



GOVERNMENT OF  
NEWFOUNDLAND AND LABRADOR  
Department of Municipal Affairs and Environment

## CERTIFICATE OF APPROVAL

Pursuant to the Environmental Protection Act, SNL 2002 c E-14.2 Section 83

Issue Date: **March 28, 2019**

Approval No. AA19-035655

Expiration: **December 31, 2023**

File No. 731.632.01

Proponent: **Vale Newfoundland & Labrador Limited**  
KMK Place, 2<sup>nd</sup> Floor  
18 Hebron Way  
St. John's, NL  
A1A 0L9

Attention: **Mr. Matt Hynes, Superintendent – Safety, Health and Environment**

Re: **Permanent Diesel Generator Units at Satellite Powerhouses**

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Approval is hereby given for: the installation and operation of six (6) diesel generator units located at two satellite powerhouses at Voisey's Bay, Labrador.

This Certificate of Approval does not release the proponent from the obligation to obtain appropriate approvals from other concerned provincial, federal and municipal agencies. Nothing in this Certificate of Approval negates any regulatory requirement placed on the proponent. Where there is a conflict between conditions in this Certificate of Approval and a regulation, the requirement in the regulation shall take precedence. Approval from the Department of Municipal Affairs and Environment shall be obtained prior to any significant change in the design, construction, installation, or operation of six (6) permanent diesel generator units at two satellite powerhouses at Voisey's Bay, including any future expansion of the works. This Certificate of Approval shall not be sold, assigned, transferred, leased, mortgaged, sublet or otherwise alienated by the proponent without obtaining prior approval from the Minister.

This Certificate of Approval is subject to the terms and conditions as contained therein, as may be revised from time to time by the Department. Failure to comply with any of the terms and conditions may render this Certificate of Approval null and void, may require the proponent to cease all activities associated with this Certificate of Approval, may place the proponent and its agent(s) in violation of the *Environmental Protection Act*, and will make the proponent responsible for taking such remedial measures as may be prescribed by the Department. The Department reserves the right to add, delete or modify conditions to correct errors in the Certificate of Approval or to address significant environmental or health concerns.

  
For **MINISTER**

**TERMS AND CONDITIONS FOR APPROVAL No. AA19-035655**

March 28, 2019

**General**

1. This Certificate of Approval is for the installation and operation of six (6) prime power diesel generator units, as outlined in Table 1, located at two satellite powerhouses at Voisey’s Bay in Labrador. Extensive future expansion or change of activities will require a separate Certificate of Approval.

<b>Table 1 – List of Diesel Generator Units – Satellite Powerhouses - Voisey’s Bay</b>					
<b>Generator #</b>	<b>Location</b>	<b>EDMS Location</b>	<b>Unit #</b>	<b>Date of Engine Manufacture</b>	<b>Date of Installation</b>
1899-7322-8007	Eastern Deeps	00684	TBD	Planned for 2019	Planned for 2019
1899-7322-8008	Eastern Deeps		TBD	Planned for 2019	Planned for 2019
1899-7322-8009	Eastern Deeps		TBD	Planned for 2019	Planned for 2019
1897-7322-8010	Reid Brook Mine	00685	TBD	Planned for 2019	Planned for 2019
1897-7322-8011	Reid Brook Mine		TBD	Planned for 2019	Planned for 2019
1897-7322-8012	Reid Brook Mine		TBD	Planned for 2019	Planned for 2019
NOTE #1: Entries in Table 1 marked “TBD” and “Planned for 2019” are to be provided by Vale VB to the Department prior to the particular unit being put into service.					
NOTE #2: The characteristics for the six diesel generating units are as follows:					
<b>Make/Model:</b>		Caterpillar-Mak/12CM32E			
<b>Engine:</b>		Caterpillar/Mak			
<b>Continuous Rating:</b>		6409 kW			

