



APPROVAL TO OPERATE

I-10802

Pursuant to paragraph 5 (3) (a) of the *Air Quality Regulation - Clean Air Act*, this Approval to Operate is hereby issued to:

D & N METALS CO. LTD.
for the operation of the
Grand Falls Metal Reclamation Facility

Description of Source: **SCRAP METAL RECLAMATION FACILITY**

Source Classification: **Air Quality Regulation** **Class 3**

Parcel Identifier: **65214280**

Mailing Address: **304 Kelly Road
Grand Falls, NB E3Z 1K3**

Conditions of Approval: **See attached Schedule "A" of this Approval**

Supersedes Approval: **I-9000**

Valid From: **February 05, 2020**

Valid To: **February 04, 2025**

Recommended by: _____

Issued by: _____

for the Minister of Environment and Local Government

January 23, 2020

Date

SCHEDULE "A"

A. DESCRIPTION OF SOURCE

D & N Metals Co. Ltd. operates a metal reclamation facility near Grand Falls. Aluminum and copper wire, scrap metal from industrial facilities, lead acid batteries, scrap power transformers and many other metal laden components are recycled into product streams containing similar and recoverable metals. After removal of larger non-metallic materials, the metals are sorted and processed (cutting, crushing) according to the requirements of customers, which further process or re-use the metallic streams.

There exist potential environmental impacts from: 1) emissions of combustion gases, particulate matter and metals from the sweat furnace; 2) contamination of soils surrounding the facility by contact with the metal components; 3) soil, groundwater and surface water contamination by transformer oils potentially contaminated with polychlorinated biphenyls (PCBs); 4) solid waste consisting of slag, dross, plastics, wood and packaging materials; 5) odours; and 6) elevated noise levels.

The operation of the metal reclamation facility, located at 304 Kelly Road, near the Town of Grand Falls, in the County of Victoria, and the Province of New Brunswick and referred to by parcel identifier (PID) 65214280, is hereby approved **subject to the following:**

B. DEFINITIONS

"after hours" means the hours when the *Department's* offices are closed. These include statutory holidays, weekends, and the hours before 8:15 a.m. and after 4:30 p.m. from Monday to Friday.

"Approval Holder" means the name listed on the Certificate page of this Approval.

"Department" means the New Brunswick Department of Environment and Local Government.

"Environmental Emergency" means a situation where there has been or will be a release, discharge, or deposit of a contaminant or contaminants to the atmosphere, soil, surface water, and/or groundwater environments of such a magnitude or duration that it could cause significant harm to the environment or put the health of the public at risk.

"Facility" means the property, buildings and equipment located on the property identified by the Parcel Identifier(s) on the Certificate page of this Approval, and all contiguous property in the title and/or control of the *Approval Holder* at that location.

"normal business hours" means the hours when the *Department's* offices are open. These include the period between 8:15 a.m. and 4:30 p.m. from Monday to Friday excluding statutory holidays.

"PCBs" means polychlorinated biphenyls that have a molecular formula $C_{12}H_{10-n}Cl_n$ where n has a value greater than 2.

C. EMERGENCY REPORTING

1. **Immediately** following the discovery of an *Environmental Emergency*, the *Approval Holder* shall notify the *Department* in the following manner:

During *normal business hours*, telephone the *Department's* Grand Falls Regional Office **until personal contact is made** (i.e. no voice mail messages will be accepted) and provide as much information that is known about the *Environmental Emergency*. The telephone number for the Grand Falls Regional Office is provided below:

Grand Falls Regional Office (506) 473-7744

After hours, telephone the National Environmental Emergencies Center (NEEC) **until personal contact is made** and provide as much information that is known about the *Environmental Emergency*. The telephone number for the NEEC is **1-800-565-1633**.

2. Within 24-hours of the time of initial notification, the *Approval Holder* shall send a **Preliminary Emergency Report** to the *Department's* Grand Falls Regional Office and to the *Department's* Central Office using the fax numbers provided below. The Preliminary Emergency Report shall clearly communicate all information available at the time about the *Environmental Emergency*.

Within five (5) days of the time of initial notification, the *Approval Holder* shall send a **Detailed Emergency Report** to the *Department's* Grand Falls Regional Office and to the *Department's* Central Office using the fax numbers provided below:

Grand Falls Regional Office (fax): (506) 475-2510
Central Office (fax): (506) 453-2390

The **Detailed Emergency Report** shall include, as a minimum, a description of the following:

- i) the problem that occurred;
- ii) the impact that occurred;
- iii) what was done to minimize the impact; and
- iv) what was done to prevent recurrence of the problem.

