

PowerGATE™ Power Panels

NEC 700 Code Compliance

Comply to NEC Article 700, section 700.3 (F) Test and Maintenance requirements by integrating Lex Products PowerGATE™ Power Panels into your Emergency Power System



NFPA 70®, National Electrical Code® (NEC®) Chapter 7 Special Conditions

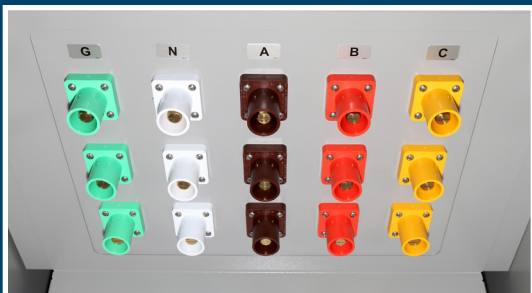
Chapter 7 Special Conditions

Article 700 Emergency Systems

This article applies to the electrical safety of the installation, operation, and maintenance of emergency systems consisting of circuits and equipment intended to supply, distribute, and control electricity for illumination, power or both, to required facilities when normal electrical supply or system is interrupted.

700.3 (F) Temporary Source of Power for Maintenance or Repair of the Alternate Source of Power:

If the emergency system relies on a single alternate source of power, which will be disabled for maintenance or repair, the emergency system shall include permanent switching means to connect a portable or temporary alternate source of power, which shall be available for the duration of the maintenance or repair. The permanent switching means to connect a portable or temporary alternate source of power shall comply with the following:



NEC 700.3 (F) 1. Connection to the portable or temporary alternate source of power shall not require modification of the permanent system wiring.

Industry standard Series 16 Cam-Type devices allow for quick connection saving, time and money while complying to code.



NEC 700.3 (F) 2. Transfer of power between the normal power source and the emergency power source shall be in accordance with 700.12.

Quickly transfer power to the standby generator during emergency or maintenance with **Two Wire Start / Stop Terminals**.

Ensure Compliance with PowerGATE™ Input Panels

NEC 700.3 (F) 3. The connection point for the portable or temporary alternate source shall be marked with the phase rotation and system bonding requirements.



Visually monitor the correct sequence of phases L1, L2 and L3 by the presence of an LED light with the **Phase Rotation Monitor** along with supplied **phase rotation labeling**.

NEC 700.3 (F) 4. Mechanical or electrical interlocking shall prevent inadvertent interconnection of power sources.



Kirk Key Interlock Provision allows for installation of a trap key system, serving as a means to transfer power supplied to the facility. Preventing two alternate sources of power from feeding the system at the same time.

