HYDRO OTTAWA

CONDITIONS OF SERVICE (Version 6)

APPENDIX F

Table A – Underground Primary Service Connection – Overhead Primary Line (Radial, Dual Radial and Loop)

Table B – Underground Primary Service Connection – Underground Feeder (Loop)

Appendix F: Table A – Underground Primary Service Connection – Overhead Primary Line (Radial, Dual Radial and Loop)

	4.16 ^{GW}	8.32 ^{GW}	13.2 ^{GW}	13.2 ^Δ	27.6 ^{GW}	44 ^Δ	
Maximum 3∅ Primary Circuit Service Entrance Supply (kVA)	300 (Note 1)	1,000 (Note 1)	1,500 (Note 1)	8,000 (Note 1)	9,000 (Note 1)	15,000 (Note 1)	
Maximum 1∅ Primary Circuit Service Entrance Supply (kVA) (Note 8)	100	167	167	N/A	167	N/A	
Type of Supply (radial, dual radial or looped) (Note 3)	Radial	Radial	Radial	Dual Radial/ Loop	Radial/ Loop	Radial	Secondary Voltage (V)
Max Size of Hydro Ottawa Supplied 3Ø Vault Transformer Bank per	300	1,000	1,500	1,500	750	N/A (Note 5)	120/208 (Note 9)
Customer per Primary Circuit (kVA) (Note 1, 5, 6, 7 & 11)	300	1,000	1,500	4,500	2,250	N/A (Note 5)	347/600
Max Size of Hydro Ottawa Supplied 1Ø Vault Transformer per Customer per Primary Circuit (kVA) (Note 5, 7 & 8)	100	167	167	N/A	167	N/A	120/240
Max Size of Hydro Ottawa Supplied 3 Ø Pad-mounted Transformer per Customer per Primary Circuit (kVA) (Note 1, 4, 5, 7 & 11)	300	500	500	N/A	500	N/A (Note 5)	120/208 (Note 9)
	300	1,000	1,500	N/A	2,500		347/600
Max Size of Hydro Ottawa Supplied 1Ø Pad-mounted Transformer per Customer per Primary Circuit (kVA) (Note 4, 5, 7 & 8)	100	167	167	N/A	167	N/A	120/240

Notes:

- 1. The provision of three-phase Service from an overhead feeder shall only be allowed in areas where the Distribution System can accommodate the proposed Service. Contact Hydro Ottawa to discuss your requirements.
- 2. GW = 4 wire grounded wye primary configuration and Δ = 3 wire delta primary configuration.
- 3. Dual radial and loop supplies are defined as two supplies to one or more devices.
- 4. Availability of pad-mounted transformers is restricted within specific areas of the urban core.
- 5. The Customer shall own non-Hydro Ottawa standard size transformers.
- 6. For installations greater than the maximum vault bank specified, multiple banks are required.
- 7. A Hydro Ottawa owned sectionalizing protection device (fused switch/switchgear) must be installed prior to transformation equipment.
- 8. Up to a maximum of 100% rated 600A @ 120/240V for a single Service entrance main switch supplied from a pad-mounted transformer.
- 9. 120/208V primary service connections are limited to pad-mounted and vault transformer configurations.
- Maximum motor size for starting current on each primary circuit is determined by Hydro Ottawa Power Quality Guideline ECG0008 (applicable to each Service).
- 11. Three-phase pad-mounted and vault transformers are only available on customer property.

Appendix F: Table B – Underground Primary Service Connection – Underground Feeder (Loop)

	4.16 ^{GW}	8.32 ^{GW}	13.2 ^{GW}	13.2 ^Δ	27.6 ^{GW}	
Maximum 3∅ Primary Circuit Service Entrance Supply (kVA)	300 (Note 1)	1,000 (Note 1)	1,500 (Note 1)	8,000 (Note 1)	9,000 (Note 1)	
Maximum 1∅ Primary Circuit Service Entrance Supply (kVA) (Note 8)	100	167	167	N/A	167	_
Type of Supply (radial, dual radial or looped) (Note 3)	Loop	Loop	Loop	Loop	Loop	Secondary Voltage (V)
Max Size of Hydro Ottawa Supplied 3 Ø Vault Transformer Bank per Customer per Primary Circuit (kVA) (Note 1, 5, 6, 7 & 11)	300	1,000	1,500	1,500	750	120/208 (Note 9)
	300	1,000	1,500	4,500	2,250	347/600
Max Size of Hydro Ottawa Supplied 1Ø Vault Transformer per Customer per Primary Circuit (kVA) (Note 5, 7 & 8)	100	167	167	N/A	167	120/240
Max Size of Hydro Ottawa Supplied 3 Ø Pad-mounted Transformer per Customer per Primary Circuit (kVA) (Note 1, 4, 5, 7 & 11)	300	500	500	N/A	500	120/208 (Note 9)
	300	1,000	1,500	N/A	2,500	347/600
Max Size of Hydro Ottawa Supplied 1 Ø Pad-mounted Transformer per Customer per Primary Circuit (kVA) (Note 4, 5, 7, & 8)	100	167	167	N/A	167	120/240

Notes:

- 1. The provision of three-phase Service from an underground feeder shall only be allowed in areas where the Distribution System can accommodate the proposed Service. Contact Hydro Ottawa to discuss your requirements.
- 2. GW = 4 wire grounded wye primary configuration and Δ = 3 wire delta primary configuration.
- 3. Dual radial and loop supplies are defined as two supplies to one or more devices.
- 4. Availability of pad-mounted transformers is restricted within specific areas of the urban core.
- 5. The Customer shall own non-Hydro Ottawa standard size transformers.
- 6. For installations greater than the maximum vault bank specified, multiple banks are required.
- 7. A Hydro Ottawa owned sectionalizing protection device (fused switch/switchgear) must be installed prior to transformation equipment.
- 8. Up to a maximum of 100% rated 600A @ 120/240V for a single Service entrance main switch supplied from a pad-mounted transformer.
- 9. 120/208V primary service connections are limited to pad-mounted and vault transformer configurations.
- Maximum motor size for starting current on each primary circuit is determined by Hydro Ottawa Power Quality Guideline ECG0008 (applicable to each Service).
- 11. Three-phase pad-mounted and vault transformers are only available on customer property.