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Section 1: Introduction

This Guide provides information on how to submit a notification of electrical work and calculate the associated fees. The Electrical Safety Authority (ESA) is the sole organization 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 a licensed electrical contractor [LEC] or other party in Ontario.

ESA is committed to maintaining the security and confidentiality of personal information in accordance with applicable privacy legislation and our Customer Privacy Policy. ESA also makes stipulated categories of information (not including personal information) available upon request as set out in our Access and Privacy Code.

By submitting personal information to ESA, you are consenting to ESA collecting, using and disclosing your personal information for the purposes set out in the Customer Privacy Policy. You represent that you have all necessary authority and/or have obtained all necessary consents from any other individuals about whom you provide personal information to ESA in order to enable us to collect, use and disclose such personal information for the purpose described above. Our Customer Privacy Policy and Access and Privacy Code are posted on our website at www.esasafe.com.

Accessible formats for this Guide, and communication supports are available upon request.

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) to legally operate an electrical contracting business in the Province of Ontario.

To submit a notification 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 information about Contractor Licensing requirements, visit our website at 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 <https://www.csagroup.org/store/>.

Download an electronic copy of the Wiring Fee Guide by visiting www.esasafe.com.

1.2 Filing an Electrical Notification

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

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 Notification Service

ESA offers an online service for account

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customers to:

- Submit notifications electronically
- Check the status of notifications
- View defects
- View and reprint correspondence
- Re-schedule notifications
- 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 notification and fee estimate may require adjustments to ensure the complete installation and number of electrical devices are reflected. Additional cost recovery fees may apply.

1.4 Risk-Based Oversight

ESA offers programs to eligible LECs and qualified installers for specific installations within these sectors:

- Residential and apartment unit small job (up to 10 outlets/devices as defined in Section 4.2.1)
- Commercial/industrial/agricultural and apartment common areas small job (up to 20 non-classified outlets/devices as defined in Section 5.7)
- Residential HVAC (defined in Section 4.4.1)
- Residential pools, hot tubs and splash pads
- Central metering
- Residential generators (permanent) and/or transfer switches
- Retrofitted luminaires

ESA offers preauthorized reconnections to eligible LECs for:

- Residential service changes and repairs $\leq 200A$
- Commercial/Industrial/Agricultural service changes and repairs $\leq 400A$ 120/240V single phase, or 120/208V three phase
- Low voltage service maintenance $\leq 4000A$

- High voltage substation maintenance
- Poleline maintenance

For more information about Risk-Based Oversight (RBO), visit the ESA website at www.esasafe.com.

1.5 Continuous Safety Services

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

1.6 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:

Website: www.esamining.com

Phone: 1-866-646-3277

Email:

esaminingservices@electricalsafety.on.ca

1.7 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:

Email: esa.Cambridge@electricalsafety.on.ca

Phone: 1-877-372-7233

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

Section 2: Inspection Notification Guidelines

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2.1 Minimum Fee

The minimum fee for a notification for any wiring installation is \$88. Fees marked with * are subject to the minimum fee if the total fee is less than \$88.

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 responsible authority having jurisdiction (AHJ). The individual or business must also have public liability and property damage insurance coverage of at least \$2,000,000 and must have an account with ESA.

Notifications 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 Inspection Working Hours

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

2.5.1 Extension of Normal Hours

When an inspection visit requires an **extension of the normal hours**, the fee is \$235 [MI08] per hour or fraction, in addition to the fee payable for the service.

2.5.2 Out of Area, or Same-Day/ Emergency Inspection

For an inspection involving a visit **during normal working hours** but on a day when the inspector is **not in the area**, or for an **emergency or same-day inspection**, the fee is \$170 [MI09] per hour or fraction, in addition to the fee payable for the service.

2.5.3 Scheduled Outside Normal Working Hours

For an inspection **scheduled outside normal working hours**, fees of \$235 [MI21] per hour or fraction (minimum of 2 hours) up to a maximum of \$704 (for the first 4 hours) plus \$176 per hour or fraction thereof beyond the first 4 hours are charged in addition to the fee payable for the inspection service.

Scheduled overtime inspections:

- Require a minimum of two business days' notice.
 - See Section 2.5.4 if requesting the

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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 \$170 [MI06] will be charged Mondays to Fridays, and a fee of \$340 [MI06] will be charged for weekends and statutory holidays.

2.5.4 Unscheduled Outside Normal Working Hours

For an **unscheduled** inspection involving a **visit outside normal working hours**, the fee is \$704 for the first 4 hours plus \$176 [MI07] per each additional hour or fraction, in addition to the fees payable for the inspection service.

2.5.5 After-Hours Telephone Consultation

The after-hours telephone consultation fee is \$92 (NC \$93) [MI20] per call where a service connection authorization is required.

2.6 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 notifications 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
 - \$170 [R043] per hour or fraction spent by the inspector.

2.7 Miscellaneous Fees

The fee for any mandated ESA service that is not outlined in this schedule is \$170 per hour or fraction.

The fee for additional site visits is \$170 [MI04] per hour or fraction.

