

# Commonwealth of Massachusetts Executive Office of Energy & Environmental Affairs

# Department of Environmental Protection

Western Regional Office • 436 Dwight Street, Springfield MA 01103 • 413-784-1100

DEVAL L. PATRICK Governor MAEVE VALLELY BARTLETT
Secretary

DAVID W. CASH Commissioner

Mayor Richard Alcombright City Hall 10 Main Street North Adams, MA 01247 September 9, 2014

RE: North Adams-DSWM-Landfill
E Street
Post Closure Use – Solar Power
Permit Approval
BWPSW36
Transmittal #X240539
SWM File #14-209-001

Dear Mayor Alcombright:

The Massachusetts Department of Environmental Protection (the MassDEP) is issuing this permit to the City of North Adams ('Permittee' and "Applicant') approving the post closure use of the City of North Adams E Street Landfill (the 'Landfill') as a solar power farm (Solar Farm). The Landfill is located at south end of E Street in North Adams, Massachusetts.

On August 12, 2014, MassDEP received the BWPSW36 Major Post Closure Use permit application, under transmittal #X262197 (the "Application"). The Application was prepared by your consultant, Tighe & Bond, Inc.

On August 25, 2014 a meeting was held at MassDEP's Springfield office to discuss MassDEP's initial review of the Application.

On September 3, 2014 MassDEP received a Supplemental Submittal prepared by Borrego Solar Systems, Inc. that responded to discussions of the August 25<sup>th</sup> meeting and clarified and revised portions of the Application.

The Application was prepared by your consultant, Tighe & Bond, Inc. The Application bears your certification and was prepared under the supervision of and bears the signature and seal of Jaclyn M. Caceci, Massachusetts Registered Professional Civil Engineer # 46847.

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The structural design and evaluations of the solar panel supports were prepared by, and bear the seal and certification of, Richard D. Turley Massachusetts Registered Professional Structural Engineer #34860.

Ground pressure calculations were prepared by and bear the seal and certification of Jaclyn M. Caceci, Massachusetts Registered Professional Civil Engineer # 46847.

Site Plans bear the seal and certification of Jaclyn M. Caceci, Massachusetts Registered Professional Civil Engineer # 46847 and Francis J. Hoey, Massachusetts Registered Professional Civil Engineer #40111.

The electrical plans bear the seal and signature of Patrick L. Retelle, Massachusetts Registered Electrical Engineer # 50226.

#### **Existing Facilities**

The City of North Adams (the "City" or "Owner") completed Final Closure (capping) of the Landfill in 1998 in accordance with engineering plans approved by MassDEP. The cap consists of (from bottom to top) six (6) inches of sand gas vent layer, a 40 mil thick High Density Polyethylene (HDPE) flexible geomembrane liner, 12 inches of sand drainage layer, and 12 inches of vegetative support layer. On September 27, 2000, MassDEP issued a letter acknowledging the receipt of a landfill closure certification report. This letter required post closure environmental monitoring and maintenance of the Landfill.

On December 30, 2011, MassDEP issued a Permit that modified the environmental monitoring at the Landfill.

The Landfill is located on two parcels of Land owned by the City of North Adams.

The City of North Adams operates an existing Transfer Station located on the parcels of land that the Landfill is also located on and to the west of the Landfill. An approximately 4 acre portion of City owned property was site assigned by the Board of Health on July 19, 1993 for the Transfer Station. Construction of the solar farm will require that all access for construction will be through the Transfer Station and construction will impact Transfer Station operations.

# Summary of Proposal

The Application and Supplemental Submittal proposes the construction and maintenance of a 3.6 MW DC photovoltaic solar farm on approximately 11.7 acres of the closed and capped landfill, as follows:

- The solar array will be placed on the landfill cap, on the flatter top portions of the Landfill, with the solar panels tilted at 20 degrees from horizontal, facing south;
- Placement of crushed stone in 3 inch to 5 inch thick layer.
- A total of 12,738 LG Solar LG280N1C-G3 panel modules mounted on a rack system and attached to pans. The pans will be weight down with concrete ballast blocks.
- Three (3) 750kw Inverters, SMA 750CP-US
- Transformers, switches, and inverters will be installed on three concrete electrical equipment pads above the landfill cap on compacted gravel and crushed stone;
- Electrical conduits at the panels will be installed above grade;
- Electrical conduits installed within the limits of the landfill cap at road crossings or under the existing

