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AN ORDER OF THE CLEAN ENVIRONMENT COMMISSION
UNDER THE CLEAN ENVIRONMENT ACT

RE: THE CLEAN ENVIRONMENT COMMISSION and TELEDYNE CANADA, LIMITED, Applicant,

- WHEREAS pursuant to the provisions of The Clean Environment Act, Thor Foundry Limited submitted an application to The Clean Environment Commission to prescribe limits in connection with the operation of a cupola furnace and related foundry process operations located at or near 54 Archibald Street in the City of Winnipeg, Manitoba;
- AND WHEREAS a representation was made to the Commission by a person who was likely to be affected by an order of the Commission prescribing limits in connection with the said operation;
- AND WHEREAS the Commission held a public hearing on the 26th, 27th and 28th days of June, 1972, and on the 5th and 6th days of March, 1973, and on the 2nd day of April, 1973, in Winnipeg, Manitoba, and issued Order No. 270 on the 18th day of May, 1973;
- AND WHEREAS the Applicant submitted to the Commission a request for variation of the said order on the 22nd day of May, 1975;
- AND WHEREAS the Commission held a public hearing on the 3rd day of November, 1975, in Winnipeg, Manitoba, and issued Order No. 270VC on the 23rd day of February, 1976;
- AND WHEREAS Morkin, Hayes, Chapman and Dobrowolski, Barristers and Attorneys at Law submitted a request for variation of Order No. 270VC to The Clean Environment Commission on behalf of Thor Foundry Limited on the 20th day of May, 1976;
- AND WHEREAS the Commission held a public hearing on the 8th day of February, 1977, and issued varied Order No. 270VCC on the 4th day of March, 1977;
- AND WHEREAS pursuant to the provisions of the said Act, on the 13th day of August, 1981, Teledyne Canada, Limited filed a proposal with the department in connection with the operation of the said foundry following alterations to the plant and equipment;

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AND WHEREAS in the absence of limits, terms and conditions prescribed by a regulation under the said Act, the proposal was referred to The Clean Environment Commission to prescribe limits, terms and conditions;

AND WHEREAS after giving notice of the proposal and of its intention to consider rescinding its Order No. 270VCC, issued for the said operation prior to renovation, the Commission did not receive a representation from any person likely to be affected by an order of the Commission issued concerning the matter;

AND WHEREAS after receiving an environmental report, the Commission considered the proposal on the 20th day of June, 1983;

IT IS HEREBY ORDERED THAT

1. The Applicant shall not permit the emission of solid particulate matter from any point of emission of the said operation in excess of 0.23 grams per standard cubic metre calculated at 25 degrees Celsius and 760 millimetres of mercury at the point of emission, corrected to 12 percent carbon dioxide for processes involving combustion.
2. The Applicant shall not cause or permit visible emissions from any point of the said operation that exhibit an opacity equal to or greater than:
 - (a) 40 percent at any time;
 - (b) 20 percent for a period of more than 4 minutes in the aggregate in any one hour period.
3. The Applicant shall not permit particulate matter from any source of the said operation to become airborne to such an extent that the particulate matter remains visible past the property line of the said operation.
4. The Applicant shall limit the emission of odours to such an extent that odours from the said operation are not detectable at any point of impingement off the premises of the said operation in a residential area when one volume of odorous air is diluted with one equal volume of odour-free air.

5. The Applicant shall not cause or permit the emission of sound from the said operation which, when measured beyond the property line of the said operation in a residential area:

(a) subject to (b), exceeds an hourly equivalent sound level of:

(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) where subjective evaluation or measurements indicate the sound has a significant impulsive characteristic or predominant discrete tone, exceeds an hourly equivalent sound level of:

(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.

6. In this order:

(a) "hourly equivalent sound level" means a sound level measured in terms of the equivalent continuous sound level averaged over a one 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;

(b) "impulsive characteristics" means hammering type sound having peaks one second or more apart - i.e. less than 60 impacts per minute;

6. (c) "predominant discrete tone(s)" 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 on 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.
7. Order No. 270VCC shall be and the same is hereby rescinded.

Order No. 987

Dated at the City of Winnipeg

this 22nd day of June, 1983.


Chairman,
The Clean Environment Commission.

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