



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: *August 08, 2018*

Approval No. AA18-085652A

Amendment Date: *July 30, 2020*

Expiration: *December 31, 2020*

File No. 731.632.01

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

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

Re: **Voisey's Bay Temporary Diesel Generator Units**

Approval is hereby given for: the installation and operation of twenty (20) prime power diesel generator units located 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 the Voisey's Bay Temporary Diesel Generator Units, 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.

David Robt
For MINISTER

TERMS AND CONDITIONS FOR APPROVAL No. AA18-085652A

July 30, 2020

General

- This Certificate of Approval is for the temporary installation and operation of twenty (20) prime power diesel generator units, as outlined in Table 1, located at Voisey's Bay in Labrador. Future adjustments to the number or rating of the temporary diesel generator units or change of activities may require a separate Certificate of Approval or an amendment to this Certificate of Approval.

Table 1 – List of Temporary Diesel Generator Units (TDGU) – Voisey's Bay							
Genset #	Make/Model	TDGU Rating	EDMS Location	Rental Unit #	Date of Engine Manufacture	Date of Installation	
Eastern Deeps Generator Pad			00684				
01	Aggreko / GN1000CWECON, G25	1MW			XBHG 002	06/05/2011	Aug 2018
02	Aggreko / GN1000CWECON, G25	1MW			XBHG 009	19/05/2011	Aug 2018
03	Aggreko / GN1000CWECON, G25	1MW			XBHG 012	01/06/2011	Aug 2018
04	Aggreko / GN1000CWECON, G25	1MW			XBHG 018	07/06/2011	Aug 2018
05	Aggreko / GN1000CWECON, G25	1MW			XBHG 004	15/10/2010	Aug 2019
06	Aggreko / GN1000CWECON, G25	1MW			XBHG 005	1/10/2010	Aug 2019
07	Aggreko / GN1000CWECON, G25	1MW			XBHG 017	7/6/2011	Aug 2019
08	Aggreko / GN1000CWECON, G25	1.5MW			XBXS 010150	7/6/2011	Aug 2019
09	Aggreko / NHC20 / QSK50G4	1.5MW		XBXS 011	19/2/2016	TBD	
Reid Brook Portal			00685				
10	Aggreko / GN1000CWECON, G25	1MW			XBHG 001	11/09/2009	Aug 2018
11	Aggreko / GN1000CWECON, G25	1MW			XBHG 010	04/04/2011	Aug 2018
12	Aggreko / GN1000CWECON, G25	1MW			XBHG 011	06/05/2011	Aug 2018
13	Aggreko / GN1000CWECON, G25	1MW			XBHG 013	26/05/2011	Aug 2018
14	Aggreko / GN1000CWECON, G25	1MW			XBHG 014	19/05/2011	Aug 2019
15	Aggreko / NHC20 / QSK50G4	1MW			XBHG 007	19/2/2016	April 2020
16	Aggreko / NHC20 / QSK50G4	1.5MW			XBXS 002	23/11/2011	TBD
Reid Brook Surface Facilities			00746				
17	Aggreko / NHC20 / QSK50G4	1.5MW			XBXS 013150	29/07/2016	Aug 2019
18	Aggreko / GN1000CWECON, G25	1MW		XBHG 015	26/05/2011	Aug 2019	

19	Aggreko / NHC20 / QSK50G4	1.5MW		XBXS 004	14/12/2011	TBD
Dump #4			00747			
20	Aggreko / NHC20 / QST30G5	1MW		XBVK004	29/09/2011	Feb 2020
NOTE: Entries in Table 1 marked TBD are to be provided by Vale VB to the Department prior to the particular unit being put into service.						

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;
- **register(ed)** in the context of storage tanks, 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 glycol** means glycol that, through use, storage or handling, can no longer be used for its original purpose;

- **used oil** means oil that, through use, storage or handling, can no longer be used for its original purpose; and
 - **Vale** means Vale Newfoundland & Labrador Limited.
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 and Used Glycol 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. All waste generated at the three locations on site where these temporary 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 AA20-055659A and/or the applicable requirements of Certificate of Approval LB-WMS20-01024M, 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 temporary 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 twenty (20) temporary diesel generator units at Voisey's Bay.

Spill Prevention and Containment

12. All on site storage of petroleum directly associated with the temporary diesel generator units shall comply with the *Storage and Handling of Gasoline and Associated Products Regulations, 2003*, or its successor. Storage tank systems shall be registered with the 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.

Fuel Consumption

14. **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 temporary diesel generating units operating at the
- Reid Brook Portal;
 - Reid Brook Surface Facilities;
 - Eastern Deeps Generator Pad; and
 - Dump #4.

Used Oil and Used Glycol

15. Used oil and used glycol shall be retained in an approved tank or closed container, and disposed of by a company licensed for handling and disposal of used oil and/or used glycol products.
16. Information on used oil that is generated by the temporary diesel generator units 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;
 - the method of disposal for the used oil, and
 - the approximate total volume of used oil generated during the previous year.

The first such report shall be submitted on or before January 30, 2019.

Ambient Air

17. 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

18. **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: SO₂, NO_x, CO₂, CO and particulates; and
 - the actual calculations including factors, formulae and/or assumptions used.

The first such report shall be submitted on or before February 28, 2019.

Monitoring Alteration

19. 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.
20. **Vale** may, at any time, request that requirements of this Approval be altered by:
- requesting the change in writing to the Director; and
 - providing sufficient justification, as determined by the Director.

The requirements of this Approval shall remain in effect until altered, in writing, by the Director.

Reporting

21. All incidents of:
- Emergency response activities for oil or hazardous materials spills associated with the operation of the temporary diesel generator units 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 generating units 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 National Environmental Emergencies Centre at 1-(709)-772-2083.

Expiration

23. This Certificate of Approval expires **December 31, 2021**.

24. Should **Vale** wish to continue to operate any or all of the temporary diesel generator units 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, 2021**.

cc: Mr. Gary Kennell
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