

Toxics Reduction Plan

SUMMARY

Rahnmet

141 Regina Street North Bay, Ontario P1A 1A1

Prepared by:

Erica Hoetmer Supervisor, Technical & Environmental (Induspec) February 26, 2014



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1. Plan Summary Statement

This plan summary accurately reflects the contents of the toxic substance reduction plan for lead and copper compounds prepared for Rahnmet - North Bay, dated February 26, 2014.

2. Statement of Intent

Lead and copper are currently utilized as feedstock materials for the foundry process at Rahnmet. Since the foundry process is a key component of the North Bay facility, the focus of this reduction plan will be to reduce the emission of lead and copper oxides to the atmosphere by equipment modifications.

3. Objective

Rahnmet has a long history of producing various crusher components for the mining industry. Rahnmet is committed to operating in a fashion that protects the health and safety, environment and the quality of product. Rahnmet will strive to further improve its environmental performance by reducing emissions of metal oxides. The plan determined the technical and economic feasibility of each identified metal oxide reduction option and determined which are viable for implementation at this time.

4. Basic Facility Information

Substances reported in plan: Lead (and its compounds) (CAS # NA-08)

Copper (and its compounds) (CAS# NA-06)

Facility NPRI Identification Number: 11220

Facility Address: Rahnmet - North Bay

141 Regina Street North Bay, Ontario

P1A 1A1

Owner Address: Rahnmet - North Bay

141 Regina Street North Bay, Ontario

P1A 1A1

Public Contact: Paul Lacasse, President

141 Regina Street (705) 474-0410

Full Time Equivalent Employees: <100

Two Digit NAICS Code: 33

Four Digit NAICS Code: 3315

Six Digit NAICS Code: 331529

Spacial Coordinates (UTM w/ NAD83 Datum): UTM Zone 17

Latitude 46.30370



Longitude -79.46170

UTM Easting 618398.0

UTM Northing 5128953.0

5. Description of Lead and Copper Use

Lead and copper material is melted in a furnace which is then poured into a mold to form a rough casting. Lead and copper are contained in the rough castings which are further refined into final products. While heating in the furnace, exposure to oxygen and other oxidizing agents cause both lead and copper to form oxides. These oxides are in the form of solid drosses which are sent off-site for recycling. Metal oxides also enter the waste air stream. The waste air is filtered in a fume hood where the air is filtered and dust is collected before being emitted to the atmosphere. The collected dust is sent off-site for recycling.

6. Description of Options

Through a thorough investigative process which focused on the reduction of metal oxide emission, it was discovered that there are opportunities to upgrade the environmental control systems at Rahnmet. This will allow for greater entrapment and recycling of metal oxides. Furthermore, there has not been any stack testing at the Rahnmet site in the recent past. As a result of these outlined discoveries, the options identified to reduce the emission of metal oxides centre around maintenance and equipment modifications. Furthermore, Rahnmet will conduct stack testing so that more recent and relevant information regarding metal oxides is available. It is felt that the aforementioned program can reduce the emission of metal oxides by up to 25%. It is expected that reduction options will be examined for feasibility in the summer of 2015.



7. Certification by Highest Ranking Employee

As of February 26, 2014, I, Paul Lacasse, certify that I have read the toxic substance reduction plan for lead and copper and am familiar with its contents. To my knowledge the plan is factually accurate and, with the exception of the regulatory deadline, the plan complies with the *Toxics Reduction Act*, 2009 and Ontario Regulation 455/09 (General) made under that Act.

Paul Lacasse President

Rahnmet, North Bay

8. Certification by Toxics Reduction Planner

As of February 26, 2014, I, Thorsten Brost, certify that I have read the toxic substance reduction plan for lead and copper and am familiar with its contents. To my knowledge the plan is factually accurate and, with the exception of the regulatory deadline, the plan complies with the *Toxics Reduction Act, 2009* and Ontario Regulation 455/09 (General) made under that Act.

Thorsten Brost, P. Eng. (Planner License # TSRP0225)

Partner, Engineering

Induspec