D. GENERAL INFORMATION

3. The issuance of this Approval does not relieve the *Approval Holder* from compliance with any other applicable federal or provincial Acts and regulations as well as with local bylaws.
4. The Terms and Conditions of this Approval are severable. If any term or condition of this Approval is held invalid, is revoked or is modified, the remainder of the Approval shall not be affected.

E. TERMS AND CONDITIONS

GENERAL CONDITIONS

5. This *Facility* has been classified as a **Class 3** source, pursuant to the *Air Quality Regulation, New Brunswick Regulation 97-133* filed under the *Clean Air Act*. The *Approval Holder* shall pay the appropriate fee **on or before April 1 of each year**.
6. The *Approval Holder* shall notify the *Department* in writing of any plans to modify the operation of the *Facility* that would result in a significant change in the characteristics or increased rate of discharge of any emission to the atmosphere **at least ninety (90) days prior** to the modification.
7. The *Facility* shall be used exclusively for the receiving, sorting, melting and casting of metals as described in this Approval. The *Approval Holder* shall ensure that all metal materials melted in the sweat furnace are free of rubber and plastics. There are to be no rubber or plastics introduced into the sweat furnace at any time.
8. The *Approval Holder* shall ensure that written records relating to each load of scrap received are maintained for a period of two (2) years. The records shall include the date received, the origin, type, and total weight of each metal received and the destination of the recycled materials.
9. The *Approval Holder* shall ensure that copper or aluminum wire is not processed through the sweat furnace.
10. The *Approval Holder* shall ensure that any scrap transformers are handled in a manner that prevents the release of residual transformer oil to the environment. All transformers shall be dismantled on a drip tray or other device that recovers any residual oil. All transformers shall be stored in an upright position with the cover and any openings sealed to prevent rain or snow from accumulating inside the transformers.

SOLID WASTE MANAGEMENT

11. The *Approval Holder* shall ensure that the solid waste generated at the *Facility* is disposed of in a manner acceptable to the *Department*. The disposal of the scrap metal, slag, and dross materials to foundries for recycling is acceptable. Other solid waste may be discarded at an approved landfill.

EMISSIONS AND DISCHARGES

12. The *Approval Holder* shall ensure that all air pollution control equipment, including the primary burners, secondary burner and afterburner, are fully functional and in operation during operation of the sweat furnace. The afterburner shall remain in operation for a period of one (1) hour following shut down of the primary burners to burn off any unburned hydrocarbons remaining in the furnace after operation.
13. The *Approval Holder* shall ensure that during operation of the sweat furnace, the temperature in the afterburner chamber is maintained at no less than 900°C (1650°F), with a minimum gas residence time of one (1) second in the afterburner chamber.
14. In the event of failure of any of the primary burners, secondary burner, or afterburner during the operation of the furnace, the *Approval Holder* shall complete the charge being processed at the time of failure, and no further material shall be charged to the furnace until such time as all burners are fully functional.

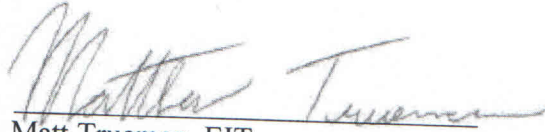
TESTING AND MONITORING

15. Where scrap power transformers are received at the *Facility*, the *Approval Holder* shall ensure that the transformers have been drained and the interior is dry prior to shipment to the *Facility*. The *Approval Holder* shall also ensure that the transformer oil has been tested prior to arrival at the *Facility* and has been proven to contain less than 2 mg/kg (2 ppm) of PCBs. Supporting documentation containing the results of testing of transformer oil for PCB content shall be maintained for a period of five (5) years.
16. In the event that there is residual transformer oil in the scrap transformer, the *Approval Holder* shall ensure that it be recovered, stored separately, sampled and analyzed for PCBs prior to disposal. Transformer oil containing PCBs at a detectable concentration shall be reported to the *Department* immediately and such oil shall not be disposed of without the prior written approval from the *Department*.
17. The *Approval Holder* shall conduct any testing and monitoring at such times and in such manner as the *Department* may, in writing, require.

REPORTING

18. Two (2) weeks prior to the start-up of the sweat furnace, the *Approval Holder* shall advise the *Department's* Grand Falls Regional Office by fax at (506) 475-2510 of the intended operating dates of the sweat furnace.

Prepared by:



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Reviewed by:



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