- roadway are proposed to be installed in concrete duct banks.
- Excavation into the cap is limited to the installation of the duct banks and the installation of horizontal grounding plates for the fences;
- The existing access road over the Landfill will be used for construction access. A proposed concrete duct bank will be installed under the roadway and the existing pavement will be cut and patched;
- Two permanent gravel access roads will be built to portions of the landfill located to the north and to
  the south of the existing road for vehicle access for construction and maintenance activities. Road
  construction will include placement of woven geotextile fabric on existing cap, covered with 14 inch lift
  of processed gravel or crushed ABC. The wear surface will be a six inch thick lift of dense graded
  crush stone. These roads will connect the existing road to the top of the north and south slopes;
- Cross culverts will be installed in existing earthen and stone swales were proposed roadways cross the swales;
- Light displacement equipment will transport all materials from the roads to the installation locations;
- A fence will be installed around the north and south portions of the landfill to control access; and
- Locking gates, to allow access for maintenance of the landfill, will be installed at the two access road entrances to the Landfill and at two other locations.

The grass cover of the solar array area will be mowed, then a non-woven, needle-punched, permeable fabric will be placed over the vegetative support layer, and a 3 to 5 inch thick layer of 3/4-inch diameter crushed stone will be placed over the geotextile.

Electrical transmission wiring from the panels will be mounted on the rack assemblies and will run to combiner boxes above ground, then in above-ground conduits or trays from the combiner boxes to the inverters at the electrical equipment pad. Wiring runs between the racks will be in above grade conduits or trays. All photovoltaic rack assemblies and above-ground wiring will be kept at least 10 feet from any landfill gas vents. Wiring under or crossing roadways will be in concrete duct banks installed with a minimum of 12 inches of sand remaining above the HDPE and under the duct bank.

The electrical equipment area will be located on the south side of the existing roadway. Three concrete equipment pads will be constructed on top of a six inch thick crushed stone pad placed on top of a 12 inch thick minimum compacted gravel pad. The gravel pad will be 6 inch minimum thickness around the exterior perimeter where the slab is thickened. No excavation is proposed for the construction of the equipment pads.

Calculations are provided showing the potential ground pressure on the cover from the weight of the ballasts, racks, panels, as well as snow and wind loads. They indicate that the maximum ground pressure will be less than 7.0 pounds per square inch (psi).

The Application proposed the use of low ground pressure equipment directly upon the landfill cap. Section 4.1 of the Application states:

"The maximum pressure LGP equipment used is assumed to be 7.0 psi. Calculated pressures exerted on the landfill by the solar system, as designed are within or below this threshold, and therefore the array will not negatively impact the landfill or the capping

systems."

Section 6.2 of the Application, Qualitative Health and Environmental Risk Assessment states:

"As a result of these analyses and precautionary measures, the installation of the solar array will not impact the surface water controls, the integrity of the cap, or the landfill gas collection and management system, or increase risks to human health and the environment."

There are no proposed changes to the existing, long-term monitoring program for the landfill.

An Environmental Notification Form for the proposed Solar Farm was not submitted pursuant to the Massachusetts Environmental Policy Act ('MEPA'). The Application states:

"As proposed, the project does not exceed any MEPA thresholds and therefore MEPA review is not required."

# **MassDEP Determinations**

Personnel of MassDEP have reviewed the Post-Closure Use permit application for the Landfill in accordance with MGL c. 111 s. 150A, MGL c. 30A, 310 CMR 19.000, and MassDEP's publication <u>Landfill Technical Guidance Manual</u> (the LAC), revised in May, 1997. MassDEP has determined that the application is approved in accordance with MGL c. 111, s. 150A, MGL c. 30A and the regulations promulgated thereunder, subject to the conditions outlined below.

# **REGULATORY AUTHORITY**

This document is a permit issued pursuant to Massachusetts General Laws Chapter 111, Section 150A and the regulations promulgated thereunder at 310 CMR 19.000, subject to the conditions set forth at 310 CMR 19.043(5). This permit is subject to the standard conditions of 310 CMR 19.000 and the conditions presented herein. This permit does not convey property rights of any sort or any exclusive privilege.

