


CERTIFICATE OF APPROVAL
AIR

NUMBER 9377-8E4TAR

Issue Date: June 7, 2011

Royal Bank Leaseholds Inc./Locations Banque Royale Inc.
 155 Wellington Street West 24th Floor
 Toronto, Ontario
 M5V 3K7

Site Location: RBC Data Centre SCC
 1 Crane Avenue
 Stratford City, County of Perth
 N5A 6S4

You have applied in accordance with Section 9 of the Environmental Protection Act for approval of:

one computer data processing facility, including the following equipment:

- nine (9) standby diesel generator sets, each set having a rating of 2,600 kilowatts and being equipped with an integrated silencer/exhaust gas cleaning system, used for maintenance operations and to power the facility during emergency situations;
- three (3) cooling towers, each cooling tower containing two (2) cells;
- two (2) transformers, each transformer having a NEMA sound pressure level rating as measured per standard IEEE C57.12.90-2006, including all cooling fans and pumps operating, not exceeding 71 dBA;
- three (3) diesel storage tanks, each tank having a capacity of 151,400 litres; and
- one (1) urea storage tank, having a capacity of 24,605 litres;

all in accordance with the Application for a Certificate of Approval (Air) submitted by Royal Bank Leaseholds Inc./Locations Banque Royale Inc. dated January 6, 2011 and signed by Walter Wallace, Director and Daryl Watts, Global Director, Leasing; the supporting information associated with the application, including the Emission Summary and Dispersion Modelling Report, submitted by Church & Trought Inc., dated January 6, 2011, and signed by Ailee Ho, and the additional information submitted by Ailee Ho on February 17, 2011; and the Acoustic Assessment Report submitted by Valcoustics Canada Ltd., dated January 6, 2011, and signed by Guangsheng (Sam) Du and John Emeljanow.

For the purpose of this Certificate of Approval and the terms and conditions specified below, the following definitions apply:

1. "Acoustic Assessment Report" means the report, prepared in accordance with Publication NPC-233 submitted in support of the application, that documents all sources of noise emissions and Noise Control Measures present at the Facility. It also means the acoustic assessment report prepared and signed by Guangsheng (Sam) Du and John Emeljanow, Valcoustics Canada Ltd., dated January 6, 2011;
2. "Acoustic Audit" means an investigative procedure consisting of measurements and/or acoustic modelling of all sources of noise emissions due to the operation of the Facility, assessed to determine compliance with the Performance Limits for the Facility regarding noise emissions, completed in accordance with the procedures set in Publication NPC-103 and reported in accordance with Publication NPC-233;

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3. "Acoustic Audit Report" means a report presenting the results of an Acoustic Audit, prepared in accordance with Publication NPC-233;
4. "Acoustical Consultant" means a person currently active in the field of environmental acoustics and noise/vibration control, who is familiar with Ministry noise guidelines and procedures and has a combination of formal university education, training and experience necessary to assess noise emissions from a Facility;
5. "Certificate" means this entire certificate of approval document, issued in accordance with section 9 of the EPA;
6. "Company" means Royal Bank Leaseholds Inc./Locations Banque Royale Inc.;
7. "Director" means any person appointed in writing by the Minister of the Environment pursuant to section 5 of the EPA as a director for the purposes of section 9 of the EPA;
8. "District Manager" means the district manager of the appropriate local district office of the Ministry, where the Facility is geographically located;
9. "EPA" means the Environmental Protection Act, R.S.O. 1990, c.E.19;
10. "Equipment" means the diesel generator sets, cooling towers and transformers described in the Company's application, this Certificate and in the supporting documentation referred to herein, to the extent approved by this Certificate;
11. "Facility" means the entire operation located on the property where the Equipment is located;
12. "Independent Acoustical Consultant" means an Acoustical Consultant who is not representing the Company and was not involved in preparing the Acoustic Assessment Report or the design/implementation of Noise Control Measures for the Facility and/or Equipment. The Independent Acoustical Consultant shall not be retained by the Acoustical Consultant involved in the noise impact assessment or the design/implementation of Noise Control Measures for the Facility and/or Equipment;
13. "Manual" means a document or a set of documents that provide written instructions to staff of the Company;
14. "Ministry" means the Ontario Ministry of the Environment;
15. "Noise Control Measures" means measures to reduce the noise emissions from the Facility and/or Equipment including, but not limited to, silencers, acoustic louvres, enclosures, absorptive treatment, plenums and barriers. It also means the noise control measures as outlined in the Acoustic Assessment Report;
16. "Publication NPC-103" means the Ministry Publication NPC-103 of the Model Municipal Noise Control By-Law, Final Report, August 1978, published by the Ministry as amended;
17. "Publication NPC-205" means the Ministry Publication NPC-205, "Sound Level Limits for Stationary Sources in Class 1 & 2 Areas (Urban)", October, 1995 as amended; and
18. "Publication NPC-233" means the Ministry Publication NPC-233, "Information to be Submitted for Approval of Stationary Sources of Sound", October, 1995 as amended.

You are hereby notified that this approval is issued to you subject to the terms and conditions outlined below:

TERMS AND CONDITIONS

NOISE PERFORMANCE LIMITS

1. The Company shall, at all times, ensure that the noise emissions from the Facility comply with the limits set out in Ministry Publication NPC-205.
2. The Company shall restrict the periodic testing of the standby diesel generator sets to a maximum of five (5) generator sets at a time.

