



PERMIT GVA0149

Pursuant to
Greater Vancouver Regional District Air Quality Management Bylaw No. 1082, 2008
and BC Environmental Management Act

Flexstar Packaging Inc.

located at
13320 River Road, Richmond, BC V6V 1W7


is authorized to discharge air contaminants to the air from
A PLASTICS PACKAGING FILM, SHEET & LAMINATED MANUFACTURING FACILITY

subject to the requirements in this Permit for the emission sources and works existing or planned on
August 06, 2015.

Contravention of any of these requirements is a violation of the bylaw
and may result in enforcement action.

All previous versions of this Air Quality Management Permit are hereby rescinded and rendered null and void.

Issued: November 30, 1992
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R.H. (Ray) Robb, P. Eng.
District Director

SECTION 1 – AUTHORIZED EMISSION SOURCES

Authorization to discharge air contaminants from the authorized Emission Sources and Works listed below is subject to the specified terms and conditions.

Approximate locations of the emission sources are shown on the Site Plan in section 4.

EMISSION SOURCE 05: Ink storage room discharging through a Vent(s).

MAXIMUM EMISSION FLOW RATE: **24** m³/min

MAXIMUM ANNUAL OPERATING HOURS: **8760** hrs/yr

MAXIMUM EMISSION QUALITY:

1. Odorous Air Contaminant(s): None past the plant boundary such that the District Director determines that pollution has occurred.
2. Chemical Contaminants: The maximum allowable emission concentration (EC) for each emitted chemical contaminant with a Threshold Limit Value (TLV) is such that the sum of the individual EC/TLV ratios for all such contaminants in any single emission is less than 10.

WORKS AND PROCEDURES:

Good operating practices.

EMISSION SOURCE 07: Welding booth discharging through a Vent(s).

MAXIMUM EMISSION FLOW RATE: **30** m³/min

MAXIMUM ANNUAL OPERATING HOURS: **3500** hrs/yr

MAXIMUM EMISSION QUALITY:

1. 50 mg/m³ Particulate Matter
2. 10% Opacity.

WORKS AND PROCEDURES:

Good operating practices.

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EMISSION SOURCE 10: Ten Polyethylene Pellet Silos (Six - 91 tonne and four - 45.5 tonne capacity) discharging through tank vents.

MAXIMUM EMISSION FLOW RATE: The rate of discharge is 48 m³/min during the filling of the silos. The frequency of filling is variable.

MAXIMUM ANNUAL OPERATING HOURS: 8760 hrs/yr

MAXIMUM EMISSION QUALITY:

1. 5% Opacity.
2. Odorous Air Contaminant(s): None past the plant boundary such that the District Director determines that pollution has occurred.

WORKS AND PROCEDURES:

Good operating practices.

EMISSION SOURCE 13: Parts washer discharging through a Stack(s).

MAXIMUM EMISSION FLOW RATE: 45 m³/min

MAXIMUM ANNUAL OPERATING HOURS: 8760 hrs/yr

MAXIMUM EMISSION QUALITY:

1. Odorous Air Contaminant(s): None past the plant boundary such that the District Director determines that pollution has occurred.
2. Chemical Contaminants: The maximum allowable emission concentration (EC) for each emitted chemical contaminant with a Threshold Limit Value (TLV) is such that the sum of the individual EC/TLV ratios for all such contaminants in any single emission is less than 10.

WORKS AND PROCEDURES:

Good operating practices.

EMISSION SOURCE 14: Nordmeccanica laminator dryer (Line 101) discharging through a Stack(s).

MAXIMUM EMISSION FLOW RATE: 50 m³/min

MAXIMUM ANNUAL OPERATING HOURS: 8760 hrs/yr

MAXIMUM PRIMARY BURNER INPUT FIRING RATE: 0.844 GJ/hr

MAXIMUM EMISSION QUALITY:

1. Odorous Air Contaminant(s): None past the plant boundary such that the District Director determines that pollution has occurred.
2. Chemical Contaminants: The maximum allowable emission concentration (EC) for each emitted

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chemical contaminant with a Threshold Limit Value (TLV) is such that the sum of the individual EC/TLV ratios for all such contaminants in any single emission is less than 10.

