



VANJEN GROUP

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CHANGE TO NEC CODE – TEMPORARY POWER SOURCE



Trystar® Generator Docking Stations quickly and safely connect a portable energy source to any business or public building, protecting you from an expensive and potentially dangerous power outage. Built with the installing electrical contractor in mind, our unique design helps prevent theft and hazardous disconnects.

READ THE EXCERPT BELOW TO LEARN HOW RECENT CHANGES TO THE NEC CODE MAY AFFECT YOUR BUSINESS, AND LEARN HOW WE CAN HELP.

CODE LANGUAGE: 700.3 TESTS AND MAINTENANCE

(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:

1. Connection to the portable or temporary alternate source of power shall not require modification of the permanent system wiring.
2. Transfer of power between the normal power source and the emergency power source shall be in accordance with 700.12.
3. The connection point for the portable or temporary alternate source shall be marked with the phase rotation and system bonding requirements.
4. Mechanical or electrical interlocking shall prevent inadvertent interconnection of power sources.
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.

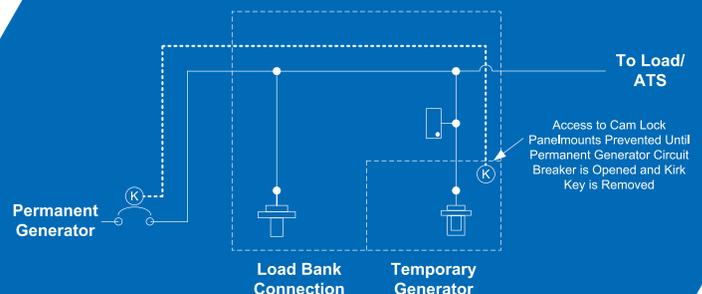
It shall be permissible to utilize manual switching to switch from the permanent source of power to the portable or temporary alternate source of power and to utilize the switching means for connection of a load bank.

Common practice by owners and engineers has been to use a Dual purpose docking station with optional NEC 700 installation kit to achieve compliance while adding loadbank functionality and a high level of safety, and reliability to their system.

NEC 700

Trystar Dual Purpose Docking Station meets the requirements of NEC 700.3 NEC 2017 article 700.3 Code Change that, in short, calls for a permanent means of temporary connection to hook up a portable generator to supply power to your life safety loads.

You can see the NEC Adoption map here:
<http://www.nfpa.org/nec/nec-adoption-and-use/nec-adoption-maps>





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INFORMATIONAL NOTE: There are many possible methods to achieve the requirements of 700.3(F)

DUAL PURPOSE DOCKING STATION:

A permanently installed quick connect box for temporary generators and temporary load banks. Designed to be used in conjunction with a permanent generator to save money by dramatically decreasing labor charges on installation and removal of the load cables, eliminating the need for a licensed electrician, increase up time, and provide a safe, code compliant way to perform maintenance.

WHY

Annual load bank tests are typically very invasive. Generators are shut down, panels opened, cables disconnected and re-connected. During the test, doors and connections are left open presenting a very real safety hazard in addition to the building being exposed to a power outage. If the building were to call for the permanent generator while load testing, the generator could be overloaded, or in some cases not even connected at all. After the test is complete, an extensive amount of teardown is required, causing time, money, and a generator taken out of service again during the process. You are also putting your permanent generator's hardwired lug connections in jeopardy due to cross threading lugs or not properly torquing to the manufacturer's specifications.

With our docking stations, each load bank cable is hooked up with a ¼ turn Camlok quick connect, much like they use for welding machines. You are eliminating the need to shut the generator down, unbolt panels, pull conductors, or ever expose your load to emergency power not being available. Our units provide an infinite higher level of safety, a cost savings/ROI, and increased reliability.

Furthermore, if your permanent generator ever experienced a catastrophic failure, a temporary genset can be rolled up and connected in minutes without the need of a licensed electrician.

HOW IT WORKS

The docking station is usually placed between the genset and ATS or Emergency Distribution Panel (not always). Two sets of Camlocks are provided, one set Female and one set Male. Females Camlocks are for connection of a temporary load bank. Males Camlocks are for connection of a temporary generator. Male Camlocks are usually located behind a Kirk Key Interlocked door to provide back feed protection between temporary generator and permanent generator.

FEATURES

Load Dump Receptacle: If, while performing a load bank test, the power were to fail, the load dump circuit will shed the load bank, allowing the permanently installed generator to take on the building load without a threat of overload. Additionally, the load dump feature will safely shut down the load banking equipment, allowing it to cool properly prior to full disconnect.

Remote Start Terminals: Allows an ATS to remote start/stop a temporary generator the same as it does a permanent generator.

Phase Rotation Monitor: Ensures your temporary generator has proper phase rotation before closing it in to the load.

