

<p><b>Newmarket-Tay Power Distribution Ltd.</b></p> <p><b>Conditions of Service</b></p>	<p><b>Number:</b> NT POWERCOS-230-04</p> <p><b>Issue Date:</b> July, 2007</p> <p><b>Next Review Date:</b> November, 2008</p>
<p><b>Standard Voltage Offerings</b></p>	

**1. Preamble**

Newmarket-Tay Power Distribution Ltd. (NT POWER) provides various voltages to *Consumers* based on their supply requirements and availability. This section outlines both the primary and secondary voltages that are available.

**2. Primary Voltage**

The primary voltage to be used will be determined by NT POWER for both NT POWER owned and *Consumer-owned substations*. The primary voltage will be 44,000V, delta, three phase, three-wire system, **or** 13,800/8000V, grounded wye, three phase, four-wire system in the Newmarket service area and 8,320/4800V, grounded wye, three phase, four-wire system in the Tay service area.

*Electrical services* with capacity rated at 500 KVA or less are serviced from the 13.8KV system or 8.32KV system, as appropriate. *Electrical services* with capacity rated greater than 500 KVA are fed from the 44 KV system and require a *Consumer-owned substation*.

**3. Secondary Voltage**

13.8 KV and 8.32KV Distribution Systems

Secondary voltages will normally be 120/240V single phase, 120/208V three phase, **or** 600/347V, three phase.

44 KV Distribution System

Secondary voltage will normally be 120/208V **or** 600/347V three phase, four wire wye.

**4. Limit of Supply**

The actual voltage to be used governs the limit of supply capacity for any *Consumer*.

#### 4.1 13.8 KV and 8.32KV Distribution Systems - Overhead

General guidelines for supply from existing 13.8 KV overhead street circuits are as follows:

- (i) 120/240V, single phase, up to 75 kVA *demand* load, or
- (ii) 600/347V, three phase, four wire up to 80 kVA *demand* load, or
- (iii) at both 120/240V, single phase, and 600/347V, three phase, up to 100 kVA sum total *demand* load, or
- (iv) 208/120V, three phase, up to 100 kVA *demand* load,

New or upgraded *electrical services* that cannot be adequately serviced from existing overhead transformer banks must be serviced underground.

#### 4.2 13.8 KV and 8.32KV Distribution Systems – Underground (Site Specific)

Where a site specific transformer exist or is planned on *private property*;

- (i) 120/240V, single phase, supply is available up to 167 kVA *demand* load, or
- (ii) 208/120V, three phase, four wire, supply is available for loads up to 500 kVA *demand* load, or
- (iii) 600/347V, three-phase, four-wire, supply is available for loads up to 500 kVA *demand* load,

#### 4.3 13.8 KV and 8.32KV Distribution Systems - Underground (Public Property)

Where a transformer for common servicing is located on public property, 120/240V, single phase, supply is available up to 100 kVA *demand* load.

#### 4.4 44 KV Distribution System

Services rated at greater than 500 kVA *demand* load and less than 30 MVA shall require a 44KV *Consumer-owned substation*.

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