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Section 1: Introduction

This Guide provides information on how to apply for an electrical inspection and determine the associated fees. The Electrical Safety Authority (ESA) is the only company with the authority under provincial legislation to perform electrical inspection services in Ontario.

To protect the public, electrical inspections are required by provincial legislation through the Ontario Electrical Safety Code (OESC) for any electrical installation performed by an electrical contractor or other person in Ontario.

1.1 Provincial Electrical Contractor Licensing

Part VIII of the Electricity Act requires a party to hold an electrical contractor licence issued by the Electrical Contractor Registration Agency of the Electrical Safety Authority (ECRA/ESA) in order to operate an electrical contracting business in the Province of Ontario.

To submit an Application for Inspection as required by the OESC, you are required to hold the appropriate ECRA/ESA Licence unless you fall within an exemption as listed in Section 2 of the Regulation.

For more information on Contractor Licensing requirements, visit our website www.esasafe.com or contact our Customer Service Centre at 1-877-ESA-SAFE (372-7233).

A copy of the OESC book can be obtained by calling CSA Group at 1-800-463-6727 or online at www.csagroup.org/oesc.

Download a copy of the Electrical Inspection Fee Guide by visiting www.esasafe.com.

1.2 Arranging for an Electrical Inspection

- (1) Visit ESA's website at www.esasafe.com to obtain the applicable Application for Inspection form; or contact our Customer Service Centre at 1-877-ESA-SAFE (1-877-372-7233) to speak with a customer service representative.
- (2) Ensure your ESA account number is on all applications; call 1-877-ESA-SAFE (372-7233) if you would like to set up an ESA account.
- (3) Submit completed Applications for Inspection to the Customer Service Centre by:

Fax: 1-800-667-4290

Email: esa.cambridge@electricalsafety.on.ca

Mail: Electrical Safety Authority
Customer Service Centre
400 Sheldon Dr, Unit 1
Cambridge ON N1T 2H9

1.3 Online Application Service

ESA offers an online service for account customers to file Applications for Inspection electronically, check the status of notifications, view defects, reprint correspondence, re-schedule notifications and pay invoices and account balances. Refer to ESA's website at www.esasafe.com for more information or contact our Customer Service Centre at 1-877-ESA-SAFE (372-7233) to create a profile to access and use the online system.

Note: The application and fee estimate may require adjustments to ensure the complete installation and number of electrical devices are reflected and inspected. Additional cost recovery fees may apply.

1.4 Plan Review

For information regarding plan reviews, visit the ESA website at www.esasafe.com or contact our Plan Review department and/or forward your request by:

Phone: 1-800-746-6480

Mail: Plan Review Department
400 Sheldon Dr, Unit 11
Cambridge ON N1T 2H9

1.5 Authorized Contractor Program

ESA offers an Authorized Contractor Program (ACP) to eligible licensed electrical contractors and qualified installers for specific installations within the industry sectors: Residential HVAC; Residential – New and Renovations; Apartments – Renovation (single unit) or Common Areas Only; Commercial/Industrial – Renovations; Pole Line Maintenance; and Substation Maintenance. For more information, visit the ESA website at www.esasafe.com (Contractors, ACP) or contact the ACP Office by:

Phone: 1-800-249-4583

Fax: 1-800-249-7667

Email: aop.office@electricalsafety.on.ca

Mail: ACP Department
400 Sheldon Dr, Unit 13
Cambridge ON N1T 2H9

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1.6 Continuous Safety Services

ESA offers a Continuous Safety Services (CSS) program to help customers in their efforts to provide electrically safe workplaces. Call 1-877-854-0079 for further information.

1.7 Mines and Mining Plants

ESA offers a number of services for Mines and Mining Plants to assist mining operations in meeting the specific electrical requirements mandated by Provincial Regulation. For additional information please contact our Mining Services Group by:

Phone: 1-866-646-3277

Email: esaminingservices@electricalsafety.on.ca

Website: www.esamining.com

1.8 Electrical and Safety Training

For information regarding ESA training workshops designed to offer guidance and clarification on electrical safety principles and safe work practices, visit the ESA website at www.esasafe.com or contact our Customer Service Centre at:

Phone: 1-877-372-7233

Email: esa.cambridge@electricalsafety.on.ca

Mail: Electrical Safety Authority
Customer Service Centre
400 Sheldon Dr, Unit 1
Cambridge ON N1T 2H9

Section 2: Inspection Application Guidelines

2.1 Minimum Fee

The minimum fee for an Application for Inspection of any wiring installation is \$79.

Fees marked with * are subject to the minimum fee if the total fee for the Application for Inspection is less than \$79.

2.2 Rounding up of Amounts

If a fee varies according to the number of hours spent performing a service, the actual time shall be rounded up to the nearest hour in calculating the fee. If a fee varies according to the number of multiples of a stated number of items or units, the actual number

shall be rounded up to the next multiple in calculating the fee.

2.3 Contractor Rates

In order to qualify for contractor rates for the purpose of the fee schedule:

An electrical contractor or electrical contracting business must have an account with ESA and hold a valid ECRA/ESA Contractor Licence as required by Part VIII of the Electricity Act.

Where a contractor or business is exempt from Part VIII of the Electricity Act, the individual performing the work must hold a valid Certificate of Qualification (C of Q) issued by the Ontario College of Trades (OCOT), the individual or business must have public liability and property damage insurance coverage of at least \$2,000,000 and must have an account with ESA.

Applications for Inspection with contractor rates can only be submitted for those electrical installations that the contractor or business is qualified to undertake as determined by their trade qualifications.

2.4 Non-Contractor Rates

If those undertaking electrical work do not meet either of the conditions stated in Section 2.3 above, then non-contractor rates will apply.

Non-contractor rates may differ from the contractor rates and are designated throughout the Fee Guide as “NC” or as otherwise noted.

2.5 Authorized Contractor Program

Certain fees in this schedule will be reduced for contractors who are registered to participate in the Authorized Contractor Program.

2.6 Inspection Working Hours

Electrical inspections are performed during normal working hours Monday to Friday (excluding statutory holidays).

2.6.1 Extension of Normal Hours

When an inspection visit requires an extension of the normal hours, the fee is \$211 [MI08] per hour or fraction thereof, in addition to the fee payable for the service.

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2.6.2 Emergency or Same Day Inspection

For an inspection involving a visit during normal working hours but on a day when the inspector is not in the area (emergency or same-day inspection), the fee is \$153 [MI09] per hour or fraction thereof, in addition to the fee payable for the service.

2.6.3 Scheduled Outside Normal Working Hours

For an inspection scheduled outside normal working hours the fee, in addition to the fee payable for the inspection service, is \$211 [MI21] per hour or fraction thereof (minimum of 2 hours) up to a maximum of \$633 (for the first 4 hours) plus \$159 per hour or fraction thereof after that.

Scheduled overtime inspections:

- Require a minimum of 2 business days notice.
 - See Section 2.6.4 if requesting the scheduled overtime inspection with less than 2 business days notice.
- Must be cancelled by the customer by 12:00 p.m. (noon) the previous business day or a fee of \$153 [MI06] will be charged Mondays to Fridays, and a fee of \$306 [MI06] will be charged for weekends and statutory holidays.

2.6.4 Unscheduled Outside Normal Working Hours

For an unscheduled inspection involving a visit outside normal working hours the fee is \$633 for the first 4 hours plus \$159 [MI07] per each additional hour or fraction thereof, in addition to the fees payable for the inspection service.

2.6.5 After Hours Telephone Consultation

The after-hours telephone consultation fee (excluding ACP contractors) is \$83 (NC \$84) [MI20] per call where a service connection authorization is required.

2.7 Travel Costs

The following principles shall be used in determining travel costs:

- Existing fees include travel provision for inspector's normal route.
- For travel beyond the normal route, an additional charge is required to recover full travel costs. Each region has defined routes or areas for which

travel charges may be applied. These are applied consistently to Applications for Inspection in that area.

