-66-6

	Molybdenum	7439-98-7		Zirconium	7440-67-7
	Nickel (and Nickel Compounds)	7440-02-0			

Volatile Organic Compounds

Requesting Registration (Yes / No)	Contaminant	CAS Number	Requesting Registration (Yes / No)	Contaminant	CAS Number
	1,3-Dimethyl naphthalene	575-41-7		Dibenzo(a,h)+(a,c) anthracene	53-70-3, 215-58-7
	1,4-Dimethyl naphthalene	571-58-4		Dibenzofuran	132-64-9
	1,8-Dimethyl naphthalene	569-41-5		Ethyl alcohol	64-17-5
	1-Methyl naphthalene	90-12-0		Ethylbenzene	100-41-4
	2,3,5-Trimethyl naphthalene	2245-38-7		Fluoranthene	206-44-0
	2,3-Dimethyl naphthalene	581-40-8		Formaldehyde	50-00-0
	2,6-Dimethyl naphthalene	581-42-0		Furfuryl alcohol	98-00-0
	2,7-Dimethyl naphthalene	582-16-1		Hydrogen Cyanide	74-90-8
	2-Methyl naphthalene	91-57-6		Hydrogen Sulphide	7783-06-4
	4,4-Methylene Dianiline	101-77-9		Indeno(1,2,3-cd)pyrene	193-39-5
	Acenaphthalene	208-96-8		Methyl Alcohol	67-56-1
	Acetaldehyde	75-07-0		Methylene (b) 4-phenylisocyanate	101-68-8
	Acetophenone	98-86-2		Naphthalene	91-20-3
	Acrolein	107-02-8		n-Hexane	110-54-3
	Ammonia	7664-41-7		Nitrobenzene	98-95-3
	Aniline	62-53-3		Perylene	198-55-0
	Anthranthrene	191-26-4		Phenanthrene	85-01-8
	Anthracene	120-12-7		Phenol	108-95-2
	Benzene	71-43-2		Phenyl isocyanate	103-71-9
	Benzo(a)anthracene	56-55-3		Propanol	123-38-6
	Benzo(a)fluoranthene	203-33-8		Pyrene	129-00-0
	Benzo(a)pyrene	50-32-89784, 34505-58-30		Styrene	100-42-5

Requesting Registration (Yes / No)	Contaminant	CAS Number	Requesting Registration (Yes / No)	Contaminant	CAS Number
	Benzo(b)+(k)fluoranthene	205-99-2, 207-08-9		Toluene	108-88-3
	Benzo(b)fluoranthene	205-99-2		Total Aldehydes (C2-C25)	Not Applicable
	Benzo(e)pyrene	192-97-2		Total Amines	Not Applicable
	Benzo(g,h,i)perylene	191-24-2		1,2,4-trimethylbenzene	95-63-3
	Benzo(k)fluoranthene	207-08-9		Trimethylfluorosilane	420-56-4
	Chrysene	218-01-9		Xylene, m-,p-	108-38-3, 106-42-3
	Cresol, o-	95-48-7		Xylene, o-	95-47-6
	Cumene	98-82-8		Xylene, total	1330-20-7
	Dibenz(a,h)anthracene	53-70-3			

Other

Requesting Registration (Yes/No)	Contaminant	CAS Number
	Sulphur dioxide	7446-09-5