UIL HOLDINGS CORPORATION

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203-499-2000

VIA ELECTRONIC MAIL AND HAND DELIVERY

March 9, 2015

Mr. Robert Stein
Chairman
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

Re: Petition No. 1104 - The United Illuminating Company Petition for a Declaratory Ruling that no Certificate of Environmental Compatibility and Public Need is Required for the Construction, Operation and Maintenance of a 2.2 MW AC Solar Photovoltaic Facility and a 2.8 MW AC Fuel Cell Facility on Seaside Landfill Located at 350 Waldemere Avenue, Bridgeport, Connecticut

Dear Chairman Stein:

I enclose an original and fifteen (15) copies of The United Illuminating Company's ("UI") responses to the Siting Council's February 24, 2015 interrogatories concerning UI's Development and Management Plan that was submitted to the Council on February 5, 2015.

Please do not hesitate to contact me should you have any questions concerning this filing.

Very truly yours,

Bruce L. McDermott
Managing Counsel – Operations
UIL Holdings Corporation
As Agent for The United Illuminating Company

cc: Service List

Q-CSC-DM-1: What is the status of the DEEP permit(s) necessary to work on the landfill cap? Is there an excavation plan associated with the permit(s). If so, please provide.

A-CSC-DM-1: Pursuant to Section 22a-209-97(u) of the Regulations of Connecticut State Agencies, an Authorization Application of Disruption of a Solid Waste Disposal Area was submitted the Department of Energy and Environmental Protection on October 23, 2014. Supplemental information was also submitted on December 3, 2014 and January 16, 2015. The application is still currently under review.

There is no specific excavation plan associated with the permit. Excavation limits are indicated on the detail drawings included in the D&M plan. All excavations will be performed under the supervision of the site engineer. Any excavation will be required to maintain a 3-inch separation between any concrete base material and the low permeability soil. A woven geotextile will provide a separation between these two layers.

Interrogatory CSC-DM-2

Q-CSC-DM-2: Page 8 of the D&M Plan states no landscaping will be installed on the landfill cap - is there any specific reason for not installing landscaping below the perimeter fence?

A-CSC-DM-2: The objective of installing landscaping below the perimeter fence is to reduce perceived visual impacts of the solar facilities from areas outside of the site. However, existing vegetation outside the fence offers adequate screening. In addition, plantings commonly used for screening purposes, such as bushes and trees, are not appropriate for use on a landfill cap.

Interrogatory CSC-DM-3

Q-CSC-DM-3: D&M Site Plan Sheet G-2, detail Shade Mix Seeding (within PV Development Area) – will the entire area within the solar field be hydro-mulched? If so, how does hydro-mulching relate to the language on page 4 of the D&M Plan regarding site clearing? If not, what locations or activities would require hydro-mulching?

A-CSC-DM-3: The entire solar field will not be hydro-mulched. It is expected that the majority of site clearing will involve trimming and will not disturb the existing grass cover. Disturbed areas outside of the PV development area will be hydro-mulched with a specified seed mix typically used on landfills for establishing a vegetative support layer. All disturbed areas within the PV development area will be hydro-mulched with a shade-tolerant seed mix. Areas within the array where hydro-mulching may not be appropriate will be spread manually.

Interrogatory CSC-DM-4

Q-CSC-DM-4: D&M Site Plan Sheet C-3 – the general locations of staging areas are shown on the plan. What type of equipment will be stored in these locations? Do the staging areas require temporary gravel pads? If so, provide pad details.

A-CSC-DM-4: Typical PV equipment, construction vehicles and equipment will be stored in the construction staging and laydown area. PV modules and racking equipment are expected to be staged on the landfill and spaced accordingly to allow for easy access and setup.

Larger equipment (e.g. inverters) will be delivered to the site on an as-needed basis. This will reduce the area of staging and laydown area required at the project site. Gravel pads are not anticipated to be required due to the storage of certain materials on the landfill and in the area shown on Sheet C-3.

Interrogatory CSC-DM-5

Q-CSC-DM-5: D&M Site Plan Sheet C-4 – What type of fill is specified for the wetland area? How will the fill be compacted prior to the solar installation?

A-CSC-DM-5: The wetland located on the landfill will have the existing vegetative support layer stripped, exposing the low permeability layer. This material will be stockpiled on-site, separated from the existing grade using plywood or plastic. Additional low permeability material will be added and compacted in 6-inch lifts to a height that allows for positive drainage. The stockpiled vegetative support material will be reused, compacted, and graded to match the existing surrounding grade. All work related to the landfill will be performed under the supervision of the on-site engineer and completed prior to the installation of the PV equipment within the immediate area. The area will be hydro-mulched .

Interrogatory CSC-DM-6

Q-CSC-DM-6: D&M Site Plan Sheet D-2 – in regards to the Culvert Crossing Detail, please indicate the locations of the culverts and provide pipe dimensions, and excavation and/or fill details.

A-CSC-DM-6: The Culvert Road Crossing locations have been identified on the revised C-4 Sheet (attached). A 12-inch ductile iron pipe is recommended. A 10:1 slope of dense graded material will be built up on either side of the culvert. A stone apron is recommended to reduce outlet velocity and concentration of run-off.

Q-CSC-DM-7: D&M Site Plan Sheet D-2 –

a) Provide the dimensions/weight for the above ground cable tray and conduit supports.
b) What are the dimensions of the proposed inverter pads? What is the excavation depth?
c) What type of fence post mount will be used? If not known, what study is necessary before determining the type of mount?
d) When will the panel and racking manufacturer be selected? Does the manufacturer specify the ballast size? What is the approximate size of each ballast?

A-CSC-DM-7: a) The cable tray and conduit will utilize a minimum 16” x 8” support block. These will have a maximum weight of 75 pounds.

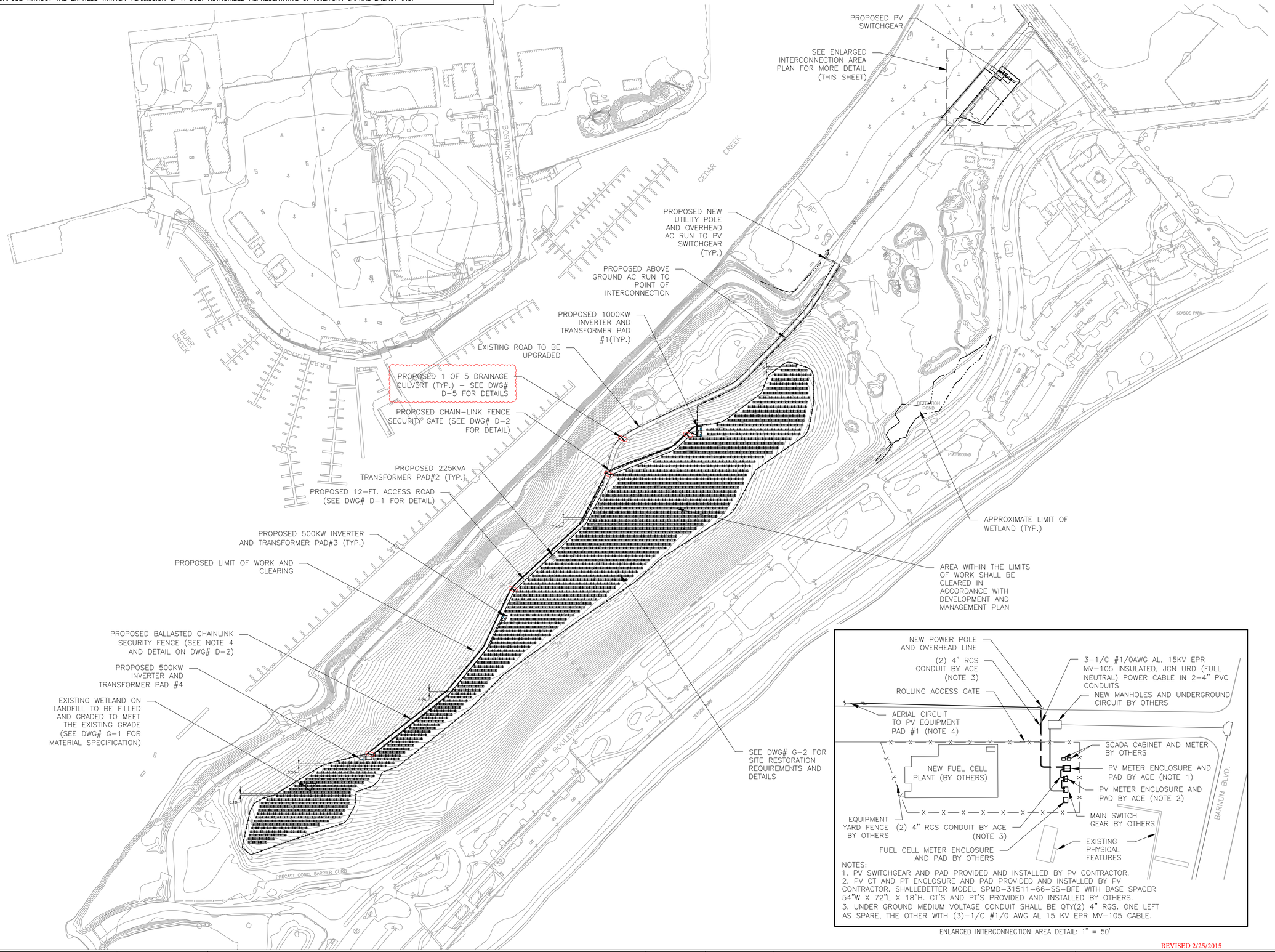
b) There are four proposed equipment pads on the landfill cap. The approximate dimensions of each pad are:

1. 34’ x 15’ x 0.833’
2. 16’ x 13’ x 0.833’
3. 15’ x 21’ x 0.833’
4. 15’ x 21’ x 0.833’

The maximum excavation depth for the equipment pads is 9 inches from grade, or 3 inches from the bottom of the vegetative support layer.

c) The fence posts will be embedded into concrete support blocks. These blocks have been designed by a Connecticut licensed engineer specifically for the site and have dimensions of 6’x2’x1’.

d) The solar panels selected for this site are JA Solar 310W polycrystalline modules. The racking manufacturer is GameChange Racking. They utilize a pour-in-place ballast system utilizing an oval tub that has a footprint of approximately 1,233.34 in2. The tub has an approximate top dimension of 77.89” x 24.54” and an approximate bottom dimension of 72” x 18”. The approximate tub heights are 14” tall and 21” tall, depending on the location in the solar array.



ENLARGED INTERCONNECTION AREA DETAIL: 1" = 50'

NOTES:

1. NOMINAL SIZE OF PV SYSTEM IS 2.6505 MW DC USING QTY (8550) BYD 310W MODULES MOUNTED ON BALLASTED RACKING SYSTEM.
2. FINAL COMPONENTS AND CONFIGURATION ARE SUBJECT TO CHANGE.
3. PROPOSED PV SYSTEM LAYOUT BASED ON 20° TILT ANGLE AT 180° AZIMUTH. ROW SPACING AS SHOWN. SYSTEM DESIGNED FOR NO INTER–ROW SHADING BETWEEN APPROXIMATELY HOURS OF 9 AM AND 3 PM ON DECEMBER 21.
4. FENCE TO BE 3' FROM PV LIMITS OF CONSTRUCTION

PERMIT SET

150 75 0 150 300
SCALE: 1" = 150'

REVISED 2/25/2015

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DRAWN BY	APPROVED BY	DESCRIPTION
JRS	DM	PROPOSED DEVELOPMENT PLAN
DATE		
09/04/14		

UI SEASIDE LANDFILL - BRIDGEPORT, CT
GROUND MOUNTED SOLAR ARRAY
PROPOSED DEVELOPMENT PLAN

DWG #: C-4
REV 0.3