# A. GENERAL PERMIT CONDITIONS

- 1. Mohawk Trail Solar 2, LLC ('Mohawk') is the Owner and Operator, for this post-closure use permit, for the construction and operation of the solar farm on the landfill, and is responsible to comply with the conditions of this permit, as an Owner and the Operator.
- 2. The City of North Adams (the "City"), is the Applicant, Permittee and Owner of the landfill and is also responsible for continued maintenance and environmental monitoring of the landfill in accordance with the requirements of 310 CMR 19.000, the December 30, 2011 environmental monitoring Permit and this Permit.
- 3. Borrego Solar Systems, Inc. ('Borrego') is the Contractor for the solar farm construction approved under this Permit, and is responsible to comply with the conditions of this permit, as a Contractor.
- 4. Not later than 30 days prior to the commencement of construction, revised plans and design

information shall be submitted to MassDEP that identifies all changes made through the review process consistent with this Permit. All changes or revisions shall be clearly summarized in a cover letter or report signed and sealed by a Massachusetts Professional Engineer in accordance with 310 CMR 19.011(2).

- 5. The Permittee, Operator and Contractor and subcontractors shall install the solar panels and modify the landfill only in accordance with the Application and Supplemental Submittal referenced above, except as modified by this permit or otherwise approved by the MassDEP in writing.
- 6. <u>A minimum of seven (7) days prior to the start of construction</u>, the Permittee shall submit a detailed schedule for the project to MassDEP.
- 7. A minimum of seven (7) days prior to the start of construction, the Permittee shall submit a list of project personnel and their contact information. The Permittee shall advise MassDEP in writing of any changes in the project personnel list.
- 8. A Quality Assurance/Quality Control (QA/QC) program shall be implemented during construction. The responsibilities described in the *Landfill Technical Guidance Manual Revised May 1997* ("LACManual"), pp. 2-1 to 2-3 are hereby incorporated by reference into this permit.

#### 9. Construction Oversight:

- a. A third-party, independent Massachusetts-registered professional engineer knowledgeable in landfill design and construction (the "Construction Engineer") shall supervise the overall construction of the Solar Farm. The Construction Engineer and/or a qualified QA/QC officer shall be present at the site at all times during construction of the road, fence installation, and installation of the electrical equipment, ballast blocks, and rack/panel installation, and when any construction equipment is operating on the landfill cap. The QA/QC officer shall work under the direct supervision of the Construction Engineer.
- b. The Construction Engineer's duties shall include, but not be limited to; oversee installation and construction of the components of the Solar Farm as outlined above; oversee quality assurance/quality control (QA/QC) testing and verify all data generated through the testing program; document all construction and QA/QC activities; and submit monthly construction progress reports to the MassDEP and the City, which shall summarize the work performed during the month.
- c. The Construction Engineer shall inspect the site at least once per week during periods when daily oversight is unnecessary. The Construction Engineer may contact MassDEP for guidance if the need for daily engineering oversight is unclear in a given circumstance.
- d. The Construction Engineer shall have sufficient staff onsite to provide quality assurance/quality control (QA/QC) oversight for all construction work at the site, and shall submit monthly construction progress reports to MassDEP summarizing the work performed during the month.
- e. Within 60 days following the completion of construction, the Construction Engineer shall submit a completion report, signed and stamped by a Massachusetts-registered P.E., either certifying that the work was completed in accordance with the approved plans and specifications and the conditions of this permit or detailing any and all deviations from this approval.

- f. MassDEP reserves the right to require greater or more frequent oversight by the Construction Engineer than specified herein if it believes such increased oversight is necessary to protect the landfill cover or appurtenances, public health, safety, or the environment.
- 10. The Construction Engineer's monthly construction report shall include at a minimum the following:
  - Updated schedule;
  - b. Copies of daily field inspection reports;
  - c. Summary of any and all deviations from compliance with requirements approved or set forth in this Permit or subsequent MassDEP approvals;
  - d. Any actions taken to correct such deviations, as required by MassDEP or recommended by the Engineer;
  - e. Schedules to correct identified problems;
  - f. Review of quality assurance/quality control (QA/QC) testing data generated, and documentation for construction and QA/QC activities;
  - g. The construction report shall be signed, sealed and certified by the Engineer in accordance with 310 CMR 19.011 (1&2); and
  - h. The Engineer shall submit one copy of the monthly report to the MassDEP and one copy to the City no later than seven (7) days following the end of the previous month.