WORKS AND PROCEDURES:

Firing of the drying tunnels with natural gas (maximum heat input 0.844 GJ/hr) using partial recirculation of exhaust gases into the primary burner together with good combustion practices and operating procedures.

EMISSION SOURCE 15: Nordmeccanica laminator (Line 101) discharging through a Stack(s).

MAXIMUM EMISSION FLOW RATE: **50 m³/min**

MAXIMUM ANNUAL OPERATING HOURS: **8760 hrs/yr**

MAXIMUM EMISSION QUALITY:

1. Odorous Air Contaminant(s): None past the plant boundary such that the District Director determines that pollution has occurred.
2. Chemical Contaminants: The maximum allowable emission concentration (EC) for each emitted chemical contaminant with a Threshold Limit Value (TLV) is such that the sum of the individual EC/TLV ratios for all such contaminants in any single emission is less than 10.

WORKS AND PROCEDURES:

Good operating practices.

EMISSION SOURCE 16: Uteco printing press dryer for tunnel section (Line 304) discharging through a Stack(s).

MAXIMUM EMISSION FLOW RATE: **190 m³/min**

MAXIMUM ANNUAL OPERATING HOURS: **8760 hrs/yr**

MAXIMUM PRIMARY BURNER INPUT FIRING RATE: **0.844 GJ/hr**

MAXIMUM EMISSION QUALITY:

1. Odorous Air Contaminant(s): None past the plant boundary such that pollution occurs.
2. Chemical Contaminants: The maximum allowable emission concentration (EC) for each emitted chemical contaminant with a Threshold Limit Value (TLV) is such that the sum of the individual EC/TLV ratios for all such contaminants in any single emission is less than 10.

WORKS AND PROCEDURES:

Firing of the burner with natural gas (maximum heat input capacity 0.844 GJ/h) using good combustion practices and operating procedures.

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EMISSION SOURCE 17: Uteco printing press dryer for print deck section (Line 304) discharging through a Stack(s).

MAXIMUM EMISSION FLOW RATE: **190** m³/min
MAXIMUM ANNUAL OPERATING HOURS: **8760** hrs/yr
MAXIMUM PRIMARY BURNER INPUT FIRING RATE: **0.844** GJ/hr

MAXIMUM EMISSION QUALITY:

1. Odorous Air Contaminant(s): None past the plant boundary such that the District Director determines that pollution has occurred.
2. Chemical Contaminants: The maximum allowable emission concentration (EC) for each emitted chemical contaminant with a Threshold Limit Value (TLV) is such that the sum of the individual EC/TLV ratios for all such contaminants in any single emission is less than 10.

WORKS AND PROCEDURES:

Firing of the burner with natural gas (maximum heat input capacity 0.844 GJ/h) together with good combustion practices and operating procedures.

EMISSION SOURCE 18: Uteco printing press dryer for tunnel section (Line 305) discharging through a Stack(s).

MAXIMUM EMISSION FLOW RATE: **190** m³/min
MAXIMUM ANNUAL OPERATING HOURS: **8760** hrs/yr
MAXIMUM PRIMARY BURNER INPUT FIRING RATE: **0.844** GJ/hr


MAXIMUM EMISSION QUALITY:

1. Odorous Air Contaminant(s): None past the plant boundary such that the District Director determines that pollution has occurred.
2. Chemical Contaminants: The maximum allowable emission concentration (EC) for each emitted chemical contaminant with a Threshold Limit Value (TLV) is such that the sum of the individual EC/TLV ratios for all such contaminants in any single emission is less than 10.

WORKS AND PROCEDURES:

Firing of the burner with natural gas (maximum heat input capacity 0.844 GJ/h) together with good combustion practices and operating procedures.

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EMISSION SOURCE 19: Uteco printing press dryer for print deck section (Line 305) discharging through a Stack(s).

