



Ministry of the Environment
Ministère de l'Environnement

AMENDED CERTIFICATE OF APPROVAL
AIR
NUMBER 3576-4KTHTA

Cyanide Destruct Systems Inc.
383 Elmira Road
Guelph, Ontario
N1K 1H3

Site Location: 293 Saunders Road, Lot 67
Barrie City, County Of Simcoe

You have applied in accordance with Section 9 of the Environmental Protection Act for approval of:

two (2) exhaust systems venting to the atmosphere from a cyanide waste disposal/processing facility, receiving a maximum of 40,000 litres per day of cyanide waste and having a maximum storage capacity of 60,000 litres of cyanide waste, as follows:

- one (1) exhaust system to vent to the atmosphere, fugitive ammonia emissions from the tanks outlined in Schedule "A", attached to this Certificate and from a packed tower type scrubber to control ammonia emissions from tank L, outlined in Schedule "A". The scrubber has a maximum volumetric capacity of 0.03 normal cubic metres per second, a diameter of 0.2 metre, an overall height of 1.5 metres, a packing height of 1.2 metres, consisting of Rashig rings, having a diameter of 2.54 centimetres. The scrubber uses water as scrubbing fluid, at a maximum rate of 6.3 litres per minute. The exhaust system vents to the atmosphere through a fan, having a maximum volumetric flow rate of 1.28 normal cubic metres per second and stack No. S1, having an exit diameter of 0.3 metre, extending 7.0 metre above the roof and 14.0 metres above grade,
- one (1) exhaust system to vent to the atmosphere fugitive ammonia emissions from the tanks outlined in Schedule "B", attached to this Certificate. The system includes a fan, having a maximum volumetric flow rate of 1.12 normal cubic metres per second and stack No. S2, having an exit diameter of 0.3 metre, extending 1.0 metre above the roof and 8.0 metres above grade,

all in accordance with the application for a Certificate of Approval (Air) submitted by Cyanide Destruct Systems Inc., dated February 17, 1998, signed by H. Robey, two letters from Cyanide Destruct Systems Inc., dated respectively, June 29, 1998 and February 24, 2000, both signed by H. Robey and all supporting information included.

For the purpose of this Certificate of Approval and the terms and conditions specified below, the following definitions apply:

DEFINITIONS

1. For the purpose of this Certificate of Approval:
 - 1.1 "Act" means the Environmental Protection Act;
 - 1.2 "Certificate" means this Certificate of Approval (Air), including Schedules "A" and "B", issued in accordance with Section 9 of the Act;
 - 1.3 "Company" means Cyanide Destruct Systems Inc.;
 - 1.4 "Director" means any Ministry employee appointed by the Minister pursuant to Section 5 of the Act;
 - 1.5 "Equipment" means the packed tower type scrubber described in the Company's application, this Certificate and in the supporting documentation referred to herein, to the extent approved by this Certificate; and
 - 1.6 "Ministry" means the Ontario Ministry of the Environment.

You are hereby notified that this approval is issued to you subject to the terms and conditions outlined below:

TERMS AND CONDITIONS

OPERATION AND MAINTENANCE

2. The Company shall ensure that the Equipment is properly operated and maintained at all times. The Company shall:
 - 2.1 Prepare, not later than three (3) months after receiving this Certificate and update, as necessary, a manual outlining the operating procedures and a maintenance program for the Equipment, including, routine operating and maintenance procedures, including those recommended by the Equipment supplier;
 - 2.2 Implement the recommendations of the operating manual; and
 - 2.3 Retain, for a minimum of two (2) years from the date of their creation, all records on the operation and maintenance of the Equipment and make the records available for inspection by staff of the Ministry.

The reasons for the imposition of these terms and conditions are as follows:

1. Condition No. 1 is included to define the special terms that are used throughout the Certificate.
2. Condition No. 2 is included to emphasize that the Equipment must be maintained and operated according to a procedure that will result in compliance with the Act, the regulations and this Certificate.

In addition the Company is required to keep records to assist the Director in determining whether or not the Equipment is being inspected and maintained as required by the Act, the regulations and this Certificate.

SCHEDULE "A"

This Schedule "A" forms part of this Certificate of Approval (Air).
Tanks and a scrubber venting through stack No. S1

| No. | Tank used for | Tank volume (litres) |
|-----|---------------------------------------|----------------------|
| 1. | Raw storage tank No. 1 (Tank P) | 37,440 |
| 2. | Raw storage tank No. 2 (Tank O) | 15,416 |
| 3. | Hydrolysis effluent (Tank L)* | 13,214 |
| 4. | pH adjust tank (Tank S) | 7,928 |
| 5. | Precipitation tank (Tank T) | 3,964 |
| 6. | Filter press feed tank No.1 (Tank Q) | 7,928 |
| 7. | Filter press feed tank No. 2 (Tank U) | 8,809 |
| 8. | Final effluent tank (Tank W) | 9,916 |

Venting through a packed tower type scrubber

SCHEDULE "B"

This Schedule "B" forms part of this Certificate of Approval (Air).
Tanks venting through stack No. S2

| No. | Tank used for | Tank volume (litres) |
|-----|---|----------------------|
| 1. | Silver electro-winning tank & cell (Tank D) | 2,200 |
| 2. | Gold electro-winning tank & cell (Tank E) | 573 |

| | | |
|----|---------------------------------|-----|
| 3. | Gold stripping tank (Tank F) | 573 |
| 4. | Gold strip rinse tank (Tanks G) | 573 |
| 5. | Gold strip rinse tank (Tank H) | 573 |

This Certificate of Approval revokes and replaces Certificate(s) of Approval No. 8-1035-98-006 issued on July 27, 1998.

In accordance with Section 139 of the Environmental Protection Act, R.S.O. 1990, Chapter E-19, as amended, you may by written notice served upon me and the Environmental Appeal Board within 15 days after receipt of this Notice, require a hearing by the Board. Section 142 of the Environmental Protection Act, provides that the Notice requiring the hearing shall state:

1. The portions of the approval or each term or condition in the approval in respect of which the hearing is required, and;
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

The Notice should also include:

3. The name of the appellant;
4. The address of the appellant;
5. The Certificate of Approval number;
6. The date of the Certificate of Approval;
7. The name of the Director;
8. The municipality within which the works are located;

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary*
Environmental Appeal Board
2300 Yonge St., 12th Floor
P.O. Box 2382
Toronto, Ontario
M4P 1E4

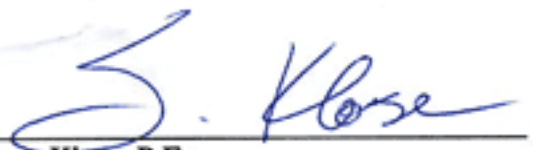
AND

The Director
Section 9, *Environmental Protection Act*
Ministry of the Environment
2 St. Clair Avenue West, Floor 12A
Toronto, Ontario
M4V 1L5

* Further information on the Environmental Appeal Board's requirements for an appeal can be obtained directly from the Board at: Tel: (416) 314-4600, Fax: (416) 314-4506 or www.ert.gov.on.ca

The above noted works are approved under Section 9 of the Environmental Protection Act.

DATED AT TORONTO this 30th day of May, 2000



Steve Klose, P.Eng.

Director

Section 9, *Environmental Protection Act*

MS/

c: District Manager, MOE Barrie
H.L. Robey, P.Eng., Cyanide Destruct Systems Inc.