
AMENDMENT TO RENEWABLE ENERGY APPROVALNUMBER 5525-A32HG6
Issue Date: November 28, 2016

Southgate Solar GP Inc. as the general partner of Southgate Solar LP
1400-130 King St. W.
Toronto, Ontario
M5X 1C8

Site Location: Southgate Solar Project
Lots 2-4, Concession 17;
Lots 1-3, Concession 18;
Lots 23, 25, 26, Concession 3;
Township of Southgate, County of Grey

You are hereby notified that I have amended Approval No. 5525-A32HG6 issued on November 6, 2015 for a Class 3 solar facility, as follows:

A. The address of the owner/operator has changed from:

2050 Derry Road West, 2nd Floor
Mississauga, Ontario
L5N 0B9

To:

1400-130 King St. W.
Toronto, Ontario
M5X 1C8

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

1. "Acoustic Assessment Report" means the report included in the Application and entitled "*Revised Noise Study Report, Southgate Solar Project, dated October 2016, prepared by Dillon Consulting Limited, and signed by Amir A. Iravani, Ph.d., P.Eng.*"

7. "Application" means the application for a Renewable Energy Approval dated April 7, 2015, and signed by Simon Kim, Project Manager, Southgate Solar LP, and all supporting documentation submitted with the application, including amended documentation submitted up to November 6, 2015; and as further amended by the application for an amendment to a Renewable Energy Approval dated July 29, 2016 and signed by Matt O'Brien, President, Southgate Solar LP, and all supporting documentation submitted with the application, including amended documentation submitted up to the date this amendment is issued;
18. "Equipment" means the inverters, transformers, transformer substation, DSTATCOM inverter system and shunt reactor, and associated ancillary equipment identified in this Approval and as further described in the Application, to the extent approved by this Approval;

C. Section 1 of Schedule A in the Approval is deleted and replaced with the following:

1. 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 50 megawatts (AC), with each array containing one (1) cluster consisting of two (2) 800 kW inverters rated up to 833 kW and one (1) 1.6-MVA transformer capable of operating at 1.67-MVA; and
 - (b) associated ancillary equipment, systems and technologies including, but not limited to: one (1) 55 MVA transformer substation, one (1) DSTATCOM inverter system, one (1) shunt reactor, on-site access roads, below and above grade cabling, and below and above grade distribution lines,

all in accordance with the Application.

D. Schedule B in the Approval is deleted and replaced with the following:

Table B1: Coordinates of the Equipment and Noise Specifications

	Source ID	Sound Power Level (dBA)	Easting	Northing	Source Description
			X (m)	Y (m)	
1	MV 01	103.3	518,939	4,882,365	1.6 MVA; Inverter Enclosure 1
2	MV 02	103.3	518,969	4,882,095	1.6 MVA; Inverter Enclosure 2
3	MV 03	103.3	519,094	4,882,575	1.6 MVA; Inverter Enclosure 3
4	MV 04	103.3	519,108	4,882,357	1.6 MVA; Inverter Enclosure 4
5	MV 05	103.3	519,156	4,882,087	1.6 MVA; Inverter Enclosure 5
6	MV 06	103.3	519,284	4,882,666	1.6 MVA; Inverter Enclosure 6
7	MV 07	103.3	519,303	4,882,385	1.6 MVA; Inverter Enclosure 7
8	MV 08	103.3	519,350	4,881,997	1.6 MVA; Inverter Enclosure 8
9	MV 09	103.3	519,478	4,882,666	1.6 MVA; Inverter Enclosure 9
10	MV 10	103.3	519,516	4,882,386	1.6 MVA; Inverter Enclosure 10
11	MV 11	103.3	519,540	4,882,235	1.6 MVA; Inverter Enclosure 11