MAXIMUM EMISSION FLOW RATE: 190 m³/min
MAXIMUM ANNUAL OPERATING HOURS: 8760 hrs/yr
MAXIMUM PRIMARY BURNER INPUT FIRING RATE: 0.844 GJ/hr

MAXIMUM EMISSION QUALITY:

1. Odorous Air Contaminant(s): None past the plant boundary such that the District Director determines that pollution has occurred.
2. Chemical Contaminants: The maximum allowable emission concentration (EC) for each emitted chemical contaminant with a Threshold Limit Value (TLV) is such that the sum of the individual EC/TLV ratios for all such contaminants in any single emission is less than 10.

WORKS AND PROCEDURES:

Firing of the burner with natural gas (maximum heat input capacity 0.844 GJ/h) together with good combustion practices and operating procedures.

EMISSION SOURCE 20: Nordmeccanica laminator corona treater station (Line 101) discharging through a Stack(s).

MAXIMUM EMISSION FLOW RATE: 50 m³/min
MAXIMUM ANNUAL OPERATING HOURS: 8760 hrs/yr

MAXIMUM EMISSION QUALITY:

1. 2 mg/m³ Ozone
2. Odorous Air Contaminant(s): None past the plant boundary such that the District Director determines that pollution has occurred.
3. Chemical Contaminants: The maximum allowable emission concentration (EC) for each emitted chemical contaminant with a Threshold Limit Value (TLV) is such that the sum of the individual EC/TLV ratios for all such contaminants in any single emission is less than 10.


WORKS AND PROCEDURES:

Good operating practices.

Pillar ozone destruct unit to be operated and maintained in accordance with manufacturer requirements and includes the routine inspection of inlet and outlet air filters and maintaining the recommended quantity of active catalyst media for effective ozone destruction.

Inspection records are to be maintained for a minimum period of three years.

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EMISSION SOURCE 21: Nordmeccanica laminator (Line 102) discharging through a Stack(s).

MAXIMUM EMISSION FLOW RATE: 50 m³/min
MAXIMUM ANNUAL OPERATING HOURS: 8760 hrs/yr

MAXIMUM EMISSION QUALITY:

1. Odorous Air Contaminant(s): None past the plant boundary such that the District Director determines that pollution has occurred.
2. Chemical Contaminants: The maximum allowable emission concentration (EC) for each emitted chemical contaminant with a Threshold Limit Value (TLV) is such that the sum of the individual EC/TLV ratios for all such contaminants in any single emission is less than 10.

WORKS AND PROCEDURES:

Good operating practices.

EMISSION SOURCE 22: Nordmeccanica laminator dryer (Line 103) discharging through a Stack(s).

MAXIMUM EMISSION FLOW RATE: 50 m³/min
MAXIMUM ANNUAL OPERATING HOURS: 8760 hrs/yr
MAXIMUM PRIMARY BURNER INPUT FIRING RATE: 0.844 GJ/hr


MAXIMUM EMISSION QUALITY:

1. Odorous Air Contaminant(s): None past the plant boundary such that the District Director determines that pollution has occurred.
2. Chemical Contaminants: The maximum allowable emission concentration (EC) for each emitted chemical contaminant with a Threshold Limit Value (TLV) is such that the sum of the individual EC/TLV ratios for all such contaminants in any single emission is less than 10.

WORKS AND PROCEDURES:

Good operating practices.

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EMISSION SOURCE 23: Nordmeccanica laminator corona treater station (Line 103) discharging through a Stack(s).

MAXIMUM EMISSION FLOW RATE: 50 m³/min
MAXIMUM ANNUAL OPERATING HOURS: 8760 hrs/yr

MAXIMUM EMISSION QUALITY:

1. 2 mg/m³ Ozone
2. Odorous Air Contaminant(s): None past the plant boundary such that pollution occurs.
3. Chemical Contaminants: The maximum allowable emission concentration (EC) for each emitted chemical contaminant with a Threshold Limit Value (TLV) is such that the sum of the individual EC/TLV ratios for all such contaminants in any single emission is less than 10.

WORKS AND PROCEDURES:

Good operating practices.

Pillar ozone destruct unit to be operated and maintained in accordance with manufacturer requirements and includes the routine inspection of inlet and outlet air filters and maintaining the recommended quantity of active catalyst media for effective ozone destruction.