- Full travel cost **includes**:
 - Out-of-pocket expenses for transportation equipment or services, i.e. rental fees, tickets;
 - A 10% cost recovery fee for out-of-pocket transportation if the customer requests ESA to make travel arrangements; and
 - \$153 [R043] per hour or fraction thereof spent by the inspector.

2.8 Miscellaneous Fees

The fee for any mandated ESA service that is not outlined in this schedule is \$153 per hour or fraction thereof.

The fee for additional site visits is \$153 [MI04] per hour or fraction thereof.

- Additional site visits may be charged should it be deemed that a reasonable number of visits has already been provided.

In addition to any applicable fees, an hourly cost recovery fee may be charged for:

- Preparing an application on behalf of applicant - beyond normal assistance - \$153 [MI06].
- Adding additional work items/shortages or making other significant data changes to notifications - \$153 [MI06].
- A separate visit to inspect corrected defects - \$76 [MI30].
- A separate visit to re-inspect uncorrected defects - \$153 [MI04].
- Processing defects after the specified correction time has expired - \$153 [MI27].
- Re-instating a deferred customer account - \$153 [MI06].
- After requesting the visit, a customer is not ready for inspection when the inspector arrives, or areas of the building are not accessible for inspection - \$153 [MI04].
- Access to a site due to complex security procedures - \$153 [MI06].
- Consultation (site visit) beyond normal assistance - \$153 [MI05].
- Issuing D4 [MI28] and D5 [MI29] disconnection letters - \$153.
- Fire Investigation, Accident and Product Incident reports - \$153.

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- The fee to reconnect service is:
 - After fire, flood, lightning strike, explosion or other disaster - \$299 [MI31, MI32, MI33].
 - After six months (non-occupancy, non-payment):
 - Single family dwelling – \$299 [MI34]; additional time beyond 2 hours is \$153 per hour or fraction thereof.
 - Residential multi-unit dwelling – \$145 per unit [MI37].
 - Apartment – \$124 per unit for each of the first four units and \$15 per unit for each additional [MI36].
 - Mobile home – \$145 [MI35].
 - ICIA facilities – \$299 [MI38]; additional time beyond 2 hours is \$153 per hour or fraction thereof.
 - Grow op, meth lab or other clandestine operation; or for wiring altered/theft of power – \$560 [MI39].
- The fees for hazard investigations are set by ESA based on the nature and circumstances of the investigation. The fee for the investigation may be charged to the building owner, agent or tenant.
- Other services as determined by the inspector.

2.9 Record Searches and Requests for Information

The fee for these services is \$67 [RS01/RS02] including HST

2.10 Occupancy and other Miscellaneous Letters

The fee is \$78 [MI02] for Occupancy, Fire Alarm, Fuel Safety Compliance, and other miscellaneous letters.

2.11 Pricing Complex Jobs

For jobs where the method of calculating fees by this schedule is complex, an alternative method of fee calculation may be used with the agreement of the ESA and the customer.

2.12 Inspection Applications

2.12.1 Residential

Residential notifications are valid for 12 months.

The notification expires if no inspections have been performed during the first year. The inspection fees

will be credited back less a refund processing fee of \$28 [R042]. When resubmitted, full inspection fees will apply to the new application.

The notification is renewed if a minimum of one inspection occurs during the first year. A renewal fee will be applied as follows:

- \$28 [MI23] for ACP contractors
- \$83 [MI22] for contractors
- \$122 [MI24] for non-contractors

Automatic annual renewals will continue to be applied until the notification is completed.

2.12.2 Industrial / Commercial / Institutional and Agricultural (ICIA)

ICIA notifications with total inspection fees valued at \$1,000 or less are valid for 12 months. An annual renewal fee of \$120 [MI26] is applied until the work is completed.

ICIA notifications with total inspection fees valued at more than \$1,000 are not subject to annual renewals.

2.12.3 Working without an Application for Inspection

If an application is not filed within 48 hours from commencing work then applicable inspection fees [MI12] and cost recovery fees will be charged

2.13 Payment Guidelines

ESA fees are due and payable when an Application for Inspection is processed. If a charge account has been set up, payment is due 30 days from the statement date. Payment received after the due date is subject to a late payment charge of 1.5 % per month calculated and applied monthly.

2.14 Taxes

Harmonized Sales Tax (HST) will be applied in accordance with Canada Revenue Agency (CRA) rules and regulations.

HST is applicable to the Federal Government, Governments of HST participating provinces, and Municipalities.

The following HST rules apply to Registered Indians, Indian bands, or unincorporated band-empowered entities:

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- Services provided entirely on a reserve are not subject to HST.
- Services provided off the reserve are subject to the 5% federal portion only.
- Proof of Registration under the Indian Act or Certificate of Indian Status Card must be provided before application of HST exemptions.

2.15 Non-Sufficient Funds

A fee of \$45 will apply for processing a NSF cheque.

2.16 Refunds

Fees paid shall be refunded under the following situations:

- More than one Application for Inspection accompanied by payment is submitted for the same job.
- Where the payment made exceeds the applicable fee (only the amount by which the payment exceeds the applicable fee is refundable); or
- Where an application is processed and then the permit is cancelled by the customer before an inspection is requested.

A refund-processing fee of \$28 [R042] will be charged and withheld from any refund payable.

Section 3: Non-Regulatory Services

3.1 Fire Marshal / Electrical Inspection Orders

These are orders issued by the Fire Marshal to inspect premises when suspected life and/or property hazards have been identified. The fee is \$305 [FM01]. Additional time required over 2 hours will be at the rate of \$153 per hour or fraction thereof.

The fee for the initial investigation will be charged to the property owner or agent.

Note: Inspection of repairs to remedy defects found during a Fire Marshal Order or Electrical Inspection Order requires submission of a separate Application for Inspection with payment of the applicable fees.

3.2 Other Non-Regulatory Services

The fees for other services not mandated under the OESC or other legislation will be established by ESA based on the nature and circumstances of the services provided.

Section 4: Residential Fees for Inspection Services

4.1 New Structures

4.1.1 Single Family Dwelling

The fee for inspection of a new installation on a residential premise (including modular and prefabricated homes) and for multi-unit residential complexes (e.g. row-house, townhouse, semi-detached house, duplex, triplex and quadruplex) is priced for each unit.

The per unit fee for dwellings with up to 7,000 square feet is:

	Contractor	Non-Contractor
with service size up to 200A [R030]	\$219	\$490
with service size 201-400A [R031]	\$316	\$640
with service size 401A+ [R052]	\$452	\$849

The fee **includes** two inspection visits (e.g. one for the rough-in and service, and one for the final) excluding ACP customers; additional fees are applicable for each additional visit, refer to Section 2.8.

The per unit fee for dwellings with more than 7,000 square feet is:

	Contractor	Non-Contractor
with service size up to 200A [R034]	\$452	\$849
with service size up to 201-400A [R035]	\$452	\$849
with service size 401A+	Priced per Section 5	

The fee **includes** up to three inspection visits; for members of the ACP program, two visits. Additional fees are applicable for each additional visit, refer to Section 2.8.

See additional related notes following section 4.1.2.

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4.1.2 Stacked-Type Housing

Fees are applied by individual building rather than the whole complex. The per unit fee for each building is:

# Units	Contractor	Non-Contractor
First 10 units [R055]	\$175	\$397
Each additional unit [R055]	\$160	\$358

The fee includes two inspection visits per unit (e.g. one for the rough-in and service, and one for the final) excluding ACP customers; additional fees are applicable for each additional visit, refer to Section 2.8.

See related notes following this section and section 4.1.3.

Notes: Applicable to subsections 4.1.1 and 4.1.2

(1) The fee **includes**:

- Mechanical and other equipment installed at the same time by the same contractor (e.g. air conditioner, furnace, water heater, in-floor heating, Jacuzzi bathtub, submersible pumps, wired smoke/CO detectors, elevators, etc.).