- 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 a notification on behalf of applicant - beyond normal assistance - \$164 [MI06].
- Adding additional work items/shortages or making other significant data changes to notifications - \$164 [MI06].
- Consultation (site visit) beyond normal assistance - \$170 [MI05].
- 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 - \$170 [MI04].
- Access to a site due to complex security procedures - \$170 [MI06].
- A separate visit to inspect corrected defects - \$85 [MI30].
- A separate visit to re-inspect uncorrected defects - \$170 [MI04].
- Processing defects after the specified correction time has expired - \$170 [MI27].
- Re-instating a deferred customer account - \$170 [MI06].
- Building demolition - \$170 [C093].
- Power disconnections - issuing D4 [MI28], D5 [MI29] disconnection letters, and power disconnected letter [MI41] - \$170.
- Fire Investigation, Accident and Product Incident reports - \$164.
- 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

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owner, agent or tenant.

- Other services determined by the inspector.

2.8 Re-Energize Electrical Service

The fee to re-energize service:

- After fire, flood, lightning strike, explosion, power surge or other disaster - \$332 [MI31].
- After six months (i.e., for non-occupancy or non-payment):
 - Single-family dwelling – \$332 [MI34]; additional time beyond 2 hours is \$170 per hour or fraction.
 - Residential multi-unit dwelling – \$161 per unit [MI37].
 - Apartment – \$137 per unit for each of the first four units and \$17 per unit for each additional [MI36].
 - Mobile home – \$161 [MI35].
 - ICIA facilities – \$332 [MI38]; additional time beyond 2 hours is \$170 per hour or fraction.
- Grow op, meth lab or other clandestine operation; or for wiring altered/theft of power – \$623 [MI39].

2.9 Record Searches and Access to Information Requests

The fee for these services is \$73 [RS01/RS02] including HST. The fee to conduct an Access and Privacy Code review in response to a complex Access to Information Request is \$159/hour [RS03].

2.10 Miscellaneous Letters

The fee is \$87 [MI02] for miscellaneous letters, i.e. Fire Alarm, Fuel Safety Compliance, Statement of Electrical Installation Status, etc.

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 Notifications

2.12.1 Residential and Apartment

Residential (new and renovation) and apartment (renovation) 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 \$30 [R042]. When resubmitted, full inspection fees will apply to the new notification.

The notification is renewed if a minimum of one inspection occurs during the first year. For work done exclusively in the dwelling units, a renewal fee will be applied as follows:

- \$56 [MI22] for contractors
- \$135 [MI24] for non-contractors

For notifications that include work done in the common areas of an apartment building, the ICIA renewal fee of \$133 [MI26] applies.

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 \$133 [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 a Notification

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

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2.13 Payment Guidelines

ESA fees are due and payable when a notification 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:

- Services provided entirely on a reserve are not subject to HST.
- 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 an NSF cheque.

2.16 Refunds

Fees paid shall be refunded under the following conditions:

- More than one notification 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 a notification is processed and then the customer cancels the notification before an inspection is requested.

A refund-processing fee of \$30 [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 or other authority having jurisdiction (AHJ) to inspect premises when suspected life and/or property hazards have been identified. The fee is \$332 [FM01]. Additional time required over 2 hours will be at the rate of \$170 per hour or fraction.

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 the submission of a separate notification 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 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 home) and for multi-unit residential complexes (e.g. row-house, townhouse, semi-detached house, laneway house, duplex, triplex and quadruplex) is priced for each unit.

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Fee for a dwelling unit ≤7,000 square feet is:

	Contractor	Non-Contractor
Service ≤200A [R030]	\$243	\$545
Service 201-400A [R031]	\$351	\$712
Service 401A+ [R052]	\$502	\$944

The fee **includes** up to two inspection visits (e.g. one for the rough-in and service, and one for the final); additional fees are applicable for each additional visit, see Section 2.7.

The fee for a dwelling unit >7,000 square feet is:

	Contractor	Non-Contractor
Service ≤400A [R034]	\$502	\$944
Service 401A+ [R095]	\$850	\$1,597

The fee **includes** up to three inspection visits. Additional fees are applicable for each additional visit, see Section 2.7.

See additional related notes following section 4.1.2.

4.1.2 Stacked-Type Housing

The fee for individual units of stacked housing is \$177 (NC \$398) [R055].

The fee **includes** up to two inspection visits (e.g. one for the rough-in and service, and one for the final); additional fees are applicable for each additional visit, see Section 2.7.

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 equipment, see Section 4.4.1 for examples

(2) The fee **excludes**:

- Separate living quarters (granny suite, basement apartment) - the fee to inspect is \$134 (NC \$146) [R028] if installed by the same contractor at the same time as the construction of the new house; if not wired at the same time, see Section 4.2.1 [R026/27].
- Generators/transfer switches, see Section 4.4.2 [R067, R080].
- Wiring and/or service for detached outbuildings and structures such as garages, kennels, fountains, greenhouses, garden sheds, and similar structures, see Note (2) below for service only [R071/72/73/79], or Section 4.2.1 for wiring only or wiring with service [R026/27].
- Pool houses, see Section 4.5.4 [R015].
- Fire and security alarm devices, see Section 4.2.1 [R026].
- Geothermal equipment, see Section 4.4.3 [R081].
- Electric vehicle chargers, see Section 4.4.4 [R078].
- Energy storage systems, see Sections 4.4.5 [R097], 5.1.6 and 8.3.
- Swimming pools and hot tubs, see Section 4.5 [R012].
- Receptacles installed for a dialysis machine, see Section 5.7 **classified**, [C018].
- Renewable energy, see Section 8.

Other installation scenarios:

(1) For a modular or prefabricated home **on a slab**, see note 2 below.