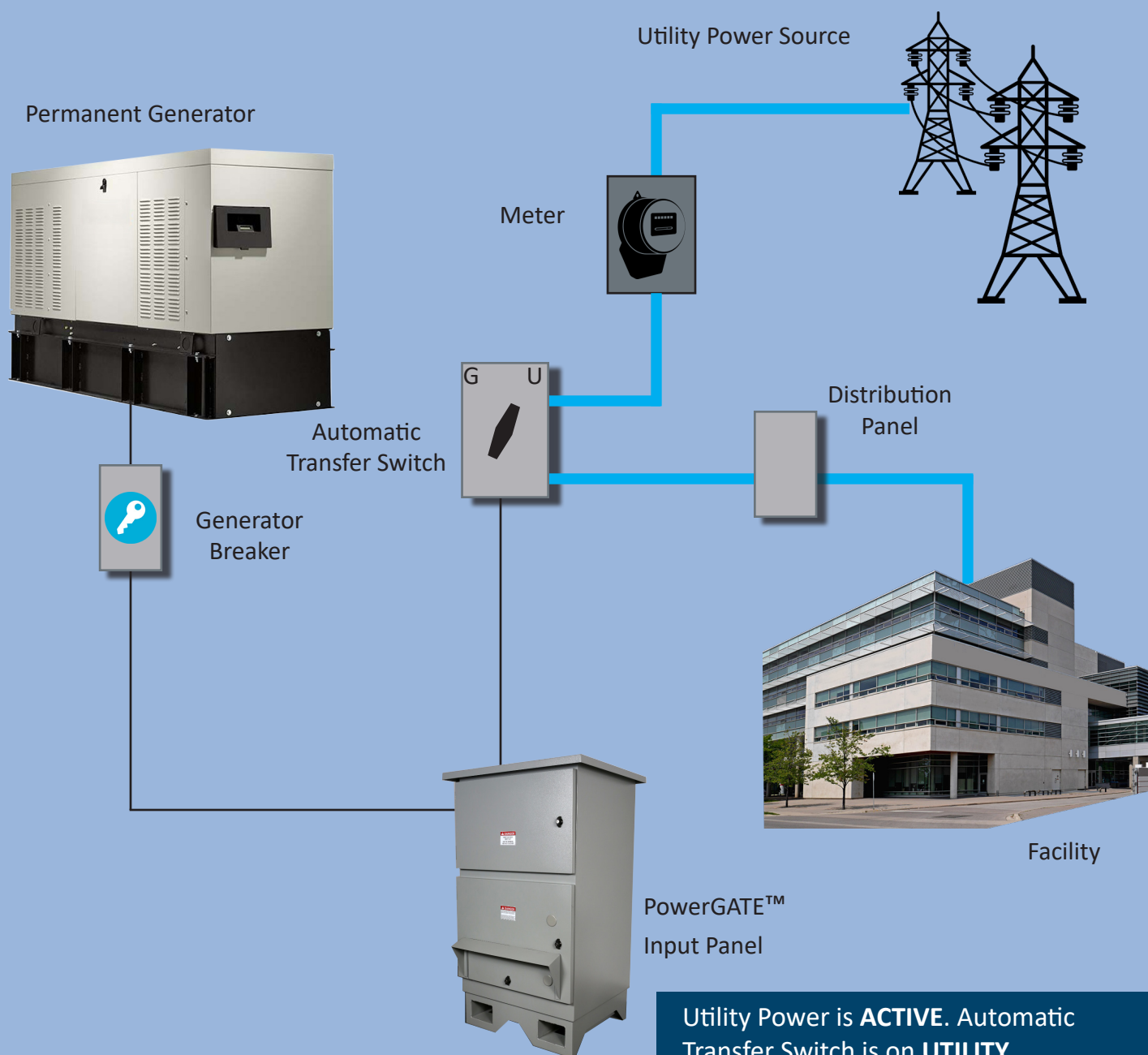
*Kirk Key Type D HD interlock not included

NEC 700.3 (F) 5. The switching means shall include a contact point that shall annunciate at a location remote from the generator or at another facility monitoring system to indicate that the permanent emergency source is disconnected from the emergency system.

*Provided within the complete system

Application Layout

Normal Operation



Utility Power is **ACTIVE**. Automatic Transfer Switch is on **UTILITY**.