(2) The fee **excludes**:

- Separate living quarters (granny suite, basement apartment) - the fee to inspect is \$121 (NC \$131) [R028] if installed by the same contractor and inspected at the same time as the construction of the new house; if not wired at the same time, refer to Section 4.2.1 [R026/R027].
- Detached outbuildings and structures such as garages, kennels, fountains, greenhouses, garden sheds, and similar structures, refer to Section 4.2.1 [R026].
- Pool houses, refer to Section 4.5.4 [R015].
- Fire and security alarm devices, refer to Section 4.2.1 [R026].
- Generators/transfer switches, refer to Section 4.4.2 [R067, R080].
- Geothermal equipment, refer to Section 4.4.3 [R081].
- Electric vehicle chargers, refer to Section 4.4.4 [R078].
- Swimming pools and hot tubs, refer to Section 4.5 [R012].
- Receptacles installed for a dialysis machine, refer to Section 5.7 **classified**, [C018].
- Renewable energy system, refer to Section 8.

Other installation scenarios:

- (1) For a modular or prefabricated home **on a slab**, refer to note 2 below.
- (2) The fee to install the service equipment only on a New Residence is \$74* (NC \$79) for services up to 400A [R071, R072], \$136 (NC \$146) for services 401-799A [R073], and \$304 (NC \$329) [R079] for services 800A+.
- (3) The fee to install a new ganged meterbase only on a New Residence is \$74* (NC \$79) [R074] per meter; refer to Section 4.3.2.
- (4) The fee to install the wiring only on a New Residence is based on the number of outlets and devices installed (minimum 41); refer to Section 4.2.1 [R026].

4.1.3 Apartment Building and Retirement Home

The fee is \$96 (NC \$104) [R019] for each of the first 4 units, plus:

- \$47 (NC \$52) [R091] per unit when the total number of devices is 80 or fewer.
- \$96 (NC \$104) [R092] per unit when the total number of devices is 81+.

Notes:

- (1) The fee is based on multiple units inspected at the same time. Visits to individual units may result in additional inspection fees, refer to Section 2.8.
- (2) The fees **include**:
 - Connection authorization for each dwelling unit.
 - Mechanical and other equipment installed at the same time by the same contractor (e.g. air conditioner, furnace, water heater, in-floor heating, Jacuzzi bathtub, wired smoke/CO detectors, etc.).
- (3) The fees **exclude**:
 - Electric vehicle chargers, refer to Section 4.4.4 [R078].
 - Swimming pools and hot tubs, refer to Section 4.5 [R012].
 - Receptacles installed for a dialysis machine, refer to Section 5.7 **classified** [C018].
 - Renewable energy systems, refer to Section 8.

Notes: Applicable to subsections 4.1.2 and 4.1.3

(1) The fees **include**:

- Inspection of all common areas, parking areas, the main service and all distribution equipment.

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(2) The fees **exclude**:

- Commercial areas (e.g. retail stores), high voltage installations and outlying equipment; refer to Section 5.

4.1.4 Mobile Home / Residential Trailer

The fee is \$121 (NC \$131) [R021] and **includes** a service connection, if required.

4.2 Additions or Alterations to Existing Structures

4.2.1 Renovation of Residential Units

The fee for individual residential units, including multi-unit buildings consisting of 4 or fewer units, basement apartments, granny suites, detached outbuildings and rewires, is:

# Outlets	Contractor		Non-Contractor	
	No Service [R026,R015]	With Service [R027]	No Service [R026, R015]	With Service [R027]
1-10	\$49*	\$125	\$56*	\$191
11-40	\$124	\$174	\$189	\$254
>40	\$174	\$222	\$294	\$345

Notes:

- (1) **Outlets include** devices such as switches, fixtures, receptacles, plugmold (multi-outlet strips), power outlets, ceiling fans, exhaust fan, thermostats, fire/security alarm devices; and dishwashers, rangehoods, baseboard heaters, and surge suppressors.
- (2) **Service includes** replacement of any component of the main service equipment: the mast (includes reattaching the clevis), meterbase, service entrance equipment, main disconnect switch and/or main panel.
- (3) The fee for outlets with service is only applicable if filed at the same time.
- (4) There is no charge to inspect subpanels (pony panels) if inspected at the same time as other work; if inspected separately the fee is \$39* (NC \$41*) [R068].
- (5) For a receptacle for an electric vehicle charger, refer to Section 4.4.4 [R078].
- (6) For a receptacle for a dialysis machine, refer to Section 5.7 (**classified**) [C018].

4.2.2 Renovation of Apartment Units, Multi-Unit Residential Building (with common entrance) with 5+ dwelling units, and Retirement Home

The fee is \$99 (NC \$108) [R016] for a single unit.

For units renovated at the same time, the fee is \$99 (NC \$108) [R016] for each of the first 4 units, plus:

- \$6 (NC \$7) [R069] per unit if the renovation involves 1-3 outlets or panels.
- \$15 (NC \$20) [R017] per unit if the renovation involves 4-9 outlets or panels.
- \$47 (NC \$52) [R018] per unit if the renovation involves 10-40 outlets or panels.
- \$93 (NC \$102) [R094] per unit if the renovation involves >40 outlets or panels.

Notes:

- (1) The fee is based on multiple units inspected at the same time. Visits to individual units may result in additional inspection fees, refer to Section 2.8.
- (2) **Outlets include** devices such as switches, fixtures, receptacles, plugmold (multi-outlet strips), power outlets, ceiling fans, exhaust fans, thermostats, fire/security alarm devices; and dishwashers, rangehoods, baseboard heaters, and surge suppressors.
- (3) The fee **includes**:
 - Connection authorization for each unit (including any advanced connection).
 - Inspection of all common areas, parking areas, the main service and all distribution equipment.
- (4) The fee **excludes**:
 - Mechanical equipment (e.g. air conditioner, furnace, water heater, in-floor heating, Jacuzzi bathtub, wired smoke/CO detectors, etc.), refer to Section 4.4.1.
 - Electric vehicle chargers, refer to Section 4.4.4 [R078].
 - Swimming pools and hot tubs, refer to Section 4.5 [R012].
 - Receptacles installed for a dialysis machine, refer to Section 5.7 **classified** [C018].
 - Renewable energy systems, refer to Section 8.
 - Commercial areas (e.g. retail stores), refer to Section 5.
 - HV and outlying equipment, refer to Section 5.1.

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4.2.2.1 Apartment Building Upgrade [R070]

This section covers instances when the same upgrade is being made in multiple apartment units at the same time, i.e. sub-metering conversion, replacing baseboard heaters, installing fire alarm devices, etc.

The per unit fee is:

For the first 2 suites	\$99	each
Suites 3-20	\$6	each
Suites 21-60	\$5	each
Suites 61-100	\$3	each
Suites 101+	\$2	each

Note: Applicable to subsections 4.2.2 and 4.2.2.1

If the building has 4 or fewer dwelling units, refer to Section 4.2.1.

4.2.2.2 Apartment Retrofitted Luminaires

The fee to change luminaires from their original approved design by the use of approved retrofit kits; or by changing the components to convert them into more efficient luminaires or into different kinds of luminaires, when installed and inspected at the same time, is as follows:

For conversions involving ≤ 50 luminaires:

Number of Luminaires	Contractor [C086]	Non-Contractor [C086]
The first 10 or fraction thereof, plus	\$74*	\$80
Each additional 10 or fraction thereof up to 50	\$7	\$8

For conversions involving > 50 luminaires:

Number of Luminaires	Contractor [C087]	Non-Contractor [C087]
The first 10 or fraction thereof, plus	\$74	\$80
Each additional 10 or fraction thereof up to 1,000, plus	\$7	\$8
Each additional 50 or fraction thereof at 1,001+	\$7	\$8

Note: A pre-assessment fee of \$151 applies per application when the conversion involves > 50 luminaires. Refer to the ESA website at www.esasafe.com for program details.

4.3 Consumer Service

This section covers installations when the work is limited to the mast (includes reattaching the clevis), meterbase, service entrance equipment, main disconnect switch and/or main panel.

4.3.1 New Service (to an existing structure), Service Change or Repair, Panel Change

The fee is \$74* (NC \$184) [R003, R075, R076].

