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Ontario

Ministry of the Environment
Ministère de l'Environnement

AMENDED CERTIFICATE OF APPROVAL
AIR
NUMBER 1839-7Y7JM5
Issue Date: June 4, 2010

SAPA Canada Inc.
200 Bay St Royal Bank Plaza, South Tower, No. Suite 2600
Post Office Box, No. 185
Toronto, Ontario
M5J 2J4

Site Location: 7 Alloy Court
Toronto City,
M9M 3A2

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

secondary aluminium recycling operation with a net production capacity of 190 tonnes of aluminium per day comprising the following *equipment*:

- one (1) melting furnace, designated Furnace No.2, used to melt clean aluminium scrap, equipped with a natural gas-fired twin bed regenerative burner set, having a maximum total thermal input of 16,247,860 kilojoules per hour, exhausting into the atmosphere at a maximum volumetric flow rate of 19.2 actual cubic metres per second through a stack labelled (STK2) having an exit diameter of 1.38 metres and extending 30.75 metres above grade and 20.75 metres above the roof;

- one (1) melting furnace, designated Furnace No. 3, used to melt clean aluminum scrap, equipped with a natural gas-fired twin bed regenerative burner set, having a maximum total thermal input of 16,247,860 kilojoules per hour, exhausting into the atmosphere at a maximum volumetric flow rate of 19.2 actual cubic metres per second through a stack labelled (STK3) having an exit diameter of 1.0 metres and extending 30.75 metres above grade and 20.75 metres above the roof;

- one (1) melting furnace, designated Furnace No. 4 used to melt aluminum scrap, equipped with two (2) natural gas fired burners having a maximum total thermal input of 10,550,000 kilojoules per hour all discharging to a *Thermal Incinerator* equipped with a natural gas fired burner having a maximum thermal input of 1,583,000 kilojoules per hour, a refractory lined combustion chamber with an interior volume of 3.3 cubic metres which discharges to a baghouse equipped with fibreglass filterbags, with a mechanical shaker cleaning mechanism having a filtering velocity of 1.2 centimetres per second, all exhausting into the atmosphere at a maximum volumetric flow rate of 11.8 actual cubic metres per second through a stack labelled (STK1) having an exit diameter of 0.74 metres and extending 19.0 metres above grade and 8.94 metres above the roof;

- one (1) holding furnace, used to hold the molten metal from Furnace No. 2 and Furnace No. 3, equipped with natural gas fired burners having a maximum total thermal input of 8,440,000 kilojoules per hour, exhausting to the atmosphere at a maximum volumetric flow rate of 4.26 actual cubic metres per second through a stack labelled (STK4) having an exit diameter of 0.7 metres and extending 29.51 metres above grade and 19.51 metres above the roof;

- one (1) homogenizing furnace, used to treat aluminium billets from the Casting Unit, equipped with natural gas fired burners having a maximum total thermal input of 18,991,000 kilojoules per hour, exhausting to the atmosphere at a maximum volumetric flow rate of 12.9 actual cubic metres per second through a stack labelled (STK5) having an exit diameter of 1.23 metres and extending 16.57 metres above grade and 6.57 metres above the roof;

- one (1) billet cutting operation complete with cyclone and saw ship baghouse, all exhausting into the atmosphere at a maximum volumetric flow rate of 0.47 actual cubic metres per second through a stack labelled (STK6) having an exit diameter of 0.23 metres and extending 13.9 metres above grade and 3.9 metres above the roof;

- one (1) dross cooler discharging to a baghouse equipped with polyester filterbags, with a reverse pulsejet cleaning mechanism having a filtering area of 140 square meters, exhausting into the atmosphere at a maximum volumetric flow rate of 4.25 actual cubic metres per second through a stack labelled (STK7) having an exit diameter of 0.64 metres and extending 19.0 metres above grade and 9.0 metres above the roof;

- two (2) natural gas fired heating, ventilation and air conditioning (HVAC) units and six (6) radiant heaters for comfort heating having a total thermal input of 917,850 kilojoules per hour, venting into the atmosphere through three (3) rooftop stacks.

