

# Environment Act Licence

## Loi sur l'environnement Licence

Manitoba  
Conservation  
Conservation  
Manitoba



Licence No./Licence n° 1164 RR

Issue Date/Date de délivrance February 18, 1988

Revised: June 14, 2001

Revised: February 8, 2005

**IN ACCORDANCE WITH THE ENVIRONMENT ACT (C.C.S.M. c. E125)  
THIS LICENCE IS ISSUED PURSUANT TO SECTIONS 10(1) AND 14(2) TO:**

**CENTRAL PRECISION LTD.; "the Licencee"**

for the operation of the Development being a plant for the hard chrome plating and finishing of locomotive crankshafts located at or near 415 Madison Street in the City of Winnipeg in accordance with the Proposal filed under the Clean Environment Act dated March 17, 1987, and subsequent information dated November 23, 2004, and subject to the following specifications, limits, terms and conditions:

**DEFINITIONS**

In this Licence,

"**accredited laboratory**" means an analytical facility accredited by the Standard Council of Canada (SCC), or accredited by another accrediting agency recognized by Manitoba Conservation to be equivalent to the SCC, or be able to demonstrate, upon request, that it has the quality assurance/quality control (QA/QC) procedures in place equivalent to accreditation based on the international standard ISO/IEC 17025, or otherwise approved by the Director;

"**affected area**" means a geographical area, excluding the property of the Development;

"**approved**" means approved by the Director in writing;

"**dangerous good**" means any product, substance or organism designated in the regulations, or conforming with the criteria set out in the regulations, or in any regulation adopted in accordance with The Dangerous Goods Handling and Transportation Act, and includes hazardous wastes;

"**Director**" means an employee so designated pursuant to The Environment Act;

**\*\*A COPY OF THE LICENCE MUST BE KEPT ON SITE AT THE DEVELOPMENT AT ALL TIMES\*\***

**"Environment Officer"** means an employee so designated pursuant to The Environment Act;

**"noise nuisance"** means a continuous or repeated noise in an affected area, which is offensive, obnoxious, troublesome, annoying, unpleasant or disagreeable to a person:

- a) residing in an affected area;
- b) working in an affected area; or
- c) present at a location in an affected area which is normally open to the members of the public; and

if the noise

- d) is the subject of at least 5 written complaints, received by the Director in a form satisfactory to the Director, and within a 90 day period, from 5 different persons falling within clauses a), b), or c), who do not live in the same household;

**"odour nuisance"** means a continuous or repeated odour, smell or aroma, in an affected area, which is offensive, obnoxious, troublesome, annoying, unpleasant, or disagreeable to a person:

- a) residing in an affected area;
- b) working in an affected area; or
- c) present at a location in an affected area which is normally open to the members of the public; and

if the odour, smell or aroma

- d) is the subject of at least 5 written complaints, received by the Director in a form satisfactory to the Director, and within a 90 day period, from 5 different persons falling within clauses a), b), or c), who do not live in the same household;

**"opacity"** means the degree to which emissions reduce the transmission of light and obscure the view of an object in the background;

**"particulate matter"** means any finely divided liquid or solid matter other than water droplets;

**"particulate residue"** means that part or portion of an atmospheric emission which is deposited onto a surface;

**"point source"** means any point of emission from the Development where pollutants are emitted to the atmosphere by means of a stack;

**"QA/QC"** means quality assurance/quality control;

**"sanitary wastes"** means sewage containing human body, toilet, liquid, waterborne culinary, sink or laundry waste;

**"sewerage system"** means all sewers, appurtenances, pumping stations, treatment works, and all physical properties of the system, but does not include extensions to the collection systems;

**"significant"** means of important negative consequence as determined by an individual with demonstrated expertise who is qualified to make such judgements;

**"stack"** means a duct, pipe, chimney, vent, opening or other structure through which pollutants are emitted to the atmosphere;

**"Standard Methods for the Examination of Water and Wastewater"** means the most recent edition of Standard Methods for the Examination of Water and Wastewater published jointly by the American Public Health Association, the American Waterworks Association and the Water Environment Federation; and

**"waste water"** means any water contaminated by pollutants at the Development, or as otherwise determined by the Director.

### GENERAL TERMS AND CONDITIONS

This Section of the Licence contains requirements intended to provide guidance to the Licencee in implementing practices to ensure that the environment is maintained in such a manner as to sustain a high quality of life, including social and economic development, recreation and leisure for present and future Manitobans.