Inspection records are to be maintained for a minimum period of three years.

EMISSION SOURCE 24: Nordmeccanica laminator (Line 103) discharging through a Stack(s).

MAXIMUM EMISSION FLOW RATE: 50 m³/min
MAXIMUM ANNUAL OPERATING HOURS: 8760 hrs/yr


MAXIMUM EMISSION QUALITY:

1. Odorous Air Contaminant(s): None past the plant boundary such that pollution occurs.
2. Chemical Contaminants: The maximum allowable emission concentration (EC) for each emitted chemical contaminant with a Threshold Limit Value (TLV) is such that the sum of the individual EC/TLV ratios for all such contaminants in any single emission is less than 10.

WORKS AND PROCEDURES:

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EMISSION SOURCE 25: Thermal developer in plate room discharging through a Stack(s).

MAXIMUM EMISSION FLOW RATE: 30 m³/min
MAXIMUM ANNUAL OPERATING HOURS: 8760 hrs/yr

MAXIMUM EMISSION QUALITY:

1. Odorous Air Contaminant(s): None past the plant boundary such that the District Director determines that pollution has occurred.
2. Chemical Contaminants: The maximum allowable emission concentration (EC) for each emitted chemical contaminant with a Threshold Limit Value (TLV) is such that the sum of the individual EC/TLV ratios for all such contaminants in any single emission is less than 10.

WORKS AND PROCEDURES:

Du Pont Cyrel thermal developer together with good operating practices.

EMISSION SOURCE 26: Extrusion line corona treater station (Line 211) discharging through a Stack(s).

MAXIMUM EMISSION FLOW RATE: 50 m³/min
MAXIMUM ANNUAL OPERATING HOURS: 8760 hrs/yr

MAXIMUM EMISSION QUALITY:

1. 2 mg/m³ Ozone
2. Odorous Air Contaminant(s): None past the plant boundary such that the District Director determines that pollution has occurred.
3. Chemical Contaminants: The maximum allowable emission concentration (EC) for each emitted chemical contaminant with a Threshold Limit Value (TLV) is such that the sum of the individual EC/TLV ratios for all such contaminants in any single emission is less than 10.


WORKS AND PROCEDURES:

Good operating practices.

Enercon ozone destruct unit to be operated and maintained in accordance with manufacturer requirements and includes the routine inspection of inlet and outlet air filters and maintaining the recommended quantity of active catalyst media for effective ozone destruction.

Inspection records are to be maintained for a minimum period of three years.

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EMISSION SOURCE 27: Windmoller & Holscher printing press dryer for tunnel section (Line 306) discharging through a Stack(s).

MAXIMUM EMISSION FLOW RATE: **190** m³/min
MAXIMUM ANNUAL OPERATING HOURS: **8760** hrs/yr
MAXIMUM PRIMARY BURNER INPUT FIRING RATE: **0.0844** GJ/hr

MAXIMUM EMISSION QUALITY:

1. 10% Opacity.
2. Chemical Contaminants: The maximum allowable emission concentration (EC) for each emitted chemical contaminant with a Threshold Limit Value (TLV) is such that the sum of the individual EC/TLV ratios for all such contaminants in any single emission is less than 10.

WORKS AND PROCEDURES:

Firing of the burner with natural gas (maximum heat input capacity 0.0844 GJ/h) together with good combustion practices and operating procedures.

Works are to be completed by not later than August 31, 2015

EMISSION SOURCE 28: Windmoller & Holscher printing press dryer for print deck section (Line 306) discharging through a Stack(s).

MAXIMUM EMISSION FLOW RATE: **190** m³/min
MAXIMUM ANNUAL OPERATING HOURS: **8760** hrs/yr
MAXIMUM PRIMARY BURNER INPUT FIRING RATE: **2.11** GJ/hr

MAXIMUM EMISSION QUALITY:


1. Chemical Contaminants: The maximum allowable emission concentration (EC) for each emitted chemical contaminant with a Threshold Limit Value (TLV) is such that the sum of the individual EC/TLV ratios for all such contaminants in any single emission is less than 10.

