



CERTIFICATE OF APPROVAL

AIR

NUMBER 6060-8A9LSP

Issue Date: December 24, 2010

Superior Airways Limited
Post Office Box, No. 1448
Red Lake, Ontario
P0V 2M0

Site Location: 2508 Highway 125
Red Lake Airport
Red Lake Municipality, District of Kenora
P0V 2M0

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

Heater

- one (1) atomizing type oil heater, firing waste-derived fuel at a maximum rate of 6.4 litres per hour, exhausting the products of combustion into the atmosphere through a stack, having an exit diameter of 0.203 metre, extending 1.0 metre above the roof and 7.3 metres above grade;

Storage Tanks

- one (1) waste-derived fuel Day Tank, having a maximum waste-derived fuel storage capacity of 1,140 litres, with the waste-derived fuel heater supply line located a minimum of 0.15 metre from the bottom of the tank, filtering waste-derived fuel through a 100 micron filter prior to the waste-derived fuel being burned in the atomizing type oil heater; and

- two (2) waste-derived fuel Supply/Bulk Tanks, each having a maximum waste-derived fuel storage capacity of 2,275 litres.

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) "Area Supervisor" means the Area Supervisor, Kenora Area Office, Northern Region of the Ministry;
- (3) "ASTM" means American Society for Testing and Materials;
- (4) "Batch" means a quantity of WDF contained in a WDF storage tank at the time the WDF storage tank is sampled and a Seal is applied to the WDF storage tank;
- (5) "Certificate" means this Certificate of Approval, including Schedule "A", issued in accordance with Section 9 of the Act;
- (6) "Company" means Superior Airways Limited;
- (7) "Equipment" means the one (1) atomizing type oil heater, as described in the Company's application, this Certificate and

in the supporting documentation submitted with the application;

(8) "*Manual*" means a document or a set of documents that provide written instructions to staff of the *Company*;

(9) "*Ministry*" means the Ontario Ministry of the Environment;

(10) "*Owner*" means any person that is responsible for the establishment or operation of the *Site* being approved by this *Certificate*, and includes the *Company*, its successors and assigns;

(11) "*Operator*" means any person, other than the *Owner's* employees, authorized by the *Owner* as having the charge, management or control of any aspect of the *Site*;

(12) "*Regulation 347*" means Ontario Regulation 347 R.R.O. 1990;

(13) "*Seal*" means a physical device, having a unique identifier, applied to a *WDF* storage tank and/or associated valves, which once applied must be removed in order to allow for the addition of material to the *WDF* storage tank, and furthermore must be broken to be removed;

(14) "*Site*" means the equipment and airplane service and repair facility located at 2508 Highway 125 in the Municipality of Red Lake, Ontario;

(15) "*WDF*" means waste-derived fuel as defined in *Regulation 347*;

(16) "*WDF Bulk Storage Tanks*" means the two (2) of the three (3) *WDF* storage tanks, and associated valves, when operated as a bulk reservoir for *WDF* generated on-site only; and

(17) "*WDF Supply Tank*" means the one (1) of the three (3) *WDF* storage tanks, and associated valves, containing *WDF* only, that has been sampled and equipped with a *Seal*, when it is operated as the sole supply of *WDF* to the atomizing type oil heater.

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

TERMS AND CONDITIONS

1. The *Company* shall not burn any contents of any *WDF* storage tank that has not been sampled, analyzed and demonstrated to meet *WDF* criteria as defined in *Regulation 347*, in accordance with Conditions 6 to 9 of this *Certificate*.

OPERATION AND MAINTENANCE

2. The *Owner* and *Operator* shall ensure compliance with all the conditions of this *Certificate* and shall ensure that any person authorized to carry out work on or operate any aspect of the *Equipment* is notified of this *Certificate* and the conditions herein and shall take all reasonable measures to ensure any such person complies with the same.

3. Any person authorized to carry out work on or operate any aspect of the *Equipment* shall comply with the conditions of this *Certificate*.