1. The Licencee shall implement a high standard of equipment maintenance and good housekeeping and operational practices with respect to the Development, at all times.
2. The Licencee shall reduce the production and dissemination of wastes by initiating and maintaining waste reduction and waste recycling programs.
3. The Licencee shall, upon the request of the Director and in addition to any of the limits, terms or conditions specified in this Licence:
  - a) sample, monitor, analyze and/or investigate specific areas of concern regarding any segment, component or aspect of pollutant storage, containment, treatment, handling, disposal or emission systems, for such pollutants or ambient quality, aquatic toxicity, leachate characteristics and discharge or emission rates, for such duration and at such frequencies as may be specified;
  - b) determine the environmental impact associated with the release of any pollutants from the said Development; or
  - c) provide the Director, within such time as may be specified, with such reports, drawings, specifications, analytical data, descriptions of sampling and analytical procedures being used, bioassay data, flow rate measurements and such other information as may from time to time be requested.
4. The Licencee shall, unless otherwise specified in this Licence:
  - a) carry out all preservations and analyses on liquid samples in accordance with the methods prescribed in the most current edition of Standard Methods for the Examination of Water and Wastewater or in accordance with equivalent preservation and analytical methodologies approved by the Director;

- b) carry out all sampling of, and preservation and analyses on, soil and air samples in accordance with methodologies approved by the Director;
  - c) ensure that all analytical determinations are undertaken by an accredited laboratory; and
  - d) report the results to the Director within 60 days of the samples being taken.
5. The Licencee shall carry out any remedial measures, modifications, or alterations, as deemed necessary by the Director, in respect to matters authorized under this Licence.
  6. The Licencee shall provide to the Director, upon request, all information required under this Licence, in writing and in such form and content (including number of copies), as may be specified by the Director.

### **LIMITS, TERMS AND CONDITIONS**

#### **Respecting Air Emissions – Limits**

7. The Licencee shall not emit from the Development:
  - a) particulate matter in any air emission that:
    - i) exceeds 0.23 grams per dry standard cubic metre calculated at 25 degrees Celsius and 760 millimetres of mercury, corrected to 12 percent carbon dioxide for processes involving combustion, from any point source of the Development;
    - ii) exhibits a visible plume with an opacity of greater than 5 percent at any point beyond the property line of the Development; or
    - iii) results in the deposition of visible particulate residue at any time beyond the property line of the Development; or
  - b) particulate matter from any point source with an opacity that equals or exceeds:
    - i) 20 percent as the average of any 24 consecutive opacity observations taken at 15 second intervals;
    - ii) 20 percent for more than 16 individual opacity observations within any 1 hour period; or
    - iii) 40 percent for any individual opacity observation.
8. The Licencee shall not emit total chromium at any time from any point source(s) of the Development, in excess of 0.03 milligrams per dry standard cubic metre calculated at 25 degrees Celsius and 760 millimetres of mercury.
9. The Licencee, notwithstanding Clause 8, shall not emit any one or more of the following pollutants from any part or process of the Development such that the concentration of any pollutant, when measured by a method approved by the Director and at any point of reception beyond the property line of the Development, exceeds the following limits:

	<u>Pollutant</u>	<u>Period of Measurement</u>	<u>Limit</u>
a)	Cadmium	Yearly average	0.05 $\mu\text{g}/\text{m}^3$
b)	Chromium	Yearly average	0.001 $\mu\text{g}/\text{m}^3$
c)	Chromic Acid	One (1) hour average	4.5 $\mu\text{g}/\text{m}^3$
d)	Hydrogen chloride	Yearly average	7.0 $\mu\text{g}/\text{m}^3$
e)	Hydrogen chloride	One (1) hour average	3000.0 $\mu\text{g}/\text{m}^3$
f)	Hydrogen cyanide	Yearly average	3.0 $\mu\text{g}/\text{m}^3$
g)	Hydrogen cyanide	One (1) hour average	40.0 $\mu\text{g}/\text{m}^3$
h)	Sulphuric acid mist	One (1) hour average	100.0 $\mu\text{g}/\text{m}^3$

10. The Licencee shall not cause or permit a noise nuisance to be created as a result of the construction, operation, or alteration of the Development, and shall take such steps as the Director may require to eliminate or mitigate a noise nuisance.
11. The Licencee shall not cause or permit an odour nuisance to be created as a result of the construction, operation, or alteration of the Development, and shall take such steps as the Director may require to eliminate or mitigate an odour nuisance.

