


**AMENDED CERTIFICATE OF APPROVAL**
**AIR**

NUMBER 3293-825SBW

Issue Date: February 25, 2010

Stirling Chemicals Inc.  
 6621 Innovator Dr  
 Mississauga, Ontario  
 L5T 2J3

Site Location: 221 Wilkinson Road  
 Brampton City, Regional Municipality of Peel  
 Ontario

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

- one (1) exhaust system, equipped with seven (7) collection trunks, serving four (4) processing vessels, discharging to the atmosphere at a total volumetric flow rate of 1.44 cubic metres per second, through a single roof stack, having an exit diameter 0.21 metres, extending 1.0 metres above the roof and 7.1 metres above grade;

- one (1) natural gas-fired boiler, with a maximum heat input capacity of 1,821,374 kilojoules per hour, discharging to the atmosphere at a maximum volumetric flow rate of 0.43 cubic metre per second, through a stack having an exit diameter of 0.30 metre, extending 1.5 metres above the roof and 7.6 metres above grade; and

- three (3) natural gas fired unit heaters for comfort heating, having a total heat input of 801,405 kilojoules per hour.

all in accordance with the Application for Approval (Air) submitted by Stirling Chemicals Inc., dated May 29, 2008 and signed by Stuart Anderson, VP Finance and Administration; and the supporting information, including the Emission Summary and Dispersion Modelling Report, submitted by Trow Associates Inc., dated May 29, 2008 and signed by Ronald Taylor.

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

1. "Act" means the Environmental Protection Act;
2. "Certificate" means this Certificate of Approval, issued in accordance with Section 9 of the Act;
3. "Company" means Stirling Chemicals Inc.;
4. "District Manager" means the District Manager, Halton-Peel District Office, Central Region of the Ministry;
5. "Equipment" means the equipment or processes described in the Company's application, this Certificate and in the supporting documentation submitted with the application, to the extent approved by this Certificate;
6. "Facility" means the entire operation located on the property where the Equipment is located;
7. "Manual" means a document or a set of documents that provide written instructions to staff of the Company;
8. "Ministry" means the Ontario Ministry of the Environment;
9. "Publication NPC-205" means the Ministry Publication NPC-205, "Sound Level Limits for Stationary Sources in Class 1

& 2 Areas (Urban)", October, 1995 as amended; and

10. "Publication NPC-232" means the Ministry Publication NPC-232, "Sound Level Limits for Stationary Sources in Class 3 Areas (Rural)", October, 1995 as amended.

*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

1. The Company shall ensure that the Equipment is properly operated and maintained at all times. The Company shall:

(1) prepare, not later than three (3) months after the date of this Certificate, and update, as necessary, a Manual outlining the operating procedures and a maintenance program for the Equipment, including:

- (a) routine operating and maintenance procedures in accordance with good engineering practices and as recommended by the Equipment suppliers;
- (b) emergency procedures, including spill clean-up procedures;
- (c) procedures for any record keeping activities relating to operation and maintenance of the Equipment; and
- (d) all appropriate measures to minimize noise and odorous emissions from all potential sources;

(2) implement the recommendations of the Manual.

2. The Company shall, at all times, ensure that the noise emissions from the Facility comply with the limits set out in Ministry Publication NPC-205 or Publication NPC-232, as applicable.

### RECORD RETENTION

3. The Company shall retain, for a minimum of two (2) years from the date of their creation, all records and information related to or resulting from the recording activities required by this Certificate, and make these records available for review by staff of the Ministry upon request. The Company shall retain:

(1) all records on the maintenance, repair and inspection of the Equipment; and

(2) all records of any environmental complaints; including:

- (a) a description, time and date of each incident to which the complaint relates;
- (b) wind direction at the time of the incident to which the complaint relates; and
- (c) a description of the measures taken to address the cause of the incident to which the complaint relates and to prevent a similar occurrence in the future.

### NOTIFICATION OF COMPLAINTS

4. The Company shall notify the District Manager, in writing, of each environmental complaint within two (2) business days of the complaint. The notification shall include:

(1) a description of the nature of the complaint; and

(2) the time and date of the incident to which the complaint relates.

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

1. Condition No. 1 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.
2. Condition No. 2 is included to provide the minimum performance requirements considered necessary to prevent an adverse effect resulting from the operation of the Facility.
3. Condition No. 3 is included to require the Company to keep records and to provide information to staff of the Ministry so that compliance with the Act, the Regulations and this Certificate can be verified.
4. Condition No. 4 is included to require the Company to notify staff of the Ministry so as to assist the Ministry with the review of the site's compliance.

**This Certificate of Approval revokes and replaces Certificate(s) of Approval No. 8-3302-93-006 issued on September 7, 1993**

*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, the Environmental Review Tribunal and in accordance with Section 47 of the Environmental Bill of Rights, S.O. 1993, Chapter 28, the Environmental Commissioner, within 15 days after receipt of this Notice, require a hearing by the Tribunal. The Environmental Commissioner will place notice of your appeal on the Environmental Registry. 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 Review Tribunal  
655 Bay Street, 15th Floor  
Toronto, Ontario  
M5G 1E5

AND

The Environmental Commissioner  
1075 Bay Street, 6th Floor  
Suite 605  
Toronto, Ontario  
M5S 2B1

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 Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 314-4600, Fax: (416) 314-4506 or [www.ert.gov.on.ca](http://www.ert.gov.on.ca)**

*This instrument is subject to Section 38 of the Environmental Bill of Rights, that allows residents of Ontario to seek leave to appeal the decision on this instrument. Residents of Ontario may seek leave to appeal within 15 days from the date this decision is placed on the Environmental Registry. By accessing the Environmental Registry at [www.ene.gov.on.ca](http://www.ene.gov.on.ca), you can determine when the leave to appeal period ends.*

**CONTENT COPY OF ORIGINAL**

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

DATED AT TORONTO this 25th day of February, 2010

Victor Low, P.Eng.  
Director  
Section 9, *Environmental Protection Act*

SM/  
c: District Manager, MOE Halton-Peel  
Ronald Taylor, M.Sc., C.Chem., Trow Associates Inc.