# **B. SPECIFIC PERMIT CONDITIONS**

- 11. The Permittee, Owner, Operators and their Contractor(s) and subcontractors are responsible to ensure that all necessary precautions are taken to protect the health and safety of workers and the general public during both construction and maintenance of the solar farm. A copy of the site-specific Health & Safety Plan for the construction and maintenance of the Solar Farm shall be submitted to the MassDEP prior to the beginning of any construction work, which shall include protocols for monitoring of landfill gas as needed, and protocols for modifying work practices if landfill gas is detected at levels deemed unsuitable.
- 12. As part of the site-specific H&S Plan, a written protocol shall be prepared and submitted for the maintenance of the inverters/transformers, and for regular calibration and maintenance of landfill gas monitors used by workers on the site.
- 13. All necessary precautions shall be taken to ensure that the proposed construction and maintenance work associated with the solar farm shall not in any way damage the impermeable layer of the landfill cap, landfill stormwater control structures, landfill monitoring wells, or the landfill gas venting wells and collection pipes.
  - a. Prior to the commencement of construction activities, all landfill gas vents and interconnecting pipes, landfill gas monitoring wells, groundwater monitoring wells, and other existing, aboveground structures of the landfill cap and appurtenances shall be flagged for visibility, and protective barriers shall be placed around such structures as needed to prevent damage by vehicles and construction on the cap area.
  - b. Prior to the commencement of construction activities, the entire solar array area including proposed access roads shall be mowed. All areas previously eroded or damaged shall be

- filled and reshaped to prior grades.
- c. Prior to the installation of any fence posts, grounding systems, duct banks, power poles, guide wires or any other excavation within 10 feet horizontally of the landfill cap, test pit shall be excavated to confirm the location and depth of the landfill cap components, including sand thickness and elevation of HDPE.
- d. If any damage occurs to any of the above-listed landfill components, the Contractor shall notify MassDEP immediately (within 24 hours maximum), a written plan for repair of the components shall be submitted to MassDEP within 48 hours, and any repair work shall be completed on the schedule determined by MassDEP.
- 14. Disturbance of the landfill cap shall be limited to the proposed installations on top of the vegetative support layer of the cap, i.e. no excavations or other penetrations shall be performed into the vegetative support layer (except for duct bank installation and grounding conductors and plates) or sand drainage layer of the cap without separate written approval from the MassDEP.
  - a. All equipment supports, pads and concrete blocks placed on the cap shall be placed on top of, or above, the vegetative support layer of the cap, unless otherwise approved by the MassDEP in writing.
  - b. Excavation approved by this Permit is the limited excavation required for the installation of the electrical duct banks and grounding conductor and plates as detailed on the design plans.
  - c. Survey and control stakes shall not be driven into the landfill cap.
  - d. Erosion control devices within the limits of the cap shall not be installed using stakes.
  - e. Staples less than 12 inches total length may be used to hold erosion control devices.
  - f. There shall be no penetrations of any kind of the impermeable layer of the cap.
- 15. The Owners, Operators and Contractors are responsible to ensure that the inverter, transformer and other electrical equipment boxes on the landfill cap area will not accumulate landfill gas within the boxes during the construction and operation of the solar farm. Any landfill gas levels exceeding 10% of the Lower Explosive Limit (% LFL) within any electrical equipment box shall trigger the requirements of 310 CMR 19.132(5)(g), for notification and action. The additional requirements for the electrical equipment area includes the following:
  - a. The maximum size of the electrical equipment concrete footings shall not exceed the dimensions proposed in the Application;
  - b. All photovoltaic rack assemblies and above-ground and below ground wiring shall be kept at least 10 feet from any landfill gas vents.
  - c. Each electrical equipment box shall be ventilated, and the floor of each box shall be solid, with no openings for landfill gas to enter at the floor level, other than required utility penetrations as outlined below;
  - d. The design of any transformers, inverters, and any other electrical cabinets/equipment shall not allow the entry of landfill gas, and in the event that gas does enter, the equipment shall be designed to prevent the ignition of the gas;
  - e. There shall be no utility, conduit or any other penetrations through the base of the electrical equipment boxes or the base of the concrete footings, except as may be required by electrical codes, i.e. all other utility penetrations shall enter only through the side of the boxes, not the bottom, and these penetrations shall be fully sealed (both outside and within each conduit). Any required electrical line penetrations through the bottom of the concrete footings shall be

