

AMENDMENT TO CERTIFICATE OF APPROVAL

AIR

NUMBER 6925-6REN9E

Notice No. 4

Issue Date: October 24, 2008

PLASCO Trail Road Inc.
1000 Innovation Drive, Suite 400
Kanata, Ontario
K2K 3E7

Site Location: Nepean Landfill Site (Closed)
Part of Lot 9, Concession 4, Rideau Front
Ottawa City, Ontario

You are hereby notified that I have amended Certificate of Approval No. 6925-6REN9E issued on December 1, 2006 for one (1) Energy-From-Waste Demonstration Facility, as follows:

The Certificate of Approval (Air) number 6925-6REN9E, Notice No. 3 issued on October 23, 2008 is revoked and replaced by this Notice No. 4.

The following equipment has been removed from Certificate of Approval (Air) number 6925-6REN9E issued on December 1, 2006:

- "- one (1) baghouse, to remove suspended particulate matter and activated carbon from the Syngas, equipped with filter bags, nitrogen gas reverse pulse jet cleaning mechanism, having a filtration area of 314 square metres,"
- "- one (1) activated carbon bed filter, used to further remove mercury from the Syngas, consisting of one (1) single vessel of granular sulphur impregnated activated carbon, having an inside diameter of 3.0 metres, containing 4,625 kilograms of granular activated carbon to a depth of 1.07 metres,"
- "- one (1) enclosed flare, used to combust the cooled and cleaned Syngas exiting the GQCS before the Facility achieved operational stabilization or under abnormal operation, exhausting into the atmosphere at a total maximum volumetric flow rate of 10.4 actual cubic metres per second, through two (2) identical stacks, each having an exit diameter of 0.922 metre, extending 8.8 metres above grade;"

"- one (1) Power Plant, consisting of six (6) internal combustion reciprocating engines, firing on the cooled and cleaned Syngas exiting the storage tank after the GQCS above, each engine having a power rating of 720 kilowatts, each exhausting into the atmosphere at a maximum volumetric flow rate of 1.33 actual cubic metres per second at an approximate temperature of 515 degrees Celsius, each through its own stack, having an exit diameter of 0.25 metre, extending 10 metres above grade. The power generated in the Power Plant is fed to the grid;"

and replaced by the following equipment:

"- one (1) baghouse, to remove suspended particulate matter and activated carbon from the Syngas, equipped with filter bags having a total filtration area of 314 square metres and nitrogen gas reverse pulse jet cleaning mechanism, and a bypass used during start-up and oxygen incursion events to maintain the integrity of the filter bags;"

"- one (1) activated carbon bed filter, used to further remove mercury from the Syngas, consisting of one (1) single vessel of granular sulphur impregnated activated carbon, having an inside diameter of 3.0 metres, containing 4,625 kilograms of granular activated carbon to a depth of 1.07 metres. The activated carbon bed filter is equipped with a bypass used during preheat/start-up and shutdown to prevent the exposure of the carbon to oxygen and during maintenance to allow replacement of the carbon;"

"- one (1) enclosed flare, used to combust the cooled and cleaned Syngas exiting the GQCS before the *Facility* achieved operational stabilization or under abnormal operation, exhausting into the atmosphere at a maximum volumetric flow rate of 9.76 cubic metres per second at reference conditions, through a stack, having an exit diameter of 2.74 metres, extending 12.2 metres above grade;"

"- one (1) Power Plant, consisting of six (6) internal combustion reciprocating engines, firing on the cooled and cleaned Syngas exiting the storage tank after the GQCS above, each engine having a power rating of 720 kilowatts. The power generated in the Power Plant is fed to the grid. Five (5) of the six (6) engines are exhausting directly into the atmosphere, each through its own stack having an exit diameter of 0.25 metre, at a maximum volumetric flow rate of 1.33 actual cubic metres per second at an approximate temperature of 515 degrees Celsius, and extending 10 metres above grade. The remaining engine has its exhaust either re-routed to the enclosed flare described above for further combustion of the exhaust gas, discharging into the atmosphere in that case through the stack of the flare, or discharged optionally through a catalytic converter before exhausting into the atmosphere at a maximum volumetric flow rate of 1.33 actual cubic metres per second at an approximate temperature of 515 degrees Celsius, through a stack having an exit diameter of 0.25 metre and extending 10 metres above grade;"

All Terms and Conditions in the *Certificate* remain the same with the exceptions noted below.

