

# Environment Act Licence

Manitoba  
Environment



Licence No. 1360  
Issue Date MAY 2, 1990

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

THIS LICENCE IS ISSUED TO:

ESSO PETROLEUM CANADA, HARTE; APPLICANT

The following limits, terms, and conditions shall be complied with in connection with the operation of an anhydrous ammonia storage and distribution facility located at S. E. 1/4, Section 17, Township 12, Range 15, WPM, near Harte, in the Rural Municipality of North Cypress, Manitoba:

1. The Applicant shall limit the emission of particulate matter from the operation to such an extent that airborne particulate matter from any part or process of the operation does not exhibit an opacity greater than 5 percent at any point beyond the property line of the operation.
2. The Applicant shall ensure that the anhydrous ammonia storage facility is located:
  - (a) at least 800 metres from residential areas, schools, hospitals or other institutions; and,
  - (b) at least 100 metres from a single isolated residence; and,
  - (c) at least 100 metres from the right of way of a highway.
3. The Applicant shall not cause or permit emissions of ammonia to such an extent that the ambient concentration of ammonia in air is in excess of:
  - (a) 10 parts per million at any time when measured past the property line of the operation;
  - (b) 2 parts per million on a 1-hour average when measured past the property line of the operation.

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4. The Applicant shall not cause or permit the emission of sound from any part of the operation which when measured in accordance with Clause 5 of this Licence, in a residential area, exceeds the following hourly equivalent continuous sound level limits:

(a) subject to (b):

(i) 60 dBA during the daytime hours of 7:00 a.m. to 10:00 p.m., local time;

(ii) 50 dBA during the nighttime hours of 10:00 p.m. to 7:00 a.m., local time.

(b) when subjective evaluation or measurements indicate the intermittent or continuous noise has a significant impulsive character or predominant discrete tone (for example, a whine or hum):

(i) 55 dBA during the daytime hours of 7:00 a.m. to 10:00 p.m., local time;

(ii) 45 dBA during the nighttime hours of 10:00 p.m. to 7:00 a.m., local time.

5. Noise level determinations, pursuant to Clause 4 of this Licence shall be based on measurements made as follows:

(a) beyond the property line of ESSO PETROLEUM CANADA;

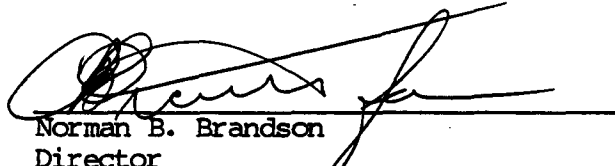
(b) excluding any significant interfering sounds from other sources; and,

(c) in terms of the equivalent continuous sound level averaged over a 1-hour period (60 minutes), using a sound level monitoring device which equals or surpasses the requirements of Canadian Standards Association Standard Z 107.1 - 1973 (or the equivalent) for Type 2 sound level meters, operated on the "A-weighting network" and "slow" meter response.

6. In this Licence:

- (a) "impulsive sound" means hammering type sound having peaks one second or more apart, with less than 60 impacts per minute;
- (b) "predominant discrete tone" means a sound having a one-third octave band sound level which, when measured in a one-third octave band, exceeds the arithmetic average of the sound levels of the two adjacent one-third octave bands on either side of such one-third octave band by:
  - (i) 5 dB for such one-third octave band with a center frequency from 500 Hertz to 20,000 Hertz, inclusive, provided such one-third octave band sound level exceeds the sound level of each adjacent one-third octave band; or,
  - (ii) 8 dB for such one-third octave band with a center frequency from 160 Hertz to 400 Hertz, inclusive, provided such one-third octave band sound level exceeds the sound level of each adjacent one-third octave band; or,
  - (iii) 15 dB for such one-third octave band with a center frequency from 25 Hertz to 125 Hertz, inclusive, provided such one-third octave band sound level exceeds the sound level of each adjacent one-third octave band.
- (c) "Lequivalent ( $L_{eq}$ )" - the equivalent, A-weighted sound level is the intensity (dBA) of the constant or steady sound level that would result in exposure to the same total A-weighted energy as would the specified time varying sound, if the constant sound level persisted over an equal time interval. Note:  $L_{eq}(1)$  is the equivalent sound level for a 1-hour period, and similarly, the  $L_{eq}(24)$  represents the equivalent sound level for a 24-hour period.

7. The Applicant shall ensure that a high standard of equipment maintenance and good housekeeping practices are carried out at all times consistent with meeting the requirements of this Licence.

  
Norman B. Brandson  
Director  
Environmental Management Services