#### **Respecting Air Quality Dispersion Modelling**

12. The Licencee shall submit a report, upon the written request and acceptable to the Director, which models the air emissions from the Development and which predicts any potential impact at any point beyond the property boundaries of the Development.
13. The Licencee shall address, by way of the modelling performed in Clause 12 of this Licence, the potential impact of the following compounds:
  - a) Total Particulate Matter;
  - b)  $\text{PM}_{2.5}$ ;
  - c) Cadmium;
  - d) Sulphuric acid;
  - e) Hydrogen chloride;
  - f) Chromium; and
  - g) Others as may be determined by the Director.

#### **Respecting Air Pollution Control Equipment**

14. The Licencee shall direct all air streams containing pollutants to a pollution control device which has been designed for and demonstrated to be capable of reducing, altering, eliminating or otherwise treating the pollutants.
15. The Licencee shall submit for the Director's approval, within 90 days of the issuance of this Licence, a standard operating procedural manual and a maintenance procedure and timetable for each air emission pollution control device based on the manufacturers specifications.

16. The Licencee, pursuant to Clauses 14 and 15 of this Licence, shall not operate any process directing an emission to an air pollution control device at the Development unless:
- a) the operating and maintenance measures and status of the device are in full compliance with the approved procedures and timetables;
  - b) all emissions from the process are directed to the fully operational air pollution control device;
  - c) all discharges of treated emissions from the air pollution control devices are immediately directed to a stack; and
  - d) the emissions do not contain concentrations of pollutants which:
    - i) are in violation of any other applicable legal instrument including an Act, Regulation or by-law; or
    - ii) otherwise create a significant health or environmental impact beyond the boundaries of the Development.
17. The Licencee, pursuant to Clause 14 of this Licence, shall maintain a log book of the most recent 24 month period to record maintenance of all air pollution control devices. The log book shall be kept at the Development and shall be available upon request for inspection by an Environment Officer. The log book shall record, at minimum, the following information:
- a) identification of the unit and the process(s) it serves;
  - b) time/date of log entry; and
  - c) nature of event.
18. The Licencee shall handle, store and dispose of all pollutants collected by the air pollution control equipment in a manner suitable to their characterization as type of waste or dangerous good.

**Respecting Air Emissions – Sampling, Analysis, Reporting**

19. The Licencee, upon written request from the Director, shall provide a stack or stacks including all necessary sampling facilities for the sampling of air emissions at the Development. The stack or stacks shall be provided:
- a) at a location(s) and within a time frame satisfactory to the Director; and
  - b) to the specifications and in accordance with the most recent version of Manitoba Conservation Guideline, *Guideline for Stack Sampling Facilities*, unless otherwise approved by the Director.
20. The Licencee, upon a written request from the Director, shall submit a detailed plan which is acceptable to and approved by the Director, for the sampling and analysis of potential air pollutants, released as stationary point and fugitive emissions, including any compounds determined by the Director. The plan shall identify the rationale for the sampling, the ways and means by which the sampling program will be implemented including any special measures or methods which would be necessitated by influencing factors such as unfavourable weather conditions, the need for large or additional sample volumes, the need for multiple sampling runs, the



methods used for the sampling and the analysis for each compound, the detection level to be attained, a comprehensive QA/QC program, and other items as may be identified by the Director.

21. The Licencee shall perform all stack sampling in accordance with the most recent version of Manitoba Conservation Report No. 96-07, *Interim Stack Sampling Performance Protocol*, unless otherwise approved by the Director.
22. The Licencee shall arrange the scheduling of the sampling program, submitted and approved pursuant to Clause 20 of this Licence, such that a representative of Manitoba Conservation is available to monitor and audit the implementation of the sampling program.
23. The Licencee, within a timeframe to be determined by the Director, shall complete the sampling of emissions according to the approved plan submitted pursuant to Clause 21 of this Licence.
24. The Licencee, within 60 days of the receipt of the analytical results of the sampling plan pursuant to Clause 20 of this Licence, shall submit a report for the approval of the Director containing at minimum:
  - a) the raw data collected;
  - b) a discussion of the sampling and analytical portions of the program including any anomalies of sampling and analysis; and
  - c) a discussion of the significance of the data gathered with specific attention to:
    - i) the significance for potential acute and chronic impacts to health or environment from exposure to concentrations of the compounds detected;
    - ii) the need for risk assessment of the impact of emissions;
    - iii) the need for the establishment of ambient air monitoring stations;
    - iv) the need for dispersion modeling of emissions;
    - v) results and conclusions of the QA/QC program; and
    - vi) other issues as may be determined by the Director.
25. The Licencee, upon the written request of and in a timeframe stipulated by the Director, shall comply with any air emission or ambient air quality criteria specified by the Director for any pollutant of concern to the Director which has been identified pursuant to Clauses 3, 13 or 20 of this Licence, and as a result of the review of this Licence pursuant to Review and Revocation C of this Licence.