(2) The fee to install the service equipment only on a New Residence is \$82* (NC \$88) for each service rated ≤400A [R071, R072], \$152 (NC \$162) for services 401-799A [R073], and \$338 (NC \$366) [R079] for services ≥800A+.

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- (3) The fee to install a new ganged meterbase only on a New Residence is \$82* (NC \$88) [R074] per meter, see 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); see Section 4.2.1 for pricing [R056].
- (5) The fee for a final inspection only on a New Residence is \$170 [R096].

4.1.3 Apartment Building and Retirement Home

The fee is \$107 (NC \$115) [R019] for each of the first four units, plus:

- \$52 (NC \$58) [R091] per unit when the total number of devices is 80 or fewer.
- \$107 (NC \$115) [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, see Section 2.7.
- (2) The fees **include**:
 - Connection authorization for each dwelling unit.
 - Mechanical equipment per Section 4.4.1.
- (3) The fees **exclude**:
 - Electric vehicle chargers, see Section 4.4.4 [R078].
 - Energy storage systems, see Sections 4.4.5 [R097], 5.1.6 and 8.3.
 - Swimming pools and hot tubs, see Section 4.5 [R012].
 - Receptacles installed for a dialysis machine, see Section 5.7 **classified** [C018].
 - Renewable energy, see Section 8.
 - HV equipment, see Section 5.1.
 - Outlying equipment, e.g. equipment not attached to or installed in the building, see Section 5.1.

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.
- (2) The fees **exclude** commercial areas (e.g. retail stores), high voltage installations and outlying equipment; see Section 5.

4.1.4 Mobile Home / Residential Trailer

The fee is \$134 (NC \$146) [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]	With Service [R027]	No Service [R026]	With Service [R027]
1-10	\$44	\$101	\$62*	\$213
11-30	\$88	\$144	\$137	\$247
31-40	\$137	\$193	\$211	\$282
41+	\$193	\$246	\$327	\$384

Notes:

- (1) **Outlets include** devices such as:
 - Receptacles
 - Plugmold
 - Power outlets
 - Surge suppressors
 - Thermostats
 - Baseboard heaters
 - Dishwashers (lic)
 - Range hoods (lic)
 - Breaker(s) only
 - Switches
 - Fixtures
 - Yard lights
 - Track lighting
 - Ceiling fans
 - Exhaust fans
 - Fire alarm device
 - Security alarm devices
 - Power monitors
- (2) **Service includes** replacement of any component of the main service equipment:
 - Mast (includes reattaching the clevis)
 - Meterbase
 - Service entrance equipment

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- Main disconnect switch
- Main panel

- (3) The fee for outlets with service is only applicable if filed at the same time.
- (4) A Residential or Apartment small job is defined as 1-10 outlets only.
- a. A small job may only be filed by a contractor, see Section 2.3.
 - b. Small jobs are filed as per OESC 2-004, when the work is ready for a Final Inspection. A job requiring a Rough-In Inspection and Final Inspection does not qualify as a small job.
- (5) In a multi-unit building (duplex, triplex, quadruplex), the fee **includes** the inspection of electrical work done in common and parking areas when it is done at the same time as the unit work by the same contractor.
- (6) There is no charge to inspect subpanels (pony panels) if inspected at the same time as other work [R057], if a separate inspection is requested the fee is \$44* (NC \$46*) [R068].
- (7) For an electric vehicle receptacle/charger, see Section 4.4.4 [R078].
- (8) For a dialysis machine receptacle, see Section 5.7 (**classified**) [C018].

4.2.2 Renovation of Apartment Units and Retirement Homes

The fee is \$110 (NC \$120) [R016] for a single unit, or \$44 for an LEC when the work is limited to 1-10 outlets and devices only (see Section 4.2.1).

For units renovated at the same time, the fee is \$110 (NC \$120) [R016] per unit for each of the first four units, plus:

- \$6 (NC \$7) [R069] per unit if the renovation involves 1-3 outlets or panels.
- \$17 (NC \$22) [R017] per unit if the renovation involves 4-9 outlets or panels.
- \$52 (NC \$58) [R018] per unit if the renovation involves 10-40 outlets or panels.

- \$104 (NC \$113) [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, see Section 2.7.
- (2) See Section 4.2.1 Note (1) for examples of outlets.
- (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, see Section 4.4.1.
 - Electric vehicle chargers, see Section 4.4.4 [R078].
 - Energy storage systems, see Sections 4.4.5 [R097], 5.1.6 and 8.3.
 - Swimming pools and hot tubs, see Section 4.5 [R012].
 - Receptacles installed for a dialysis machine, see Section 5.7 **classified** [C018].
 - Renewable energy, see Section 8.
 - Commercial areas (e.g. retail stores), see Section 5.
 - HV equipment, see Section 5.1.
 - Outlying equipment, e.g. equipment not attached to or installed in the building, see Section 5.1.
- (5) See Section 5 if the work is limited to common areas only.

4.2.2.1 Apartment Building Upgrade

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. [R070]

The fee for each unit is:

- Suites 1 & 2 \$110 each

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- Suites 3-20 \$6 each
- Suites 21-60 \$5 each
- Suites 61-100 \$3 each
- Suites 101+ \$2 each

Notes:

(1) The fee is based on multiple units inspected at the same time. Visits to individual units may result in additional inspection fees, see Section 2.7.

(2) This fee does not include the inspection of work done in common areas at the same time as the unit upgrade. Refer to Section 5.

