Ontario

Ministry of the Environment and Climate Change
Ministère de l'Environnement et de l'Action en matière de changement climatique

AMENDMENT TO RENEWABLE ENERGY APPROVAL

NUMBER 7263-8XDGMG
Issue Date: May 4, 2016

TransCanada Energy Ltd.
Royal Bank Plaza, South Tower
200 Bay Street, 24th Floor, P. O. Box 43
Toronto, Ontario
M5J 2J1

Site Location: Liskeard 1, 3 & 4
Liskeard 1 - 704137 Rockley Road
(Part of Lot 5, Concession 2, Township of Dymond)
Liskeard 3 - Radley Hill and Highway 11
(Part of Lots 5 & 6, Concession 6, Township of Bucke)
Liskeard 4 - 704130 Rockley Road
(Part of Lot 5, Concession 1, Township of Dymond)
City of Temiskaming Shores, District of Timiskaming

You are hereby notified that I have amended Approval No. 7263-8XDGMG issued on October 12, 2012 for a Class 3 solar facility , as follows:

A. The Company name and address has been changed:

FROM: 2225256 Ontario Inc., 2225342 Ontario Inc. and 2225345 Ontario Inc.,
c/o Canadian Solar Solutions Inc.
545 Speedvale Avenue West
Guelph, Ontario
N1K 1E6

TO: TransCanada Energy Ltd.
Royal Bank Plaza, South Tower
200 Bay Street, 24th Floor, P. O. Box 43
Toronto, Ontario
M5J 2J1

B. The definitions of the "Application" and "Company" of the Approval are deleted and replaced by the following:

7. "Application" means the application for a Renewable Energy Approval dated March 16, 2012, and signed by Ken Rowbotham, Vice President, Canadian Solar Solutions Inc. on behalf of 2225256 Ontario Inc., 2225342 Ontario Inc. and 2225345 Ontario Inc. and all supporting documentation submitted with the application, including amended documentation submitted up to October 12, 2012; and as further amended by the application for a Renewable Energy Approval, dated August 21, 2013, and signed by Ken Rowbotham, Vice President, Canadian Solar Solutions Inc. on behalf of 2225256 Ontario Inc., 2225342 Ontario Inc. and 2225345 Ontario Inc., and all supporting documentation submitted with the application, including amended documentation submitted up to July 14, 2014; and as further amended by the application for a Renewable Energy Approval, dated January 16, 2016, and signed by John McWilliams, Vice President of Energy Operations, TransCanada Energy Ltd., and all supporting documentation submitted with the application, including amended documentation submitted up to January 21, 2016;

14. "Company" means TransCanada Energy Ltd. and includes its successors and assignees;

All other Terms and Conditions of the Approval remain the same.

This Notice shall constitute part of the approval issued under Approval No. 7263-8XDGMG dated October 12, 2012.

In accordance with Section 139 of the Environmental Protection Act, within 15 days after the service of this notice, you may by further written notice served upon the Director, the Environmental Review Tribunal and the Environmental Commissioner, require a hearing by the Tribunal.

In accordance with Section 47 of the Environmental Bill of Rights, 1993, the Environmental Commissioner will place notice of your request for a hearing 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 renewable energy approval or each term or condition in the renewable energy 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 signed and dated notice requiring the hearing should also include:

3. The name of the appellant;
4. The address of the appellant;
5. The renewable energy approval number;
6. The date of the renewable energy approval;
7. The name of the Director;
8. The municipality or municipalities within which the project is to be engaged in;

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 47.5, *Environmental Protection Act*
Ministry of the Environment and Climate Change
135 St. Clair Avenue West, 1st Floor
Toronto, Ontario
M4V 1P5

*** Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 212-6349, Fax: (416) 326-5370 or www.ert.gov.on.ca**

Under Section 142.1 of the Environmental Protection Act, residents of Ontario may require a hearing by the Environmental Review Tribunal within 15 days after the day on which notice of this decision is published in the Environmental Registry. By accessing the Environmental Registry at www.ebr.gov.on.ca , you can determine when this period ends.

Approval for the above noted renewable energy project is issued to you under Section 47.5 of the Environmental Protection Act subject to the terms and conditions outlined above.
DATED AT TORONTO this 4th day of May, 2016

Mohsen Keyvani, P.Eng.
Director
Section 47.5, *Environmental Protection Act*

AL/
c: Area Manager, MOECC North Bay
c: District Manager, MOECC Sudbury

AMENDMENT TO RENEWABLE ENERGY APPROVAL

NUMBER 7263-8XDGMG
Issue Date: July 31, 2014

2225256 Ontario Inc., 2225342 Ontario Inc. and 2225345 Ontario Inc.,
c/o Canadian Solar Solutions Inc.
545 Speedvale Ave W
Guelph, Ontario
N1K 1E6

Site Location: Liskeard 1, 3 & 4
Liskeard 1 - 704137 Rockley Road, City of Teminskaming Shores
(Part of Lot 5, Concession 2, Township of Dymond)
Liskeard 3 - Radley Hill and Highway 11, City of Teminskaming Shores
(Part of Lots 5 & 6, Concession 6, Township of Bucke)
Liskeard 4 - 704130 Rockley Road, City of Teminskaming Shores
(Part of Lot 5, Concession 1, Township of Dymond)

You are hereby notified that I have amended Approval No. 7263-8XDGMG issued on October 12, 2012 for a Class 3 solar facility , as follows:

A. The definitions of "Acoustic Assessment Report", "Application" and "Equipment" in the Approval are deleted and replaced by the following:

1. "Acoustic Assessment Report" means the report included in the Application and entitled "New Liskeard 1,3 and 4 Solar Farm, Final Noise Study Report", dated February 2014, prepared by Dillon Consulting Limited and signed by Amir Iravani, Dillon Consulting Limited on February 2014;