#### **Respecting Ambient Air Quality Monitoring**

26. The Licencee shall submit, upon the written request and for the approval of the Director, a program for:
  - a) the sampling, analysis and reporting of levels of contaminants, as determined by the Director, at a selected location(s) beyond the property boundaries of the Development; and
  - b) the location, installation and operation of a meteorological monitoring station.

27. The Licencee shall implement the approved program submitted pursuant to Clause 26 of this Licence within a timeframe stipulated by the Director.

**Respecting Hard Chrome Plating Emission Reduction**

28. The Licencee shall submit, within 90 days of the issuance of this Licence, an emissions management plan, for approval of the Director, which addresses means by which the emission of hexavalent chromium from the hard chrome plating cell(s) can be reduced. The plan must discuss implementation of control measures such as surface tension reduction, fume suppression, etc.

**Respecting Chemical Storage and Spill Containment**

29. The Licencee shall comply with all the applicable requirements of:
- a) Manitoba Regulation 188/2001, or any future amendment thereof, respecting the *Storage and Handling of Petroleum Products and Allied Products*;
  - b) The Dangerous Goods Handling and Transportation Act, and regulations issued thereunder, respecting the handling, transport, storage and disposal of any dangerous goods brought onto or generated at the Development; and
  - c) the Office of the Fire Commissioner – Province of Manitoba.
30. The Licencee shall provide containment for all vessels containing chemicals and in each area of the development where the chemicals are stored, loaded, transferred, used or otherwise handled, in compliance with the National Fire Code of Canada (1995), or any future amendment thereof such that any product leakage or spillage and any contaminated liquid generated is contained within the Development and contamination of groundwater is prevented.
31. The Licencee shall, in a manner approved by the Director, remove and dispose of all spilled dangerous goods.

**Respecting Solid Waste**

32. The Licencee shall dispose of all solid waste generated from any activity at the Development, which is not recycled, only to a waste disposal ground operating under the authority of a permit issued pursuant to Manitoba Regulation 150/91 or any future amendment thereof, or a Licence issued pursuant to The Environment Act.

**Respecting Sanitary Waste Disposal**

33. The Licencee shall discharge sanitary wastes only to a sewerage system.



**Respecting Waste Water**

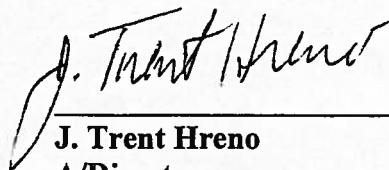
34. The Licencee shall collect all waste waters which are generated by any processes associated with Development, and:
- a) discharge the waste water, as appropriate, to a sewerage system; or
  - b) dispose of the waste water, as appropriate, according to the provisions of The Dangerous Goods Handling and Transportation Act, C.C.S.M., c. D12.

**Respecting Emergency Response Planning**

35. The Licencee, within 90 days of the issuance of this Licence, or other time frame approved by the Director, shall submit for approval of the Director, a contingency plan in accordance with the Manitoba Industrial Accidents Council (MIAC) *Industrial Emergency Response Planning Guide*, outlining procedures to be used in the event of a leak, spill, fire, or other hazardous condition at the Development.

**REVIEW AND REVOCATION**

- A. Environment Act Licence No. 1164 R is hereby rescinded.
- B. If, in the opinion of the Director, the Licencee has exceeded or is exceeding or has or is failing to meet the specifications, limits, terms, or conditions set out in this Licence, the Director may, temporarily or permanently, revoke this Licence.
- C. If, in the opinion of the Director, new evidence warrants a change in the specifications, limits, terms or conditions of this Licence, the Director may require the filing of a new Proposal pursuant to Section 10 of The Environment Act.



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**J. Trent Hreno  
A/Director  
Environment Act**

**Client File No.: 2836.00**