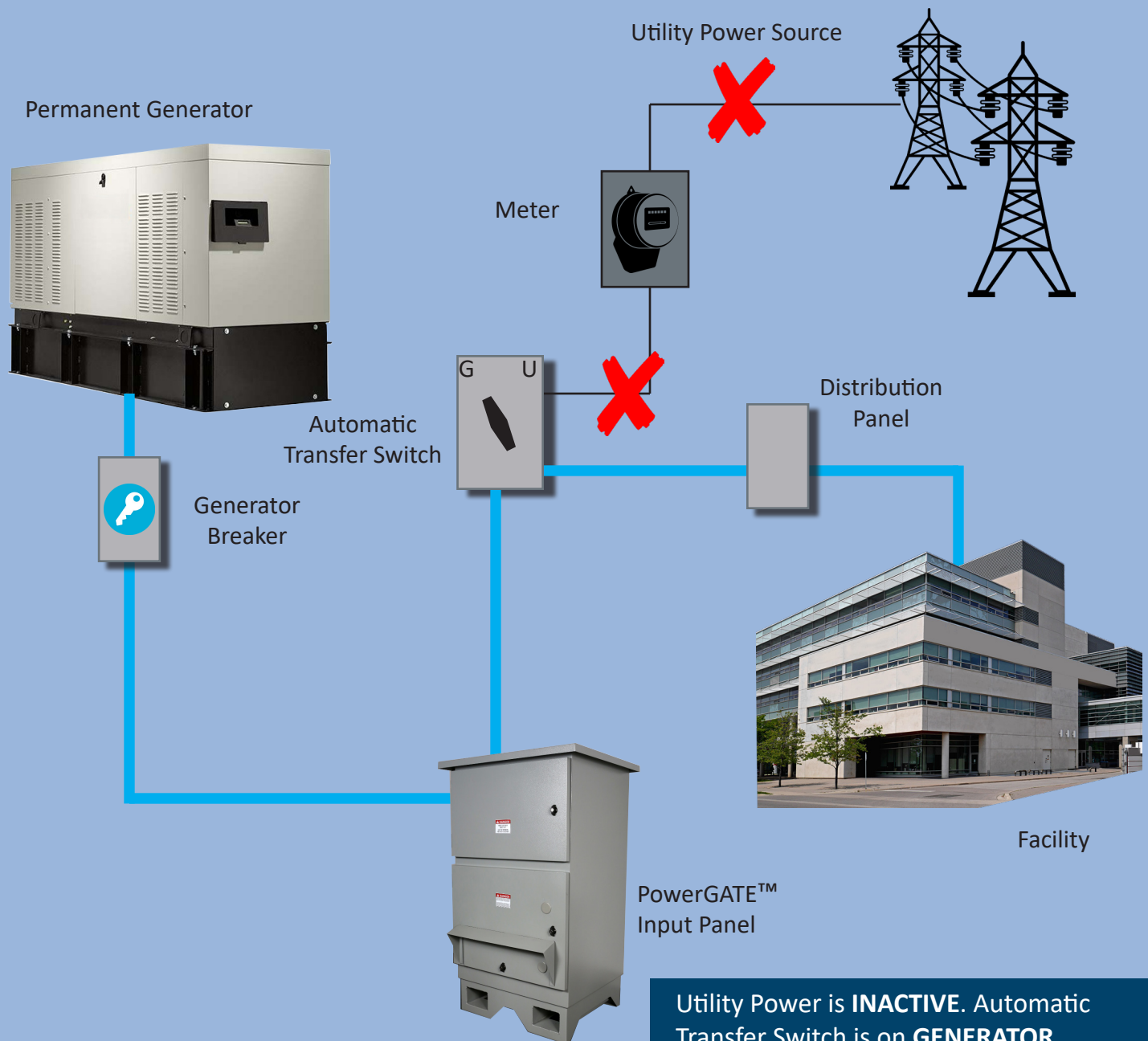
Permanent generator is **standing by**.

The Kirk Key trapped at the generator breaker.

Input Panel cable trap door is locked.

Application Layout

Standby Power



Utility Power is **INACTIVE**. Automatic Transfer Switch is on **GENERATOR**.

