ELECTRICAL ENERGY CERTIFICATION FORM

Project Name: _____ Plan Number: _____

Street Address: _____

Building type or space activity: _____

*Complete Section A **or** Section B based on the intended standard and applicability. To determine applicability, see the scoping provisions of Section 101 of each standard.*

SECTION A
Based on ASHRAE/IESNA, 1993

DISTRIBUTION (401.1)

Is the service for the single-tenant building greater than 250-kVA? ☐ Yes ☐ No

Is the connected load for tenant spaces in the multiple-tenant building over 100-kVA? ☐ Yes ☐ No

If yes to either of the above questions, check the applicable boxes below in this section. If no, to both questions, proceed to MOTORS.

- ☐ Single-tenant building's electrical power feeders are subdivided by usage and provided with provisions for check metering of electrical consumption.
- ☐ Each tenant space electrical power feeders are subdivided by usage and provided with provisions for check metering of electrical consumption.
- ☐ All subdivided feeders have either permanent check meters or provisions for the attachment of check meters.

Method of check metering provision:

- ☐ Electrical equipment has sufficient space to contain the check meter.
- ☐ Junction boxes through which the feeder conductors pass without splicing are provided and identified.

MOTOR

- ☐ All permanently wired polyphase motors, 1-hp or more, design A & B squirrel-cage, foot-mounted, T-frame induction motors having synchronous speeds of 3600, 1800, 1200 and 900 rpm, expected to operate more than 1000 hours per year have a minimum full-load efficiency as shown in Table 401.2.1 or classified under the NEMA Standard as "energy efficient." (401.2)

LIGHTING

- ☐ The building's total connected exterior lighting power does not exceed the total exterior lighting power allowance determined from Table 401.3.1.
- ☐ The exterior lighting design meets the provisions of Section 401.3.1 — 401.3.1.1.
- ☐ The building's total connected interior lighting power, including allowed adjustments, does not exceed the total interior lighting power allowance determined from Tables 401.3.2a — 401.3.2d.

SECTION B
Based on International Energy Conservation Code, 2000

INTERIOR LIGHTING CONTROLS

- ☐ Each area has at least one manual control for lighting located within the area or a remote switch is installed which identifies the lights served and their status (805.2.1)
- ☐ Each area that requires a manual lighting control is provided with a bi-level switch that reduces the connected lighting load in uniform illumination patterns by at least 50% or is controlled by an occupant-sensing device. (805.2.1.1)
- ☐ Guest rooms in hotels, motels, boarding houses and similar have at least one master switch at the main entry door that controls all permanently wired lighting fixtures and switched receptacles, excluding bathrooms. (805.2.1.2)

EXTERIOR LIGHTING CONTROLS

- ☐ Exterior lighting not intended for 24-hour use is automatically switched by either timer or photocell or both. Timer is capable of 7-day and seasonal daylight schedule adjustment and has power backup for at least 4 hours. (805.2.2)
- ☐ Exterior lighting supplied by the building's energy service, excluding low-voltage landscape lighting, has a source efficacy of at least 45 lumens/watt. (805.5)

TANDEM WIRING

- ☐ One or three-lamp fluorescent fixtures that are pendant or surface-mounted in continuous rows or recess-mounted in an accessible ceiling and within 10-feet of each other are tandem wired. (805.3)

INTERIOR LIGHTING POWER REQUIREMENTS

- ☐ The total connected interior lighting power is the sum of all interior lighting equipment (in watts) per Sections 805.4.1.1 — 805.4.1.4.
- ☐ The wattage of screw lamp holders is the maximum labeled wattage of the luminary. (805.4.1.1)
- ☐ Low-voltage lighting wattage is the specified wattage of the transformer supplying the system. (805.4.1.2)
- ☐ All other lighting equipment wattage is verified through data furnished by the manufacturer or other approved sources. (805.4.1.3)

SECTION A-Continued

- ☐ The interior lighting design meets the provisions of Section 401.3.2 — 401.3.5.
- ☐ The Lighting Compliance Calculation Computer Program (LTGSTD21) is used to determine the lighting power allowance. (401.3)

LIGHTING CONTROLS

- ☐ Each space has at least one manual control for lighting which is readily accessible from within the space. (401.3.4.2 and 401.3.4.4)
- ☐ Guest rooms and suites in hotels and motels have at least one master switch at the main entry door that controls all permanently wired lighting fixtures and switched receptacles excluding bathrooms. (401.3.4.5)
- ☐ Exterior lighting not intended for 24-hour use is automatically switched by either timer or photocell or a combination of both. Timer is capable of 7-day and seasonal daylight schedule adjustment and has power backup for at least 4 hours. (401.3.4.6)
- ☐ Automatic control devices used for lights are as described in Table 401.3.3.

BALLASTS

- ☐ Fluorescent lamps meet the Tandem Wiring requirements of Section 401.3.5.1.
- ☐ Fluorescent lamp ballasts have a 90% or greater power factor except those described in exceptions 1 & 2 of Section 401.3.5.2

SECTION B-Continued

- ☐ Line-voltage lighting track wattage and plug-in busways is the greater of the luminaries determined in accordance with section 805.4.1.1 through 805.4.1.3 or 30 watts per linear feet. (805.4.1.4)
- ☐ The building's total interior lighting power (in watts) is equal to the value from Table 805.4.2 for the building type multiplied by the total conditioned floor area. (805.4.2.1)
- ☐ The tenant's total interior lighting power or portion thereof (in watts) is the sum of all interior lighting power for all areas included in this permit. The total interior lighting power is equal to the conditioned floor area for each area-type per Table 805.4.2 multiplied by the value from Table 805.4.2. (805.4.2.2)

LIGHTING FIXTURES IN OPEN PARKING GARAGES

- ☐ All lighting fixtures located within portions of above ground, open-sided parking structures are full cut-off types per Article 20, Part 3 of the Fairfax County Zoning Ordinance.

CERTIFICATION

I further hereby certify that the project referenced herein complies with all the applicable requirements of ASHRAE/IESNA Standard, 1993 – or - 2000 IECC, and Article 20, Part 3 of the Fairfax County Zoning Ordinance.

Name: _____

Address: _____

Occupation: _____ Date: _____

Virginia Registered Design
Professional Seal