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

(29) "Notice No. 4" means this Notice No. 4 issued to form part of the *Certificate*.

The following Terms and Conditions are added to the Certificate of Approval (Air) number 6925-6REN9E issued on December 1, 2006:

- (15) The re-routing of the exhaust of the engine equipped with a catalytic converter to the enclosed flare for further combustion shall expire after six (6) months from date of this *Notice No. 4*.
- (16) The *Company* shall record the dates and times when the exhaust of the engine equipped with a catalytic converter flows through the catalytic converter, and the performance of the catalytic converter.

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

9. Conditions No. 15 and 16 are included to assist the *Ministry* with the review of the *Company's* compliance with the *Act*, the regulations and the *Certificate*.

All in accordance with the Application for Approval (Air & Noise), dated August 22, 2008 and received August 25, 2008, and signed by Ken Campbell, PLASCO Trail Road Inc., and all supporting information and documentation associated with the application including additional information provided by SENES Consultants Limited on behalf of PLASCO Trail Road Inc., dated September 16, 2008, October 17, 2008 and signed by Richard Urbanski, dated October 15, 2008, October 16, 2008, October 20, 2008 and signed by Bahar Aminvaziri, P.Eng., and the additional information provided by Ken Campbell, PLASCO Trail Road Inc., on October 21, 2008 and October 22, 2008.

This Notice shall constitute part of the approval issued under Certificate of Approval No. 6925-6REN9E dated December 1, 2006.

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 Review Tribunal within 15 days after receipt of this Notice, require a hearing by the Tribunal. 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

The Director
Section 9, *Environmental Protection Act*

655 Bay Street, 15th Floor
Toronto, Ontario
M5G 1E5

AND

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

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

DATED AT TORONTO this 24th day of October, 2008



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

RW/

c: District Manager, MOE Ottawa District Office
Richard Urbanski/Bahar Aminvaziri, P.Eng., SENES Consultants Limited

Ministry of the Environment
Environmental Assessment and
Approvals Branch
Floor 12A
2 St Clair Ave W
Toronto ON M4V 1L5
Fax: (416)314-8452
Telephone: (416)314-8001

Ministère de l'Environnement
Direction des évaluations et des
autorisations environnementales
Étage 12A
2 av St Clair O
Toronto ON M4V 1L5
Télécopieur : (416)314-8452
Téléphone : (416)314-8001



October 24, 2008

Ken Campbell, Vice President
PLASCO Trail Road Inc.
1000 Innovation Drive, Suite 400
Kanata, Ontario
K2K 3E7

Dear Sir:

**Re: Application for Approval of Air
Change Notice No. 3 to Notice No. 4
Ottawa City, Ontario
MOE Reference Number 3730-7KQKLM**

Please find enclosed the Certificate of Approval for the above noted application, which revokes and replaces the Notice No. 3 issued October 23, 2008 to your company.