All in accordance with the documents set out in Schedule "A" attached to this *Certificate.*

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. *"Acoustic Audit"* means an investigative procedure consisting of measurements and/or acoustic modelling of all sources of noise emissions due to the operation of the *Facility*, assessed to determine compliance with the Performance Limits for the *Facility* regarding noise emissions, completed in accordance with the procedures set in *Publication NPC-103* and reported in accordance with *Publication NPC-233*.

3. *"Acoustic Audit Report"* means a report presenting the results of an *Acoustic Audit,* prepared in accordance with *Publication NPC-233.*

4. "*Certificate*" means this Certificate of Approval, issued in accordance with Section 9 of the Act.

5. "*Company*" means SAPA Canada Inc.

6. *"Director"* means any person appointed in writing by the Minister of the Environment pursuant to section 5 of the *EPA* as a Director for the purposes of section 9 of the *EPA*.

7. "*District Manager*" means the District Manager, Toronto District Office, Central Region of the *Ministry.*

8. "*Equipment*" means the furnaces and other equipment related to secondary aluminium recycling operation, described in the *Company*'s application, this *Certificate* and in the supporting documentation submitted with the application, to the extent approved by this *Certificate*.

9. *"ESDM Report"* means the Emission Summary and Dispersion Modelling Report prepared in accordance with the *Procedure Document* by Stantec Consulting Limited and dated June 2, 2008 submitted in support of the application.

10. *"Facility"* means the entire operation located on the property where the *Equipment* is located.

11. "*Independent Acoustical Consultant*" means an Acoustical Consultant not representing the Company and not involved in the noise/vibration assessment or the design/implementation of noise control measures for the Facility/Equipment.

The Independent Acoustical Consultant shall not be retained by the Consultant involved in the noise/vibration impact assessment or the design/implementation of noise/vibration control measures for the Facility/Equipment.

12. *"Manager"* means the Manager, Technology Standards Section, Standards Development Branch, or any other person who represents and carries out the duties of the Manager, Technology Standards Section, Standards Development Branch, as those duties relate to the conditions of this *Certificate*.

13. "*Manual*" means a document or a set of documents that provide written instructions to staff of the *Company.*

14. "*Ministry*" means the Ontario Ministry of the Environment.

15. *"Noise Abatement Action Plan"* means a noise abatement program developed by the *Company* to achieve compliance with the sound level limits set in *Publication NPC-205*.

16. "*Pre-Test Plan*" means a plan for the *Source Testing* including the information required in Section 1.1 of the *Source Testing Code*.

17. *"Procedure Document"* means *Ministry* Procedure titled "Procedure for Preparing an Emission Summary and Dispersion Modelling Report" dated July 2005, as amended.

18. "*Publication NPC-205*" means Ministry Publication NPC-205 "Sound level Limits for Stationary Sources in Class 1 & 2 Areas (Urban)", October 1995;

19. "*Publication NPC-233*" means Ministry Publication NPC-233 "Information to be Submitted for Approval of Stationary Sources of Sound" , October 1995;

20. *"Publication NPC-103"* means the *Ministry* Publication NPC-103 of the Model Municipal Noise Control By-Law, Final Report, August 1978, published by the *Ministry* as amended.

21. "*Source Testing*" means sampling and testing to measure emissions resulting from operating the test source defined in **Schedule "D"**, under conditions using the aluminium scrap feed recipe which yield the worst case emissions within the approved operating range of the *Equipment*, as determined in consultation with the *Manager*.

22. "*Source Testing Code*" means the Source Testing Code, Version 2, Report No. ARB-66-80, dated November 1980, prepared by the *Ministry*, as amended.

23. *"Test Contaminant"* means the contaminants listed in **Schedule "D"** of this *Certificate.*

24. "*Thermal Incinerator*" means the thermal incinerator, described in the *Company*'s application, this *Certificate* and in the supporting documentation referred to herein, to the extent approved by this *Certificate*.