Notes:

- (1) There is no charge to install/replace breakers if other wiring is done at the same time, otherwise charge as a device per Section 4.2.1 [R026].
- (2) For additional visits refer to Section 2.8.
- (3) Refer to Section 5.3.1 [C012] for the connection of a non-permanent service.

4.3.2 Ganged Meterbase Work Only

- The fee to add a new ganged meterbase to a residential structure; or to change, repair or replace an existing ganged meterbase is \$74* (NC \$184) [R077] per meter installed on the gang.
- The fee to convert an existing ganged meterbase to a single meter is \$74* (NC \$184) [R071, R072] up to 400A, and \$136 (NC \$146) [R073] for 401+A.

Note: Applicable to Section 4.3

If changes are also being made to the wiring, refer to Section 4.2.1 [R027].

4.4 Residential Equipment

4.4.1 Mechanical, HVAC and related equipment

This section covers furnaces, water heaters, air conditioners, battery chargers, heat pumps, submersible pumps, heat recovery ventilators, in-floor heating systems and heat trace cable, steam showers, saunas, jacuzzi bathtubs, hard-wired appliances, yard lights, elevators, power optimizers, etc.

The fee is \$74* (NC \$80) for the first piece of equipment plus \$25 (NC \$28) [R038, R067, R058] for each additional piece of equipment installed by the same contractor and inspected at the same time.

The fee for branch wiring only or bonding only of equipment done by a licensed electrical contractor (when an equipment installer is connecting the

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equipment) is \$74* [R059] for the first piece of equipment plus \$25 for each additional piece of equipment.

4.4.2 Generators / Transfer Switches and related equipment

When the transfer switch is installed at the same time as the generator by the same contractor, and a separate Disconnect & Hold inspection is not required, the fee is \$74* (NC \$80) for the first piece of equipment plus \$25 (NC \$28) [R067] for each additional piece of equipment or device.

When the transfer switch and generator are to be inspected separately, the fee is \$74 (NC \$80) [R080] x 2 to accommodate two visits.

4.4.3 Geothermal and related equipment

The fee is \$74* (NC \$80) for the first piece of equipment plus \$25 (NC \$28) [R081] for each additional piece of equipment or device installed by the same contractor and inspected at the same time.

4.4.4 Electric Vehicle Chargers and related equipment

The fee is \$74* (NC \$80) for the first piece of equipment plus \$25 (NC \$28) [R078] for each additional piece of equipment or device installed by the same contractor and inspected at the same time.

4.5 Pools

4.5.1 Receptacle only installed for Hot Tub or Storable / Portable Pool

The fee is \$74* (NC \$75*) [R014].

4.5.2 Bonding only of Pool or Equipment

The fee is \$74* (NC \$80) [R013].

Notes: Applicable to subsections 4.5.1 and 4.5.2

The fee **does not include** the inspection of a pool shed or pool house, refer to Section 4.5.4 [R015].

There is no fee for a trench if inspected during the same inspection visit as other work [C049]. If inspected separately from other work then the fee is \$153 [C050] per hour or fraction thereof, refer to Section 5.4.2.

4.5.3 Inground, Indoor and Above Ground Pool; hard-wired Hot Tub, Spa, Splash Pad

The fee is \$145 (NC \$157) [R012] and **includes** a maximum of two inspection visits.

The fee **includes** the inspection of a pool shed (a structure housing the pool equipment only) if installed by the same contractor and inspected during the same inspection visit. If not inspected during the same inspection visit, refer to Section 4.2.1 [R015].

4.5.4 Pool House

This is a structure containing other facilities in addition to housing the pool equipment (i.e. bathroom, kitchen/cooking, audio-visual equipment, etc.)

Refer to Section 4.2.1 [R015].

Section 5: Industrial / Commercial / Institutional and Agricultural Fees for Inspection Services

5.1 High Voltage Installations >750 Volts (Temp and Perm)

5.1.1 Underground Connection from LDC

The fee is \$223 (NC \$242) [C001] and **includes:**

- One metal enclosed switchgear (either indoor or outdoor)
- All components factory installed inside the metal enclosed switchgear
- One factory assembled unit substation (see definition)
- Grounding up to 27.6 KV

5.1.2 Overhead Connection from LDC to a pole or a station structure

The fee is \$472 (NC \$510) [C002] and **includes:**

- Pole or self-supporting station structure (open buss)
- Switch (either air break or load break)
- Fuse
- Lightning surge arrestor(s) - up to three
- Gradient control mat
- Pole guying
- Grounding up to 27.6 KV

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5.1.3 HV Equipment

- Each metal enclosed switchgear - either indoor or outdoor \$124 (NC \$133) [C003].
 - Each connected cubicle within a metal enclosed switchgear \$49 (NC \$53) [C004].
- Each open fused switch – either pole mounted or structure mounted \$124 (NC \$133) [C003].
- High voltage generator switchgear, motor controller, capacitor controller or transfer switch - \$124 (NC \$133) [C003].
- A high voltage transformer, either a single unit or three single phase transformers connected in a three phase configuration - \$223 (NC \$242) [C024].
 - Each additional high voltage transformer installed by the same contractor and inspected at the same time - \$150 (NC \$162) [C024].
- A high voltage motor, generator or capacitor bank - \$223 (NC \$242) [C024].
 - Each additional high voltage motor, generator or capacitor bank installed by the same contractor and inspected at the same time - \$150 (NC \$162) [C024].
- High voltage grounding including pad mount transformer grounding, station ground electrode, remote station ground electrode, and station fence grounding - \$153 [C052] per hour or fraction thereof.

5.1.4 Replacement / Relocation of HV Components

The fee for each of the following categories, when installed by the same contractor and inspected at the same time, is \$223 (NC \$242) for the first unit, plus \$150 (NC \$162) [C024] for each additional unit.

- Some or all insulators associated with a single fused or non-fused switch
- Up to 3 lightning (surge) arresters, 1 per phase
- Up to 3 high voltage cable stress cones per metal enclosed switchgear, cubicle or pole
- Installation of up to 3 cable splices at the same location
- Up to 3 bushings on the same transformer
- Change up to 3 fuses in a switch

5.1.5 HV Substation Maintenance and Testing

The fee is \$153 [C005, C063, C064, C065] per hour or fraction thereof per substation. Refer to the other applicable sections for the additional fees for

replacement equipment, replacement components, and temporary generators.

5.1.6 Renewable Energy

- High voltage wind turbine assemblies will be charged as high voltage generators - \$223 (NC \$242) [C024] for the first and \$150 (\$162) for each additional.
- Photovoltaic installations with DC source and output circuit voltages >1,000 volts will have equipment such as combiners, switches, re-combiners and inverters charged as high voltage metal enclosed switchgear – either indoor or outdoor \$124 (NC \$133) [C003].

5.1.7 Primary Lines (Temp and Perm)

- The fee for an overhead primary line is \$124 (NC \$133) for the first 10 poles or fraction thereof plus \$74 (NC \$80) [C044] for each additional 10 poles or fraction thereof (the pole count may be combined with secondary poles).
- The fee for HV duct bank is \$153 [C050] per hour or fraction thereof.
- The fee for an underground primary line is \$153 [C050] per hour or fraction thereof.

5.2 Low Voltage Consumer Service <=750 Volts

5.2.1 LV Consumer Service

The fee for establishing, repairing, or altering each permanent consumer service is based on amperage.

Amperes	Contractor	Non-Contractor
0-225A [C006]	\$78*	\$84
226A-799A [C007]	\$136	\$146
800A+ [C008]	\$304	\$329

Notes:

- (1) The fee **includes** the consumer service box, meter, connection authorization, and integrated sections of distribution equipment. For any field-wired distribution equipment, see Section 5.5 [C019, C020, C021 based on amperage].
- (2) Where the integrated distribution equipment is supplied in sections and assembled on site, each section beyond the first will be charged per Section 5.5 [C019, C020, C021 based on amperage].

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- (3) **Metering Changes (from individual to bulk or bulk to individual)** - all meters will be identified by amperage. An initial fee (see above table) will be charged for the meter with the largest amperage and any additional meters will be charged per Section 5.5 [C019, C020, C021 based on amperage]. For metering changes greater than 750 Volts, refer to Section 5.1.