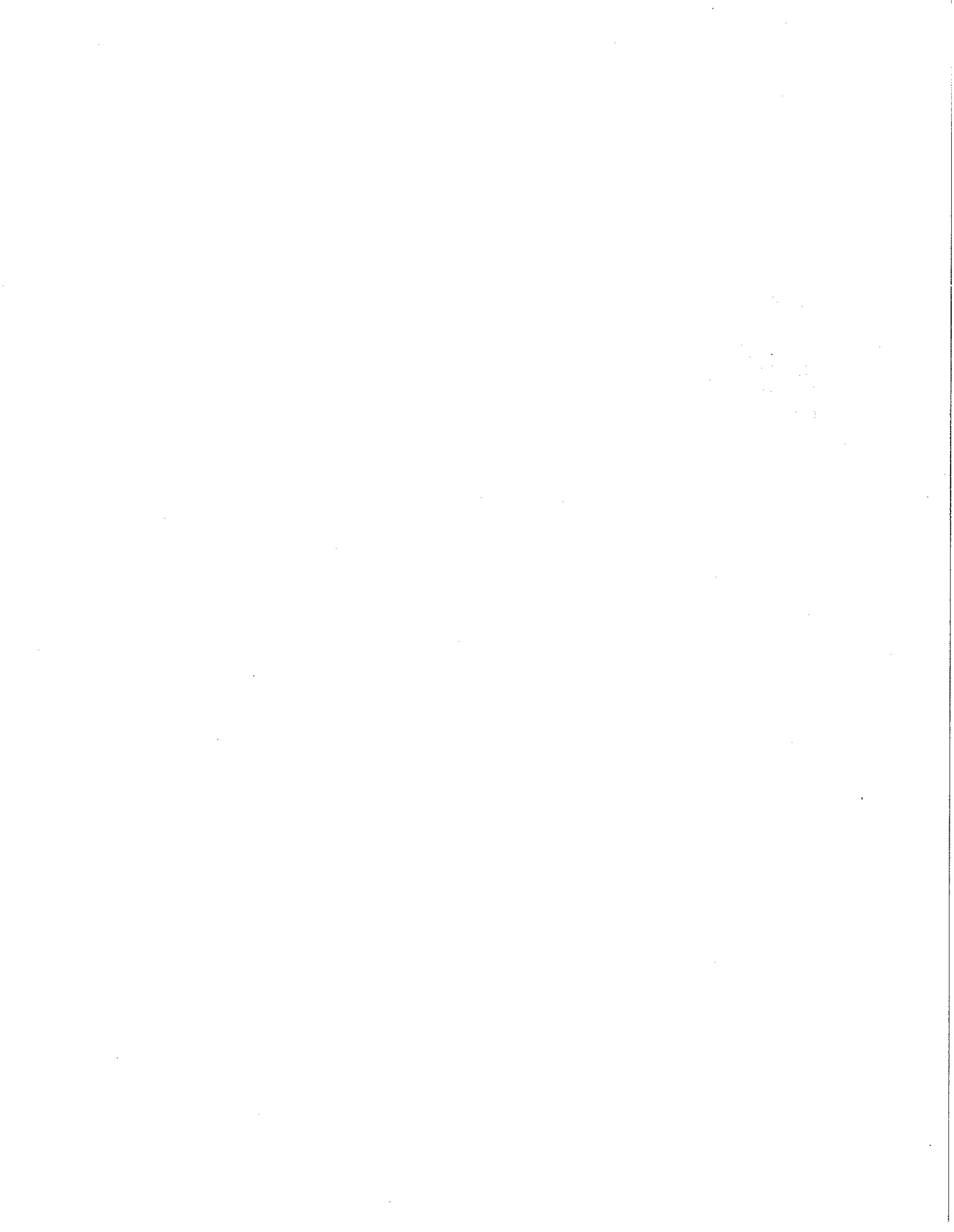
Regarding the re-routing of one of the engine exhaust to the enclosed flare for further combustion approved in this application, please note that the ministry has a concern on the actual degree of combustion achievable in the flare. Nevertheless, in view of the trial nature of the re-route, this approval is granted for a 6-month trial period, after which the ministry and your company can further assess the subject using data collected in the trial.

If you have any questions regarding the above, please contact Rudolf Wan, P.Eng., Dispersion Modelling Engineer at (416) 314-7784 or the undersigned at the above phone number.