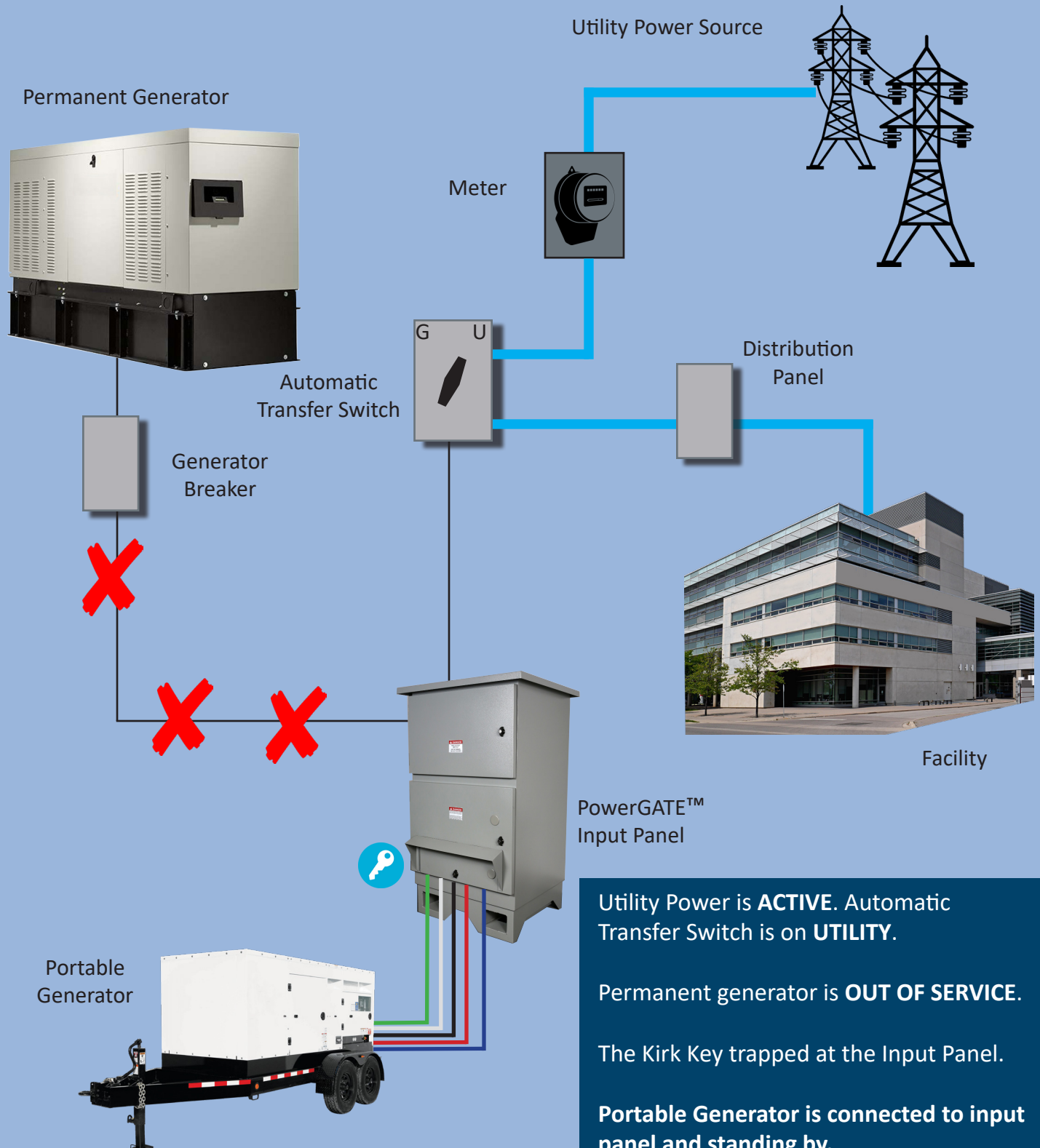
Permanent generator is **ACTIVE**.

The Kirk Key is trapped at the generator breaker.

Input Panel cable trap door is locked.

