

Environment Act Licence

Manitoba
Environment



Licence No. 1406
Issue Date SEPTEMBER 7, 1990

In accordance with the Manitoba Environment Act (C.C.S.M. c. E125)

THIS LICENCE IS ISSUED TO:

MEADOW MATERIALS (DOW CORNING SILICON ENERGY SYSTEMS, INC.);
APPLICANT

The following limits, terms and conditions shall be complied with in connection with the construction and operation of a Silicon Products Pilot Plant in East Selkirk, Manitoba:


1. The Applicant shall limit the emission of the following pollutants from the said operation to such an extent that downwind ground level concentrations of the pollutants, in conjunction with those from the operation of the Selkirk Generating Station, are not in excess of the following limits:

<u>Pollutant</u>	<u>Period of Time Pollutant is measured</u>	<u>Concentration (per cubic metre)</u>
Carbon Monoxide	1-hr average	35 milligrams
Nitrogen Dioxide	1-hr average 24-hr average Annual Arithmetic Mean	400 micrograms 200 micrograms 60 micrograms
Sulphur Dioxide	1-hr average 24-hr average Annual Arithmetic Mean	450 micrograms 150 micrograms 30 micrograms
Suspended Particulate Matter	24-hour average Annual Geometric Mean	120 micrograms 60 micrograms

2. The Applicant shall:
 - (a) not discharge any wastewater to the Red River which contains zinc (total) in a concentration greater than 0.5 mg/L; and
 - (b) notify the Director of any significant increases in either the quantity and/or quality of blowdown from the cooling water spray system, as identified in the Environmental Impact Assessment dated March, 1990.

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3. The Applicant shall ensure that any emergency venting of the carbon monoxide process emissions does not exceed 15 minutes in duration at any time.
4. The Applicant shall at all times maintain a high standard of equipment maintenance and good housekeeping practices consistent with meeting the limits, terms and conditions prescribed in this Licence.
5. The Applicant shall ensure that stack sampling facilities are installed in a manner satisfactory to the Director.
6. The Applicant shall undertake a source monitoring program to determine levels of carbon monoxide, nitrogen dioxide, sulphur dioxide and suspended particulate matter emissions in a manner and at a frequency approved by the Director.
7. The Applicant shall, at locations and in a manner and frequency approved by the Director, conduct an ambient air monitoring program for carbon monoxide, nitrogen dioxide, sulphur dioxide and suspended particulate matter.
8. The Applicant shall receive approval from the Director for the method of disposal of glass slag and baghouse dust from the plant operation.
9. The Applicant shall notify the Director immediately of any non-typical emergency venting procedures.



Larry Strachan, P.Eng.
Director, Environment Act

Justification For Alteration to the Recommendations of The Clean Environment Commission

The recommendations of the Clean Environment Commission have been accepted except for recommendations 8, 9 and 10, which have been omitted from the Licence.

Justification

1. Solid waste disposal and handling and storage of gasoline and associated products are regulated by specific regulation under The Environment Act. There is no need to repeat regulatory requirements in the Licence.
2. Handling, storage and dispensing of dangerous goods is regulated by The Dangerous Goods Handling and Transportation Act. There is no need to repeat this regulatory requirement in the Licence.



Larry Strachan, P.Eng.
Director, Environment Act