7. "Application" means the application for a Renewable Energy Approval dated March 16, 2012, and signed by Ken Rowbotham, Vice President, Canadian Solar Solutions Inc. on behalf of 2225256 Ontario Inc., 2225342 Ontario Inc. and 2225345 Ontario Inc. and all supporting documentation submitted with the application, including amended documentation submitted up to October 12, 2012; and as further amended by the application for a Renewable Energy Approval, dated August 21, 2013, and signed by Ken Rowbotham, Vice President, Canadian Solar Solutions Inc. on behalf of 2225256 Ontario Inc., 2225342 Ontario Inc. and 2225345 Ontario Inc., and all supporting documentation submitted with the application, including amended documentation submitted up to July 14, 2014;

18. "Equipment" means the seventy thirty six (36) inverter units, thirty six (36) transformers, and one (1) transformer substation, and associated ancillary equipment identified in this Approval and as further described in the Application, to the extent approved by this Approval;

B. Condition F1 in the Approval is deleted and replaced by the following:

F1. The Company shall employ best management practices for stormwater management and sediment and erosion control during construction, installation, use, operation, maintenance and retiring of the Facility, as described in the STORMWATER MANAGEMENT PLAN entitled "New Liskeard Solar Plant - 1", dated November 26, 2013; "New Liskeard Solar Plant - 3", dated February 15, 2014; and "New Liskeard Solar Plant - 4", dated February 15, 2014, all prepared by AECOM Canada Ltd.

F2. (1) The Company shall install and maintain temporary sediment and erosion control measures during construction and conduct inspections once every two (2) weeks and after each significant storm event (a significant storm event is defined as a minimum of 25 mm of rain in any 24 hours period). The inspections and maintenance of the temporary sediment and erosion control measures shall continue until they are no longer required and at which time they shall be removed and all disturbed areas reinstated properly.

(2) The Company shall implement a total suspended solids (TSS) monitoring program during construction of the Facility. Monitoring for TSS shall be initiated 2 weeks prior to ground breaking through the construction phase until the facility is in commercial operation. The monitoring program shall be as follows:

(a) Monitoring shall be carried out at the following sampling locations:

(i) Liskeard 1
NL1-1A and NL1-1B [i.e. upstream and downstream in the drainage ditch on the north end of the property].

(ii) Liskeard 3
NL3-1B [i.e. downstream of the solar project where all runoff water flows off-site to the west]; and
NL3-2A and NL3-2B [i.e. upstream and downstream locations (of tributary which will drain Liskeard 3 Site) in South Wabi Creek]

(iii) Liskeard 4
NL4-1B [i.e. downstream of the solar project where all runoff water flows off-site to the west]; and
NL4-2A and NL$-2B [i.e. upstream and downstream locations (of tributary which will drain Liskeard 4 Site) in South Wabi Creek].

(b) The sampling for TSS shall take place weekly. During significant rainfall events (10 mm or more in a 24 hour period), monitoring shall be conducted at least once per day during the rainfall event where possible and for one day following the completion of the rain event;

(c) The Company shall notify the District Manager if downstream TSS concentrations exceed the upstream TSS concentrations by more than 20 percent; and

(d) The TSS concentration in the stormwater runoff discharged from the site (i.e. Drainage from Liskeard 1) to the adjacent farm fields shall not exceed 25

milligrams per litre.

(3) The Company shall maintain records of inspections, monitoring and maintenance which shall be made available for inspection by the Ministry, upon request. The record shall include the name of the inspector, date of inspection, and the remedial measures if any, undertaken to maintain the temporary sediment and erosion control measures.

C. Schedules A, B and C in the Approval are deleted and replaced by the following:

SCHEDULE A

Facility Description

The Facility shall consist of the construction, installation, operation, use and retiring of the following:

(a) Thirty six (36) arrays of photovoltaic (PV) modules or panels with a total name plate capacity of up to approximately 30 megawatts (AC), with each array containing one (1) cluster consisting of one (1) 833 kW inverter unit and one (1) 27.6 kV/1-MVA transformer; and

(b) associated ancillary equipment, systems and technologies including one (1) transformer substation, on-site access roads, underground cabling and overhead distribution lines,

all in accordance with the Application.

SCHEDULE B

Coordinates of the Equipment and Noise Specifications

Coordinates of the Equipment are listed below in UTM, Z17-NAD83 projection:

Source ID	Sound Power Level (dBA)	Easting (m)	Northing (m)	Source description
TRS	85.9	596666	5262442	27.6-kV/115-kV/30-MVA Transformer Substation
INV1.1	85.5	597112	5262582	833 kW Inverter Unit
INV1.2	85.5	597110	5262692	833 kW Inverter Unit
INV1.3	85.5	597108	5262816	833 kW Inverter Unit
INV1.4	85.5	597106	5262921	833 kW Inverter Unit
INV1.5	101	597105	5263034	833 kW Inverter Unit
INV1.6	101	597102	5263148	833 kW Inverter Unit
INV1.7	101	597212	5263260	833 kW Inverter Unit
INV1.8	85.5	597303	5262664	833 kW Inverter Unit
INV1.9	85.5	597299	5262778	833 kW Inverter Unit
INV1.10	85.5	597298	5262892	833 kW Inverter Unit
INV1.11	85.5	597296	5263006	833 kW Inverter Unit
INV1.12	101	597293	5263130	833 kW Inverter Unit
INVTR1.1	77.4	597112	5262578	1 MW Inverter Transformer
INVTR1.2	77.4	597110	5262688	1 MW Inverter Transformer
INVTR1.3	77.4	597108	5262812	1 MW Inverter Transformer
INVTR1.4	77.4	597106	5262916	1 MW Inverter Transformer
INVTR1.5	77.4	597105	5263030	1 MW Inverter Transformer
INVTR1.6	77.4	597102	5263144	1 MW Inverter Transformer
INVTR1.7	77.4	597212	5263256	1 MW Inverter Transformer
INVTR1.8	77.4	597303	5262660	1 MW Inverter Transformer
INVTR1.9	77.4	597299	5262773	1 MW Inverter Transformer
INVTR1.10	77.4	597298	5262887	1 MW Inverter Transformer
INVTR1.11	77.4	597296	5263002	1 MW Inverter Transformer
INVTR1.12	77.4	597293	5263125	1 MW Inverter Transformer
INV3.1	101	597011	5260166	833 kW Inverter Unit
INV3.2	101	597011	5260286	833 kW Inverter Unit
INV3.3	101	597012	5260406	833 kW Inverter Unit
INV3.4	101	597012	5260526	833 kW Inverter Unit
INV3.5	101	597011	5260646	833 kW Inverter Unit
INV3.6	101	597011	5260766	833 kW Inverter Unit
INV3.7	101	597236	5260166	833 kW Inverter Unit
INV3.8	101	597236	5260286	833 kW Inverter Unit
INV3.9	101	597236	5260406	833 kW Inverter Unit
INV3.10	101	597236	5260526	833 kW Inverter Unit