WORKS AND PROCEDURES:

Firing of the burner with natural gas (maximum heat input capacity 2.11 GJ/h) together with good combustion practices and operating procedures.

Works are to be completed by not later than August 31, 2015

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SECTION 2 – GENERAL REQUIREMENTS AND CONDITIONS

A. AMENDMENTS

The terms and conditions of this permit may be amended, as authorized by applicable legislation. New and modified sources must receive authorization prior to start-up.

B. POLLUTION


Notwithstanding any conditions in this permit, no person shall discharge or allow or cause the discharge of any air contaminant so as to cause pollution as defined in the Greater Vancouver Regional District Air Quality Management Bylaw No. 1082, 2008 and the Environmental Management Act.

C. STANDARD CONDITIONS AND DEFINITIONS

Unless otherwise specified, the following applies to this permit:

1. Gaseous volumes are corrected to standard conditions of 20° Celsius & 101.325 kPa with zero percent moisture.
2. Contaminant concentrations from the combustion of specific fuel types are corrected to the following Oxygen content, unless specified otherwise:
 - 3% O₂ for natural gas and fuel oil;
 - 8% O₂ for wood fuel;
 - 15% O₂ for turbines.
3. Where compliance testing is required, each contaminant concentration limit in this permit will be assessed for compliance based on a valid test using test methods approved by the District Director.
4. Visual opacity measurements are made at the point of maximum density, nearest the discharge point and exclude the effect of condensed, uncombined water droplets. Compliance determinations are based on a 6 minute average in accordance with the provincial "Source Testing Code for the Visual Measurement of The Opacity of Emissions from Stationary Sources". Continuous Emission Monitor System (CEMS) opacity compliance determinations are based on a one hour average (taken from the top of each hour).
5. If authorized in section 1 of this permit, standby fuel use is restricted to a maximum of 350 hrs/yr and to those periods during which the primary authorized fuel is not available. Fuel oil sulphur content shall not exceed 15 mg/kg and emissions during fuel oil firing shall not exceed 10% Opacity.
6. Definitions in the Environmental Management Act and Air Quality Management Bylaw apply to terminology used in this permit.
7. Threshold Limit Values (TLV) refer to the Time Weighted Average (TWA) exposure limits for substances specified in the American Conference of Governmental Industrial Hygienists Threshold Limit Values handbook, current on the latest date that this permit issuance or amendment came into effect.
8. Sulphur Oxides (SO_x) are expressed as Sulphur Dioxide.
9. Nitrogen Oxides (NO_x) are expressed as Nitrogen Dioxide.

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10. The Canadian Council of Ministers of the Environment (CCME) "Environmental Guidelines for Controlling Emissions of Volatile Organic Compounds from Aboveground Storage Tanks (June 1995, CCME-EPC-87E)" shall be adhered to for all applicable tanks unless otherwise stated in this permit.
11. Authorized 'Maximum Annual Operating Hours' of 8760 hrs/yr for an emission source is equivalent to authorization for continuous operation of the emission source for an entire calendar year, including leap years.

D. HEATING, VENTILATION, AIR CONDITIONING AND INTERNAL COMBUSTION ENGINES

Air contaminants discharged from any natural gas-fired heating, ventilation or air conditioning systems for buildings and any internal combustion engines located at the discharge site shall be maintained and operated in a manner prescribed by the manufacturer to ensure good combustion of the fuel with minimum discharge of air contaminants.

E. AUTHORIZED WORKS AND PROCEDURES

Works and procedures, which this permit authorizes to control the discharge of air contaminants, shall be employed during all operating periods of the related facilities. The permit holder shall regularly inspect and maintain all such works in good repair.

The discharge criteria described in this permit are applicable on the issued or amended date of this permit unless specified otherwise. If a date different to the issued or amended date is specified, the existing control works and procedures must be maintained in good operating condition and operated in a manner to minimize emissions.

F. BYPASSES


The discharge of contaminants which have bypassed authorized control works during non-emergency conditions is prohibited unless approval has been obtained in writing from the District Director.

