

Newmarket-Tay Power Distribution Ltd. Conditions of Service	Number:	NT POWER COS-230-05
	Issue Date:	July, 2007
Voltage Guidelines	Next Review Date:	February, 2020

1. Preamble

Newmarket-Tay Power Distribution Ltd. (NT POWER) endeavors to supply a constant, stable *supply voltage* from its *distribution system*. The *Canadian Standards Association (CSA)* provides guidelines for *supply voltage* variation limits.

2. Voltage Criteria

NT POWER maintains *supply voltage* at the *Consumer's* service entrance within the guidelines of CSA Standard CAN3-C235-83 (latest edition) Table 3, which allows variations from nominal voltage of:

Nominal Voltage	Voltage Variation Limits			
	Extreme Conditions	Normal Conditions		Extreme Conditions
		Normal Conditions	Normal Conditions	
Single Phase				
120/240	106/212	110/220	125/250	127/254
240	212	220	250	254
480	424	440	500	508
600	530	550	625	635
Three Phase 4w				
120/208	110/190	112/194	125/216	127/220
240/416	220/380	224/388	250/432	254/440
277/480	245/424	254/440	288/500	293/508
347/600	306/530	318/550	360/625	367/635
Three Phase 3w				
240	212	220	250	254
480	424	440	500	508
600	530	550	625	635

Where *supply voltages* lie outside the indicated limits for *normal operating conditions* but within the indicated limits for *extreme operating conditions*, improvement or corrective action should be taken on a planned and programmed basis. Where *supply voltages* lie outside the indicated limits for *extreme operating conditions*, improvement or corrective action should be taken as soon as practical. The urgency for such action will depend on many factors such as the location and nature of load

or circuit involved, the extent to which limits are exceeded with respect to *supply voltage* levels and duration, etc.

NT POWER shall practice reasonable diligence in maintaining *supply voltage* levels, but is not responsible for variations in voltage from external forces such as operating contingencies, exceptionally high loads and low voltage supply from the *transmitter*. NT POWER shall not be liable for any delay or failure in the performance of any of its obligations under this *Conditions of Service* document due to any events or causes beyond the reasonable control of NT POWER, including, without limitation, items indicated in the Force Majeure defined in NT POWERCOS-230-03, Electrical Disturbances.

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