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

TERMS AND CONDITIONS

PERFORMANCE

1. The *Company* shall ensure that the *Facility* is operated to comply, at all times, with the following performance requirements:

(1) The exhaust gases from Furnace No. 4 are not introduced into the *Thermal Incinerator* until the temperature in the combustion chamber of the *Thermal Incinerator* has reached a minimum of 1000 degrees Celsius.

(2) The temperature in the combustion chamber of the *Thermal Incinerator* is maintained at a minimum of 1000 degrees Celsius at all times, when the *Thermal Incinerator* is in operation.

(3) No aluminium scrap contaminated with fluoropolymer plastic is charged into a melting furnace at the *Facility*.

(4) The *Company* shall ensure that the concentration in the combustion gases leaving the *Thermal Incinerator*, of organic matter having a carbon content, expressed at equivalent methane, being an average of ten measurements taken at approximately one minute intervals, shall not exceed 100 parts per million by volume, measured on an undiluted basis.

(5) Assorted aluminium scrap (containing non-metallic combustibles) shall be charged only in Furnace No. 4.

OPERATION AND MAINTENANCE

2. 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 issuance of this *Certificate* and update, as necessary, a *Manual* outlining the operating procedures and a maintenance program for the *Equipment* and *Thermal Incinerator*, including:

(a) routine operating and maintenance procedures in accordance with good engineering practices and as

recommended by the *Equipment* and *Thermal Incinerator* 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 *Thermal Incinerator*;

(d) all appropriate measures to minimize dust, noise and odorous emissions from all potential sources;

(e) the frequency of inspection and replacement of the filter material in the baghouses;

(f) a program to monitor the pressure differential across each of the baghouses used to control particulate emissions and procedures to investigate and correct the cause of any anomalous measurements of the pressure differential across any of the baghouses;

(2) implement the recommendations of the *Manual*.

MONITORING

3.(a) The *Company* shall install, conduct and maintain a program to continuously monitor the temperature in the combustion chamber, when the *Thermal Incinerator* is in operation. The continuous monitoring system shall be equipped with continuous recording devices and shall comply with the requirements outlined in **Schedule "B".**

3.(b) The *Company* shall install, conduct and maintain a program to continuously monitor the temperature in Furnace No.2, Furnace No.3 and the holding furnace. The continuous monitoring system shall be equipped with continuous recording devices and shall comply with the requirements outlined in **Schedule "B".**

SOURCE TESTING

4. The *Company* shall perform *Source Testing* on Stack number 1 (STK1) attached to the bagfilter and *Thermal Incinerator* serving Furnace number 4, in accordance with the procedure outlined in **Schedule "C"**of this *Certificate,* to determine the rate of emission of the *Test Contaminants* listed in **Schedule "D"**of this *Certificate***.**

RECORD RETENTION

5. 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, inspection and calibration of the *Equipment* and the *Thermal Incinerator*;

(2) all records produced by the continuous monitoring system;

(3) 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.

(4) records related to *Source Testing* events as required by the section titled "Source Testing" of this *Certificate*; and

(5) all records on the maintenance, repair, inspection and calibration of the continuous monitor and data recorders.

NOTIFICATION OF COMPLAINTS

6. 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;

NOISE ABATEMENT ACTION PLAN

7.1 The *Company* shall implement the *Noise Abatement Action Plan* described in **Schedule "E".**

7.2 The *Company* shall ensure that the *Noise Abatement Action Plan* shall achieve compliance of the noise emissions from the *Facility* with the limits set out in *Ministry Publication NPC-205*.

7.3 The *Company* shall, not later than the date(s) specified in the *Noise Abatement Action Plan*, ensure that all reports on the progress of the *Noise Abatement Action Plan* are submitted to the *District Manager* and the *Director*.

ACOUSTIC AUDIT

8. The *Company* shall carry out acoustic audit measurements on the actual noise emissions due to the operation of the *Facility*, following the completion of the *Noise Abatement Action Plan*.