- <u>fully sealed to prevent landfill gas entry into the electrical boxes</u>, and electrical lines and conduits associated with these penetrations shall not extend down into the vegetative support layer of the cap;
- f. The electrical equipment boxes and equipment shall meet all electrical code requirements, including any requirements for fencing;
- g. As part of the site-specific H&S Plan, a written protocol shall be prepared and submitted for the maintenance of the electrical equipment area, including provisions for landfill gas monitoring during maintenance of any electrical equipment box, and for regular calibration and maintenance of the landfill gas monitors used by maintenance workers on the site; and
- h. No additional or other equipment may be installed on the surface of the landfill or in proximity of the landfill (i.e. equipment not specifically identified in the application or subsequent correspondence), unless documentation and specifications for such equipment prior to construction are submitted to MassDEP for approval and review of it in relation to potential landfill gas impacts.
- 16. The Permittee, Construction Engineer and the Contractor are responsible to ensure that there is no significant rutting or other damage to the vegetative support layer of the cap. MassDEP shall be notified immediately of rutting or other damage and steps shall be taken to eliminate or avoid such damage. In no case shall rutting or other damage greater than 6 inches deep into the vegetative support layer be allowed to occur. Low-pressure construction equipment shall limit turning on the vegetative support layer as much as possible. If MassDEP determines that the use of any equipment is creating the potential for damage to the impermeable cap layer, the usage of such equipment shall cease immediately upon notification by MassDEP, or be modified as required by MassDEP.
- 17. Prior to the start of construction, the Operators and Contractor(s) shall determine the actual ground pressure of all equipment to be used on the cap, at fully loaded capacity (i.e. including full loads of grading materials or concrete ballast), and document that the loaded ground pressure is less than 7 PSI. The Permittee shall provide to MassDEP the actual ground pressure of all fully loaded equipment to be used on the cap.
- 18. MassDEP specifically reserves the right to restrict or prohibit heavy vehicular loads from the landfill cap, either as a weight restriction or a usage restriction, should inspections or other information reveal the potential for damage to the cap from heavy vehicle loads. MassDEP also specifically reserves the right to impose, at any time deemed necessary by MassDEP, additional requirements for construction on the cap, should construction activities pose a danger to the integrity of the landfill cap or appurtenances. Prior to the start of construction,
- 19. If MassDEP determines that the use of equipment is creating the potential for damage to, or is damaging, the landfill cap, the usage of such equipment shall cease immediately upon discovery or upon notification by MassDEP, and alternative work practices for operation of equipment of the cap (i.e. placement of geotextile and gravel, as proposed) in the affected area(s) shall be instituted.
- 20. The construction staging area(s) shall be located off of the Landfill cap. Delivery of materials and operations of the staging area(s) shall not interfere with Transfer Station operations.
- 21. The Permittee, Owners, Operators and their Contractor(s) and subcontractors are responsible to

- ensure that the proposed work complies with all applicable local, state and federal electrical codes and permits, including the National Electrical Code (NEC), 2011 Edition, Article 690 "Solar Photovoltaic (PV) Systems" including local building permits and electrical permits, as may be required.
- 22. All grounding of the solar array shall be performed in accordance with the applicable portions of the NEC and state/local electrical codes. Grounding and electrical equipment shall not penetrate the landfill cap, unless specifically approved by MassDEP.
- 23. If the Permittee, Owner, Operators or their Contractor(s) modify the design and intends to use different solar panels, panel racks, ladder racks, or electrical equipment other than that detailed in the application, the Permittee shall notify MassDEP and provide documentation that the alternative equipment does not increase calculated ground pressures or decrease calculated Factors of Safety for solar array stability.
- 24. Clean, crushed asphalt, brick and concrete (ABC rubble) may be used for leveling beneath ballast blocks, as proposed.
  - a. The maximum size of the crushed ABC shall not exceed 1.0 inch in its maximum dimension.
  - b. Compaction of the leveling materials or clean ABC must not damage the geomembrane of the cap, and shall not be compacted more than 6 inches into the vegetative support layer.
  - c. Coated (painted or stained) ABC rubble shall <u>not</u> be used in the Solar Farm construction. ABC rubble with exposed wire or rebar shall <u>not</u> be used in the Solar Farm construction.
- 25. All areas disturbed during construction shall be repaired. Additional vegetative support material placed as required, seeded and acceptable grass shall be established except for gravel road surfaces.