Note: Applicable to subsections 4.2.2 and 4.2.2.1

If the building has four or fewer dwelling units, see 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 at the same time, is as follows:

For conversions with ≤50 luminaires:

# of Luminaires	Contractor [C090]	Non-Contractor [C090]
1 st group of 10	\$44	\$89
Each addt'l group of 10 to 50		\$8

For conversions with >50 luminaires:

# of Luminaires	Contractor [C091]	Non-Contractor [C091]
51-60	\$121	\$129
Each addt'l group of 10, up to 1,000	\$7	\$8
Each addt'l group of 50 beyond 1,000	\$7	\$8

Notes:

- (1) A pre-assessment fee of up to \$170 [C088, C098] applies per notification when the conversion involves >50 luminaires. Refer to the ESA website at www.esasafe.com for program details.
- (2) The fee for T12-T8 fluorescent ballast replacement only is priced per Section 5.7 [C089].

4.3 Consumer Service

This section covers electrical installations limited to:

- Mast (includes reattaching the clevis)
- Meterbase
- Service entrance equipment
- Main disconnect switch
- Main panel

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

The fee is \$82* (NC \$204) [R003, R075, R076] for each service.

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 see Section 2.7.
- (3) See 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 \$82* (NC \$204) [R077] per meter installed on the gang.
- The fee to convert an existing ganged meterbase to a single meter is \$82* (NC \$88) [R071, R072] ≤400A, and \$152 (NC \$162) [R073] for ≥401A.

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Note: Applicable to Section 4.3

If changes are being made to the wiring at the same time, see Section 4.2.1 [R027].

4.4 Residential Equipment

4.4.1 Mechanical, HVAC and related equipment

This section covers equipment such as:

- Furnaces¹
- Water heaters¹
- Air conditioners¹
- Air Handlers¹
- Heat pumps¹
- Boilers¹
- Heat recovery ventilators¹
- Gas fireplaces¹
- Dishwashers (unlic)
- Range hoods (unlic)
- Battery chargers
- In-floor heating
- Heat trace cable
- Jacuzzi bathtubs
- Steam showers
- Saunas
- Submersible pumps
- Elevators
- Power optimizers

The fee is \$82* (NC \$89) for the first piece of equipment plus \$28 (NC \$31) [R067] for each additional piece of equipment installed by the same contractor at the same time.

Note¹: The per-dwelling unit fee is \$38 for contractors when the installation is limited to these items only [R098].

The fee for branch wiring only or bonding only of equipment done by an LEC (when an equipment installer is connecting the equipment) is \$82* [R059] for the first piece of equipment plus \$28 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, the fee is \$82* (NC \$89) for the first piece of equipment plus \$28 (NC \$31) [R067] for each additional related piece of equipment or device.

When separate inspections are requested by the same contractor for the transfer switch and

generator, the fee is \$165 (NC \$177) [R080].

4.4.3 Geothermal and related equipment

The fee is \$82* (NC \$89) for the first piece of equipment plus \$28 (NC \$31) [R081] for each additional related piece of equipment or device installed by the same contractor at the same time.

4.4.4 Electric Vehicle Chargers and related equipment

The fee is \$82* (NC \$89) for the first piece of equipment plus \$28 (NC \$31) [R078] for each additional related piece of equipment or device installed by the same contractor at the same time.

4.4.5 Energy Storage Systems approved assembly (self-contained and other) and Bi-Directional EV Chargers

The fee is \$165 (NC \$177) for the first piece of equipment plus \$28 (NC \$31) [R097] for each additional related piece of equipment (i.e. bi-directional EV charger, disconnect switch), installed by the same contractor at the same time.

4.5 Pools and Hot Tubs

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

The fee is \$82* (NC \$84*) [R014].

4.5.2 Pool Equipment Only (new or replacement) or Pool Bonding Only

The fee is \$82* (NC \$89) [R013].

Notes: Applicable to subsections 4.5.1 and 4.5.2

(1) The fee **does not include** the inspection of a pool shed (a structure housing the pool equipment only) or pool house, see Section 4.5.4 [R015].

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(2) 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 \$170 [C050] per hour or fraction, see Section 5.4.2.

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

The fee is \$161 (NC \$174) [R012] and includes up to 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 [R061]; otherwise see Section 4.5.4 [R015].

4.5.4 Pool House

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

# Outlets	Contractor [R015]	Non-Contractor [R015]
1-10	\$55*	\$62*
11-40	\$137	\$211
41+	\$193	\$327

Section 5: Industrial / Commercial / Institutional and Agricultural Services

5.1 High Voltage Installations >750 Volts (Temporary & Permanent)

5.1.1 Underground Connection from LDC

The fee is \$247 (NC \$269) [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 \$524 (NC \$567) [C002] and includes:

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

5.1.3 HV Equipment

- Each metal enclosed switchgear - either indoor or outdoor \$137 (NC \$148) [C003].
 - Each connected cubicle within a metal enclosed switchgear \$55 (NC \$59) [C004].
- Each open fused switch – either pole mounted or structure mounted \$137 (NC \$148) [C003].
- High voltage generator switchgear, motor controller, capacitor controller or transfer switch - \$137 (NC \$148) [C003].
- A high voltage transformer, either a single unit or three single-phase transformers connected in a three phase configuration - \$247 (NC \$269) [C024].
 - Each additional high voltage transformer installed by the same contractor at the same time - \$167 (NC \$180) [C024].
- A high voltage motor, generator or capacitor bank - \$247 (NC \$269) [C024].
 - Each additional high voltage motor, generator or capacitor bank installed by the same contractor at the same time - \$167 (NC \$180) [C024].
- High voltage grounding including pad mount transformer grounding, station ground electrode, remote station ground electrode, and station fence grounding - \$170 [C052]

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per hour or fraction.

