



## Department of Planning

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# GUIDANCE NOTE

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GN 0009 - January 2020

### **LPG, GENERATOR & PHOTOVOLTAIC PERMIT SUBMISSION** **COMMERCIAL and MULTI-FAMILY PROJECTS**

#### **Purpose**

The Department of Planning in an initiative to improve customer service has developed this Informational Bulletin to provide guidelines to aid the applicant with LPG, Generator & Photovoltaic submissions.

#### **Scope**

LPG, Generator & Photovoltaic plan reviews are based on the specified edition of the locally adopted Codes and local amendments to the Cayman Islands Building Code Regulations.

Building Control permit submission shall include but are not limited to the following drawings, details, and specifications.

#### **LPG**

- Site Plan (show location of meter/tank)
- Floor Plan showing appliance and number of Btu's
- Pipe sizes, type, and length for each floor
- Water column and type of material
- Provide a schedule of connected equipment, total BTU demand, total equivalent length, and most remote gas appliance
- Regulators (Stage)
- Dimensioned Mechanical Service Platform for AHU shown on ceiling framing plan
- Venting of combustion air

#### **Generator**

- Planning Permission

- Site/floor plan showing the location of the generator and all electrical equipment related to the generator's installation.
- Manufacturer's specification sheets
- Detail structural showing anchorage and support etc. Signed and Sealed by a design professional.
- Other requirements as per NFPA 37
- On line Riser diagram
- Calculations as per NEC 220
- Installations shall be per NEC 445, 500, 700, 701, 702 (as applicable).

### **Requirements for Photovoltaic Systems**

- Site plan identifying the location of all components. (arrays, inverters disconnects, meter, combiner boxes, etc).
- Site/floor plan showing required service clearance around arrays.
- Professional Engineers report verifying structural stability of structure on which Solar will be place
- One – line electric riser diagram showing all field-installed electrical components, conduits, conductors sizing, and grounding. A full riser diagram of the premises clearly showing the point of connection (if applicable) NEC 690.64.
- Component information/spec sheets;
  - a) Inverter information.
  - b) Module information.
  - c) Battery information (if used).
- Power Optimizer (if used). Array information;
  - a) Number of modules in series, number of parallel source circuits, and the total number of modules.
  - b) Rated maximum power-point current (sum of parallel modules rated current  $I_{mp}$  STC in source circuit).
  - c) Rated maximum power-point voltage (sum of series modules rated voltage  $V_{mp}$  STC in source circuit).
  - d) Maximum system voltage. NEC 690.7 (sum of series modules open-circuit voltage/operating STC voltage in source circuit x 1.06).
  - e) Maximum circuit current. NEC 690.8 (sum of parallel module short circuit/operating STC current x 1.25).
- Wiring and overcurrent protection.
  - a) Wire type.
  - b) Conductor ampacity.

- Provisions for the photovoltaic power source disconnecting means.
- Grounding
  - f) Equipment grounding conductor sizing. NEC 690.45.
  - g) System grounding conductor size.
- Array mounting information;
  - h) If an array is roof-mounted, roof profile showing the location of Panels on roof and attachment of panels on the roof, bolting, etc.
  - i) If the array is ground-mounted.
- Markings and signs.
- Penetration location of the conductors into the building or attic (if applicable).
- Derating calculation of the conductors on the roof and/or in the attic

**Where necessary submission should be signed and sealed by the design professional.**

*Note: The above information is just a guide; refer to the most recent adopted codes and standards for other requirements as it pertains to your project.*

For additional information, please email the Department of Planning at [info@planning.gov.ky](mailto:info@planning.gov.ky) or call (345) 244-6501 or visit our website at [www.planning.ky](http://www.planning.ky).