2. Any inquiries concerning this Approval shall be directed to the St. John’s office of the Pollution Prevention Division [telephone: (709) 729-2556; or facsimile: (709) 729-6969].
3. In this Certificate of Approval:
- **Department** means the Department of Municipal Affairs and Environment and its successors;
  - **Director** means the Director of the Pollution Prevention Division of the Department;
  - **GAP** means *Storage and Handling of Gasoline and Associated Products Regulations, 2003*;
  - **licensed** means has a Certificate of Approval issued by the Minister to conduct an activity;
  - **Minister** means the Minister of the Department;

- **registered** means that information regarding the storage tank system has been submitted to a Service NL office and a registration number has been assigned to the storage tank system;
  - **regulated substance** means a substance subject to discharge limit(s) under the *Environmental Control Water and Sewage Regulations, 2003*;
  - **spill or spillage** means a loss of gasoline or associated product in excess of 70 litres from a storage tank system, pipeline, tank vessel or vehicle, or an uncontrolled release of any volume of a regulated substance onto or into soil or a body of water;
  - **storage tank system** means a tank and all vent, fill and withdrawal piping associated with it installed in a fixed location and includes a temporary arrangement;
  - **used lubricating oil** means lubricating oil that as a result of its use, storage or handling, is altered so that it is no longer suitable for its intended purpose but is suitable for refining or other permitted uses;
  - **used oil** means a used lubricating oil or waste oil;
  - **Vale** means Vale Newfoundland & Labrador Limited; and
  - **waste oil** means an oil that as a result of contamination by any means or by its use, is altered so that it is no longer suitable for its intended purpose.
4. All necessary measures shall be taken to ensure compliance with all applicable acts and regulations, including the following, or their successors:
- *Environmental Protection Act*;
  - *Water Resources Act*;
  - *Air Pollution Control Regulations, 2004*;
  - *Environmental Control Water and Sewage Regulations, 2003*;
  - *Halocarbon Regulations*;
  - *Storage and Handling of Gasoline and Associated Products Regulations, 2003*; and
  - *Used Oil Control Regulations*.

This Approval provides terms and conditions to satisfy various requirements of the above listed acts and regulations. If it appears that all of the pertinent requirements of these acts and regulations are not being met, then a further review of the works shall be conducted, and suitable pollution control measures may be required by the Minister.

5. All reasonable efforts shall be taken to minimize the impact of the operation on the environment. Such efforts include:
- minimizing the area disturbed by the operation,
  - minimizing air or water pollution,

- finding alternative uses, acceptable to the Director, for waste or rejected materials,
  - removing equipment or structures when they no longer have further use, and
  - considering the requirement for the eventual rehabilitation of disturbed areas when planning the development of any area on the facility property.
6. **Vale** shall provide to the Department, within a reasonable time, any information, records, reports or access to data requested or specified by the Department.
  7. **Vale** shall keep all records or other documents required by this Approval at the Voisey's Bay site for a period of not less than three (3) years, beginning the day they were made. These records shall be made available for review by officials of the Department or Service NL when requested.
  8. Should **Vale** wish to deviate in any way from the terms and conditions of this Certificate of Approval, a written request detailing the proposed deviation shall be made to the Minister. **Vale** shall comply with the most current terms and conditions until the Minister has authorized otherwise. In the case of meeting a deadline requirement, the request shall be made at least 60 days ahead of the applicable date as specified in this Approval or elsewhere by the Department.

### **Waste Management**

9. The management of waste generated at the two locations on site where these diesel generator units will be operating is subject to compliance with the *Environmental Protection Act*. In this context waste shall be handled in accordance with the Voisey's Bay Waste Management Plan and other applicable requirements as per Certificate of Approval AA13-125585A and/or the applicable requirements of Certificate of Approval LB-WMS17-12020K (*or L if issued*), and their successors.

### **Emergency Response Plan**

10. The existing Voisey's Bay Emergency Response Plan shall be implemented to address any spills or leaks that occur during the installation, operation and maintenance of these diesel generator units and associated fuel storage tank systems and equipment. If necessary the Emergency Response Plan shall be amended and if the revisions are significant they shall be submitted to the Director for review.

### **Noise**

11. Efforts shall be made to minimize and control noise resulting from the operations and maintenance of the diesel generator units located at the two satellite powerhouses at Voisey's Bay.