5.1.4 Replacement / Relocation of HV Components

The fee for each of the following categories, when installed by the same contractor at the same time, is \$247 (NC \$269) for the first unit, plus \$167 (NC \$180) for each additional unit.

- Up to 3 lightning (surge) arresters, 1 per phase [C047].
- Up to 3 high voltage cable stress cones per metal enclosed switchgear, cubicle or pole [C047].
- Installation of up to 3 cable splices at the same location [C047].
- Up to 3 bushings on the same transformer [C047].
- Change up to 3 fuses in a switch [C047].

The fee to replace or relocate some or all insulators associated with a single fused or non-fused switch is \$167 (NC \$180) [C046].

5.1.5 HV Substation Maintenance and Testing

The fee is \$170 [C005, C063, C064 or C065] per hour or fraction per substation. This applies to pre-planned preventative maintenance on substations >750V up to and including 115kV/230kV for minor work and/or like-for-like replacement of equipment (equivalent rating/characteristics).

Refer to the other applicable sections for additional fees to replace equipment or components, or to connect a temporary generator (HV or LV) to maintain operation during the substation outage.

5.1.6 Renewable Energy and Energy Storage Systems (ESS)

- High voltage wind turbine assemblies will be

charged as high voltage generators - \$247 (NC \$269) [C024] for the first and \$167 (\$180) for each additional.

- Photovoltaic and ESS installations with DC circuit voltages >1,500V will have equipment such as combiners, switches, re-combiners and inverters charged as high voltage metal enclosed switchgear – either indoor or outdoor \$137 (NC \$148) [C003].

5.1.7 Primary Lines - Temporary & Permanent

- The fee for an overhead primary is \$137 (NC \$148) for the first 10 poles or fraction plus \$82 (NC \$89) [C044] for each additional 10 poles or fraction (the pole count may be combined with secondary poles).
- The fee for HV duct bank is \$170 [C050] per hour or fraction.
- The fee for an underground primary line is \$170 [C050] per hour or fraction.

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
≤225A [C006]	\$87*	\$93
226-799A [C007]	\$152	\$162
≥800A [C008]	\$338	\$366

Notes:

(1) The fee includes:

- Consumer service box
- Meter
- Connection authorization
- Integrated sections of distribution equipment

(2) Where the integrated distribution equipment is supplied in sections and assembled on site,

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each section beyond the first will be charged per Section 5.5 [C019, C020, C021 based on amperage].

- (3) For any field-wired distribution equipment, see Section 5.5 [C019, C020, C021 based on amperage].
- (4) **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 >750V, see Section 5.1.

5.2.2 LV Service - Routine Preventive Maintenance

The fee is \$170 [C072] per hour or fraction for maintenance work on low voltage services rated up to 600V and 4,000A. Allowable maintenance work includes:

- Torqueing (tightening) connections in the main switch
- Repairing the switch mechanism or parts related to the main switch
- Insulation resistance testing of service conductors

Notes:

- (1) See Section 5.2.1 Low Voltage Consumer Service when the maintenance is downstream of the main service switch.
- (2) This fee does not include the connection of a generator if required, see Section 5.6 [C023].

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

The fee for electronic/check metering is:

Electronic Meter [C022]	Contractor	Non-Contractor
1 st meter	\$87*	\$93
2 nd meter	\$28	\$31
Each add'l meter	\$6	\$7

5.2.4 Bus Shelters and Cable TV Services

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

5.2.5 Central Metering Service

The fee is \$82* (NC \$89) [C051].

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

5.2.6 Permanent Pole Service

The fee is \$137 (NC \$148) [C048] if installed by the same contractor at the same time, and

includes:

- Pole
- Meter
- Panel
- Outlets installed on the pole

5.2.7 School Portable

The fee is \$94 (NC \$105) [C055] per unit.

Notes:

(1) The fee **includes:**

- Service connection
- Fire alarm devices
- Secondary overhead/underground lines

(2) The fee **excludes:**

- Central meter (see Section 5.2.5) [C051]
- Primary lines (see Section 5.1.7) [C044]

5.2.8 Trailer

The fee is \$137 (NC \$148) [C068] per unit.

Notes:

(1) This section covers the connection of work trailers used in construction or as remote standalone offices.

(2) The fee **includes** the inspection of the wiring of the trailer to an existing service or generator, and a connection authorization to the utility if required.

(3) If installing a temporary service to energize

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the trailer, also see Section 5.3.1 [C012].

5.3 Temporary Services

5.3.1 Single Phase

The fee is \$220 (NC \$240) [C012] if installed by the same contractor at the same time, and

includes:

- Service
- Pole
- Panels
- Outlets installed on the pole

5.3.2 Three Phase

The fee is \$275 (NC \$299) [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 \$413 (NC \$448) for the first 10 poles or fraction, plus \$110 (NC \$117) [C013] for each additional 10 poles or fraction. The fee **includes:**

- Service
- Poles
- Panels
- Outlets installed on the poles

Note: Applicable to all subsections in Section 5.3

Temporary service fees are valid for a period of 180 days. An additional fee of \$82 (NC \$85) [C056] will apply for each 90-day renewal or fraction.