(1) The *Company*:

(a) shall carry out acoustic audit measurements in accordance with the procedures in *Publication NPC-103*;

(b) shall submit an *Acoustic Audit Report* on the results of the *Acoustic Audit*, prepared by an *Independent Acoustical Consultant*, in accordance with the requirements of *Publication NPC-233*, to the *District Manager* and the *Director*, not later than three (3) months after the completion of the *Noise Abatement Action Plan*.

(2) The *Director*:

(a) may not accept the results of the *Acoustic Audit* if the requirements of *Publication NPC-233* were not followed;

(b) may require the *Company* to repeat the *Acoustic Audit* if the results of the *Acoustic Audit* are found unacceptable to the *Director*.

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

1. Condition No. 1 is included to provide the minimum performance requirements considered necessary to prevent an adverse effect resulting from the operation of the Facility.

2. Condition No. 2 is included on the *Certificate* 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*.

3. Condition No. 3 is included to gather accurate information on a continuous basis so that compliance with this *Certificate* can be verified.

4. Condition No. 4 is included to require the *Company* to gather and retain accurate information so that compliance with the *EPA*, *Regulation 419/05* and this *Certificate* may be verified.

5. Condition Nos. 5 and 6 are included to require the *Company* to retain records and provide information to the *Ministry* so that the environmental impact and subsequent compliance with the *Act*, the regulations and this *Certificate* can be verified.

6. Condition No. 7 is included to require the *Company* to implement a *Noise Abatement Action Plan* designed to ensure that the noise emissions from the *Facility* will be in compliance with applicable limits set in the *Ministry*'s noise guidelines.

7. Condition No. 8 is included to require the *Company* to gather accurate information and submit an *Acoustic Audit Report* in accordance with procedures set in the *Ministry's* noise guidelines, so that the environmental impact and subsequent compliance with the *EPA*, the regulation and this *Certificate* can be verified.

SCHEDULE "A"

- Application dated June 2, 2008 signed by Natalia Vieira, EHS coordinator and submitted by the C*ompany* for a *Certificate* of Approval (Air & Noise);
- Emission Summary and Dispersion Modelling Report, dated June 2, 2008 prepared by Stantec Consulting Limited and signed by Natalia Vieira and Matt Lei;
- Additional information regarding contaminant emissions submitted by Stantec Consulting Ltd. by e-mail on November 13, 2009 and December 10, 2009.
- Additional information regarding furnace details submitted by Natalia Vieira (SAPA Canada Inc.) by e-mails on November 10,11 and 12, 2009.
- Additional information regarding temperature monitoring on furnaces submitted by Natalia Vieira (SAPA Canada Inc.) by e-mail dated March 30, 2010.
- Acoustic Assessment Report entitled " Acoustic Assessment Report, Prepared for SAPA Canada Inc." dated December 16, 2009 and prepared by Stantec Consulting Ltd.
- Noise Abatement Action Plan contained in a letter from SAPA Canada Inc to MOE dated December 10, 2009 and signed by Natalia Vieria.
- Emails from Natalia Vieira of SAPA Canada Inc. to Thomas Shevlin of MOE on Dec. 17, 2009, and Jan 4, 2010 regarding noise issues.
- Application, dated July 26, 2005, and submitted by the *Company*, for *Certificate* of Approval (Air);
- Emission Summary and Dispersion Modelling Report dated July 26, 2005;
- Other supporting documentation and correspondence, including:
  (a) Application for *Certificate* of Approval (Air), dated October 13, 2004, signed by Michael Craig, EHS Manager - Indalex, and all supporting information included with the application; and
  (b) Application for *Certificate* of Approval (Air), dated September 23, 2003, signed by Michael Craig, Regional EHS Manager - Casthouses of Indalloy, and all supporting information included with the application.

SCHEDULE "B"

<table>
<tr><td>PARAMETER:</td><td>Temperature</td></tr>
<tr><td>LOCATION:</td><td>The sample point for the continuous temperature monitoring and recording system for Furnace No. 4 shall be located as described in the drawing prepared for the Company titled, "Dry Hearth Furnace Incinerator, Indalloy - Weston Ontario" dated May 5, 1993.