Source ID	Sound Power Level (dBA)	Easting (m)	Northing (m)	Source description
INV3.11	101	597236	5260646	833 kW Inverter Unit
INV3.12	101	597236	5260766	833 kW Inverter Unit
INVTR3.1	77.4	597011	5260162	1 MW Inverter Transformer
INVTR3.2	77.4	597011	5260282	1 MW Inverter Transformer
INVTR3.3	77.4	597012	5260402	1 MW Inverter Transformer
INVTR3.4	77.4	597012	5260522	1 MW Inverter Transformer
INVTR3.5	77.4	597011	5260642	1 MW Inverter Transformer
INVTR3.6	77.4	597011	5260762	1 MW Inverter Transformer
INVTR3.7	77.4	597236	5260162	1 MW Inverter Transformer
INVTR3.8	77.4	597236	5260282	1 MW Inverter Transformer
INVTR3.9	77.4	597236	5260402	1 MW Inverter Transformer
INVTR3.10	77.4	597236	5260522	1 MW Inverter Transformer
INVTR3.11	77.4	597236	5260642	1 MW Inverter Transformer
INVTR3.12	77.4	597236	5260762	1 MW Inverter Transformer
INV4.1	101	596750	5261757	833 kW Inverter Unit
INV4.2	101	596750	5261877	833 kW Inverter Unit
INV4.3	101	596750	5261997	833 kW Inverter Unit
INV4.4	101	596750	5262117	833 kW Inverter Unit
INV4.5	101	596941	5261757	833 kW Inverter Unit
INV4.6	101	596941	5261877	833 kW Inverter Unit
INV4.7	101	596941	5261997	833 kW Inverter Unit
INV4.8	101	596941	5262117	833 kW Inverter Unit
INV4.9	101	597130	5261757	833 kW Inverter Unit
INV4.10	101	597130	5261857	833 kW Inverter Unit
INV4.11	101	597130	5261957	833 kW Inverter Unit
INV4.12	101	597130	5262057	833 kW Inverter Unit
INVTR4.1	77.4	596750	5261752	1 MW Inverter Transformer
INVTR4.2	77.4	596750	5261872	1 MW Inverter Transformer
INVTR4.3	77.4	596750	5261992	1 MW Inverter Transformer
INVTR4.4	77.4	596750	5262112	1 MW Inverter Transformer
INVTR4.5	77.4	596941	5261752	1 MW Inverter Transformer
INVTR4.6	77.4	596941	5261872	1 MW Inverter Transformer
INVTR4.7	77.4	596941	5261992	1 MW Inverter Transformer
INVTR4.8	77.4	596941	5262112	1 MW Inverter Transformer
INVTR4.9	77.4	597130	5261752	1 MW Inverter Transformer
INVTR4.10	77.4	597130	5261852	1 MW Inverter Transformer
INVTR4.11	77.4	597130	5261952	1 MW Inverter Transformer
INVTR4.12	77.4	597130	5262052	1 MW Inverter Transformer

Note: All the Sound Power Level values in the above table include the 5 Decibel (dB) adjustment for tonality as prescribed in Publication NPC-104, and any applicable noise control measures as outlined in Schedule C of this Approval.

SCHEDULE C

Noise Control Measures

One (1) enclosure with acoustic louvres for each of inverter units 1.1 to 1.4, 1.8 to 1.11 inclusive, capable of providing the following values of Insertion-Loss in 1/1 octave frequency bands:

Centre Frequency (Hertz)	125	250	500	1000	2000	4000
Insertion-Loss (decibel)	7	6	11	19	30	19

The reason for the imposition of Condition F2 is as follow:

Condition F2 is included as installation, regular inspection and maintenance of the temporary sediment and erosion control measures is required to mitigate the impact on the environment during construction until they are no longer required.

All other Terms and Conditions of the Approval remain the same.

This Notice shall constitute part of the approval issued under Approval No. 7263-8XDGMG dated October 12, 2012.

In accordance with Section 139 of the Environmental Protection Act, within 15 days after the service of this notice, you may by further written notice served upon the Director, the Environmental Review Tribunal and the Environmental Commissioner, require a hearing by the Tribunal.

In accordance with Section 47 of the Environmental Bill of Rights, 1993, the Environmental Commissioner will place notice of your request for a hearing 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 renewable energy approval or each term or condition in the renewable energy 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 signed and dated notice requiring the hearing should also include:

3. The name of the appellant;
4. The address of the appellant;
5. The renewable energy approval number;
6. The date of the renewable energy approval;
7. The name of the Director;
8. The municipality or municipalities within which the project is to be engaged in;

This notice must be served upon:

The Secretary*****		The Environmental Commissioner		The Director
Environmental Review Tribunal		1075 Bay Street, 6th Floor		Section 47.5, *Environmental Protection Act*
655 Bay Street, 15th Floor		Suite 605		Ministry of the Environment
Toronto, Ontario	AND	Toronto, Ontario	AND	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**

Under Section 142.1 of the Environmental Protection Act, residents of Ontario may require a hearing by the Environmental Review Tribunal within 15 days after the day on which notice of this decision is published in the Environmental Registry. By accessing the Environmental Registry at www.ebr.gov.on.ca , you can determine when this period ends.