5.4 Secondary Lines - Temporary & Permanent

5.4.1 Overhead Lines

The fee for overhead secondary lines, or a combination of primary and secondary lines, is \$137 (NC \$148) for the first 10 poles or fraction, plus \$82 (NC \$89) [C044] for each additional ten poles or fraction.

5.4.2 Underground Secondary 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 \$170 [C050] per hour or fraction.

Note: The fee for temporary lines is valid for a period of 180 days. An additional fee of \$82 (NC \$85) [C056] will apply for each 90-day renewal.

5.4.3 Pole Line Maintenance

The fee is \$92 [C095] and applies to pole line maintenance work <50kV on temporary and permanent lines. Maintenance work includes:

- Cable terminators
- Fuse cut outs
- Guy and anchor replacement
- Lightning arresters
- Pole replacement
- Pole top extension
- Repair to grounding and bonding conductors
- Cross arm replacement
- Pole-mounted transformer replacement
- Secondary and HV cable/conductor repairs
- Single phase ground operated switch
- Like-for-like replacement of central metering

Note: New work, shortening spans, relocating poles and 3-phase ground operated switches do not meet the definition of maintenance (see Section 5.4.1).

5.5 Distribution Equipment (≤750 Volts)

This section covers:

- Non-metered feeders
- Splitters
- Inverters
- Combiner boxes
- Panelboards, incl;
 - Power panels
- Breakers
- Rectifiers
- Switchboards
- Switches, incl:
 - Disconnect
 - Isolation

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- Lighting panels
- Control panels
- Fire alarm panels
- Motor control centres (MCC)
- Transfer
- Pole top
- Buss plug

The fee per item is calculated based on amperage when installed by the same contractor:

Amperes	Contractor	Non-Contractor
≤225A [C019]	\$43*	\$46*
226-799A [C020]	\$72*	\$78*
≥800A [C021]	\$167	\$180

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 3).
- (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 equipment such as:

- Transformers ≥1KVA
- Generators >5kW
- Alternators >5kW
- Motors ≥1HP
- UPS units
- Battery chargers
- Heat trace cable >5kW
- Heating & cooking apparatus >5kW
- Capacitors
- Phone booths
- Lottery machines
- ATMs
- Power optimizers
- Neutral isolators

The fee, when installed by the same contractor at the same time, is \$82* (NC \$89) for the first item, plus \$53 (NC \$59) [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 an LEC (when an equipment installer is connecting the equipment), is \$44* [C071] for each item.
- (3) 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].
- (4) 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.
- (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**).

The fee is based on the total number of devices installed at the same time. Included in this section are devices such as:

- Receptacles
- Plugmold
- Fans
- Light fixtures, incl
 - Pot lights
 - Track lights
 - High bay
 - Sentinel
 - Bollards
 - Streetlight
 - Parking lot
- Solenoids
- Low voltage controls
- Transformers <1KVA
- Generators ≤5kW
- Alternators ≤5kW
- Fractional motors <1HP
- Annunciator panels
- Fire alarm pull stations
- Alarm bells
- Detectors
- Self-contained signs

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- Magnetic locks
- Pylon signs
- Trapped key interlocks
- Heat trace cable $\leq 5\text{kW}$
- Heating & cooking apparatus $\leq 5\text{kW}$
- Modular furniture connections and/or whip/power/jiffy poles

The fee for **non-classified** location(s) is:

# of Devices	Contractor [C017]	Non-Contractor [C017]
1-10	\$44	\$89
11-20		\$97
21-30	\$99	\$105
Each addt'l group of 10	\$7	\$8

The fee for **classified** location(s) is:

# of Devices	Contractor [C018]	Non-Contractor [C018]
1 st group of 10	\$137	\$148
Each addt'l group of 10	\$29	\$33

Notes:

- (1) For generators, alternators, and heating & cooking apparatus ($>5\text{ kW}$), transformers ($\geq 1\text{ KVA}$), and motors ($\geq 1\text{ HP}$), see Section 5.6 [C023].
- (2) Trapped key interlocks are not eligible under the RBO small job program.
- (3) Each solar panel included as part of an existing renewable energy system shall be counted as a non-classified device [C017] when being repaired or replaced.
- (4) An ICIA small job is defined as 1-20 outlets in a non-classified location only.
 - a. A small job may only be filed by a contractor, see section 2.3.
 - b. Small jobs are filed as per OESC 2-004, when the work is ready for a Final Inspection. A job requiring a Rough-In Inspection and Final Inspection does not qualify as a small job.

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 at the same time, is as follows:

For conversions with ≤ 50 luminaires:

# of Luminaires	Contractor [C090]	Non-Contractor [C090]
1 st group of 10	\$44	\$89
Each addt'l group of 10, max of 50		\$8

For conversions with >50 luminaires:

# of Luminaires	Contractor [C091]	Non-Contractor [C091]
51-60	\$121	\$129
Each addt'l group of 10, max of 1,000	\$7	\$8
Each addt'l group of 50 beyond 1,000	\$7	\$8

Notes:

- (1) A pre-assessment fee of up to \$170 [C088] applies per notification when the conversion involves >50 luminaires. Refer to the ESA website at www.esasafe.com for program details.
- (2) The fee for T12-T8 fluorescent ballast replacement only is priced per Section 5.7 [C089].

5.7.2 Runway Lighting

Count each runway light fixture as a separate non-classified device [C017], and associated isolation transformers as power outlets (Section 5.7.4) [C053] in calculating the fee.