5.2.2 LV Service - Routine Preventive Maintenance

The fee is \$153 [C072] per hour or fraction thereof.

5.2.3 Metering Equipment (donuts / check meters / remote metering)

An initial fee will be charged for the first electronic/check meter as per Section 5.2.1 [C006, C007, C008 based on amperage] and additional electronic meters will be charged per Section 5.7.9 [C053].

5.2.4 Bus Shelters and Cable TV Services

The fee is based on amperage per Section 5.2.1 [C006, C007, C008].

5.2.5 Central Meter Service

The fee is \$74* (NC \$80) [C051].

Note: Additional fees apply for inspection of poles and other equipment.

5.2.6 Permanent Pole Service

The fee is \$124 (NC \$133) [C048]. The fee **includes** the pole, meter, panel and outlets installed on the pole if they are installed by the same contractor and inspected during the same inspection visit.

5.2.7 School Portable

The fee is \$85 (NC \$94) [C055] per unit.

Notes:

- (1) The fee **includes** a service connection, fire alarm devices and inspection of secondary overhead / underground lines, if required.
- (2) The fee **excludes** central meter (refer to Section 5.2.5) [C051] and primary lines (refer to Section 5.1.7) [C044].

5.2.8 Construction Trailer

The fee is \$124 (NC \$133) [C068] per unit.

Notes:

- (1) The fee **includes** inspection of the trailer wiring, the connection of the trailer to an existing service, and a connection authorization to the utility.
- (2) If installing a temporary service to energize the trailer, refer to Section 5.3.1 [C012].

5.3 Temporary Services

5.3.1 Single Phase

The fee is \$198 (NC \$216) [C012]. The fee **includes** the service, pole, panels and outlets installed on the pole if they are installed by the same contractor and inspected during the same inspection visit.

5.3.2 Three Phase

The fee is \$247 (NC \$269) [C016]. The fee **includes** the main service equipment and the pole. Refer to applicable sections for any additional equipment.

5.3.3 Multiple Subdivision

The fee is \$372 (NC \$403) for the first 10 poles or fraction thereof, plus \$99 (NC \$106) [C013] for each additional 10 poles or fraction thereof. The fee **includes** the service, poles, panels and other equipment installed by the same contractor and inspected during the same inspection visit. Items inspected at other times are charged separately.

Note: **Applicable to all subsections in Section 5.3** Temporary service fees are valid for a period of 180 days. An additional fee of \$74 (NC \$76) [C056] will apply for each 90-day renewal.

5.4 Secondary Lines - Temp & Perm

5.4.1 Overhead Lines

The fee for overhead secondary lines, or a combination of primary and secondary lines, is \$124 (NC \$133) for the first 10 poles or fraction thereof, plus \$74 (NC \$80) [C044] for each additional ten poles or fraction thereof.

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5.4.2 Underground Lines - Trench, Directional Boring, Slab or Deck Wiring

There is no fee if inspected during the same inspection visit as other work [C049].

If inspected separately from other work, the fee is \$153 [C050] per hour or fraction thereof.

Note: The fee for temporary lines is valid for a period of 180 days. An additional fee of \$74 (NC \$76) [C056] will apply for each 90-day renewal.

5.5 Distribution Equipment (<=750 Volts)

This section covers non-metered subs off the main service (feeders), switchboards, panelboards (power or lighting), splitters, switches (disconnect, isolation, transfer, pole top, buss plug), breakers, inverters, rectifiers, combiner boxes, motor control centres (MCC), control panel (lighting or power), and fire alarm panels installed by the same contractor and inspected at the same time.

The per item fee is calculated based on amperage:

Amperes	Contractor	Non-Contractor
0-225A [C019]	\$38*	\$41*
226A-799A [C020]	\$65*	\$70*
800A or greater [C021]	\$150	\$162

Notes:

- (1) Each section of panel board or switchboard requiring assembly in the field shall be counted as an individual panel.
- (2) Disconnect switches (fusible or non-fusible) used for local isolation of equipment are included with the equipment fee (see Section 5.6, note 4).
- (3) There is no charge to install/replace breakers if other wiring installations are done at the same time, otherwise charge as a panelboard based on amperage.
- (4) Lighting or power control enclosures that do not meet the definition of a control panel will be considered low voltage control devices (Section 5.7) [C017].

5.6 LV ICIA Miscellaneous Equipment

This section covers transformers (≥ 1 KVA), generators and alternators (> 5 kW), heating & cooking apparatus (> 5 kW), motors (≥ 1 HP), capacitors, UPS units, battery chargers, telephone

booths, lottery machines, ATMs, power optimizers, neutral isolators, etc.

The fee, when installed by the same contractor and inspected at the same time, is \$74* (NC \$80) for the first item, plus \$48 (NC \$53) [C023] for each additional item.

Notes:

- (1) For generators, alternators and heating/cooking apparatus (≤ 5 kW), control transformers (< 1 KVA), and fractional horsepower motors (< 1 HP), see Section 5.7 [C017, C018].
- (2) Branch wiring only done by a licensed electrical contractor (when an equipment installer is connecting the equipment), is \$39* [C071] for each item.
- (3) Conveyor Systems - the fee for an industrial process with an assembly of motors in excess of 200 (e.g. a complete conveyor system) will be based on Section 5.6 for the first 200 motors plus \$6 (NC \$7) [C076] for each additional motor.
- (4) The fee for equipment includes the local non-fusible isolation switch and pre-wired associated equipment (e.g. start-stop station & combination starter); any control devices wired in the field will be charged as outlets (Section 5.7) [C017].
- (5) For the transfer switch on a standby generator, see Section 5.5 [C019, C020, C021 based on amperage].

5.7 Outlets and Devices - Non-Classified and Classified Areas

This section considers installations in Non-Classified and Classified locations (**see definition**).

Included in this section are receptacles, plugmold (multi-outlet strips), switches, low voltage controls, fixtures, high bay light fixtures, track lighting, streetlight and parking lot lights, self-contained fuel dispensing devices, fractional horsepower motors (< 1 HP), heating and cooking devices (≤ 5 kW), self-contained signs, control transformers (< 1 KVA), generators and alternators (≤ 5 kW), solenoids, fire alarms (new construction or part of a general renovation), paddle fans, sentinel lights, bollards, kirk-locks, magnetic-locks, and batteries installed as part of a renewable energy system.

The fee is based on the total number of devices installed and inspected at the same time:

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# of Devices	Contractor		Non-Contractor	
	Non-Classified [C017]	Classified [C018]	Non-Classified [C017]	Classified [C018]
The first 10 devices or fraction	\$74*	\$124	\$80	\$133
Each additional 10 devices or fraction	\$7	\$26	\$8	\$29

Note: For generators, alternators, and heating & cooking apparatus (>5 kW), transformers (>=1 KVA), and motors (>=1 HP), see Section 5.6 [C023].

5.7.1 Retrofitted Luminaires

The fee to change luminaires from their original approved design by the use of approved retrofit kits; or by changing the components to convert them into more efficient luminaires or into different kinds of luminaires, when installed and inspected at the same time, is as follows:

For conversions involving <=50 luminaires:

Number of Luminaires	Contractor [C086]	Non-Contractor [C086]
The first 10 or fraction thereof, plus	\$74*	\$80
Each additional 10 or fraction thereof up to 50	\$7	\$8

For conversions involving >50 luminaires:

Number of Luminaires	Contractor [C087]	Non-Contractor [C087]
The first 10 or fraction thereof, plus	\$74	\$80
Each additional 10 or fraction thereof up to 1,000, plus	\$7	\$8
Each additional 50 or fraction thereof at 1,001+	\$7	\$8

Note: A pre-assessment fee of \$151 applies per application when the conversion involves >50 luminaires. Refer to the ESA website at www.esasafe.com for program details.

5.7.2 Remotely Controlled Lighting

Count each control as a separate device in calculating the fee.

5.7.3 Track Lighting

Each individual track is a single device; or Each multiple of 60 centimetres (2 feet) of track is a single device.

