

Memo to File

March 31, 2019

Subject: Foundries – Industry Standard
Registration Number 201-18-393-rv0
Annual Summary Report

The attached tables and information summarize the performance of **Winoa Canada** as they relate to the requirements contained in the Foundries Industry Standard. As per section 18, the following information must be produced by March 31 of each year for a period ending the previous calendar year. The following information is attached:

FIS §	Description
18.1	Implementation Summary Table
18.2	Summary of Ventilation Systems Changes (Change Management Review)
18.5	Summary of Operating Parameter Summary Table Changes
18.6	Summary of Deviations
18.7	Performance Summary Table
18.8	Summary of Recurring Malfunctions
18.9	Summary of Inspection and Maintenance Summary Table Changes
18.10	Annual Summary of Changes to Source Information Table
18.11	Complaint Summary Table

I have reviewed the information contained herein and based upon my inquiry of those responsible for the preparation of this document certify to best of my knowledge that it is accurate and complete.

WINOA – North America



Jeff Glaser
VP of Operations

SUMMARY REPORTS FOUNDRIES – INDUSTRY STANDARD

IMPLEMENTATION SUMMARY TABLE – FIS §18.1

FIS §	Requirement	Compliance Date	Implementation Date	Implementation Status (n/a, complete, incomplete)
1.	Definitions	<u>a/</u>	May 8, 2018	Complete
2.	Application	<u>a/</u>	May 8, 2018	Complete
3.	Reduction of Priority Metals	<u>a/</u>	January 3, 2013	Complete
4.	Operational Practices – Minimization of SPM	<u>a/</u>	November 27, 2014	Complete
5.	Reducing Fugitive Emissions	<u>a/</u>	May 8, 2018	Complete
5.1	Ventilation Program	<u>a/</u>	May 8, 2018	Complete
5.2	Volumetric Flow Rates – In/Out	<u>a/</u>	May 8, 2018	Complete
5.3	Building Differential Pressure	<u>a/</u>	Not Applicable	Table under 5.2 completed
5.4	Change Management - Ventilation	<u>b/</u>	Not Applicable	No changes made since registration
5.5	Multi-tenant Buildings - SPM	<u>a/</u>	Not Applicable	Sole occupant of site
6.	Ventilation Assessment – Capture of Lead	<u>a/</u>	Not Applicable	Not a lead foundry
7.	Ventilation and Pollution Control – Optimizing Capture of Lead	<u>a/</u>	Not Applicable	Not a lead foundry
8.	Ventilation and Pollution Control – Optimizing Capture of SPM – New or Modified Facilities	<u>b/</u>	Not Applicable	Not a new or modified facility
9.	Ventilation and Pollution Control – Optimizing Capture of Lead – New or Modified Facilities	<u>b/</u>	Not Applicable	Not a lead foundry
9.1	Vertical and Unimpeded Discharges	<u>a/</u>	May 8, 2018	Complete
10.	Coke-Fired Cupola Furnaces	<u>a/</u>	Not Applicable	No coke fired furnaces
10.1 to 10.3	Thermal Sand Reclaimers	<u>a/</u>	Not Applicable	No thermal sand reclaimers
10.4	Thermal Oxidizers	<u>a/</u>	Not Applicable	No thermal oxidizers
10.5	Catalytic Oxidizers	<u>a/</u>	Not Applicable	No catalytic oxidizers
10.6	Liquid Spray Coating Process	<u>a/</u>	Not Applicable	No liquid spray coating
10.7	EAF or Argon Oxygen Converter	<u>a/</u>	May 8, 2018	Complete
10.8	Pollution Control – Torch Cutting	<u>a/</u>	Not Applicable	No torch cutting
10.9	Pollution Control – Aluminum Reverberatory Furnace	<u>a/</u>	Not Applicable	Not an aluminum foundry

IMPLEMENTATION SUMMARY TABLE – FIS §18.1

FIS §	Requirement	Compliance Date	Implementation Date	Implementation Status (n/a, complete, incomplete)
11.	Operating Parameter Summary Table	<u>a/</u>	May 8, 2018	Complete
11.1	Measurement of Operating Parameters	<u>a/</u>	May 8, 2018	Complete
11.2	Deviations from operating parameters	<u>c/</u>	Not Applicable	No deviations since registration
11.3	Notification of Deviations	<u>c/</u>	Not Applicable	No deviations since registration
11.4	Phase-in for New Equipment	<u>c/</u>	Not Applicable	No new equipment since registration
11.5	Inspection and Maintenance Table	<u>a/</u>	May 8, 2018	Complete
11.6	Inspection and Maintenance Activities	<u>a/</u>	May 8, 2018	Complete
11.7	Deviations – Inspection and Maintenance	<u>c/</u>	Not Applicable	No deviations since registration
11.8	Recurring Malfunctions	<u>c/</u>	Not Applicable	No recurring malfunctions since registration
12.	Operational Practices – Minimization of VOCs	<u>a/</u>	November 27, 2014	Complete
13.	Pollution Control – Minimization of total amines	<u>a/</u>	Not Applicable	Amines not included in FIS application
14.	Operational Practices – Minimization of Sulphur Dioxide	<u>a/</u>	Not Applicable	SO ₂ not included in FIS application
15.	Pollution Control – Minimization of Sulphur Dioxide	<u>a/</u>	Not Applicable	SO ₂ not included in FIS application
16.	Complaint Procedure	<u>a/</u>	May 8, 2018	Complete
17.	Identifying Managed Sources	<u>a/</u>	May 8, 2018	Complete
17.1	Requirement to Continue Management of Sources	<u>a/</u>	May 8, 2018	Complete
17.2	Changes to Managed Sources	<u>b/</u>	Not Applicable	No changes made since registration
17.3	Specified Management of Sources	<u>b/</u>	Not Applicable	No specifications made by Director
17.4	Notification of Changes to Management of Sources	<u>b/</u>	Not Applicable	No changes made since registration
18.	Summary Reports	<u>a/</u>	March 31, 2019	Complete
19.	Records	<u>a/</u>	May 8, 2018	Complete