5.7.3 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

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the pedestal, or the pedestal's nameplate ampere rating (see 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, (see Section 5.7 for devices [C017] and Section 5.7.4 for power outlets [C053]).

5.7.4 Power Outlets

Defined as outlets >20A or >120V. This section considers installations in non-classified and classified locations (**see definition**).

The fee for **non-classified** locations is:

# of Power Outlets	Contractor [C053]	Non-Contractor [C053]
1 st outlet	\$27*	\$30*
Each addt'l outlet	\$6	\$7

The fee for **classified** locations is:

# of Power Outlets	Contractor [C054]	Non-Contractor [C054]
1 st outlet	\$35*	\$38*
Each addt'l outlet	\$8	\$9

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

5.7.5 Batteries installed as part of Renewable Energy and Energy Storage Systems

The fee for batteries installed as part of a renewable energy or energy storage system is based on the total number installed at the same time by the same installer.

# of Batteries	Contractor [C096]	Non-Contractor [C096]
1 st group of 10	\$82*	\$89
Each addt'l group of 10	\$7	\$8

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 \$82 (NC \$85) [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 \$137 (NC \$148) [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; see Section 5.7 [C017].

5.10.3 Signs with Remote Ballasts / Transformers

The fee is \$137 (NC \$148) [C057] per multiple of 10 ballasts/transformers or fraction.

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5.10.4 Outline Lighting with Remote Ballasts

The fee for is \$137 (NC \$148) [C058] per multiple of 10 ballasts/transformers or fraction.

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 Theatre, Theatrical Production, Traveling Show, Film, TV, Video and Commercial Production, and Special Event

6.1.1 Theatre, Theatrical Production, Traveling Show, Film, TV and Video Shoot

The fee for each location (base camps, tech lands, remote sets, studio sets, etc.), is \$146 (NC \$157) [C032] and is valid for up to 7 days.

Additional fees apply for each additional set and/or location (base camps, tech lands, remote

sets, studio sets, etc.) filed after the initial submission at \$146 (NC \$157) [C032].

A fee is also applied at \$87 (NC \$89) [C042] per week for the duration of the production (including build-out, electrical rigging and shooting periods).

Overtime fees for weekend, holiday and inspections outside of normal working hours will also be applied, see Section 2.5.

6.1.2 Commercial Shoot

The fee for inspecting each commercial shoot is \$87* (NC \$93) [C041] and is valid for up to 7 days.

Additional fees apply for each additional location filed after the initial submission at \$87 (NC \$93) [C041].

Overtime fees for weekend, holiday and inspections outside of normal working hours will also be applied, see Section 2.5.

6.1.3 Special Event

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 \$339 [C075] (for up to 2 hours). This fee is valid for each 7-day period or portion thereof.

Notes:

- (1) Overtime fees for weekend, holiday and inspections after 5:00 p.m. are applied in place of the regular inspection fee, see Section 2.5.
- (2) Additional time required over 2 hours will be at the rate of \$176 [C075] per hour or fraction.
- (3) A notification is not required if all equipment is plugged into existing standard receptacles

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using approved extension cords; or power is supplied by a portable generator $\leq 12\text{kW}/240\text{V}$ using approved extension cords.

- (4) 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:
- Weekly re-inspection \$87 (NC \$89) [C042] for changing studio sets.
 - Monthly re-inspection \$156 (NC \$158) [C066] for static studio sets.
- (3) A connection authorization by an ESA inspector is required before equipment can be energized.
- (4) The fees in this section include a connection authorization that is valid for 7 days.

6.2 Carnival

The fee for the first 5 rides/booths or less is \$146 (NC \$157) [C030]. The fee for each additional multiple of 5 rides/booths or less, inspected at the same time, is \$89 (NC \$94).

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 2.5.
- (3) The fees in this section include a connection authorization that is valid for 7 days.
- (4) The fee for the renewal of the connection authorization is \$87 (NC \$89) [C042] for each additional 7 days.
- (5) An additional fee of \$170 [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 Show

For each multiple of 50 booths or fraction, the fee is \$283 (NC \$295) [C059], plus distribution equipment (see Section 5.5) [C019, C020, C021] and low voltage miscellaneous equipment (see Section 5.6) [C023].

Note: The fee **includes** a connection authorization that is valid for 7 days. The fee for renewal of the connection authorization is \$87 (NC \$89) [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 \$67 [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 \$156 [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].
- 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,

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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: See 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 \$460 (NC \$466) [C045].

When installed by the same contractor at the same time, the fee **includes:**

- Signal heads
- Controller
- Underground and/or overhead lines
- Service and connection authorization if required
- All devices including street lighting installed to illuminate the intersection or area served by the signal system

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 notifications are not required. The fee is based on the total number of units in the system being maintained as follows:

- \$322 for each multiple of 50 traffic signal systems or fraction
- \$322 for each multiple of 1,500 streetlights or fraction

Note: Refer to the ESA website at

www.esasafe.com for program details.

Section 8: Distributed Energy Resources

8.1 Wind Turbine Systems

8.1.1 Project Generation Capacity ≤ 10 kW

The fee is \$323 [C077] if installed by an LEC. The fee is \$528 [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 \$323 [C078] for the turbine installer plus \$323 [C077] for the LEC. The fee includes up to two visits. For additional visits, see Section 2.7 for applicable fees.