5.7.4 Runway Lighting

Count each runway light fixture as a separate non-classified device [C017], and associated isolation transformers as power outlets (Section 5.7.9) [C053] in calculating the fee.

5.7.5 Modular Furniture

Count each supply connection point (e.g. whip, power/jiffy pole) as a separate device in calculating the fee.

5.7.6 Fire Alarms Systems

Count each station (e.g. pull station, alarm bell, or detector) as a separate device in calculating the fee. **Note:** For control and annunciator panels, refer to Section 5.5 [C019, C020, C021 based on amperage].

5.7.7 Heat Trace Cable

Count the number of outlets or price according to the kW rating of the cable (Section 5.7) [C017] or (Section 5.6) [C023]) in calculating the fee.

5.7.8 Power Pedestals

A power pedestal shall be charged as a panelboard, and the ampere rating shall be the larger of either the largest overcurrent device in the pedestal, or the pedestal's nameplate ampere rating (refer to Section 5.5) [C019, C020, C021 based on amperage].

Pre-assembled enclosures incorporating only outlets (no breakers/fuses), shall be charged as a single outlet based on the ampere rating of the largest outlet [C017].

The fee for enclosures assembled in the field is based on the total number of outlets installed, (refer to Section 5.7 for devices [C017] and Section 5.7.9 for power outlets [C053].

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5.7.9 Power Outlets

For outlets exceeding 20 amperes or 120 Volts, the fee is:

# of Power Outlets	Contractor		Non-Contractor	
	Non-Classified [C053]	Classified [C054]	Non-Classified [C053]	Classified [C054]
For the first outlet	\$25*	\$32*	\$28*	\$34*
Each additional outlet	\$6	\$8	\$7	\$9

Note: Regardless of the amperage, surge suppressors are charged as power outlets for the purpose of applying fees.

5.8 Temporary Wiring

The fee is based on the applicable fees for all installed equipment.

Note: Temporary wiring fees are valid for a period of 180 days. An additional fee of \$74 (NC \$76) [C056] will apply for each 90-day renewal.

5.9 Fuel Dispensing Units

This section includes dispensing units for gas, diesel, propane and other types of fuel.

5.9.1 Non Self-Contained Units

The fee is based on applicable fees for inspection of the motor and additional equipment.

5.9.2 Self-Contained Units

Refer to Section 5.7 [C017, C018].

5.10 Billboards / Signs / Outline Lighting

5.10.1 Billboards

The fee is \$124 (NC \$133) [C027]. The fee **includes** the service, panel, outlets, switches and fixtures and a connection authorization if required.

5.10.2 Self-Contained and Pylon Signs

Each enclosure is counted as a device, refer to Section 5.7 [C017].

5.10.3 Signs with Remote Ballasts / Transformers

The fee is \$124 (NC \$133) [C057] per multiple of 10 ballasts/transformers or fraction thereof.

5.10.4 Outline Lighting with Remote Ballasts

The fee for is \$124 (NC \$133) [C058] per multiple of 10 ballasts/transformers or fraction thereof.

5.11 Trolley, Buss Ducts, and Cable Trays

The fee is \$3 [C028] for each multiple of 3 meters (10 feet).

5.12 Spray Booths

5.12.1 Field Assembled or Field Wired

The fee is based on the individual items inspected.

5.12.2 Factory Assembled and Not Field Wired

The fee is based on the applicable fee for the largest component inspected.

5.12.3 Factory Assembled and Field Wired

The fee is based on the applicable fee for the largest component plus applicable Field Evaluation fees for inspection of the assembly (e.g. re-assembly of components in field).

Section 6: Entertainment

6.1 Theatres, Theatrical Productions, Traveling Shows, Film, TV, Video and Commercial Productions, and Special Events

6.1.1 Theatres, Theatrical Productions, Traveling Shows, Film, TV and Video Shoots

The fee for each location is \$131 (NC \$141) [C032] and is valid for up to 7 days. Additional fees apply for each additional set and/or location at \$131 (NC \$141) [C032].

6.1.2 Commercial Shoots

The fee for inspecting each commercial shoot is \$78 (NC \$84) [C041] and is valid for up to 7 days.

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Additional fees apply for each additional location at \$78 (NC \$84) [C041].

6.1.3 Special Events

Special Events may include outdoor concerts, outdoor festivals, live performances, and agricultural fairs. Special Events exclude carnivals (Section 6.2), and trade and consumer shows (Section 6.3).

The initial fee is \$305 [C075] (for up to 2 hours). Additional time required over 2 hours will be at the rate of \$153 per hour or fraction thereof. The fee is valid for up to 7 days.

Notes:

- (1) Overtime fees for weekend, holiday and inspections after 5:00 p.m. are applied in place of the regular inspection fee, refer to Section 2.6.
- (2) An application for inspection is not required if all equipment is plugged into existing standard receptacles using approved extension cords; or power is supplied by a portable generator up to and including 12kW/240V using approved extension cords.
- (3) For unusual Special Events, it may be necessary to contact the General Manager or Senior Inspector for fee guidance.

Notes: Applicable to all subsections in Section 6.1

- (1) Additional fees apply for transformers, generators, alternators, heating and air conditioner equipment, and cooking equipment (Section 5.6) [C023].
- (2) Additional re-inspection fees apply as follows:
 - a. Weekly re-inspection \$78 (NC \$80) for changing studio sets [C042].
 - b. Monthly re-inspection \$140 (NC \$142) for static studio sets [C066].
- (3) The fees in this section include a connection authorization for 7 days.

6.2 Carnivals

The fee for the first 5 rides/booths or less is \$131 (NC \$141) [C030]. The fee for each additional multiple of 5 rides/booths or less, inspected at the same time, is \$80 (NC \$85).

Additional fees apply for each generator, see Section 5.6 [C023].

Notes:

- (1) The overtime fee or the regular inspection fee will be applied, whichever is greater.

- (2) Fees for weekend, holiday and extended hours are outlined in Section 2.6.
- (3) The fees in this section include a connection authorization for 7 days.
- (4) The fee for the renewal of the connection authorization is \$78 (NC \$80) [C042] for each additional 7 days.
- (5) An additional fee of \$153 [MI06] will be applied if the rides/booths are not ready to be energized when the inspector arrives at the agreed upon time.

6.3 Trade and Consumer Shows

For each multiple of 50 booths or fraction thereof, the fee is \$255 (NC \$265) [C059], plus distribution equipment (refer to Section 5.5) [C019, C020, C021] and low voltage miscellaneous equipment (refer to Section 5.6) [C023].

Note: The fee **includes** a connection authorization for 7 days. The fee for renewal of the connection authorization is \$78 (NC \$80) [C042] for each additional 7 days.

6.4 Permission to Show or Energize Unapproved Equipment

6.4.1 Permission to Show Unapproved Equipment

The fee to display unapproved equipment at a trade show is \$61 [C036] per booth. If a vendor has adjoining booths, it will be considered as one booth for the purpose of calculating fees.

6.4.2 Permission to Energize Unapproved Equipment

The fee to energize unapproved equipment at a trade show is \$140 [C073] per piece of equipment. Permission to energize is valid for the duration of the trade show.

Section 7: Street Lighting, Traffic Signals, Roadway Systems

7.1 Street Lighting

The fee for street lighting is the sum of the following:

- The fee for service (Section 5.2.1) [C006, C007, C008 based on amperage].

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- The fee for underground lines (Section 5.4.2) [C049, C050] or the fee for overhead lines (Section 5.4.1) [C044] if applicable.
- The fee for panelboards (Section 5.5) [C019, C020, C021 based on amperage].
- The fee for streetlight/parking lot lights (Section 5.7) [C017].
- The fee for other devices (Section 5.7) [C017].

Note: Refer to Section 5.7.1 for pricing if the streetlight/parking lot lights are being converted from their original approved design by the use of approved retrofit kits; or if components are being changed to make them into more efficient luminaires or into different kinds of luminaires.