Approval for the above noted renewable energy project is issued to you under Section 47.5 of the Environmental Protection Act subject to the terms and conditions outlined above.
DATED AT TORONTO this 31st day of July, 2014

Vic Schroter, P.Eng.
Director
Section 47.5, *Environmental Protection Act*

VS/
c: Area Manager, MOE North Bay
c: District Manager, MOE Sudbury
Grace Pasceri, Canadian Solar Solution Inc.

Ontario

Ministry of the Environment
Ministère de l'Environnement

RENEWABLE ENERGY APPROVAL

NUMBER 7263-8XDGMG
Issue Date: October 12, 2012

2225256 Ontario Inc., 2225342 Ontario Inc. and
2225345 Ontario Inc.
c/o Canadian Solar Solutions Inc.
545 Speedvale Ave W
Guelph, Ontario
N1K 1E6

Project Location: Project Liskeard 1, 3 & 4
Rockley Road, Radley Hill & Highway 11
Temiskaming Shores City, District of Timiskaming
P0J 1P0

You have applied in accordance with Section 47.4 of the Environmental Protection Act for approval to engage in a renewable energy project in respect of a Class 3 solar facility consisting of the following:

- the construction, installation, operation, use and retiring of a Class 3 solar facility with a total name plate capacity of up to approximately 30 megawatts (AC).

For the purpose of this renewable energy approval, the following definitions apply:

1. "Acoustic Assessment Report" means the report included in the Application and entitled "Project Liskeard 1, 3 and 4 Revised Noise Study Report", dated September 21, 2012, prepared by Dillon Consulting Limited and signed by Amir Iravani, Dillon Consulting Limited on September 21, 2012;

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 Equipment, assessed to determine compliance with the Noise Performance Limits set out in this Approval;

3. "Acoustic Audit Report" means a report presenting the results of an Acoustic Audit;

4. "Acoustical Consultant" means a person currently active in the field of environmental acoustics and noise/vibration control, who is knowledgeable about Ministry noise guidelines and procedures and has a combination of formal university education, training and experience necessary to assess noise emissions from solar facilities;

5. "Act" means the *Environmental Protection Act* , R.S.O 1990, c.E.19, as amended;

6. "Adverse Effect" has the same meaning as in the Act;

7. "Application" means the application for a Renewable Energy Approval dated March 16, 2012, and signed by Ken Rowbotham, Vice President, Canadian Solar Solutions Inc. on behalf of 2225256 Ontario Inc., 2225342 Ontario Inc. and 2225345 Ontario Inc. and all supporting documentation submitted with the application, including amended documentation submitted up to the date this Approval is issued;

8. "Approval" means this Renewable Energy Approval issued in accordance with Section 47.4 of the Act, including any schedules to it;

9. "A-weighting" means the frequency weighting characteristic as specified in the International Electrotechnical Commission (IEC) Standard 61672, and intended to approximate the relative sensitivity of the normal human ear to different frequencies (pitches) of sound. It is denoted as "A";

10. "A-weighted Sound Pressure Level" means the Sound Pressure Level modified by application of an A-weighting network. It is measured in decibels, A-weighted, and denoted "dBA";

11. "Class 1 Area" means an area with an acoustical environment typical of a major population centre, where the background sound level is dominated by the activities of people, usually road traffic, often referred to as "urban hum";

12. "Class 2 Area" means an area with an acoustical environment that has qualities representative of both Class 1 and Class 3 Areas:

    (a) sound levels characteristic of Class 1 during daytime (07:00 to 19:00 or to 23:00 hours);

    (b) low evening and night background sound level defined by natural environment and infrequent human activity starting as early as 19:00 hours (19:00 or 23:00 to 07:00 hours);

    (c) no clearly audible sound from stationary sources other than from those under impact assessment.

13. "Class 3 Area" means a rural area with an acoustical environment that is dominated by natural sounds having little or no road traffic, such as the following:

    (a) a small community with less than 1000 population;

    (b) agricultural area;

    (c) a rural recreational area such as a cottage or a resort area; or

    (d) a wilderness area.

14. "Company" means 2225256 Ontario Inc., 2225342 Ontario Inc. and 2225345 Ontario Inc. c/o Canadian Solar Solutions Inc. and includes its successors and assignees;

15. "Decibel" means a dimensionless measure of Sound Level or Sound Pressure Level, denoted as dB;

16. "Director" means a person appointed in writing by the Minister of the Environment pursuant to section 5 of the Act as a Director for the purposes of section 47.5 of the Act;

17. "District Manager" means the District Manager of the appropriate local district office of the Ministry where the Facility is geographically located;

18. "Equipment" means the sixty (60) inverters, thirty (30) transformers, and one (1) transformer substation, and associated ancillary equipment identified in this Approval and as further described in the Application, to the extent approved by this Approval;

19. "Equivalent Sound Level" is the value of the constant sound level which would result in exposure to the same total A-weighted energy as would the specified time-varying sound, if the constant sound level persisted over an equal time interval. It is denoted L_{eq} and is measured in dB A-weighting (dBA);

20. "Facility" means the renewable energy generation facility, including the Equipment, as described in this Approval and as further described in the Application, to the extent approved by this Approval;

21. "Independent Acoustical Consultant" means an Acoustical Consultant who is not representing the Company and was not involved in preparing the Acoustic Assessment Report. The Independent Acoustical Consultant shall not be retained by the Acoustical Consultant involved in the noise impact assessment;

22. "Ministry" means the ministry of the government of Ontario responsible for the Act and includes all officials, employees or other persons acting on its behalf;

23. "Noise Control Measures" means measures to reduce the noise emissions from the Facility and/or Equipment including, but not limited to, barriers, silencers, acoustical louvres, hoods and acoustical treatment, described in the Acoustic Assessment Report and Schedule C of this Approval;

24. "Noise Receptor" has the same meaning as in O. Reg. 359/09;

25. "O. Reg. 359/09" means Ontario Regulation 359/09 "Renewable Energy Approvals under Part V.0.1 of the Act" made under the Act;