# C. OPERATIONS AND MAINTENANCE CONDITIONS-SOLAR FARM

- 26. The following conditions apply to the minimum required maintenance of the landfill:
  - a. The entire landfill surface within the solar system lease limits shall be mowed/cut at least twice per year.
  - b. Vegetation that has been established in areas were stone surface exist shall be trimmed once per year to avoid the establishment of woody vegetation.
  - c. Herbicides may not be used to control vegetation.
  - d. The condition of the fence and access gates shall be inspected at least once a month. Any damage to the fence or gates shall be repaired within 24 hours of discovery unless other temporary methods of controlling access can be established.
  - e. Any erosion problems, settlement problems, or other issues observed on the landfill cap (inside or outside of the limits of the Solar Farm) shall be reported to MassDEP, stabilized immediately and repaired <u>within 30 days of discovery</u>.
- 27. Following completion of the installation, inspections of the Solar Farm shall be performed on a quarterly basis by a qualified, independent third-party inspector in accordance with 310 CMR 19.018. After one year of quarterly inspections, the Permittee may petition MassDEP in writing to reduce the frequency of inspections. The following conditions shall apply:

- a. The entire landfill cap and access roads shall be walked and any problems with the landfill cap, erosion, unusual or excessive settlement, stressed vegetation, damage to landfill gas monitoring wells, vents, and other appurtenances, and any other problems with the landfill cap shall be identified.
- b. Preparation and submittal of an inspection report summarizing the inspection.
- c. Identification of any problems with access controls such as damaged gates and/or fences, as well as any evidence that unauthorized access to the solar array area that may have occurred.
- d. Any damage to landfill gas monitoring wells or other monitoring points, landfill gas vents, or other landfill appurtenances.
- e. A description of actions taken to correct any problems.
- f. A signed and certified copy of the Inspection Report shall be submitted to MassDEP and to the Board of Health within 30 days of the date of the inspection.
- 28. The Permittee, Owners and Operators shall ensure that any erosion, unusual or excessive settlement, stressed vegetation, damage to landfill gas monitoring wells, vents, and other appurtenances, and any other problems with the landfill cap identified during any inspection or site visit are reported to MassDEP within 24 hours of discovery. Such problems shall be evaluated and appropriately repaired within 7 days of discovery or in accordance with an alternative schedule approved by MassDEP.
- 29. At the completion of the use of the solar farm the following actions shall be taken.
  - a. All panels, racks, concrete blocks located on the landfill cap, and exposed conduits shall be removed and sealed.
  - b. Buried conduits may remain provide they are cut off below grade and permanently plugged.
  - c. Landfill grades shall be restored and vegetative support layer shall be replaced/ repaired as necessary.
  - d. All disturbed areas except for gravel road surfaces shall be reseeded.
  - e. Vegetation shall be established and maintained.

# D. SUBMITTALS

- 30. Submittals required by this Permit include but are not limited to the following:
  - a. The Construction Engineer's monthly construction report required by condition 10 of this Permit:
  - b. Construction schedule as required by condition 6 of this Permit;
  - c. Project personnel list and their contact information and changes in accordance with condition 7 of this Permit:
  - d. Construction Completion Report in accordance with condition 10e of this Permit and 310 CMR 19.107;
  - e. Health and Safety plan in accordance with condition 11 & 12 of this Permit.
  - f. Wheel loading protocol in accordance with condition 17 of this Permit; and
  - g. Quarterly Landfill/solar farm inspection reports in accordance with 310 CMR 19.018 and condition 27 of this Permit.

- 31. All submittals to MassDEP shall be certified in accordance with 310 CMR 19.011 <u>Certification and Engineer's Supervision</u> which requires:
  - (1) Signatories and General Certification. Any application for a permit, authorization to construct, authorization to operate, permit modification, and any determination, certification, report and any other document submitted to the Department pursuant to 310 CMR 19.000, shall be signed by the appropriate responsible official. Any person required by 310 CMR 19.000 or any order or other enforcement document issued by the Department, to submit any document to the Department shall identify himself or herself by name, profession, and relationship to the applicant and legal interest in the facility, and make the following statements:
    - I, [name of responsible official], attest under the pains and penalties of perjury that: (a) I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this certification statement:
    - (b) based on my inquiry of those persons responsible for obtaining the information, the information contained in this submittal is, to the best of my knowledge, true, accurate, and complete;
    - (c) I am fully authorized to bind the entity required to submit these documents and to make this attestation on behalf of such entity; and
    - (d) I am aware that there are significant penalties, including, but not limited to, possible administrative and civil penalties for submitting false, inaccurate, or incomplete information and possible fines and imprisonment for knowingly submitting false, inaccurate, or incomplete information; and
    - (e) (for a responsible official submitting a third-party inspection report pursuant to 310 CMR 19.018(8)(b)1.) The facility [name of facility] provided any information required by 310 CMR 19.018 and requested by the third-party inspector in a timely fashion and any employee or contractor of [name of facility] did not unduly influence the third-party inspector; and
    - (f) (for a responsible official submitting a transfer station certification pursuant to 19.035(4)):
      - 1. I have accurately stated whether the transfer station is in compliance with its permit and all other applicable requirements in 310 CMR 16.00: Site Assignment Regulations for Solid Waste Facilities and 19.000 including, but not limited to, 310 CMR 19.043;
      - 2.I have accurately identified any and all violations of 310 CMR 16.00: Site Assignment Regulations for Solid Waste Facilities or 19.000 or the terms and conditions of any permits or other approvals issued thereunder by the Department;
      - 3. If the transfer station is not in compliance, I have stated what the owner and operator will do to return the transfer station to compliance and the date by which
      - compliance will be achieved; and,
      - 4. Plans and procedures to maintain compliance are in place at the transfer station and will be maintained even if processes or operating procedures are changed.