7.2 Traffic Signal System

The fee for the installation of a new traffic signal system or major modification to an existing system is \$414 (NC \$420) [C045]. The fee **includes** the signal heads, the controller, the underground and/or overhead lines, the service, connection authorization if required, all devices including street lighting installed to illuminate the intersection or area served by the signal system, when installed by the same contractor and inspected at the same time.

7.3 Roadway System Maintenance Program

This program applies to maintenance work performed on traffic signal systems and streetlights. If the program requirements are met, all maintenance work as defined by the program is covered and individual Applications for Inspection are not required. The fee is based on the total number of units in the system being maintained as follows:

- \$307 for each multiple of 50 traffic signal systems or fraction thereof
- \$307 for each multiple of 1,500 streetlights or fraction thereof

Note: Refer to the ESA website www.esasafe.com for program details.

Section 8: Renewable Energy

8.1 Wind Turbine Systems

8.1.1 Project Generation Capacity <= 10 kW

The fee is \$290 [C077] if installed by a licensed electrical contractor (LEC). The fee is \$475 [C077] if installed by the property owner. If the installation

involves the services of an unlicensed turbine installer (as may be allowed by legislation) and an LEC (for the branch wiring) the fee is \$290 [C078] for the turbine installer plus \$290 [C077] for the LEC. The fee includes up to 2 visits. For additional visits, refer to Section 2.8 for applicable fees.

8.1.2 Project Generation Capacity > 10 kW

The fee for turbine systems is the sum of the following:

- Generators and transformers (Section 5.6) [C023]
 - For HV wind turbine assemblies, refer to Section 5.1.6 [C024].
- Inverters, rectifiers, and disconnect switches (Section 5.5) [C019, C020, C021 based on amperage].
- Batteries and other devices (Section 5.7) [C017, C018].

Notes:

- (1) All associated equipment must have a recognized certification or Field Evaluation label.
- (2) A plan review is required.

8.2 Solar Photovoltaic Systems

8.2.1 Project Generation Capacity <=10 kW

The fee is \$290 [C077] if installed by a Licensed Electrical Contractor (LEC). The fee is \$475 [C077] if installed by the property owner. If the installation involves the services of an unlicensed PV installer (as may be allowed by legislation) and an LEC (for the branch wiring) the fee is \$290 [C078] for the PV installer plus \$290 [C077] for the LEC. The fee includes up to 2 visits. For additional visits, refer to Section 2.8 for applicable fees.

8.2.2 Project Generation Capacity >10 kW

The fee for Solar Photovoltaic (rooftop or ground) systems is the sum of the following:

- Inverters, rectifiers, combiners and disconnect switches (Section 5.5) [C019, C020, C021 based on amperage].
 - For photovoltaic installations with DC source and output circuit voltages >1,000 volts, refer to Section 5.1.6.
- Transformers (Section 5.6) [C023].
- Batteries and other devices (Section 5.7) [C017, C018].

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- Solar Photovoltaic “glass” panels based on kW rating as per table below:

Installation Rating	Fee
>10 kW to 250 kW [C079]	\$1,079 flat fee
251 kW to 500 kW [C080]	\$2,696 flat fee
501 kW+ [C081]	\$5,391 per MW

Notes:

- (1) All associated equipment must have a recognized certification or Field Evaluation label.
- (2) A plan review is required.

Section 9: Plan Review

The fee for the plan review of wiring installations is \$302 for the first 2 hours or fraction thereof plus \$151 per additional hour or fraction thereof.

The address for submission of plans is:

Electrical Safety Authority
Plan Review Department
400 Sheldon Dr, Unit 11
Cambridge ON N1T 2H9
Phone: 1-800-746-6480

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Definitions

- < - less than the size or rating referenced.
- > - greater than the size or rating referenced.
- = - equal to the size or rating referenced.

Addition or Alteration - the replacement of, or renovation to, an existing wiring system. Includes addition of wiring to an existing system.

Advanced Connection - authorization to a supply authority to connect a consumer service prior to final inspection of the area supplied by that service. This includes each metered service in a multi-unit building (residential or commercial).

Apartment Building - a multi-unit residential building with five or more dwelling units where the main entrance to all individual premises is from an enclosed common area. Any commercial spaces are to be priced as commercial/industrial for purposes of this fee schedule.

Apartment - a residential dwelling unit within an apartment building with the main entrance from an enclosed common area. Apartment can be condominiums or rental units.

Billboard - an outdoor sign with a separate service. If a billboard does not have a separate service, it is to be treated as a sign for purposes of this fee schedule.

Branch Circuit – per the OESC, may be metered or non-metered.

Cable Tray/Trough - a raceway (ventilated or enclosed) in which cables can be laid.

Capacitor - a piece of electrical equipment used for power factor correction (see Transformers).

Central Meter. - common metering equipment mounted on a pole in a central location, typically supplying more than one sub-service. Usually found in rural areas, such as on farms.

Clandestine Laboratory – a hidden facility used in the illegal manufacture of controlled substances.

Classified Areas - an area classified as a hazardous location under the Ontario Electrical Safety Code. Classified areas also include Patient Care Areas (e.g. hospital, chronic care) and Long Term Care Homes. Receptacles, switches, light fixtures, and power

outlets installed in a patient care area are priced as “classified” for the purposes of this fee schedule.

Combination Metering Panel – a panelboard manufactured complete with electronic metering devices and may include a central panel as part of the same assembly.

Common Areas - may include the following: lobby, hallways, storage areas, recreation rooms, parking areas and mechanical & machine rooms. Commercial spaces and pools are not included as part of common areas.

Condominium - a form of ownership rather than a type of dwelling, and is an apartment or a residential unit depending on its characteristics.

Construction Trailer - an approved, re-locatable structure primarily used on construction sites for offices, equipment storage, washrooms, and temporary construction camps which could include cooking and sleeping facilities. These are normally portable trailers but could include pre-fabricated structures. In some cases, trailers can be double wide or a complex of multi-unit construction.

Consumer Service – the installation from the service box (main circuit breaker or main switch) or its equivalent up to and including the point at which the supply authority makes connection.

Consumer Show – a business-to-consumer event open to the general public at which vendors promote their products and services.

Consumer Sub-Service (Metered) - a feeder installed and connected to a consumer service where there is a connection authorization or metering required by a supply authority. All metered sub-services off the main consumer service shall be considered as a consumer service (includes the metering equipment) for application of fees.

Consumer Sub-Service (Non-Metered) - a feeder installed and connected to a consumer service where there is no connection authorization or metering required by a supply authority. All non-metered sub-services off the main consumer service shall be considered as a panelboard for application of fees.

Continuous Safety Services (CSS) – An ESA program that offers business customers a full range of customized services designed to help maximize

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electrical safety at their facilities and comply with the requirements of the Ontario Electrical Safety Code.

Control Panel (lighting or power) – any enclosure containing electrical equipment used for the control of lighting or power circuits having a circuit ampere rating of 20 amps or greater, or an enclosure containing 2 or more relays/components, or an enclosure containing a single relay switching more than 6 poles.

Cubicle – a metal enclosed compartment containing high voltage electrical apparatus such as, switches, breakers, metering equipment, or transformers.

Disconnecting Means – a device, group of devices, or other means whereby the conductors of a circuit can be disconnected from their source of supply.

Do-It-Yourselfer (DIY) – a one-time customer (non-contractor) with ESA who is not afforded the contractor rates for the purpose of applying fees.

Duct Bank - one or more underground electrical raceways installed in a trench.

Dwelling Unit - one or more rooms for the use of one or more persons as a housekeeping unit with cooking, eating, living, and sleeping facilities. A cooking facility shall have a range (electric or gas supply); a hot plate and/or a microwave only does not constitute a cooking facility.

Electrical Work – work within the scope of the Ontario Electrical Safety Code that consists of constructing, installing, protecting, maintaining, repairing, extending, altering, connecting or disconnecting any electrical installation or electrical equipment.

Feeder – any portion of the wiring between the main service switch and the last over-current device within the circuit, which may be metered or non-metered.