26. "Point of Reception" has the same meaning as in Publication NPC-205 or Publication NPC-232, as applicable, and is subject to the same qualifications described in those documents;

27. "Publication NPC-103" means the Ministry Publication NPC-103, "Procedures", August 1978;

28. "Publication NPC-104" means the Ministry Publication NPC-104, "Sound Level Adjustments", August 1978;

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

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

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

32. "Sound Level" means the A-weighted Sound Pressure Level;

33. "Sound Level Limit" is the limiting value described in terms of the one hour A-weighted Equivalent Sound Level L_{eq};

34. "Sound Power Level" is ten times the logarithm to the base of 10 of the ratio of the sound power (Watts) of a noise source to standard reference power of 10^{-12} Watts;

35. "Sound Pressure" means the instantaneous difference between the actual pressure and the average or barometric pressure at a given location. The unit of measurement is the micro pascal (μPa);

36. "Sound Pressure Level" means twenty times the logarithm to the base 10 of the ratio of the effective pressure (μPa) of a sound to the reference pressure of 20 μPa;

37. "UTM" means Universal Transverse Mercator coordinate system.

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

TERMS AND CONDITIONS

A - GENERAL

1. The Company shall construct, install, use, operate, maintain and retire the Facility in accordance with the terms and conditions of this Approval and the Application and in accordance with the following schedules attached hereto:

   (a) Schedule A - Facility Description
   (b) Schedule B - Coordinates of the Equipment and Noise Specifications
   (c) Schedule C – Noise Control Measures

2. Where there is a conflict between a provision of this Approval and any document submitted by the Company, the conditions in this Approval shall take precedence. Where there is a conflict between one or more of the documents submitted by the Company, the document bearing the most recent date shall take precedence.

3. The Company shall ensure a copy of this Approval is:

   (a) accessible, at all times, by Company staff operating the Facility and;

   (b) submitted to the clerk of each local municipality and upper-tier municipality in which the Facility is situated.

4. If the Company has a publicly accessible website, the Company shall ensure that the Approval and the Application are posted on the Company's publicly accessible website within five (5) business days of receiving this Approval.

5. The Company shall, at least six (6) months prior to the anticipated retirement date of the entire Facility, or part of the Facility, review its Decommissioning Plan Report to ensure that it is still accurate. If the Company determines that the Facility cannot be decommissioned in accordance with the Decommissioning Plan Report, the Company shall provide the Director and District Manager a written description of plans for the decommissioning of the Facility.

6. The Facility shall be retired in accordance with the Decommissioning Plan Report and any directions provided by the Director or District Manager.

7. The Company shall provide the District Manager and the Director advanced written notice of the following:

   (a) the commencement of any construction or installation activities at the project location; and

   (b) the commencement of the operation of the Facility.

B - EXPIRY OF APPROVAL

1. Construction and installation of the Facility must be completed within three (3) years of the later of:

   (a) the date this Approval is issued; or

   (b) if there is a hearing or other litigation in respect of the issuance of this Approval, the date that this hearing or litigation is disposed of, including all appeals.

2. This Approval ceases to apply in respect of any portion of the Facility not constructed or installed before the later of the dates identified in Condition B1.

C - NOISE PERFORMANCE LIMITS

1. The Company shall ensure that:

   (a) the Sound Levels from the Equipment, at the Points of Reception identified in the Acoustic Assessment Report, comply with the Sound Level Limit of 40 dBA as described in Publication NPC-232, subject to adjustment for tonality as described in Publication NPC-104;

   (b) the Equipment is constructed and installed at either of the following locations:

      (i) at the locations identified in Schedule B of this Approval; or

      (ii) at a location that does not vary by more than 10 metres from the locations identified in Schedule B of this Approval and provided that,

         1) the Equipment will comply with Condition C1 (a), and

         2) all setback prohibitions established under O. Reg. 359/09 are complied with.

   (c) the Equipment complies with the noise specifications set out in Schedule B of this Approval; and

   (d) all of the Noise Control Measures are fully implemented prior to the commencement of the operation of the Facility.

2. If the Company determines that some or all of the Equipment cannot be constructed in accordance with Condition C1 (b), prior to the construction and installation of the Equipment in question, the Company shall apply to the Director for an amendment to the terms and conditions of the Approval.

3. Within three (3) months of the completion of the construction of the Facility, the Company shall submit to the Director a written confirmation signed by an individual who has the authority to bind the Company that the UTM coordinates of the "as constructed" Equipment comply with the requirements of Condition C1 (b).

D - ACOUSTIC AUDIT

1. The Company shall carry out an Acoustic Audit in accordance with the procedures set out in Publication NPC-103, and shall submit to the District Manager and the Director an Acoustic Audit Report prepared by an Independent Acoustical Consultant in accordance with the requirements of Publication NPC-233, no later than six (6) months after the commencement of the operation of the Facility.

E - GROUNDWATER MONITORING

1. The Company shall implement the groundwater sampling and monitoring program included in the Application and entitled "Proposed Groundwater Monitoring For Three Proposed Solar Farms, Project Liskeard 1, 3 and 4, Temiskaming Shores, Ontario", dated January 2012 and prepared by McIntosh Perry Consulting Engineers Ltd.

2. The Company shall report the summary of the results of the groundwater sampling and monitoring program on an annual basis to the District Manager.

F - STORMWATER MANAGEMENT

1. The Company shall employ best management practices for stormwater management and sediment and erosion control during construction, installation, use, operation, maintenance and retiring of the Facility, as described in the report included in the Application entitled "Project Liskeard 1, 3 and 4 Construction Plan Report", dated March 2012 and prepared by Dillon Consulting.