8.1.2 Project Generation Capacity > 10 kW

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

- Turbines, generators and transformers (Section 5.6) [C023]
 - For HV wind turbine assemblies, see Section 5.1.6 [C024].
- Inverters, rectifiers, and disconnect switches (Section 5.5) [C019, C020, C021 based on amperage].
- Batteries (Section 5.7.5) [C096].
- Other devices (Section 5.7) [C017].

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 \$323 [C077] if installed by an LEC. The fee is \$528 [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),

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the fee is \$323 [C078] for the PV installer plus \$323 [C077] for the LEC. The fee includes up to two visits. For additional visits, see Section 2.7 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 circuit voltages >1,500V, see Section 5.1.6.
- Transformers (Section 5.6) [C023].
- Batteries (Section 5.7.5) [C096].
- Other devices (Section 5.7) [C017].
- Solar Photovoltaic “glass” panels based on kW rating as per the table below:

Installation Rating	Fee
>10-250kW [C079]	\$1,200 flat fee
251-500 kW [C080]	\$2,998 flat fee
≥501kW [C081]	\$5,993 per MW

Notes:

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

8.3 Energy Storage Systems (ESS), Cogen (CHP Generation) and Bi-Directional Electric Vehicle (EV) Chargers

The fee for approved energy storage systems (ESS), Cogen (CHP Generation) other than self-contained is the sum of the following:

- ESS or Cogen assembly (Section 4.4.5) [R097].
- Bi-directional EV chargers (Section 4.4.5) [R097].
- Equipment such as inverters, rectifiers, combiners and disconnect switches, that are not part of the approved ESS

assembly (Section 5.5) [C019, C020, C021 based on amperage].

- For ESS installations with DC circuit voltages >1,500V, see Section 5.1.6.
- Transformers and generators (Section 5.6) [C023].
- Power outlets and other devices (Section 5.7) [C017, C018, C053].

Section 9: Plan Review

The fee for the plan review of wiring installations is \$335 for the first 2 hours or fraction plus \$168 per additional hour or fraction.

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

For information regarding plan reviews, visit the ESA website at www.esasafe.com or contact our Plan Review department.

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Definitions

- < Less than the referenced size/rating.
- > Greater than the referenced size/rating.
- = Equal to the referenced size/rating.
- ≤ Less than or equal to the referenced size/rating.
- ≥ Greater than or equal to the referenced size/rating.

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 units 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.

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 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.

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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 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 20A 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.

Demolition – dismantling, disconnecting or removing equipment or portions of the wiring system in an existing building.

Disconnect & Hold – a type of inspection request where the LDC disconnects an existing service at the site to facilitate an upgrade or repair, and the ESA inspector authorizes the service to be re-energized.

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 – 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.

Energy Storage System (other) – an energy storage system that is not self-contained but is an assembly of individual devices approved as a system.

Energy Storage System (self-contained) – an approved energy storage system where the components such as cells, batteries, or modules and any necessary controls, ventilation, illumination, fire suppression or alarm systems are assembled, installed and packaged into a singular energy storage container or unit.

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 SPE 1000 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).

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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 >750V.

Indian Act - the principal statute through which the federal government administers Indian status, local First Nations governments and the management of reserve land and communal monies.

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.

Jiffy Pole - a pole used to connect power and cabling above the ceiling to modular furniture.

Laneway House – a self-contained residential dwelling unit sharing a civic address with and situated on the same lot as a detached house, semi-detached house or townhouse; generally located in the rear yard next to a laneway.

LDC – Local Distribution Company

Licensed Electrical Contractor - 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 $\leq 750V$. 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 $\leq 750V$.

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.

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, and has provision for connection to a supply service.

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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 new wiring system in a new building or structure, or in an existing building or structure where the existing electrical system, including all branch circuits and service panel has been completely removed.

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.

Notification – an application filed with ESA by a party to create a record for a wiring installation (new, renovation or maintenance) done by that party at a specific location (residential, apartment, industrial, commercial, institutional, or agricultural).

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 20A or 120V.

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 >750V.

Product Approvals - see Field Evaluation.

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Renovation - any change or addition 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.
- Rough-in - inspection of 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, farmhouse, modular or prefabricated home, or one unit of a duplex, triplex, or quadruplex.

Rigging - applies to the Entertainment industry where a remote set is built on a production site.

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 a commercial site for the application of fees.

Secondary Line - an underground or overhead circuit rated at $\leq 750V$.

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 luminaires.

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, laneway, or a unit within a larger building where the main entrance to an individual unit is not from an enclosed common area.

Small Job – Electrical work consisting of no more than 10 outlets or devices in a Residential or Apartment setting, or no more than 20 outlets or devices in an ICIA setting. No work on service entrance equipment may be filed as a small job. Small jobs are filed as per OESC 2-004, when the work is ready for a Final Inspection. A job requiring a Rough-In Inspection and a Final Inspection does not qualify as a small job.

SPE 1000 - Model Code for one-time approvals of general electrical products being sold, installed, or operated in Canada and that do not comply with Canadian Electrical Code requirements. Products that are custom-built, modified, or imported from other parts of the world could fit this criterion.

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

Stacked House – a multi-level multi-unit

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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.

T12-T8 Fluorescent Ballast Replacement – work qualifies under this category when an equal number of lamps is replaced, and no new reflectors, sockets or end plates are installed.

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 targeting 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.

Trailer (construction) - 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 doublewide or a complex of multi-unit construction.

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.

Whip - The cable connecting the building's power supply to the electrical system contained within modular furniture panels or workstations.

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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