12	MV 12	103.3	519,530	4,882,016	1.6 MVA; Inverter Enclosure 12
13	MV 13	103.3	519,674	4,882,715	1.6 MVA; Inverter Enclosure 13
14	MV 14	103.3	519,694	4,882,471	1.6 MVA; Inverter Enclosure 14
15	MV 15	103.3	519,703	4,882,288	1.6 MVA; Inverter Enclosure 15
16	MV 16	85.2	519,712	4,882,078	1.6 MVA; Inverter Enclosure 16
17	MV 17	103.3	520,793	4,883,670	1.6 MVA; Inverter Enclosure 17
18	MV 18	103.3	520,812	4,883,490	1.6 MVA; Inverter Enclosure 18
19	MV 19	103.3	520,962	4,883,680	1.6 MVA; Inverter Enclosure 19
20	MV 20	103.3	520,990	4,883,415	1.6 MVA; Inverter Enclosure 20
21	MV 21	103.3	521,016	4,883,200	1.6 MVA; Inverter Enclosure 21
22	MV 22	103.3	521,146	4,883,670	1.6 MVA; Inverter Enclosure 22
23	MV 23	103.3	521,185	4,883,542	1.6 MVA; Inverter Enclosure 23
24	MV 24	103.3	521,166	4,883,400	1.6 MVA; Inverter Enclosure 24
25	MV 25	103.3	521,194	4,883,210	1.6 MVA; Inverter Enclosure 25
26	MV 26	103.3	521,394	4,883,542	1.6 MVA; Inverter Enclosure 26
27	MV 27	103.3	521,558	4,883,640	1.6 MVA; Inverter Enclosure 27
28	MV 28	103.3	521,712	4,883,790	1.6 MVA; Inverter Enclosure 28
29	MV 29	103.3	521,715	4,883,580	1.6 MVA; Inverter Enclosure 29
30	MV 30	103.3	519,752	4,883,213	1.6 MVA; Inverter Enclosure 30
31	MV 01T	56.1	518,945	4,882,365	1.6 MVA; Transformer 1
32	MV 02T	56.1	518,974	4,882,095	1.6 MVA; Transformer 2
33	MV 03T	56.1	519,099	4,882,575	1.6 MVA; Transformer 3
34	MV 04T	56.1	519,114	4,882,357	1.6 MVA; Transformer 4
35	MV 05T	56.1	519,150	4,882,087	1.6 MVA; Transformer 5
36	MV 06T	56.1	519,278	4,882,666	1.6 MVA; Transformer 6
37	MV 07T	56.1	519,309	4,882,385	1.6 MVA; Transformer 7
38	MV 08T	56.1	519,356	4,881,997	1.6 MVA; Transformer 8
39	MV 09T	56.1	519,484	4,882,666	1.6 MVA; Transformer 9
40	MV 10T	56.1	519,510	4,882,386	1.6 MVA; Transformer 10
41	MV 11T	56.1	519,546	4,882,235	1.6 MVA; Transformer 11
42	MV 12T	56.1	519,536	4,882,016	1.6 MVA; Transformer 12
43	MV 13T	56.1	519,669	4,882,715	1.6 MVA; Transformer 13
44	MV 14T	56.1	519,688	4,882,471	1.6 MVA; Transformer 14
45	MV 15T	56.1	519,709	4,882,288	1.6 MVA; Transformer 15
46	MV 16T	56.1	519,707	4,882,078	1.6 MVA; Transformer 16
47	MV 17T	56.1	520,798	4,883,670	1.6 MVA; Transformer 17
48	MV 18T	56.1	520,818	4,883,490	1.6 MVA; Transformer 18
49	MV 19T	56.1	520,967	4,883,680	1.6 MVA; Transformer 19
50	MV 20T	56.1	520,995	4,883,415	1.6 MVA; Transformer 20
51	MV 21T	56.1	521,022	4,883,200	1.6 MVA; Transformer 21
52	MV 22T	56.1	521,140	4,883,670	1.6 MVA; Transformer 22
53	MV 23T	56.1	521,191	4,883,542	1.6 MVA; Transformer 23
54	MV 24T	56.1	521,160	4,883,400	1.6 MVA; Transformer 24
55	MV 25T	56.1	521,189	4,883,210	1.6 MVA; Transformer 25
56	MV 26T	56.1	521,388	4,883,542	1.6 MVA; Transformer 26
57	MV 27T	56.1	521,564	4,883,640	1.6 MVA; Transformer 27
58	MV 28T	56.1	521,706	4,883,790	1.6 MVA; Transformer 28
59	MV 29T	56.1	521,709	4,883,580	1.6 MVA; Transformer 29
60	MV 30T	56.1	519,757	4,883,213	1.6 MVA; Transformer 30
61	TRS	100.7	519,488	4,883,250	55 MVA Transformer Substation

62	DSTAT	96.6	519,505	4,883,281	DSTATCOM 19 mVar			
63	LR	87	519,489	4,883,270	Reactor			

Table B2: Maximum Sound Power Spectrum (dBLin) for each of the thirty 1.6 MW Inverter Enclosures (unit with two 0.8 MW Inverters)

Inverters MV01 – MV 30	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1000	2000	4000	8000
Lw (dB Lin)	92.1	89.7	91.2	91.3	85.7	89.4	98.0	87.4

Table B3: Maximum Sound Power Spectrum (dBLin) for each of the thirty 1.6 MVA Inverter Transformers

Transformers MV01T – MV30T	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1000	2000	4000	8000
Lw (dB Lin)	46.0	56.0	54.0	52.0	50.0	43.0	50.0	46.0

Table B4: Maximum Sound Power Spectrum (dBLin) for the 55 MVA Transformer Substation

55 MVA Transformer Substation	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1000	2000	4000	8000
Lw (dB Lin)	103.4	105.4	100.4	100.4	94.4	89.4	84.4	77.4

Table B5: Maximum Sound Power Spectrum (dBLin) for the 10 MVAR DSTATCOM Inverter System

10 MVAR DSTATCOM Inverter System	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1000	2000	4000	8000
Lw (dB Lin)	93.0	111.0	95.0	91.0	80.0	74.0	84.0	74.0

Table B6: Maximum Sound Power Spectrum (dBLin) for the shunt Reactor

7.5 MVAR Shunt Reactor	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1000	2000	4000	8000
Lw (dB Lin)	89.6	91.6	86.6	86.6	80.6	75.6	70.6	63.6

E. Schedule C in the Approval is deleted and replaced with the following:

In accordance with Section 6.4 of the Acoustic Assessment Report air openings on the south and west sides of the acoustic enclosure for inverter MV 16 will be fitted with acoustic louvers capable of providing the following values of Transmission-Loss in 1/1 octave frequency bands:

Acoustic Louvre Specifications, [dB]

Acoustic Louvre	Octave Band Centre Frequency (Hz)							
	63	125	250	500	1000	2000	4000	8000
Minimum Transmission Loss Values for the Acoustic Louvers	-	4	7	15	18	18	16	-

This Notice shall constitute part of the approval issued under Approval No. 5525-A32HG6 dated November 6, 2015.

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

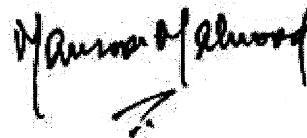
The Director
Section 47.5, *Environmental Protection Act*
Ministry of the Environment and Climate
Change
135 St. Clair Avenue West, 1st Floor
Toronto, Ontario
M4V 1P5

*** 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 28th day of November, 2016



Mansoor Mahmood, P.Eng.

Director

Section 47.5, *Environmental Protection Act*

DM/

c: District Manager, MOECC Owen Sound
Amir A. Iravani, Dillon Consulting Limited