G - SEWAGE WORKS OF THE TRANSFORMER SUBSTATION SPILL CONTAINMENT FACILITY

1. The Company shall design and construct a transformer substation spill containment facility which meets the following requirements:

   (a) the spill containment area serving the transformer substation shall have a minimum volume equal to the volume of transformer oil and lubricants plus the volume equivalent to providing a minimum 24-hour duration, 25-year return storm capacity for the stormwater drainage area around the transformer under normal operating conditions;

(b) the containment facility shall have an impervious concrete floor and walls sloped toward an outlet, maintaining a freeboard of 0.25 metres terminating approximately 0.3 metres above grade, with an impervious plastic liner or equivalent, and a 1 metre layer of crushed stone within;

(c) the containment pad shall drain to an oil control device, such as an oil/water separator, a pump-out sump, an oil absorbing material in a canister or a blind sump; and

(d) the oil control device shall be equipped with an oil detection system and appropriate sewage appurtenances as necessary (pumpout manhole, submersible pumps, level controllers, floating oil sensors, etc.) that allows for batch discharges or direct discharges and for proper implementation of the monitoring program described in Condition G4.

2. The Company shall:

(a) prior to the construction of the transformer substation spill containment facility, provide the District Manager and Director with a report and drawings issued for construction signed and stamped by an independent Professional Engineer licensed in Ontario and competent in electrical engineering;

(b) within six (6) months of the completion of the construction of the transformer substation spill containment facility, provide the District Manager and Director with a report and drawings issued for construction signed and stamped by an independent Professional Engineer licensed in Ontario which includes the following:

(i) as-built drawings of the sewage works;

(ii) confirmation that the transformer substation spill containment facility has been designed and installed according to appropriate specifications; and

(iii) confirmation of the adequacy of the operating procedures and the emergency procedures manuals as it pertains to the installed sewage works.

(c) as a minimum, check the oil detection system on a monthly basis and create a written record of the inspections;

(d) ensure that the effluent is essentially free of floating and settleable solids and does not contain oil or any other substance in amounts sufficient to create a visible film, sheen or foam on the receiving waters;

(e) immediately identify and clean-up all losses of oil from the transformer;

(f) upon identification of oil in the effluent pumpout, take immediate action to prevent the further occurrence of such loss; and

(g) ensure that equipment and material for the containment, clean-up and disposal of oil and materials contaminated with oil are kept within easy access and in good repair for immediate use in the event of:

(i) loss of oil from the transformer,

(ii) a spill within the meaning of Part X of the Act, or

(iii) the identification of an abnormal amount of oil in the effluent.

3. The Company shall design, construct and operate the sewage works such that the concentration of the effluent parameter named in the table below does not exceed the maximum concentration objective shown for that parameter in the effluent, and shall comply with the following requirements:

Effluent Parameters	Maximum Concentration Objective
Oil and Grease	15 mg/L

(a) notify the District Manager as soon as reasonably possible of any exceedance of the maximum concentration objective set out in the table above;

(b) take immediate action to identify the cause of the exceedance; and

(c) take immediate action to prevent further exceedances.

4. Upon commencement of the operation of the Facility, the Company shall establish and carry out the following monitoring program for the sewage works:

(a) the Company shall collect and analyze the required set of samples at the sampling points listed in the table below in accordance with the measurement frequency and sample type specified for the effluent parameter, oil and grease, and create a written record of the monitoring:

Effluent Parameters	Measurement Frequency and Sample Points	Sample Type
Oil and Grease	B - Batch, i.e. for each discrete volume in the sump prior to pumpout; or Q - Quarterly for direct effluent discharge, i.e., four times over a year, relatively evenly spaced.	Grab

(b) in the event of an exceedance of the maximum concentration objective set out in the table in Condition G3, the Company shall:

(i) increase the frequency of sampling to once per month, for each month that effluent discharges occurs, and

(ii) provide the District Manager, on a monthly basis, with copies of the written record created for the monitoring until the District Manager provides written direction that monthly sampling and reporting is no longer required; and

(c) if over a period of twenty-four (24) months of effluent monitoring under Condition G4 (a), there are no exceedances of the maximum concentration set out in the table in Condition G3, the Company may reduce the measurement frequency of effluent monitoring to a frequency as the District Manager may specify in writing, provided that the new specified frequency is never less than annual.

5. The Company shall comply with the following methods and protocols for any sampling, analysis and recording undertaken in accordance with Condition No. G4:

(a) Ministry of the Environment publication "Protocol for the Sampling and Analysis of Industrial/ Municipal Wastewater", January 1999, as amended from time to time by more recently published editions, and

(b) the publication "Standard Methods for the Examination of Water and Wastewater", 21st edition, 2005, as amended from time to time by more recently published editions.

H - WATER TAKING ACTIVITIES

1. The Company shall not take more than 50,000 litres of water on any day by any means during the construction, installation, use, operation, maintenance and retiring of the Facility.

I - ARCHAEOLOGICAL RESOURCES

1. The Company shall implement all of the recommendations, if any, for further archaeological fieldwork and for the protection of archaeological sites found in the consultant archaeologist's report included in the Application, and which the Company submitted to the Ministry of Tourism, Culture and Sport in order to comply with clause 22 (2) (b) of O. Reg. 359/09.

2. Should any previously undocumented archaeological resources be discovered, the Company shall:

(a) cease all alteration of the area in which the resources were discovered immediately;

(b) engage a consultant archaeologist to carry out the archaeological fieldwork necessary to further assess the area and to either protect and avoid or excavate any sites in the area in accordance with the *Ontario Heritage Act* , the regulations under that act and the Ministry of Tourism, Culture and Sport's *Standards and Guidelines for Consultant Archaeologists* ; and

(c) notify the Director as soon as reasonably possible.

J - OPERATION AND MAINTENANCE

1. Prior to the commencement of the operation of the Facility, the Company shall prepare a written manual for use by Company staff outlining the operating procedures and a maintenance program for the Equipment that includes as a minimum the following:

   (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 operation and maintenance of the Equipment; and

   (d) all appropriate measures to minimize noise emissions from the Equipment.

2. The Company shall;

   (a) update, as required, the manual described in Condition J1; and

   (b) make the manual described in Condition J1 available for review by the Ministry upon request.

3. The Company shall ensure that the Facility is operated and maintained in accordance with the Approval and the manual described in Condition J1.