## **Spill Prevention and Containment**

12. All on site storage of petroleum directly associated with the diesel generator units located at the two satellite powerhouses shall comply with the *Storage and Handling of Gasoline and Associated Products Regulations, 2003*, or its successor. Storage tank systems shall be registered with Service NL. All aboveground storage tanks shall be clearly and visibly labelled with their GAP registration numbers.
13. Where applicable, all tanks and fuel delivery systems shall be inspected to appropriate American Petroleum Institute or Underwriters' Laboratories of Canada standards, or any other standards acceptable to this Department. The required frequency of inspections may be changed at the discretion of the Director.

## **Used Oil**

14. Used oil shall be retained in an approved tank or closed container, and disposed of by a company licensed for handling and disposal of used oil products.
15. Information on used oil that is generated by the diesel generator units located at the two satellite powerhouses shall be submitted to the Director for review within 30 days of the beginning of each calendar year. This shall include a description of the:
  - type(s) of oil used;
  - method of disposal for the used oil, and
  - approximate total volume of used oil generated during the previous year.

The first such report shall be submitted on or before January 30, 2020.

## **Fuel Consumption**

16. **Vale** shall record, and submit on a monthly basis as per the Reporting section, the daily combined consumption of distillate fuels combusted by all of the diesel generating units operating at the Reid Brook satellite powerhouse and the daily combined consumption of distillate fuels combusted by all of the diesel generating units operating at the Eastern Deeps satellite powerhouse.

## **Stack Emissions Testing and Dispersion Modelling**

17. Stack emissions testing and dispersion modelling will be required for the diesel generator units operating at the two satellite powerhouses. Such testing and modelling shall be conducted in accordance with the applicable requirements in the Stack Emissions Testing and Dispersion Modelling section of Certificate of Approval AA13-125585A and its successors.

## **Ambient Air**

18. Pending the results of any ambient air monitoring, stack emission testing, and/or dispersion modeling, the Director may require that **Vale** take measures deemed necessary to ensure the requirements of the *Air Pollution Control Regulations, 2004* are being met.

## **Annual Air Emission Reporting**

19. **Vale** shall submit an annual Air Emission Report to the Director by *February 28* of each year. The report shall include the:
- estimated annual emissions of the following flue gas constituents: SO<sub>2</sub>, NO<sub>x</sub>, CO<sub>2</sub>, CO and particulates; and
  - actual calculations including factors, formulae and/or assumptions used.

The first such report shall be submitted on or before February 28, 2020.

## **Monitoring Alteration**

20. Although a monitoring program is not part of this Approval, the Department may require a monitoring program when it is the judgement of the Director that:
- pollutants might be released to the surrounding environment without being detected, or
  - an adverse environmental effect may occur.

## **Reporting**

21. All incidents of:
- emergency response activities for oil or hazardous materials spills associated with the operation of the diesel generator units located at the two satellite powerhouses listed in Table 1; or
  - non-conformance of any condition within this Approval; or
  - verbal/written complaints of an environmental nature from the public received by **Vale** related to the operation of the diesel generator units located at the two satellite powerhouses whether or not they are received anonymously;

shall be immediately reported, within one (1) working day, to the Department.

A written report including a detailed description of the incident, summary of contributing factors, and an Action Plan to prevent future incidents of a similar nature, shall be submitted to the Department. The Action Plan shall include a description of actions already taken and future actions to be implemented, and shall be submitted within thirty (30) days of the date of the initial incident.

22. Any spillage or leakage of gasoline or associated product shall be reported immediately through the Canadian Coast Guard at 1-(709)-772-2083.

### **Expiration**

23. This Certificate of Approval expires **December 31, 2023**.
24. Should **Vale** wish to continue to operate any or all of the diesel generator units located at the two satellite powerhouses listed in Table 1 beyond this expiry date, a written request shall be submitted to the Director for the renewal of this Approval. Such request shall be made prior to **June 30, 2023**.

cc: Mr. Neil Codner  
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