- (2) Engineering Supervision. 310 CMR 19.011(2) does not apply to any documents submitted to the Department pursuant to 310 CMR 19.018. All papers pertaining to design, construction, operation, maintenance, or engineering of a site or a facility shall be completed under the supervision of a Massachusetts registered professional engineer knowledgeable in solid waste facility design, construction and operation and shall bear the seal, signature and discipline of said engineer. The soils, geology, air modeling, air monitoring and groundwater sections of an application or monitoring report shall be completed by competent professionals experienced in the fields of soil science and soil engineering, geology, air modeling, air monitoring and groundwater, respectively, under the supervision of a Massachusetts registered professional engineer. All mapping and surveying shall be completed by a registered surveyor.
- 32. Unless otherwise directed herein, all submissions required pursuant to this permit shall be sent to:
  Section Chief, Solid Waste Management
  Department of Environmental Protection
  436 Dwight Street
  Springfield, MA 01103

# E. STANDARD CONDITIONS

- 33. This post-closure use permit shall be valid <u>for a period of thirty (30)</u> years from the date of this <u>permit</u>, provided that MassDEP may amend the term of the permit in accordance with an approved modification pursuant to either 310 CMR 19.032 or 19.033.
- 34. If construction of the solar panel installation has not been completed within three years of the date of issuance of this Permit, this Permit shall expire. The Permittee may apply to the MassDEP for an extension of the Permit at any time prior to or after it expires.
- 35. If the Operator intends to operate the Solar Farm after the expiration of this permit, the Permittee is required to submit a request for a renewal of the permit at least 90 days prior to the expiration of the permit.
- 36. If the Permittee intends to transfer this permit to any other entity for operation of the Solar Farm, the requirements at 310 CMR 19.044, <u>Transfer of Permits</u>, shall be satisfactorily completed. The notification shall be submitted on an application form for a BWPSW49 Permit Transfer Certification with transmittal form and the applicable filing fee.
- 37. If the Permittee or Operator discontinues operation of the Solar Farm, the Permittee and the Operator are responsible to perform decommissioning activities as outlined in the permit application, including removal of the solar array equipment, ballasts, and associated leveling pads.
- 38. This permit is issued subject to the conditions of joint liability of the Permittee, the Owner and the Operator in accordance with 310 CMR 19.043(3).
- 39. The Permittee, Owners, Operators their contractors and subcontractors and the Construction Engineer

shall be considered Operators with respect to the construction of the Solar Farm and compliance with plans and specifications. The Permittee shall also be considered an operator during the operational life and decommissioning of the Solar Farm. As such, MassDEP may take enforcement action against the Permittee, Owners, Operators or the Construction Engineer, consistent with its authority under applicable Massachusetts law and regulation, for any failure to construct the Solar Farm in accordance with approved plans and specifications of which the Permittee or the Engineer were, or should have been, aware. 310 CMR 19.006, defines "Operator" as:

<u>"Operator"</u> means any person who has care, charge or control of a facility subject to 310 CMR 19.000, including without limitation, an agent, lessee of the owner or an independent contractor."

40. The Permittee, the Owners, the Operators, the Contractor(s), and subcontractors shall comply with 310 CMR 19.015 Compliance, which states:

"No person shall construct, modify, operate or maintain a facility except in compliance with a site assignment, permit or plan approved by the board of health or the Department, as applicable, and any authorizations issued by the Department and all conditions included in a permit, approval or authorization for said facility."