K - RECORD CREATION AND RETENTION

1. The Company shall create written records consisting of the following:

   (a) an operations log summarizing the operation and maintenance activities of the Facility;

   (b) within the operations log, a summary of routine and Ministry inspections of the Facility; and

   (c) a record of any complaint alleging an Adverse Effect caused by the construction, installation, use, operation, maintenance or retirement of the Facility.

2. A record described under Condition K1(c) shall include:

   (a) a description of the complaint that includes as a minimum the following:

      (i) the date and time the complaint was made;

      (ii) the name, address and contact information of the person who submitted the complaint;

(b) a description of each incident to which the complaint relates that includes as a minimum the following:

(i) the date and time of each incident;

(ii) the duration of each incident;

(iii) the wind speed and wind direction at the time of each incident;

(iv) the ID of the Equipment involved in each incident and its output at the time of each incident;

(v) the location of the person who submitted the complaint at the time of each incident; and

(c) a description of the measures taken to address the cause of each incident to which the complaint relates and to prevent a similar occurrence in the future.

3. The Company shall retain, for a minimum of five (5) years from the date of their creation, all records described in Condition K1, and make these records available for review by the Ministry upon request.

L - NOTIFICATION OF COMPLAINTS

1. The Company shall notify the District Manager of each complaint within two (2) business days of the receipt of the complaint.

2. The Company shall provide the District Manager with the written records created under Condition K1 within eight (8) business days of the receipt of the complaint.

3. If the Company receives a complaint related to groundwater, the Company shall contact the District Manager within one (1) business day of the receipt of the complaint to discuss appropriate measures to manage any potential groundwater issues.

M - CHANGE OF OWNERSHIP

1. The Company shall notify the Director in writing, and forward a copy of the notification to the District Manager, within thirty (30) days of the occurrence of any of the following changes:

(a) the ownership of the Facility;

(b) the operator of the Facility;

(c) the address of the Company;

(d) the partners, where the Company is or at any time becomes a partnership and a copy of the most recent declaration filed under the *Business Names Act* , R.S.O. 1990, c.B.17, as amended, shall be included in the notification; and

(e) the name of the corporation where the Company is or at any time becomes a corporation, other than a municipal corporation, and a copy of the most current information filed under the *Corporations Information Act* , R.S.O. 1990, c. C.39, as amended, shall be included in the notification.

SCHEDULE A

Facility Description

The Facility shall consist of the construction, installation, operation, use and retiring of the following:

(a) Thirty (30) arrays of photovoltaic (PV) modules or panels with a total name plate capacity of up to approximately 30 megawatts (AC), with each array containing one (1) cluster consisting of two (2) 500 kW inverters and one (1) 27.6 kV/1-MVA transformer; and

(b) associated ancillary equipment, systems and technologies including one (1) transformer substation, on-site access roads, underground cabling and overhead distribution lines,

all in accordance with the Application.

SCHEDULE B

Coordinates of the Equipment and Noise Specifications

Coordinates of the Equipment are listed below in UTM, Z17-NAD83 projection:

Source ID	Sound Power Level (dBA)	Easting (m)	Northing (m)	Source description
TRS1	**94.1**	596,381	5,262,414	27.6-kV/115-kV/34.5-MVA Transformer Substation
INV1.1	**102.2**	597,096	5,262,681	1 MW Inverter Cluster
INV1.2	**102.2**	597,123	5,262,681	1 MW Inverter Cluster
INV1.3	**102.2**	597,096	5,262,923	1 MW Inverter Cluster
INV1.4	**102.2**	597,123	5,262,923	1 MW Inverter Cluster
INV1.5	**102.2**	597,096	5,263,164	1 MW Inverter Cluster
INV1.6	**102.2**	597,123	5,263,164	1 MW Inverter Cluster
INV1.7	**102.2**	597,235	5,263,189	1 MW Inverter Cluster
INV1.8	**102.2**	597,234	5,263,034	1 MW Inverter Cluster
INV1.9	**102.2**	597,233	5,262,890	1 MW Inverter Cluster
INV1.10	**102.2**	597,234	5,262,749	1 MW Inverter Cluster
INV3.1	**102.2**	596,983	5,260,711	1 MW Inverter Cluster
INV3.2	**102.2**	597,009	5,260,710	1 MW Inverter Cluster
INV3.3	**102.2**	596,983	5,260,443	1 MW Inverter Cluster
INV3.4	**102.2**	597,010	5,260,443	1 MW Inverter Cluster
INV3.5	**102.2**	596,987	5,260,152	1 MW Inverter Cluster
INV3.6	**102.2**	597,008	5,260,151	1 MW Inverter Cluster
INV3.7	**102.2**	597,116	5,260,177	1 MW Inverter Cluster
INV3.8	**102.2**	597,115	5,260,443	1 MW Inverter Cluster
INV3.9	**102.2**	597,223	5,260,635	1 MW Inverter Cluster
INV3.10	**102.2**	597,223	5,260,774	1 MW Inverter Cluster
INV4.1	**102.2**	596,743	5,261,791	1 MW Inverter Cluster
INV4.2	**102.2**	596,716	5,261,906	1 MW Inverter Cluster
INV4.3	**102.2**	596,718	5,262,057	1 MW Inverter Cluster
INV4.4	**102.2**	596,744	5,262,059	1 MW Inverter Cluster
INV4.5	**102.2**	596,925	5,262,034	1 MW Inverter Cluster
INV4.6	**102.2**	596,952	5,261,918	1 MW Inverter Cluster
INV4.7	**102.2**	596,926	5,261,765	1 MW Inverter Cluster
INV4.8	**102.2**	597,160	5,261,740	1 MW Inverter Cluster
INV4.9	**102.2**	597,132	5,261,893	1 MW Inverter Cluster
INV4.10	**102.2**	597,135	5,262,097	1 MW Inverter Cluster

Note: The inverter and transformer Sound Power Level values in the above table correspond to the combined output of all the inverters in each cluster, and include the 5 Decibel (dB) adjustment for tonality as prescribed in Publication NPC-104.