G. EMERGENCY PROCEDURES

In the event of an emergency that prevents compliance with a requirement(s) of this permit, that requirement(s) shall be suspended for such time as the emergency continues or until otherwise directed by the District Director, provided that:

1. Due diligence was exercised in relation to the process, operation or event that caused the emergency and that the emergency occurred notwithstanding this exercise of due diligence; and,
2. The District Director is notified at the first available opportunity of the emergency and of contingency actions invoked or planned to mitigate adverse impacts and restore compliance. Notification shall be made to Metro Vancouver's 24-hour number: 604-436-6777; and,
3. Due diligence is exercised in shutting down related processes and/or taking action to restore compliance in the shortest possible time frame, unless specified otherwise in this permit or by written notice from the District Director.

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Notwithstanding 1, 2 and 3 above, the District Director may specify contingency actions to be implemented to protect human health and the environment while authorized works and/or standard operating procedures are being restored.

If an emergency situation results in a "spill" as defined in the Environmental Management Act Spill Reporting Regulation, the spill shall also be reported immediately to the Provincial Emergency Program by telephoning 1-800-663-3456.

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SECTION 3 – REPORTING REQUIREMENTS

A. MONITORING REQUIREMENTS AND REPORTING

Unless otherwise approved by the District Director prior to any sampling or analysis, all measurements shall be performed by an independent agency in accordance with Metro Vancouver Air Emissions Sampling Program Manual of Methods and Standard Operating Procedures and the BC Ministry of Environment Field Sampling Manual, as they may be amended from time to time. Any variance from these procedures must receive prior approval from the District Director.


A minimum of 3 working days advance notice must be given prior to taking measurements required by this Monitoring and Sampling Program. Notification must be given to the Metro Vancouver Environmental Regulation & Enforcement Division (phone 604-436-6777, Fax 604-436-6707, email regulationenforcement@metrovancover.org).

Unless otherwise specified, sampling shall be performed under operating conditions representative of the previous 90 calendar days of operation. All field data and calculations must be submitted with monitoring results and they shall be reported in the metric units which are used in this permit. These submissions shall include process data relevant to the operation of the source of the emissions and the performance of the emission control works.

The permit holder shall conduct the following monitoring and sampling and submit electronic reports of the results to the District Director by the dates specified below using a password enabled web based application provided by Metro Vancouver.

EMISSION SOURCE	INITIAL DUE DATE	SUBSEQUENT DUE DATES	REQUIREMENT	PARAMETER(S)	TEST METHOD	REPORT TYPE
N/A	N/A	N/A	N/A	N/A	N/A	N/A

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B. INFORMATION REPORTING REQUIREMENTS

The permit holder shall submit electronic reports containing the required information to the District Director by the dates specified below using a password enabled web based application provided by Metro Vancouver.

EMISSION SOURCE	INITIAL DUE DATE	SUBSEQUENT DUE DATES	REQUIREMENT	REPORT TYPE
05, 07, 10, 13, 14, 15, 17, 18, 19, 20, 21, 22, 25, 26, Facility, 16, 23, 24, 27, 28	March 31, 2016	On or before March 31 for each subsequent year.	Written report providing details of the total number of hours and days operated in the preceding calendar year. Detailed records are to be maintained in a written bound log or other format approved by the District Director and made available for inspection by Metro Vancouver staff for a minimum period of three years.	Operating Period
20, 23, 26	March 31, 2016	On or before March 31 for each subsequent year.	<p>Written report detailing monthly inspections and results of monitoring of ozone concentrations from the ozone destruction units. Annual reports should identify date of catalyst inspections and replacement, active catalyst bed depth, and any action taken or proposed to solve any problems detected during inspections. Results of ozone monitoring are to be reported in milligrams per cubic meter cubed.</p> <p>Inspection and monitoring records are to be maintained for a minimum period of three years. Records are to be maintained in a manner to allow for inspection by an Officer.</p>	Information - Other