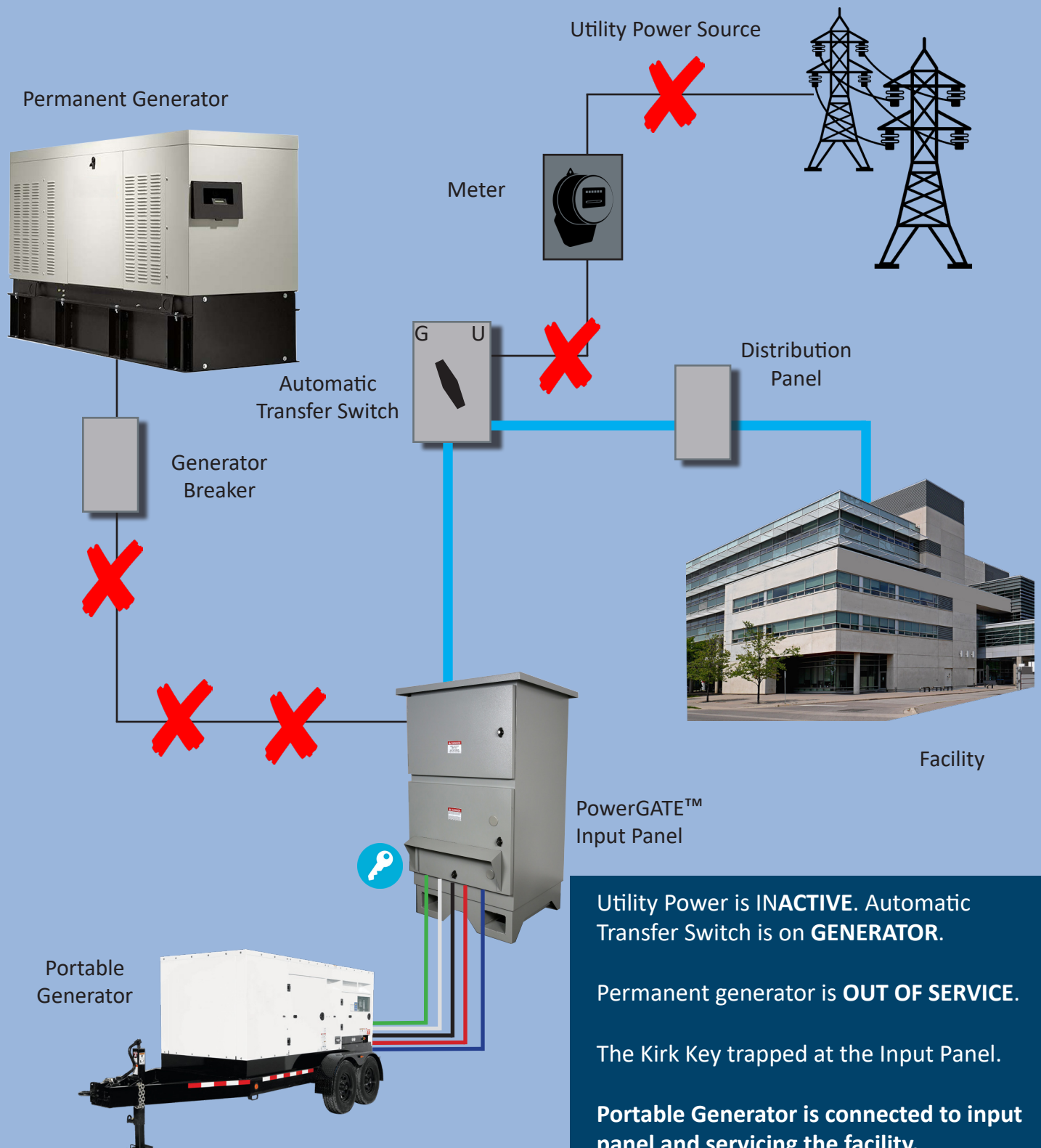
Application Layout

Standby Generator Off Line



Application Layout

Temporary Power



Keeping the lights on, the machines running and businesses going, is vital during times of emergency and maintenance.

PowerGATE™ Power Input Panels are Fully Listed to UL 1008 for Outdoor Use

Safe, Reliable and Convenient way to connect Emergency and Maintenance GENERATOR POWER to a Facility.

PowerGATE Input Panel Line:



400A - 800A



1200A - 1600A

What is an Emergency Load?

Life Supporting Systems

- HVAC
- Fire Detection
- Fire Pumps
- Gas Systems
- Specific Industrial Processes
- Etc.

Emergency lighting and signage for safe exiting

Hospital emergency communication systems

Elevator control, communication and lighting, automatic operating egress doors



400A ReadySwitch™

Power Input Panel with Integrated Manual Transfer Switch