3. The Company shall implement all Noise Control Measures, as outlined in the Acoustic Assessment Report.
4. The Company shall ensure that the Noise Control Measures are properly maintained and continue to provide the acoustical performance outlined in the Acoustic Assessment Report.

OPERATION AND MAINTENANCE

5. The Company shall ensure that the Facility is properly operated and maintained at all times. The Company shall:

(1) prepare, before commencement of operation of the Equipment, and update, as necessary, a Manual outlining the operating procedures and a maintenance program for the Equipment, including:

- (a) routine operating and maintenance procedures in accordance with good engineering practices and as recommended by the equipment suppliers;
- (b) emergency procedures;
- (c) procedures for any record keeping activities relating to operation and maintenance of the Equipment;
- (d) all appropriate measures to minimize odour, noise and dust emissions from all potential sources from the Facility; and

(2) implement the recommendations of the operating and maintenance Manual.

RECORD RETENTION

6. The Company shall retain, for a minimum of two (2) years from the date of their creation, all records and information related to or resulting from the operation and maintenance activities required by this Certificate. These records as well as the Manual shall be made available to staff of the Ministry upon request. The Company shall retain:

(1) all records on the maintenance, repair and inspection of the Equipment; and

(2) all records on the environmental complaints, including:

- (a) a description, time and date of each incident;
- (b) operating conditions at the time of the incident; and
- (c) a description of the measures taken to address the cause of the incident and to prevent a similar occurrence in the future.

NOTIFICATION OF COMPLAINTS

7. The Company shall notify the District Manager, in writing, of each environmental complaint within two (2) business days of the complaint. The notification shall include:

(1) a description of the nature of the complaint; and

(2) the time and date of the incident to which the complaint relates.

8. ACOUSTIC AUDIT

8.1 The Company shall carry out Acoustic Audit measurements on the actual noise emissions due to the operation of the Facility. The Company:

(1) shall carry out Acoustic Audit measurements in accordance with the procedures in Publication NPC-103;

(2) shall submit an Acoustic Audit Report on the results of the Acoustic Audit, prepared by an Independent Acoustical Consultant, in accordance with the requirements of Publication NPC-233, to the District Manager and the Director, not later than six (6) months after the commencement of operation of the Facility.

8.2 The Director:

(1) may not accept the results of the Acoustic Audit if the requirements of Publication NPC-233 were not followed;

(2) may require the Company to repeat the Acoustic Audit if the results of the Acoustic Audit are found unacceptable to the Director.

The reasons for the imposition of these terms and conditions are as follows:

1. Condition Nos. 1 to 3 are included to provide minimum performance and operation requirements considered necessary to prevent an adverse effect resulting from the operation of the Facility.
2. Condition Nos. 4 and 5 are included to emphasize that the Equipment must be maintained and operated according to a procedure that will result in compliance with the EPA, the regulations and this Certificate.
3. Condition No. 6 is included to require the Company to keep records and to provide information to staff of the Ministry so that compliance with the EPA, the regulations and this Certificate can be verified.
4. Condition No. 7 is included to require the Company to notify staff of the Ministry so as to assist the Ministry with the review of the site's compliance.
5. Condition No. 8 is included to require the Company to gather accurate information and submit an Acoustic Audit Report in accordance with procedures set in the Ministry's noise guidelines, so that the environmental impact and subsequent compliance with this Certificate can be verified.

In accordance with Section 139 of the Environmental Protection Act, R.S.O. 1990, Chapter E-19, as amended, you may by written Notice served upon me, the Environmental Review Tribunal and in accordance with Section 47 of the Environmental Bill of Rights, S.O. 1993, Chapter 28, the Environmental Commissioner, within 15 days after receipt of this Notice, require a hearing by the Tribunal. The Environmental Commissioner will place notice of your appeal on the Environmental Registry. Section 142 of the Environmental Protection Act, provides that the Notice requiring the hearing shall state:

1. The portions of the approval or each term or condition in the approval in respect of which the hearing is required, and;
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

The Notice should also include:

3. The name of the appellant;
4. The address of the appellant;
5. The Certificate of Approval number;
6. The date of the Certificate of Approval;
7. The name of the Director;
8. The municipality within which the works are located;

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

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The Secretary*
Environmental Review Tribunal
655 Bay Street, 15th Floor
Toronto, Ontario
M5G 1E5

AND

The Environmental Commissioner
1075 Bay Street, 6th Floor
Suite 605
Toronto, Ontario
M5S 2B1

AND

The Director
Section 9, *Environmental Protection Act*
Ministry of the Environment
2 St. Clair Avenue West, Floor 12A
Toronto, Ontario
M4V 1L5

*** Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 314-4600, Fax: (416) 314-4506 or www.ert.gov.on.ca**

This instrument is subject to Section 38 of the Environmental Bill of Rights, that allows residents of Ontario to seek leave to appeal the decision on this instrument. Residents of Ontario may seek leave to appeal within 15 days from the date this decision is placed on the Environmental Registry. By accessing the Environmental Registry at www.ene.gov.on.ca, you can determine when the leave to appeal period ends.

The above noted works are approved under Section 9 of the Environmental Protection Act.

DATED AT TORONTO this 7th day of June, 2011

Ian Greason, P.Eng.
Director
Section 9, *Environmental Protection Act*

SG/
c: District Manager, MOE London - District
Ailee Ho, Church & Trought Inc.