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Facility	March 31, 2016	On or before March 31 for each subsequent year.	Written report providing details of the types and amounts of principle products produced and principal raw materials used in the preceding calendar year.	Materials and Products
Facility	March 31, 2016	On or before March 31 for each subsequent year.	Written report providing details of the types, amounts and end use of organic solvents and organic solvent-containing materials used in the preceding calendar year.	Solvent Use
Facility, 14, 17, 18, 19, 16, 22, 27, 28	March 31, 2016	On or before March 31 for each subsequent year.	Written report providing details of the types and amounts of fuel burned in the preceding calendar year.	Fuel Use
20, 23, 26	August 31, 2015	N/A	Technical specifications for instrument to be used to monitor ozone emissions associated with ozone destruction units. Submission should include instrument manufacturer's operating manual.	Information - Other

C. AMENDED OR ADDITIONAL REQUIREMENTS

Based on the results of the monitoring program, including the stack sampling results or any other information, the District Director may:

1. Amend the monitoring and reporting requirement of any of the information required by this Permit including plans, programs and studies.
2. Require additional investigations, tests, surveys or studies.

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D. VOC ABATEMENT PROGRAM

The permit holder shall submit the following information to the District Director by the dates specified below as part of a mutually-agreed upon Volatile Organic Compound ("VOC") Abatement Program with the goal of reducing facility VOCs by more than 95 percent, or achieve an outlet VOCs concentration of less than 10 mg/m³ @ Total Hydrocarbon expressed as Carbon, by no later than December 31, 2016 ("VOC Abatement Goal").

EMISSION SOURCE	INITIAL DUE DATE	SUBSEQUENT DUE DATES	REQUIREMENT	REPORT TYPE
Facility, 05, 14, 15, 16, 17, 18, 19, 20, 22, 21, 23, 24, 26, 27, 28	August 31, 2015	N/A	Written ("VOC Abatement Program Report") containing a description of the following items: 1) Actions taken or proposed to achieve VOC Abatement Goal. 2) Technical specifications of proposed control works, which shall include: a) manufacturer; b) model; c) equipment serial number; d) maximum design discharge flow rate (standard cubic meters per minute); e) guaranteed VOC concentration (milligrams per cubic meter) at outlet stack at standard conditions; f) details of the individual Emission Sources to be directed to control works and their estimated contribution to total VOC emissions from the facility; g) a timetable for equipment installation, commissioning and performance testing, to confirm emissions achieve equipment performance guarantees. 3) The expected VOC capture efficiency for each Emission Source;	Information - Other

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			<p>4) The overall VOC destruction efficiency for the facility;</p> <p>5) Where thermal control works are selected, the maximum burner capacity (GJ/hr) together with expected NOx emission performance; Proposed monitoring of baseline performance parameters for the selected control equipment, which may include: combustion chamber temperature monitoring; minimum temperature alarms; catalyst inspection; evaluation of catalyst activity; and monitoring and recording of exhaust gas parameters including continuous VOC monitoring and recording;</p> <p>6) Design criteria confirming that good engineering practices (GEP) are being employed for the design of any discharge stack(s). The VOC Abatement Program Report is to be submitted to the District Director for approval in principle.</p>	
Facility	October 31, 2015	Quarterly, on or before January 31 st , April 30 th , July 31 st , October 31 st and ending December 31 st , 2016.	Written progress reports detailing the permittee's activities related to implementation of the VOC Abatement Program Goal.	Information - Other
Facility, 05, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 26, 27, 28	December 31, 2015	N/A	Following approval in principle by the District Director of VOC abatement program, the Permittee must submit a permit amendment application that seeks to amend this Permit by adding requirements in respect of: Maximum VOC Concentration, Maximum Flow Rate, Maximum Burner Capacity and Maximum Annual Operating Hours for each applicable Emission Source. Notwithstanding this requirement, the District Director reserves the right to amend this Permit in accordance with the Greater Vancouver Regional District Air Quality Management Bylaw No. 1082, 2008.	Information - Other