The sample point for the continuous temperature monitoring and recording system for Furnace No. 2, Furnace No. 3 and the holding furnace shall be located as described in the drawings submitted on March 20, 2010.</td></tr>
<tr><td>PERFORMANCE:</td><td>The continuous temperature monitoring and recording system shall meet the following minimum performance specifications for the following parameters.
<table>
<tr><th>PARAMETERS</th><th>SPECIFICATION</th></tr>
<tr><td>Type:</td><td>shielded "K" type thermocouple, or equivalent</td></tr>
<tr><td>Accuracy:</td><td>± 5 degrees Celsius</td></tr>
</table></td></tr>
<tr><td>DATA RECORDER:</td><td>The data recorder must be capable of registering continuously the measurement of the monitoring system without a significant loss of accuracy and with a time resolution of 3 minutes or better.</td></tr>
<tr><td>RELIABILITY:</td><td>The monitoring system shall be operated and maintained so that accurate data is obtained during a minimum of 90 percent of the time, on a monthly basis, when the Equipment is in operation.</td></tr>
</table>

SCHEDULE "C"
Procedure for Source Testing

1. The *Company* shall submit, not later than three (3) months after the date of this *Certificate*, to the *Manager* a *Pre-Test Plan* for the *Source Testing* of the sources listed in **Schedule "D"**. The *Company* shall finalize the *Pre-Test Plan* in consultation with the *Manager.*

2. *Source Testing* shall be conducted at the *Thermal Incinerator* minimum operating temperature of 1000 degrees Celsius.

3. The *Company* shall not commence the *Source Testing* required under this *Certificate* until the *Manager* has approved the *Pre-Test Plan*.

4. The *Company* shall complete the *Source Testing* not later than three (3) months after the *Manager* has approved the *Pre-Test Plan* or within a period as directed or agreed to in writing by the *Manager* and the *District Manager*.

5. The *Company* shall notify the *Manager,* the *District Manager* and the *Director* in writing of the location, date and time of any impending *Source Testing* required by this *Certificate,* at least fifteen (15) days prior to the *Source Testing.*

6. The *Company* shall submit a report (hardcopy and electronic format) on the *Source Testing* to the *Manager*, the *District Manager* and the *Director* not later than two (2) months after completing the *Source Testing.* The report shall be in the format described in the *Source Testing Code,* and shall also include, but not be limited to:

(1) an executive summary;

(2) an identification of the applicable North American Industry Classification System Code (NAICS) for the facility;

(3) records of operating conditions at the time of *Source Testing*;

(4) results of *Source Testing*, including the emission rate, emission concentration and relevant emission factor of the *Test Contaminants* from the sources listed in **Schedule "D"**;

(5) a tabular comparison of *Source Testing* results for the sources and *Test Contaminants* listed in **Schedule "D"** to original emission estimates described in the *Company*'s *ESDM Report* and additional data referenced in **Schedule "A"**.

7. The *Director* may not accept the results of the *Source Testing* if:

(1) the *Source Testing Code* or the requirements of the *Manager* were not followed;

(2) the *Company* did not notify the *District Manager,* the *Manager* and the *Director* of the *Source Testing;* or

(3) the *Company* failed to provide a complete report on the *Source Testing.*

8. If the *Director* does not accept the results of the *Source Testing,* the *Director* may require re-testing. If re-testing is required, the *Pre-Test Plan* strategies need to be revised and submitted to the *Manager* for approval. The actions taken to minimize the possibility of the *Source Testing* results not being accepted by the *Director* must be noted in the revision.

9. If the *Source Testing* results indicate the emission estimates are higher than the original emission estimates described in the *Company*'s *ESDM Report* and additional data referenced in **Schedule "A"**, the *Company* shall update their *ESDM Report* in accordance with Section 26 of *O. Reg. 419/05* with the emission estimates from the *Source testing* report and make these records available for review by staff of the *Ministry* upon request. The updated *Emission Summary Table* from the updated *ESDM Report* shall be submitted with the report on the *Source Testing*.