a/ Compliance required upon Registration to the Foundries - Industry Standard {Place the actual date in the table}.

b/ Compliance required upon major modification of existing or installation of new equipment.

c/ Compliance required as needed based on changes or deviations.

Summary of Operating Parameter Summary Table Changes – FIS §18.5

No changes to the Operating Parameter Summary Table were made in the previous calendar year.

Summary of Deviations – FIS §18.6

There were no deviations reported in the previous calendar year for the following items:

- FIS Section 5.1(3) – Ventilation system deviations from described operations.
- FIS Section 11.2(2) – Deviations from operating parameters
- FIS Section 11.7(4) – Deviations from inspection and maintenance procedures

SUMMARY OF DEVIATIONS

FIS §	Description	Notes
18.6(i)	Summary of any deviations noted under FIS s 5.1(3), 11.2(2), or 11.7(4)	No deviations occurred during the previous calendar year
18.6(ii)	Changes in number of deviations from previous year	No change in number of deviations
18.6(iii)	Number of times an event that caused one or more deviations occurred during the calendar year	No events occurred causing any deviations during the calendar year
18.6(iv)	Were any events noted above of particular concern	No events occurred causing any deviations during the calendar year
18.6(v)	Do the number of events noted under subparagraph iii indicate a recurring issue	No events occurred causing any deviations during the calendar year
18.6(vi)	Explanation of actions taken to address events	No events occurred causing any deviations during the calendar year

PERFORMANCE SUMMARY TABLE – FIS §18.7

FIS §	Description	Notes
12(2)	Director's written notice for minimization of VOC	No Director's notices issued to facility in previous calendar year
17.2(4)	Director's written notice for change to managed sources	No Director's notices issued to facility in previous calendar year
11(14)	Director's order for information regarding Operating Parameter Summary Table	No Director's orders issued to facility in previous calendar year
11.5(7)	Director's order for information regarding Inspection and Maintenance Summary Table	No Director's orders issued to facility in previous calendar year
17.3	Director's order for specified management of sources	No Director's orders issued to facility in previous calendar year

SUMMARY OF RECURRING MALFUNCTIONS – FIS §18.8

Notification Number	Notification Date	Plan Summary	Action Summary
NA			

NA – No notifications were required during the reporting period.

Summary of Inspection and Maintenance Summary Table Changes

No changes to the Inspection and Maintenance Summary Table were made in the previous calendar year.

ANNUAL SUMMARY OF CHANGES TO SOURCE INFORMATION

Foundry Equipment/Process	Description of Exhaust System	Control Method	Changes During Reporting Period
EAF	EAF/Casting Ventilation System including canopy hood	Baghouse – Fabric Filter Reverse Pulse Jet Cleaned equipped with leak detection (DC501)	None
Casting	EAF/Casting Ventilation System including canopy hood	Baghouse – Fabric Filter Reverse Pulse Jet Cleaned equipped with leak detection (DC501)	None
Annealing/Tempering and Quenching	Quenching Ventilation System equipped with direct extraction	Baghouse – Fabric Filter Reverse Pulse Jet Cleaned equipped with leak detection (DC502)	None
Shot and Grit Tempering and Crushing	Tempering/Crusher Ventilation System equipped with direct extraction	Baghouse – Fabric Filter Reverse Pulse Jet Cleaned equipped with leak detection (DC503)	None
Ermat Dryer	Drying Ventilation System equipped with direct extraction	Baghouse – Fabric Filter Reverse Pulse Jet Cleaned equipped with leak detection (DC504)	None



preparing tomorrow's surfaces

Winoa Canada, Inc.
 650 Rushome Rd
 Welland, Ontario L3B 5R4
 Phone: (905)736-5139
 Fax: (905)735-8573

COMPLAINT SUMMARY TABLE – 2018

No.	Complaint Type (check one)				Date of Complaint	Description
	Odour	Smoke	Noise	Other		

Total number of complaints received = 0 {*Summation of current year complaints*}
 Total number of previous year complaints = 0

Explanation of difference in number of complaints received: