

### 3. SERVICES AVAILABLE

*NOTE: Any reference in this section to Figures 8.xx or 12.xx can be found in Sections 8 or 12 of the Blue Book, titled "Metering" & "Illustrations" respectively.*

#### 3.1 FREQUENCY

The Company supplies alternating current only at a nominal frequency of 60 hertz.

#### 3.2 LOCATION OF SERVICE

Before proceeding with any work that involves the installation or relocation of Company meters and/or service connections, the Customer must file an "Application for Electric Service and Meter" (Company Form M-24175) with the PECO office for the region in which the work is to be performed.

As per Tariff Rule 3.3 (Point of Delivery), PECO will designate in writing, upon request, a satisfactory point of delivery where the customer shall terminate the wiring and facilities for connection to the distribution lines of the Company. The failure to request and obtain such location may result in refusal of service pending rearrangement of customer's facilities, but the designation of a point of delivery does not constitute an agreement or obligation on the part of the Company to furnish service. In establishing a point of delivery, the Company has the right to avoid areas known or suspected to contain contamination, waste or hazardous materials or other adverse environmental conditions. The customer will have the option of extending its own facilities to the Company's point of service delivery.

#### 3.3 AVAILABILITY OF SERVICE

***Not all service voltages are available in all areas. Before purchasing electrical equipment or proceeding with any wiring, the Customer should obtain information regarding the types of service available in that area from the Company.***

#### 3.4 STANDARD SECONDARY SERVICES AND LIMITATIONS

##### 3.4.1 Single Point Delivery

The Company will provide standard distribution and/or supply through a single delivery and metering point for the total requirements at each separate premises of the contracting Customer except where, in the Company's sole judgment, special conditions warrant the installation of additional facilities. Unless otherwise stated, the rate named in the Tariff for each class of service are based upon that standard. Separate distribution and/or supply for the same Customer at other points of consumption shall be separately metered and billed.

##### 3.4.2 Single-Phase

Single-phase secondary service is available for loads up to 150 kVA in accordance with Tariff Rule 2.5. Loads in excess of this amount will be supplied by a polyphase service.

For residential services, each dwelling unit connected after May 10, 1980 (except those dwelling units under construction or under written contract for construction as of that date) must be individually metered. When the Company provides a single metered

service, which supplies multiple dwelling units through the landlord's electrical facilities, the landlord is responsible for metering each unit's service individually.

<u>Nominal Voltage</u>	<u>Wires</u>	<u>Comments</u>
120	2	For installations with not more than two 15-ampere branch circuits
120/240	3	
120/208	3	For residential service where available in conjunction with standard 120/208 volt, 3-phase, 4-wire polyphase secondary

### 3.4.3 Polyphase

Polyphase service is not available for installations aggregating less than 7-1/2 horsepower, unless the excess cost of the Company providing polyphase rather than single-phase service is borne by the Customer.

The Company will provide standard service to customer premises containing multiple buildings in accordance with Tariff Rule 2.2 and Section 3.4.1. above (Single-Point Delivery), except as noted in the table below. For purposes of determining service capacity and parallel-generating capacity limits, a building is defined as a structure, separated from other structures, or a portion of a contiguous structure separated from its remainder by approved firewalls.

**NOTE:** The Company will not install, own, or maintain any conductors inside or beneath a building.

**NOTE:** The Company will not install indoor transformation in areas supplied by or designated to be supplied at 33,000 volts or greater.

<u>Phases</u>	<u>Nominal Voltage</u>	<u>Wires</u>	<u>Comments</u>
2	120/240	5	Limited to maximum service capacity of 100 kVA.  Only available in areas supplied by two-phase distribution facilities located along public highways or private rights-of-way.
3	240	3 with ground	Where the demand to a single premises exceeds 100 kVA, transformers will be installed on the premises at a suitable location provided by the owner.  Service capacity is limited to 300 kVA for transformers located inside the building and to 500 kVA for transformers located outside the building.  <b>CAUTION in areas supplied by 33kV:</b> <u>Padmount transformers will supply 240Y/139 volt service. NOT recommended for single-phase load.</u>

<u>Phases</u>	<u>Nominal Voltage</u>	<u>Wires</u>	<u>Comments</u>
3	240/120	4	<p>The Company will extend a fourth wire neutral to supply 120/240 volt single-phase equipment in combination with this service. Service capacity per phase will not exceed 15 kVA.</p> <p>See Fig. 8.08</p> <p><b>CAUTION:</b> Limited to maximum of 100 kVA in areas supplied by 33kV. See Figure 8.20.</p>
3	208Y/120	4	<p>Intended for exclusive supply to a building or group of contiguous buildings. Available where accessible to grounded three-phase primary.</p> <p>Transformers and secondary will be installed on the Customer's premises at a suitable location provided by the owner. (The Company at its discretion may provide service from aerial distribution facilities located along public highways when no suitable transformer location is available on the premises and demand does not exceed 100 kVA.)</p> <p>Service capacity at this secondary voltage is limited to 750 kVA. If capacity exceeds this limit for transformers located inside the building, then the customer must take Standard High-Tension Service (see section 3.5 below). If capacity exceeds this limit but remains at or below 1,500 kVA for transformers located outside the building, then the customer can request either a 480Y/277v service, provided a padmounted transformer can be installed outside the building, or a Standard High-Tension Service (see section 3.5 below).</p> <p>See Fig 8.08</p>
3	480Y/277	4	<p>Intended for exclusive supply to a building or group of contiguous buildings. Available where accessible to grounded three-phase primary.</p> <p>Transformers and secondary will be installed on the Customer's premises at a suitable location provided by the owner.</p> <p>Service capacity at this secondary voltage is limited to 750 kVA for transformers located inside the building and to 1500 kVA for transformers located outside the building. If capacity exceeds these limits, then the customer must take Standard High-Tension Service (see section 3.5 below).</p> <p>See Fig. 8.21, 8.22, 8.23</p>

### **3.5 STANDARD HIGH TENSION SERVICES**

All standard high-tension service available from the Company is three-phase primary. Where two or more standard voltages are present in a given area, the Company will select the voltage at which the required service can be supplied most economically.

**NOTE:** Customers requiring service with nominal voltages of 208Y/120v or 480Y/277v, who require transformation in excess of the secondary service limits specified above in Section 3.4, must take Standard High-Tension Service.

<u>Nominal Voltage</u>	<u>Wires</u>	<u>Comments</u>
13,200	3 or 4	If demand exceeds 7000 kW, the owner may be required to provide a suitable location on the premises for installation of Company transformation equipment.
33,000	3 or 4 (Consult Company for 4-wire availability)	See Figure 12.38 If demand exceeds 7000 kW, the owner may be required to provide a suitable location on the premises for installation of Company transformation equipment.
69,000	3	
138,000	3	
230,000	3	

### **3.6 TEMPORARY SERVICE**

#### **3.6.1 Term**

The Company will supply a temporary service to be used for a limited period of time or to supply a service of doubtful permanency. An example is a service to a builder at a construction site. A temporary service will be supplied only when the Company has available distribution facilities with sufficient capacity and if the provision of service will not in any way interfere with service to other Customers. The Company will install and remove the facilities and make connection to the Customer's service point. All temporary contracts shall be in accordance with the Tariff requirements and the Company shall be consulted beforehand.

#### **3.6.2 Charges**

The cost of the connection and disconnection of the service supply and of any equipment and extension of facilities required to furnish the temporary service shall be paid by the Customer, but such payment shall not confer upon, nor entitle the Customer to any title to, or right of property in, such facilities and equipment.