SCHEDULE "D"
Source Testing - Sources and Test Contaminants

Source to be Tested:
Stack number 1 (STK1) attached to the bagfilter and *Thermal Incinerator* serving Furnace number 4

Test Contaminans:
- Total Suspended Particulate Matter
- Total Hydrocarbons as defined in section 1(d) of this *Certificate*
- Hydrogen Chloride
- Metals and Dioxin/Furan isomers as listed below

List of Metals	List of Dioxin/Furan Isomers
Al Aluminum	Total Tetrachlorinated dibenzo-p-dioxins (TCDD)
Be Beryllium	Total Pentachlorinated Dibenzo-p-dioxins (PCDD)
Bi Bismuth	Total Hexachlorinated dibenzo-p-dioxins (HxCDD)
Cr Chromium	Total Heptachlorinated dibenzo-p-dioxins (HpCDD)
Cu Copper	2,3,7,8-Tetrachlorodibenzo-p-dioxin
Fe Iron	1,2,3,7,8-Pentachlorodibenzo-p-dioxin
Pb Lead	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin
Mg Magnesium	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin
Mn Manganese	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin
Hg Mercury	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin
Ni Nickel	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin
Sn Tin	Total Tetrachlorinated dibenzofurans (TCDF)
Zn Zinc	Total Pentachlorinated dibenzofurans (PCDF)
	Total Hexachlorinated dibenzofurans (HxCDF)
	Total Heptachlorinated dibenzofurans (HpCDF)
	2,3,7,8-Tetrachlorodibenzofuran
	2,3,4,7,8-Pentachlorodibenzofuran
	1,2,3,7,8-Pentachlorodibenzofuran
	1,2,3,4,7,8-Hexachlorodibenzofuran
	1,2,3,6,7,8-Hexachlorodibenzofuran
	1,2,3,7,8,9-Hexachlorodibenzofuran
	2,3,4,6,7,8-Hexachlorodibenzofuran
	1,2,3,4,6,7,8-Heptachlorodibenzofuran
	1,2,3,4,7,8,9-Heptachlorodibenzofuran
	1,2,3,4,6,7,8,9-Octachlorodibenzofuran

International toxicity equivalency factors (I-TEFs) are applied to 17 dioxin and furan isomers of concern to convert them into 2,3,7,8-TCDD (tetrachlorodibenzo-p-dioxin) toxicity equivalents. The conversion involves multiplying the concentration of the isomer by the appropriate I-TEF to yield the TEQ for this isomer. Summing the individual TEQ values for each of the isomers of concern provides the total toxicity equivalent level for the sample mixture.

A table listing the 17 isomers of concern and their I-TEFs can be found in the MOE publication titled: Environmental Information - Dioxin & Furans; PIBS 681b, revised 09/91 or in the example provided below.

SCHEDULE "D" Continued
Source Testing - Sources and Test Contaminants

Example:

Dioxin / Furan Isomers of Concern	International Toxicity Equivalency Factors (I-TEFs)	Concentration pg/m3 (Analytically measured)	Toxicity Equivalent (TEQ) pg TEQ/m3
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1.0	0.01	0.01
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.5	0.011	0.0055
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.1	0.006	0.0006
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.1	0.01	0.001
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.1	0.019	0.0019
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.01	0.15	0.0015
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin	0.001	-	-
2,3,7,8-Tetrachlorodibenzofuran	0.1	0.11	0.011
2,3,4,7,8-Pentachlorodibenzofuran	0.5	0.033	0.0165
1,2,3,7,8-Pentachlorodibenzofuran	0.05	0.024	0.0012
1,2,3,4,7,8-Hexachlorodibenzofuran	0.1	0.03	0.003
1,2,3,6,7,8-Hexachlorodibenzofuran	0.1	0.016	0.0016
1,2,3,7,8,9-Hexachlorodibenzofuran	0.1	0.016	0.0016
2,3,4,7,8,9-Hexachlorodibenzofuran	0.1	0.007	0.0007
1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.01	0.047	0.0047
1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.01	0.008	0.00008
1,2,3,4,6,7,8,9-Octachlorodibenzofuran	0.001	-	-
Total Toxicity Equivalent			**0.06088 ***

* Sum of toxicity equivalents of individual isomers

The I-TEF scheme is intended to be used with isomer specific analytical results. In cases where results are reported by congener group only, staff at MOE's Standards Development Branch should be contacted for appropriate procedures to convert non-isomer specific data to TEQs.