Issued: November 30, 1992
 Amended: August 06, 2015

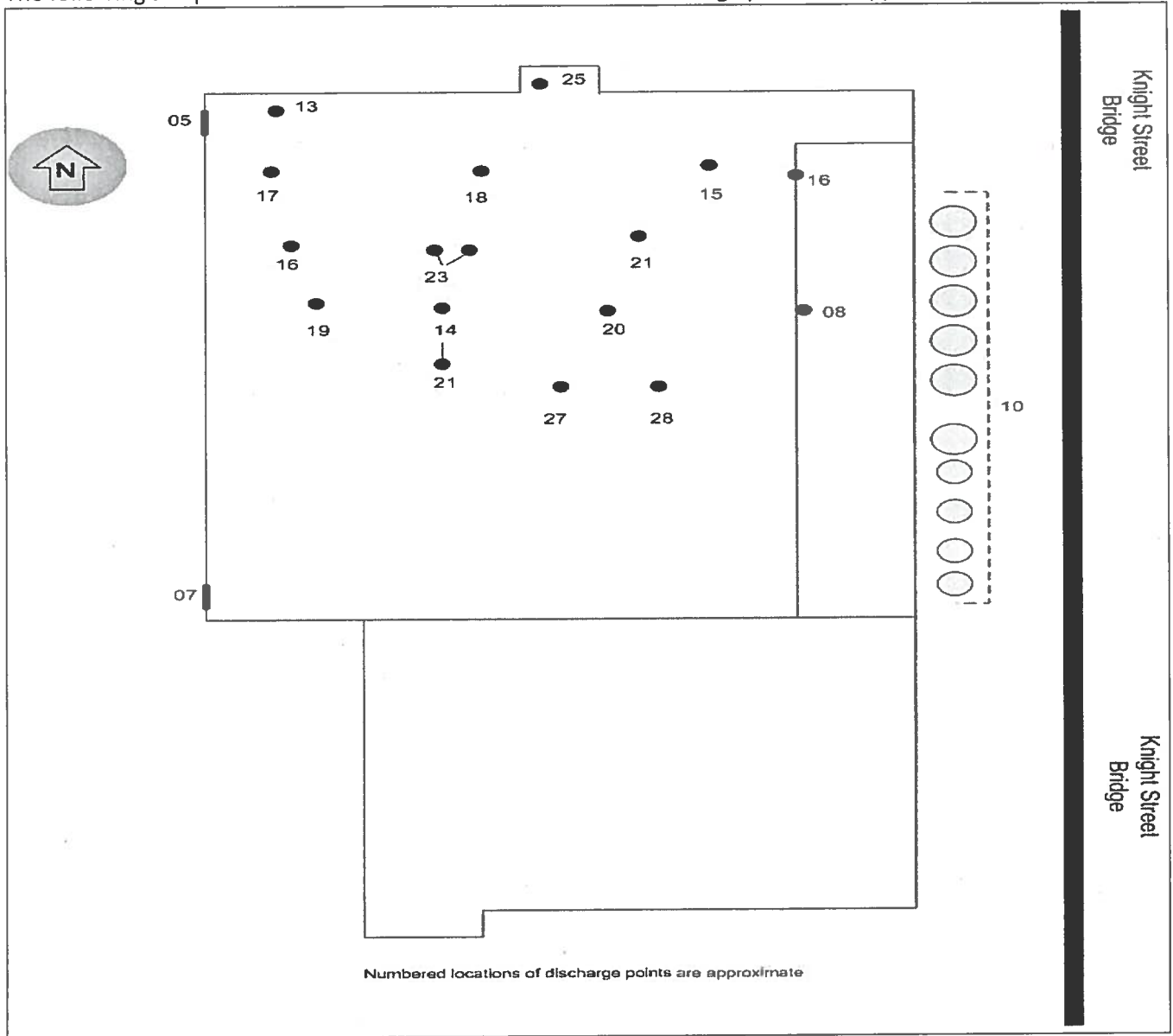

 R.H. (Ray) Robb, P. Eng.
 District Director

Permit GVA0149


SECTION 4 – SITE PLAN

LEGAL DESCRIPTION OF DISCHARGE SITE: Municipality of Richmond, Parcel Identifier: 003-644-154, Lot 63, Sections 17 and 20, Block 5 North, Range 5 West, Plan 47297, New Westminster District.

The following site plan is not to scale and the locations of the discharge points are approximate.



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R.H. (Ray) Robb, P. Eng.
District Director

Permit GVA0149