SCHEDULE C

Noise Control Measures

One (1) enclosure with acoustic louvres for each of inverter clusters 1.1 to 1.10, 3.5, 3.6, 4.2 to 4.10 inclusive, capable of providing the following values of Transmission-Loss in 1/1 octave frequency bands:

Centre Frequency (Hertz)	63	125	250	500	1000	2000	4000	8000
Transmission-Loss (decibel)	4	4	6	10	17	12	0	0

Dimensions and coordinates of the three-sided barrier for inverter cluster 1.2:

ID	Height (m)	Length (m)	Easting x1 (m)	Northing y1 (m)	Easting x2 (m)	Northing y2 (m)
Inv1.2 barrier	3.5	8.4	597,118	5,262,684	597,127	5,262,684
	3.5	6.0	597,127	5,262,684	597,127	5,262,678
	3.5	8.4	597,127	5,262,678	597,118	5,262,678

Dimensions and coordinates of the three-sided barrier for inverter cluster 1.10:

ID	Height (m)	Length (m)	Easting x1 (m)	Northing y1 (m)	Easting x2 (m)	Northing y2 (m)
Inv1.2 barrier	3.5	8.4	597,229	5,262,752	597,238	5,262,752
	3.5	6.0	597,238	5,262,752	597,238	5,262,746
	3.5	8.4	597,238	5,262,746	597,229	5,262,746

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

1. Condition A1 and A2 are included to ensure that the Facility is constructed, installed, used, operated, maintained and retired in the manner in which it was described for review and upon which Approval was granted. These conditions are also included to emphasize the precedence of conditions in the Approval and the practice that the Approval is based on the most current document, if several conflicting documents are submitted for review.

2. Condition A3 and A4 are included to require the Company to provide information to the public and the local municipality.

3. Condition A5 and A6 are included to ensure that final retirement of the Facility is completed in an aesthetically pleasing manner, in accordance with Ministry standards, and to ensure long-term protection of the health and safety of the public and the environment.

4. Condition A7 is included to require the Company to inform the Ministry of the commencement of activities related to the construction, installation and operation of the Facility.

5. Condition B is intended to limit the time period of the Approval.

6. Condition C1 is included to provide the minimum performance requirement considered necessary to prevent an Adverse Effect resulting from the operation of the Equipment and to ensure that the noise emissions from the Equipment will be in compliance with applicable limits set in Publication NPC-232.

7. Condition C2 and C3 are included to ensure that the Equipment is constructed, installed, used, operated, maintained and retired in a way that meets the regulatory setback prohibitions set out in O. Reg. 359/09.

8. Condition D is included to require the Company to gather accurate information so that the environmental noise impact and subsequent compliance with the Act, O. Reg. 359/09, Publication NPC-232 and this Approval can be verified.

9. Condition E, F and H are included to ensure that the Facility is constructed, installed, used, operated, maintained and retired in a way that does not result in an Adverse Effect or hazard to the natural environment or any persons.

10. Condition G1 is included to ensure that the sewage works of the transformer substation spill containment facility are designed to have adequate capacity to provide spill control. This condition is also included to enable compliance with this Approval, such that the environment is protected and deterioration, loss, injury or damage to any person, property or the environment is minimized and/ or prevented.

11. Condition G2 is included to ensure that the sewage works of the transformer substation spill containment facility will be designed, installed, operated and maintained in accordance with the information submitted by the Company, and to adequately manage and clean-up any oil spill from the transformer.

12. Condition G3 is included to establish non-enforceable effluent quality objectives which the Company is required to strive towards on an ongoing basis. These objectives are to be used as a mechanism to trigger corrective action proactively and voluntarily before environmental impairment occurs.

13. Conditions G4 and G5 are included to require the Company to demonstrate that the performance of the sewage works of the transformer substation spill containment facility is at a level consistent with the design and effluent objectives specified in the Approval and is not causing any impairment to the environment.

14. Condition I is included to protect archaeological resources that may be found at the project location.

15. Condition J is included to emphasize that the Equipment must be maintained and operated according to a procedure that will result in compliance with the Act, O. Reg. 359/09 and this Approval.

16. Condition K is included to require the Company to keep records and provide information to the Ministry so that compliance with the Act, O. Reg. 359/09 and this Approval can be verified.

17. Condition L are included to ensure that any complaints regarding the construction, installation, use, operation, maintenance or retirement of the Facility are responded to in a timely and efficient manner.

18. Condition M is included to ensure that the Facility is operated under the corporate name which appears on the application form submitted for this Approval and to ensure that the Director is informed of any changes.

NOTICE REGARDING HEARINGS

In accordance with Section 139 of the Environmental Protection Act, within 15 days after the service of this notice, you may by further written notice served upon the Director, the Environmental Review Tribunal and the Environmental Commissioner, require a hearing by the Tribunal.

In accordance with Section 47 of the Environmental Bill of Rights, 1993, the Environmental Commissioner will place notice of your request for a hearing 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 renewable energy approval or each term or condition in the renewable energy 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 signed and dated notice requiring the hearing should also include:

3. The name of the appellant;
4. The address of the appellant;
5. The renewable energy approval number;
6. The date of the renewable energy approval;
7. The name of the Director;
8. The municipality or municipalities within which the project is to be engaged in;

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 47.5, *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**

Under Section 142.1 of the Environmental Protection Act, residents of Ontario may require a hearing by the Environmental Review Tribunal within 15 days after the day on which notice of this decision is published in the Environmental Registry. By accessing the Environmental Registry at www.ebr.gov.on.ca, you can determine when this period ends.

Approval for the above noted renewable energy project is issued to you under Section 47.5 of the Environmental Protection Act subject to the terms and conditions outlined above.

DATED AT TORONTO this 12th day of October, 2012

Vic Schroter, P.Eng.
Director
Section 47.5, *Environmental Protection Act*

SR/

c: District Manager, MOE North Bay
Jeff Roy, Canadian Solar Solutions Inc.