4. The *Company* shall ensure that the *Equipment* is properly installed, 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;

(c) procedures for any record keeping activities relating to the operation and maintenance of the *Equipment*

and *WDF* storage tanks;

(d) procedures for all Terms and Conditions included as part of this *Certificate*;

(e) all appropriate measures to minimize emissions from all potential sources;

(2) implement the provisions of the *Manual* and create a record of all maintenance activities;

(3) provide training on the proper maintenance and use of the *Equipment*, for all staff involved in the operation of the *Equipment*; and

(4) provide a copy of the *Manual* to all staff involved in the operation of the *Equipment*.

WDF STORAGE, SAMPLING AND ANALYSIS

5. The *Company* shall direct *WDF* generated continuously or periodically as a result of regular on-site operations of the three (3) *WDF* storage tanks only. The *WDF* storage tank receiving *WDF* at any time shall be labelled as "WDF Bulk Storage Tank".

6. The *Company* shall analyze a Representative Sample of the *Batch* of *WDF* stored in the *WDF Bulk Storage Tank* that represents the composition of the contents of the *WDF Bulk Storage Tank*. The sample shall be taken in accordance with *Regulation 347*; "Industrial Waste Sampling Procedures Manual, 1989, PIBS Number 339" prepared by the Waste Management Branch of the *Ministry*; and the "Guide to the Collection and submission of Samples for Laboratory Analysis, 1989" prepared by the Laboratory Services Branch of the *Ministry*. The sample shall be one (1) vertical profile sample or one (1) composite sample of a mix of equal volume of grab samples taken from a minimum of three different vertical locations (bottom, middle and top).

7. The *Company* shall apply a *Seal* to the *WDF Bulk Storage Tank* immediately after a sample of the *Batch* of *WDF* has been taken for analysis. The unique identifier of each *Seal* applied to the *WDF Bulk Storage Tank* must correspond to the analysis of the *Batch* of *WDF* from which the representative sample was taken.

8. The *Company* shall submit the Representative Sample for analysis to an accredited laboratory. All analysis procedures shall be based on *ASTM* methods that have a minimum detection limit of 50 percent or less of the specified value (excluding flash point). The analysis shall be conducted to determine whether the representative sample meets the requirements of *WDF* as required by *Regulation 347*.

9. The *Company* shall demonstrate that the Representative Sample meets the requirements of *WDF* as required by *Regulation 347*, prior to directing *WDF* to the *Equipment*. The *WDF Bulk Storage Tank* equipped with a *Seal*, containing the *Batch* of *WDF* which has been demonstrated to meet the criteria of *WDF* as required by *Regulation 347* shall be operated and labelled as "WDF Supply Tank".

10. The *Company* shall direct additional volume of *WDF* to the *WDF Bulk Storage Tank(s)* only. Breaking of a *Seal* applied to the *WDF Supply Tank*, constitutes a new *Batch* of *WDF*. The *Company* shall repeat Conditions 5 through 9 upon breaking a *Seal*.

11. The *Company* shall operate the *Equipment* with the designated *WDF Supply Tank* as the sole source of *WDF* to the *Equipment*.

12. The *Company* shall locate the *WDF* storage tanks in the designated storage areas, as described in the application for this *Certificate* and the supporting documentation listed in Schedule "A".

13. The *Company* shall ensure that all *WDF* shall be stored in accordance with Ministry publication "Guidelines for Environmental Protection Measures at Chemical and Waste Storage Facilities", dated May 2007. *WDF* shall be segregated from other incompatible wastes and materials.

WASTE DISPOSAL

14. The *Company* shall dispose of all waste material collected for use as *WDF* which does not meet *WDF* criteria in *Regulation 347* by a *Ministry* approved waste hauler.

MONITORING AND RECORD KEEPING

15. The *Company* shall record in writing the volumes of any waste materials collected for use as *WDF*, disposed of by a *Ministry* approved waste hauler, as well as the corresponding laboratory analysis and *Seal* applied to the *WDF Bulk Storage Tank* for the *Batch* of waste materials which did not meet *WDF* criteria as required by *Regulation 347*.

