

Environment Act Licence Loi sur l'environnement Licence

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Licence No./Licence n° 962 RR

Issue Date/Date de délivrance October 7, 1992

In accordance with the Manitoba Environment Act (C.C.S.M. c. E125) (Revised: April 8, 1997)
(Revised: April 14, 1997)

THIS LICENCE IS ISSUED TO:

MOHAWK OIL COMPANY LIMITED: "the Licence"

for the operation of the Development being an ethanol and fibroprotein products manufacturing plant, located in NW 1/4 of Section 2, the NE 1/4 of Section 3, the SE 1/4 of Section 10, and the SW 1/4 of Section 11, Township 15, Range 18 WPM in the Town of Minnedosa, in accordance with the Proposal filed under The Clean Environment Act in 1982, and submissions dated April 1 and July 4, 1996, and subject to the following specifications, limits, terms and conditions:

DEFINITIONS

In this Licence,

"affected area" means a geographical area, affected by a noise or odour nuisance, excluding the property of the Development;

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

"noise nuisance" means an unwanted sound, in an affected area, which is annoying, troublesome, 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;

if the unwanted sound

- 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;

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 ducted into the atmosphere;

"waste(s)" means waste products of any kind whatsoever or the run-off from such waste products and includes both liquid and solid materials; and

"wastewater" means the spent or used water of the Development which contains dissolved and suspended matter.

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" published jointly by the American Public Health Association, the American Waterworks Association and the Water

- Pollution Control Federation, or in accordance with an equivalent analytical methodology approved by the Director;
- b) carry out all sampling of, and preservation and analyses on, air samples in accordance with methodologies approved by the Director;
 - c) ensure that all analytical determinations are undertaken by an accredited laboratory or a laboratory approved by the Director; and
 - d) report the results to the Director within 60 days of the samples being taken.
5. 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.
 6. The Licencee shall carry out, as deemed necessary by the Director, any remedial measures or modifications in respect to matters authorized under this Licence.

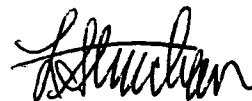
SPECIFICATIONS, LIMITS, TERMS AND CONDITIONS

7. The Licencee shall not emit particulate matter from the Development such that:
 - a) particulate matter:
 - 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) opacity from any point source of the Development 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 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.
9. 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.
10. The Licencee shall construct and maintain, when requested by the Director, stack sampling facilities at the Development. These facilities shall be constructed as needed and within time frames and specifications as specified by the Director.
11. The Licencee shall not discharge cooling water effluent from the Development where the temperature of such effluent is in excess of the maximum permissible value of "TE" as computed in accordance with Appendix A to this Licence.

12. The Licencee shall construct and provide, for use of the Director, a flow meter or weir for the purpose of determining, on any day, the rate of discharge of the cooling water effluent from the Development toward the Little Saskatchewan River.
13. The Licencee, at such times as the rate of flow of the Little Saskatchewan River falls below the critical value of "QR" given in Appendix A to this Licence, shall:
 - a) advise the Director, by facsimile or any other notification procedure approved by the Director:
 - i) as soon as possible but no later than within 12 hours of the event; or
 - ii) before noon of the first business day following an event on a weekend or statutory holiday; and
 - b) at the request of the Director, submit daily reports containing the following information:
 - i) the values of "QR", "QL", "QE", "TR", and "TE" as determined in accordance with Appendix A to this Licence; and
 - ii) the actual measured temperature of the cooling water effluent from the Development.
14. The Licencee shall dispose of any waste stillage from the Development in accordance with the provisions of The Environment Act and the regulations issued thereunder.
15. The Licencee shall store and handle ethanol and denatured ethanol in accordance with the provisions of The Dangerous Goods Handling and Transportation Act and the regulations issued thereunder.
16. The Licencee shall direct all liquid wastes from the fibroprotein products manufacturing process to the Town of Minnedosa wastewater collection system.
17. The Licencee shall not allow airborne emissions from the fibroprotein products manufacturing process to impact any public roadway beyond the Development property boundaries such that a safety threat is created.

REVIEW AND REVOCATION

- A. This Licence replaces Licence No. 962 which 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.



Larry Strachan, P. Eng.
Director
Environment Act

Appendix A – To Licence No. 962 RR

Formulae For Calculating Water Temperature And Flow Rate Data

1. Formula for calculating the maximum permissible value for “ T_E ” pursuant to Clause 11 of this Licence:

$$T_E = \frac{Q_R + Q_L + Q_E}{Q_E} + T_R \text{ as } ^\circ\text{C}$$

2. Formula for calculating the value of “ Q_R ” pursuant to Clause 13 of this Licence:

$$\text{Critical } Q_R = 0.270 - 0.0064T_R \text{ m}^3 / \text{second.}$$

Definitions

- Q_R means the river flow rate of the Little Saskatchewan River, expressed in cubic metres per second, as determined at the outfall of Lake Minnedosa or as determined from the Federal Water Surveys flow rate monitoring station just upstream of Lake Minnedosa, whichever data are most acceptable to the Director at any given time;
- Q_L means the discharge rate of the Town of Minnedosa municipal aerated sewage lagoon system expressed in cubic metres per second;
- Q_E means the discharge rate of the cooling water effluent from the Development expressed in cubic metres per second;
- T_R means the temperature of the Little Saskatchewan River upstream of the effluent discharge point in degrees Celsius; and
- T_E means the temperature of the cooling water effluent from the Development in degrees Celsius.