

***PJM Generator Interconnection  
U2-29 Passyunk 1.3 MW (Energy)  
Feasibility Study***

**October 2008**

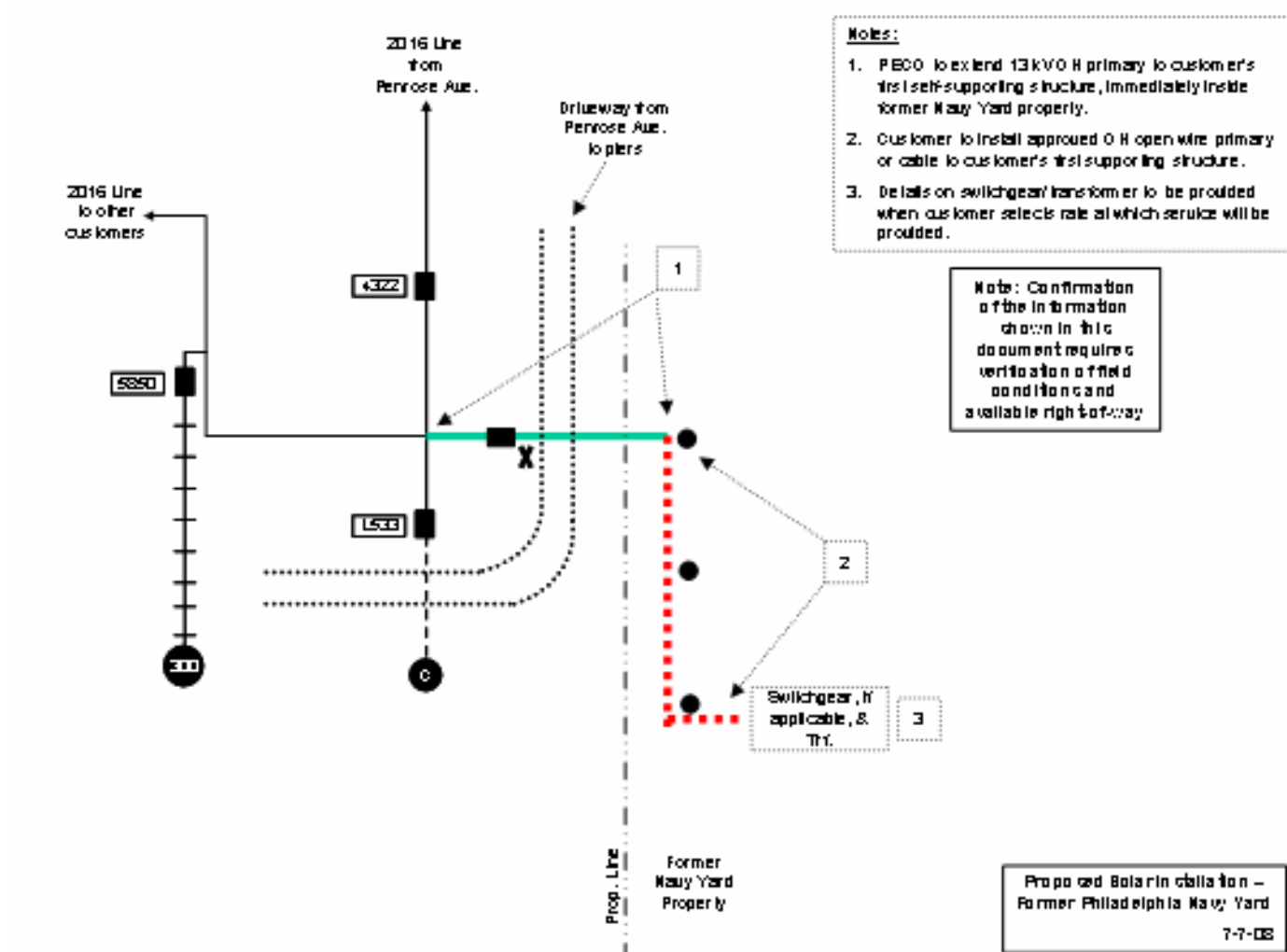
*DMS # 507667*

## General

Queue U2-029 is an Epuron, LLC request to interconnect a 1.3 MW (Energy-only) Solar Photovoltaic generation resource to be located at a site known as “Girard Point” (former US Navy Yard property) in Philadelphia, Pennsylvania. Epuron has requested a 4Q 2008 in-service date.

## Direct Connection Requirements

Queue U2-029 can be connected to PECO Energy 12 kV distribution circuit #2016 from Passyunk substation as shown below.



**Note:** Queue U2-029 proposed connection to Passyunk #2016 line (distribution circuit) is a PJM non-jurisdictional interconnection under the PJM Open Access Transmission Tariff. The determination of Direct Connection requirements and the agreement to interconnect (Interconnection Agreement) will be under PECO Energy jurisdiction.

## ***Network Impacts***

Queue U2-029 was studied as a 1.3 MW (energy) injection into the Passyunk line #2016. Project U2-029 was evaluated for compliance with reliability criteria for summer peak conditions in 2012. Network impacts were as follows:

### **Multiple Facility Contingency**

*(Double Circuit Tower Line contingencies only for the full energy output. Stuck breaker and bus fault contingencies will be performed for the Impact Study)*

None identified.

### **Contribution to Previously Identified Overloads**

*(This project contributes to the following contingency overloads, i.e. "Network Impacts", identified for earlier generation or transmission interconnection projects in the PJM Queue)*

None identified.

### **Short Circuit**

No problems identified.

### **Stability Analysis**

Not required because of size and Point of Interconnection voltage.

### **New System Reinforcements**

*(Upgrades required to mitigate reliability criteria violations, i.e. "Network Impacts", initially caused by the addition of this project generation)*

None

### **Contribution to Previously Identified System Reinforcements**

*(Overloads initially caused by prior Queue positions with additional contribution to overloading by this project. This project may have a % allocation cost responsibility which will be calculated and reported for the Impact Study)*

None identified.