16. The *Company* shall monitor and record in writing the following information related to the samples of *WDF* taken from any of the two (2) *WDF Bulk Storage Tanks* pursuant to the sampling and analysis requirements set out in Conditions 6 to 9 of this *Certificate*:

- (1) Volume of the *WDF Bulk Storage Tank*;
- (2) Date of Representative Sample taken and date submitted for laboratory analysis;
- (3) Date and unique identifier of the *Seal* applied to the *WDF Bulk Storage Tank*, and the laboratory analysis for the corresponding *Batch* of *WDF*;
- (4) Comparison of the analytical results of the Representative Sample to the requirements of *WDF* as required by *Regulation 347*; and
- (5) A log indicating the quantity of *WDF* burned between each date of sampling and/or maintenance, repair or inspection of the *Equipment*.

17. The *Company* shall monitor and record in writing the quantity of *WDF* burned by the *Equipment* by:

- (1) Connecting an elapsed-time meter on the *Equipment* circuit that will indicate the total time that the *Equipment* is in operation and by multiplying the elapsed time by the design average fuel consumption rate for the *Equipment*, or
- (2) Connecting a volumetric flow meter on the *Equipment* circuit that will indicate the volume of *WDF* burned in the *Equipment*, or
- (3) By using an alternate procedure that the *Company* proposes and the *Area Supervisor* authorizes in writing.

18. The *Company* shall record in writing the following information related to the operation of the *Equipment*:

- (1) details on the maintenance, repair and inspection of the *Equipment*;
- (2) details on any environmental complaints; including:
 - (a) a description, time and date of each incident;
 - (b) wind direction at the time of the incident; and
 - (c) a description of the measures taken to address the cause of the incident and to prevent a similar occurrence in the future.

RECORD RETENTION

19. 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 Monitoring and Record Keeping activities required by this *Certificate*, and make these records available for review by staff of the *Ministry* upon request.

NOTIFICATION OF COMPLAINTS

20. The *Company* shall notify the *Area Supervisor*, 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;
- (2) the time and date of the incident to which the complaint relates; and
- (3) a description of the measures taken to address the cause of the incident and to prevent a similar occurrence in the future.

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

1. Condition No. 1 is included to require the *Company* to install and operate the *Equipment* and *WDF* storage tanks to provide the minimum performance requirement considered necessary to prevent an adverse effect resulting from the operation of the *Equipment*.
2. Condition Nos. 2 to 4 are 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*.
3. Condition Nos. 5 to 13 are included to require the *Company* to install and operate the *Equipment* and *WDF* storage tanks to provide the minimum performance requirement considered necessary to prevent an adverse effect resulting from the operation of the *Equipment*.
4. Condition No. 14 is included to require the *Company* to dispose of waste materials in a manner which does not result in a nuisance or a hazard to the health and safety of the environment or people.
5. Condition Nos. 15 to 19 are included to require the *Company* to keep records and to provide information to staff of the *Ministry* to assist with verification of compliance with the *Act*, the regulations and this *Certificate*.
6. Condition No. 20 is included to require the *Company* to notify staff of the *Ministry* so that compliance with the *Act*, the regulations and this *Certificate* to assist with verification of compliance.

SCHEDULE "A"

Application for Approval (Air) submitted by the *Company*, dated June 30, 2010, and signed by Mike Misurka, Director; and

Emission Summary and Dispersion Modelling Report submitted by PRIME Environmental Services Inc., dated August 9, 2010 and signed by Greg Thomas, and the additional information submitted by Greg Thomas on October 15, 2010.

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;

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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**

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 24th day of December, 2010

Ian Greason, P.Eng.
Director
Section 9, *Environmental Protection Act*

SG/
c: District Manager, MOE Thunder Bay
Area Supervisor, MOE Kenora
Greg Thomas, PRIME Environmental Services Inc.