Yours truly,

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

c: District Manager, MOE Ottawa District Office
Richard Urbanski/Bahar Aminvaziri, P.Eng., SENES Consultants Limited



Ministry of the Environment
Environmental Assessment and
Approvals Branch
Floor 12A
2 St Clair Ave W
Toronto ON M4V 1L5
Fax: (416)314-8452
Telephone: (416)314-8001

Ministère de l'Environnement
Direction des évaluations et des
autorisations environnementales
Étage 12A
2 av St Clair O
Toronto ON M4V 1L5
Télécopieur : (416)314-8452
Téléphone : (416)314-8001



October 24, 2008

Ken Campbell, Vice President
PLASCO Trail Road Inc.
1000 Innovation Drive, Suite 400
Kanata, Ontario
K2K 3E7

Dear Sir:

**Re: Application for Approval of Air
Change Notice No. 3 to Notice No. 4
Ottawa City, Ontario
MOE Reference Number 3730-7KQKLM**

Please find enclosed the Certificate of Approval for the above noted application, which revokes and replaces the Notice No. 3 issued October 23, 2008 to your company.

Regarding the re-routing of one of the engine exhaust to the enclosed flare for further combustion approved in this application, please note that the ministry has a concern on the actual degree of combustion achievable in the flare. Nevertheless, in view of the trial nature of the re-route, this approval is granted for a 6-month trial period, after which the ministry and your company can further assess the subject using data collected in the trial.

If you have any questions regarding the above, please contact Rudolf Wan, P.Eng., Dispersion Modelling Engineer at (416) 314-7784 or the undersigned at the above phone number.

Yours truly,

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

c: District Manager, MOE Ottawa District Office
Richard Urbanski/Bahar Aminvaziri, P.Eng., SENES Consultants Limited

AMENDMENT TO CERTIFICATE OF APPROVAL

AIR

NUMBER 6925-6REN9E

Notice No. 4

Issue Date: October 24, 2008

PLASCO Trail Road Inc.
1000 Innovation Drive, Suite 400
Kanata, Ontario
K2K 3E7

Site Location: Nepean Landfill Site (Closed)
Part of Lot 9, Concession 4, Rideau Front
Ottawa City, Ontario

You are hereby notified that I have amended Certificate of Approval No. 6925-6REN9E issued on December 1, 2006 for one (1) Energy-From-Waste Demonstration Facility, as follows:

The Certificate of Approval (Air) number 6925-6REN9E, Notice No. 3 issued on October 23, 2008 is revoked and replaced by this Notice No. 4.

The following equipment has been removed from Certificate of Approval (Air) number 6925-6REN9E issued on December 1, 2006:

- "- one (1) baghouse, to remove suspended particulate matter and activated carbon from the Syngas, equipped with filter bags, nitrogen gas reverse pulse jet cleaning mechanism, having a filtration area of 314 square metres,"
- "- one (1) activated carbon bed filter, used to further remove mercury from the Syngas, consisting of one (1) single vessel of granular sulphur impregnated activated carbon, having an inside diameter of 3.0 metres, containing 4,625 kilograms of granular activated carbon to a depth of 1.07 metres,"
- "- one (1) enclosed flare, used to combust the cooled and cleaned Syngas exiting the GQCS before the Facility achieved operational stabilization or under abnormal operation, exhausting into the atmosphere at a total maximum volumetric flow rate of 10.4 actual cubic metres per second, through two (2) identical stacks, each having an exit diameter of 0.922 metre, extending 8.8 metres above grade;"

"- one (1) Power Plant, consisting of six (6) internal combustion reciprocating engines, firing on the cooled and cleaned Syngas exiting the storage tank after the GQCS above, each engine having a power rating of 720 kilowatts, each exhausting into the atmosphere at a maximum volumetric flow rate of 1.33 actual cubic metres per second at an approximate temperature of 515 degrees Celsius, each through its own stack, having an exit diameter of 0.25 metre, extending 10 metres above grade. The power generated in the Power Plant is fed to the grid;"

and replaced by the following equipment:

"- one (1) baghouse, to remove suspended particulate matter and activated carbon from the Syngas, equipped with filter bags having a total filtration area of 314 square metres and nitrogen gas reverse pulse jet cleaning mechanism, and a bypass used during start-up and oxygen incursion events to maintain the integrity of the filter bags;"

"- one (1) activated carbon bed filter, used to further remove mercury from the Syngas, consisting of one (1) single vessel of granular sulphur impregnated activated carbon, having an inside diameter of 3.0 metres, containing 4,625 kilograms of granular activated carbon to a depth of 1.07 metres. The activated carbon bed filter is equipped with a bypass used during preheat/start-up and shutdown to prevent the exposure of the carbon to oxygen and during maintenance to allow replacement of the carbon;"

"- one (1) enclosed flare, used to combust the cooled and cleaned Syngas exiting the GQCS before the *Facility* achieved operational stabilization or under abnormal operation, exhausting into the atmosphere at a maximum volumetric flow rate of 9.76 cubic metres per second at reference conditions, through a stack, having an exit diameter of 2.74 metres, extending 12.2 metres above grade;"

"- one (1) Power Plant, consisting of six (6) internal combustion reciprocating engines, firing on the cooled and cleaned Syngas exiting the storage tank after the GQCS above, each engine having a power rating of 720 kilowatts. The power generated in the Power Plant is fed to the grid. Five (5) of the six (6) engines are exhausting directly into the atmosphere, each through its own stack having an exit diameter of 0.25 metre, at a maximum volumetric flow rate of 1.33 actual cubic metres per second at an approximate temperature of 515 degrees Celsius, and extending 10 metres above grade. The remaining engine has its exhaust either re-routed to the enclosed flare described above for further combustion of the exhaust gas, discharging into the atmosphere in that case through the stack of the flare, or discharged optionally through a catalytic converter before exhausting into the atmosphere at a maximum volumetric flow rate of 1.33 actual cubic metres per second at an approximate temperature of 515 degrees Celsius, through a stack having an exit diameter of 0.25 metre and extending 10 metres above grade;"

All Terms and Conditions in the *Certificate* remain the same with the exceptions noted below.

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

(29) "Notice No. 4" means this Notice No. 4 issued to form part of the *Certificate*.

The following Terms and Conditions are added to the Certificate of Approval (Air) number 6925-6REN9E issued on December 1, 2006:

- (15) The re-routing of the exhaust of the engine equipped with a catalytic converter to the enclosed flare for further combustion shall expire after six (6) months from date of this *Notice No. 4*.
- (16) The *Company* shall record the dates and times when the exhaust of the engine equipped with a catalytic converter flows through the catalytic converter, and the performance of the catalytic converter.

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

9. Conditions No. 15 and 16 are included to assist the *Ministry* with the review of the *Company's* compliance with the *Act*, the regulations and the *Certificate*.

All in accordance with the Application for Approval (Air & Noise), dated August 22, 2008 and received August 25, 2008, and signed by Ken Campbell, PLASCO Trail Road Inc., and all supporting information and documentation associated with the application including additional information provided by SENES Consultants Limited on behalf of PLASCO Trail Road Inc., dated September 16, 2008, October 17, 2008 and signed by Richard Urbanski, dated October 15, 2008, October 16, 2008, October 20, 2008 and signed by Bahar Aminvaziri, P.Eng., and the additional information provided by Ken Campbell, PLASCO Trail Road Inc., on October 21, 2008 and October 22, 2008.

This Notice shall constitute part of the approval issued under Certificate of Approval No. 6925-6REN9E dated December 1, 2006.

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 Review Tribunal within 15 days after receipt of this Notice, require a hearing by the Tribunal. 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

The Director
Section 9, *Environmental Protection Act*

655 Bay Street, 15th Floor
Toronto, Ontario
M5G 1E5

AND

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

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

DATED AT TORONTO this 24th day of October, 2008



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

RW/

c: District Manager, MOE Ottawa District Office
Richard Urbanski/Bahar Aminvaziri, P.Eng., SENES Consultants Limited