SCHEDULE "E"

Noise Abatement Action Plan

The *Noise Abatement Action Plan* shall consist of the *Noise Control Measures* outlined in the letter from SAPA Canada Inc to MOE dated December 10, 2009 and signed by Natalia Vieria, to be implemented according to the following schedule:

1. The Company shall replace the entire exhaust duct that is broken with a stainless steel duct. This will be implemented by **July 31, 2010**.

2. The discharge air exhausts for the Saw Chip Baghouse (STK6), the Homogenizer Air Intake (STK15) and the Baghouse stack (STK 1) will all be outfitted with appropriate silencers in order to meet the limits set out in Publication NPC-205 for all hours of the day. The Company has committed to have this implemented by **July 31, 2010**. Please refer to tables below for specifications.

- One (1) silencer for the discharge air exhaust of Source #STK-1 (Baghouse Exhaust), capable of providing the following minimum values of Insertion-Loss in 1/1 octave frequency bands:

Centre Frequency (Hertz)	63	125	250	500	1000	2000	4000	8000
Insertion-Loss (decibel)	8	14	22	30	33	26	18	13

- One (1) silencer for the discharge air exhaust of Source #STK-6 (Saw Chip Baghouse), capable of providing the

following minimum values of Insertion-Loss in 1/1 octave frequency bands:

Centre Frequency (Hertz)	63	125	250	500	1000	2000	4000	8000
Insertion-Loss (decibel)	2	5	10	15	24	27	24	13

- One (1) silencer for the discharge air exhaust stack of Source #STK-15, Homogenizer Air Intake, capable of providing the following values of Insertion-Loss in 1/1 octave frequency bands:

Centre Frequency (Hertz)	63	125	250	500	1000	2000	4000	8000
Insertion-Loss (decibel)	5	8	13	19	26	27	22	13

3. The Company shall install the appropriate type of acoustical louvers in front of the process intake fans (STK21), in order minimize the noise and meet the NPC-205 limits. This will be implemented by **September 30, 2010**. Please refer to table below for specifications.

- One (1) acoustical louvre for the process intake fans, Source #STK-21, capable of providing the following values of Insertion-Loss in 1/1 octave frequency bands:

Centre Frequency (Hertz)	63	125	250	500	1000	2000	4000	8000
Insertion-Loss (decibel)	3	7	9	13	16	17	18	18

4. In order to ensure the objective has been achieved, the Company shall carry out post-abatement Acoustic Audit conducted to demonstrate compliance with MOE noise guidelines following completion of the *Noise Abatement Action Plan* and submit an *Acoustic Audit Report* to the Director for review no later than **December 30, 2010**.

This Certificate of Approval revokes and replaces Certificate(s) of Approval No. 8966-6K4LBU issued on December 16, 2005

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:

CONTENT COPY OF ORIGINAL

The Secretary*	AND	The Environmental Commissioner	AND	The Director
Environmental Review Tribunal		1075 Bay Street, 6th Floor		Section 9, *Environmental Protection Act*
655 Bay Street, 15th Floor		Suite 605		Ministry of the Environment
Toronto, Ontario		Toronto, Ontario		2 St. Clair Avenue West, Floor 12A
M5G 1E5		M5S 2B1		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**

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, you can determine when the leave to appeal period ends.

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

DATED AT TORONTO this 4th day of June, 2010

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

SA/
c: District Manager, MOE Toronto - District
Matt Lei, Stantec Consulting Inc.