**Appendix D**

**NH DES Requirements for Landfill Solar Arrays**

The following issues need to be addressed within a solid-waste, solar-panel application:

* Calculations which show how differential settlement will be avoided, including wind and snow loading. Applicants are cautioned to use conservative wind and snow factors that reflect recent climate trends.
* Any changes to run-off control due to the addition of the impervious solar panels. Again, conservative precipitation curves that reflect recent climate trends should be used.
* Design details clearly showing how the electric infrastructure is protected from landfill gas. Explosion-proof electric equipment will be used wherever feasible.
* Access road layout for construction, operation and on-going landfill maintenance. Existing access roads should be used whenever possible.
* How will mowing or other vegetation control be done after a photovoltaic installation is in place.
* Proper set-backs of all parts of a proposed photovoltaic installation from all access to the solid waste facility, existing gas or groundwater monitoring points, and any access points to a leachate control system. Ten feet in all directions is a minimum set-back, but the nature of these points should be assessed in the design to determine an appropriate set-back – consider what machinery might be required to do work at any of these points.
* How the installation will be removed at the end of its life.  Returning the site to pre-existing conditions will be required.

Also, municipal zoning and/or site plan review processes must be followed.

Vendor shall be responsible for NH DES application and permit approval for the municipal landfill.