- 41. The Applicant in this permit application seeks no variances from any applicable regulations.
- 42. This approval pertains only to the Solid Waste Management aspects of the proposal and does not negate the responsibilities of the Permittee, Owners, Operators or Contractors to comply with any other local, state or federal laws, statutes and regulations or enforcement actions, including orders issued by another agency now or in the future. Nor does this approval limit the liability of owners, operators or otherwise legally responsible parties from any other applicable laws, statutes or regulations now or in the future.
- 43. MassDEP and its agents and employees shall have the right to enter upon the Landfill at all reasonable times, to inspect the landfill and any equipment, structure or land located thereon, take samples, recover materials or discharges, have access to and photocopy records, to perform tests and to otherwise monitor compliance with this Permit and all environmental laws and regulations. This right of entry and inspection shall be in addition to MassDEP's access authorities and rights under applicable federal and states laws and regulations, as well as any permits or other agreements between the Permittee and MassDEP.
- 44. MassDEP reserves the right to require additional or increased monitoring or maintenance activities in the event that the post-closure use is or may be having a detrimental effect on the landfill cap or appurtenances. MassDEP reserves all rights to suspend, modify or rescind this permit, should the conditions of this permit not be met, should the Solar Farm create nuisance conditions or threats to public health, safety or the environment, or should MassDEP otherwise determine that continued post-closure use is negatively impacting the landfill cap or appurtenances.
- 45. Unless otherwise directed herein, all submissions required pursuant to this permit shall be sent to:

# Section Chief, Solid Waste Management Department of Environmental Protection 436 Dwight Street Springfield, MA 01103

- 46. Compliance with submissions required pursuant to this approval shall be determined by the date of receipt by MassDEP or by the postmarked date, whichever is earlier.
- 47. All verbal notifications shall be followed by written notification within 48 hours of discovery.

This Permit is being issued as a Final Permit. Pursuant to 310 CMR 19.033(5):

- (a) Appeal. Any person aggrieved by the final permit decision, except as provided for under 310 CMR 19.033(4)(b), may file an appeal for judicial review of said permit decision in accordance with the provisions of M.G.L. c. 111, § 150A and M.G.L. c. 30A no later than 30 days following the date of issuance of the final permit decision to the applicant. The standing of a person to file an appeal and the procedures for filing such appeal shall be governed by the provisions of M.G.L. c. 30A. Unless the person requesting an appeal requests and is granted a stay of the terms and conditions of the final permit decision by a court of competent jurisdiction, the final permit decision shall be effective in accordance with 310 CMR 19.033(3).
- (b) Notice of Action. Any aggrieved person intending to appeal a final permit decision to the Superior Court shall first provide notice of intention to commence such action. Said notices of intention shall include the Department file number and shall identify with particularity the issues and reason why it is believed the final permit decision was not proper. Such notice shall be provided to the Office of General Counsel of the Department and the Regional Director for the regional office which processed the permit application, if applicable, at least five days prior to the filing of an appeal.
- (c) No allegation shall be made in any judicial appeal of a final permit decision unless the matter complained of was raised at the appropriate point in the administrative review procedures established in 310 CMR 19.000, provided that a matter may be raised upon a showing that it is material and that it was not reasonably possible with due diligence to have been raised during such procedures or that matter sought to be raised is of critical importance to the environmental impact of the permitted activity.

The MassDEP File Number for this Permit is 14-209-001. The appropriate addresses to which to send such notices are:

General Counsel
Department of Environmental Protection
One Winter Street
Boston, MA 02108

Michael J. Gorski Regional Director

# Department of Environmental Protection 436 Dwight Street Springfield, MA 01103

If you have any questions about this matter, please contact Charles Clines of this office at 413-755-2120.

Sincerely,

This final document copy is being provided to you electronically by the Department of Environmental Protection. A signed copy of this document is on file at the DEP office listed on the letterhead.

Daniel Hall

Section Chief, Solid Waste Management

DH/CAC/cac 2091modsolar.082514 Certified Mail 7011 3500 0000 8445 4967, Return Receipt

cc: Board of Health, City Hall, 10 Main Street, North Adams, MA 01247 Jaclyn Caceci, P.E., Tighe & Bond, Inc., 53 Southampton Road, Westfield, MA 01085 Scott Sargent, Borrego Solar System, Inc., 1115 Westford St., 2<sup>nd</sup> Floor, Lowell, MA 01851