Field Evaluation - ensures the quality and safety of electrical equipment installed in Ontario by ensuring that electrical equipment meets the requirements defined by SPE1000 and the Ontario Electrical Safety Code.

Fire Marshal Order (FMO) - an order for an electrical inspection issued by a representative of the Fire Marshal's office of Ontario (including local Fire Departments).

Generator/Alternator - a machine by which mechanical energy is changed into electrical energy.

Hazard Investigation - a site visit by an inspector to identify whether or not hazards exists.

High Voltage Service – a consumer service operating at any voltage >750 Volts.

Isolating Switch – a switch intended for isolating either a circuit or some equipment from its source of supply and that is not intended either for establishing or interrupting the flow of current in any circuit.

LDC – Local Distribution Company

Licensed Electrical Contractor (LEC) - a contractor who is licensed to operate an electrical contracting business in accordance with Part VIII of the Electricity Act.

Long Term Care Home - a facility that is licensed as a long-term care home under the Long Term Care Homes Act, 2007 and includes a municipal home, joint home or First Nations home approved under Part VIII of the Long Term Care Homes Act. Units and common areas are priced as commercial/institutional under Section 5 of this Fee Schedule.

Low Voltage Control - control of ≤ 750 Volts. Low voltage controls include thermostats, dampers, solenoids, proximity switches, flow switches, limit switches, and 12v & 24v control equipment.

Low Voltage Service – a consumer service operating at ≤ 750 Volts.

Luminaire – a complete lighting unit consisting of one or more lamps or tubes emitting light, socket to hold the lamp in place, wiring to connect the lamp to a power source, and reflectors to direct and distribute light.

Maintenance Work – work of a routine nature performed on an existing electrical installation that makes repairs, replaces like for like components, or maintains the equipment in proper running condition. It does not include extensions, upgrading or complete rewiring.

Metal Enclosed High Voltage – equipment that is totally enclosed with no exposed live parts.

Meter - a device used to measure and record the consumption of electrical power.

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Metering Cabinet or Metering Control Panel – a panel used to interconnect a number of devices for the purpose of metering power, or a panel equipped with metering devices used to meter a number of feeders or branch circuits.

Metering Device/Current Transformers, Add-on – metering devices/current transformers (“donuts”) installed within existing panelboards and connected to a main control panel for the purpose of metering power.

Mobile Home - a portable dwelling that is constructed to be towed on its own chassis, is designed for use without a permanent foundation, on a temporary or permanent basis, and has provision for connection to a supply service.

Modular Homes (prefabricated) - homes or sections of homes, which are fabricated and/or assembled in a plant, transported to the site and final assembled on a permanent foundation.

Modular Furniture - pre-assembled and pre-approved office furniture that is pre-wired and assembled on site. Generally, this equipment is connected to a single source of power. Treat each electrical connection point in these units as an outlet.

Motor Control Centre (MCC) – a manufactured assembly of a number of individual motor starters contained within a common enclosure, each complete with controllers and disconnecting means.

New Installation - the installation of a wiring system in a building or structure that did not previously have a wiring system.

Non-Metered Sub Service – a feeder or branch circuit without a meter.

Not Metal Enclosed High Voltage– equipment that has exposed live parts.

Nursing Home – also called a Long Term Care Home; a multi-unit dwelling where units and common areas are priced as commercial/institutional under Section 5 of the Fee Schedule.

OESC – Ontario Electrical Safety Code.

Permanent Foundation - material once installed is unable to be relocated i.e. - concrete including construction block, asphalt, and wood foundations constructed on site.

Permission to Energize Unapproved Equipment – allows an exhibitor to energize unapproved equipment at a single trade show event for demonstration purposes only. The applicant is responsible and liable for meeting the requirements of Rule 2-022 (sub rule 5) of the OESC.

Permission to Show Unapproved Equipment – allows an exhibitor to display unapproved equipment at a single trade show. This does not allow the exhibitor to plug in or use the unapproved item. The applicant is responsible and liable for meeting the requirements of Rule 2-022 (sub rule 5) of the OESC.

Plan Review - a general review and audit of a set of plans for a specific project, submitted for review as per the requirements of OESC Rule 2-010.

Pole Top Switch – transfer switch mounted at the top of a pole manually operated from the ground.

Power Optimizer - a device intended to create greater efficiency in an electrical circuit; an energy savings device.

Power Outlets - any outlet exceeding 20 amps or 120 Volts.

Power Pedestal - A ground mounted enclosure designed to supply/distribute electricity that incorporates overcurrent protection (breakers/fuses), and may also include receptacles. This equipment is typically located at marinas or campgrounds, but can also be found on private properties.

Primary Line - an underground or overhead circuit rated at >750 Volts.

Product Approvals - see Field Evaluation.

Renovation - any change to the original wiring including repair and replacement of the devices.

Retirement Home – a facility that provides rental accommodation to residents who live independently with minimal to moderate support; priced as Apartments under Section 4 of the Fee Schedule.

Residential Inspections -

- Trench - inspection of underground wiring.
- Service/connection - inspection of wiring to meter, inspection of main disconnect means (e.g. fuses or breakers) and inspection of grounding to service.

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- Rough-in - inspection of all electrical wiring prior to the installation of the drywall.
- Final - last inspection to ensure there is no open wiring.

Residential Unit - a residential dwelling with or without a basement, including detached, semi-detached, row house, farm house, modular or prefabricated home, or one unit of a duplex, triplex, or quadruplex.

Rooming House – a building that contains four or more rooming units where persons are harboured, received or lodged for hire, but does not include a hotel, motel, bed and breakfast establishment, hospital, special needs housing, or retirement home. Rooming houses are considered to be commercial for the application of fees.

RRAP – Residential Rehabilitation Assistance Program offering financial assistance to low-income homeowners for mandatory home repairs to preserve the quality of affordable housing.

Secondary Line - an underground or overhead circuit rated at ≤ 750 Volts.

Service - see Consumer service, Supply services or Consumer sub-service.

Sign - any sign (display units) without a separate service. This type of unit may range from a large outdoor display to a small neon window display. If it has a separate service, it is a Billboard (see above) for purposes of this fee schedule.

Sign (pylon) - see Sign (self-contained)

Sign (self-contained) – a sign or letter that has all its components contained within a single enclosure including ballasts or transformers and luminaires.

Sign (with remote ballasts) – a sign or letter where the ballasts or transformers are installed remote from the luminaries.

Single Family Dwelling – a dwelling unit consisting of a detached house, one unit of row housing, or one unit of a semi-detached, duplex, triplex, or quadruplex house, including the following homes: modular, prefab, mobile, or a unit within a larger building where the main entrance to individual unit is not from an enclosed common area.

Splitter - an enclosure containing terminal plates or bus bars having main and branch connectors.

Stacked House – a multi-level multi-unit residential building complex with dwelling units stacked on each other, where all units have direct access from the outside.

Sub-Service - see Consumer sub-service.

Supply Authority - a local distribution company (utility) that supplies and charges for power.

Supply Service - any one set of conductors run by a local distribution company (supply authority) from its main to a consumer's service point of connection. Generally, only one supply service is permitted to each building.

Temporary Service - connection of non-permanent service (e.g. temporary pole, shack, transportable trailer).

Temporary Wiring - wiring installations for buildings, structures or projects under construction or demolition. Also includes experimental or testing facilities of a non-permanent nature.

Trade Show – a business-to-business event aimed at a specific industry at which vendors promote their products and services. A person must generally be involved in that industry to be eligible to attend.

Traffic Signal System – a system of traffic signal equipment, poles, a traffic signal controller, traffic signal actuation and interconnection equipment and all associated materials required to regulate vehicular and pedestrian traffic.

Transformers - equipment used to step up, step down or isolate voltages (rated in KVA).

Unit Substation - high voltage equipment consisting of a transformer and load break device shipped to the site as one piece of equipment.

Vault - a room or area with an isolated enclosure with fire resisting walls, ceilings, and floors for the purpose of housing transformers and other electrical equipment.

Wiring Altered – where a Code-compliant installation has been altered and is now no longer Code-compliant, i.e. unauthorized connection where a meter is by-passed.

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