

Mulberry Point Yacht Harbor

Stillwater, Minnesota



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This information should help Members experiencing ongoing issues with breakers tripping at the stanchion and the main power panel. MPYH electrical system was designed per the 2017 State code requiring a low threshold for electrical current leakage to reduce the risk of electrical shock.

MPYH is the only marina on the St. Croix with an updated electrical system.

If a boat's electrical system is working perfectly in another marina without then experiencing ongoing tripping issues at MPYH, *in most cases there is a wiring issue on the boat NOT a marina breaker issue.*

It should also be noted, throughout the Marina, there are multiple stanchions connected on one breaker in the main power panels. A boat that is continually tripping at the stanchion might also be tripping the main breaker. Members on the same main breaker might need to work cooperatively to identify if a specific boat is triggering the breaker to trip. A list of slips per main breaker is attached.

Most Likely Culprits:

- Electric water heaters- can create leaks as the insulation on the element breaks down.
- AC compressors- Over time the insulation breaks down and can lead to electrical leaks.
- Household appliances- installing a washing machine or non-marine grade refrigerator.
- Inverters- must be marine grade. The inverter senses the presence of shore power and then goes through a synchronization process that switches over to shore power and breaks the neutral-to-ground connection.

Identifying the Problem:

- At least one piece of equipment has a dangerous short between the hot and the equipment.
- At least one connection somewhere- and maybe several- between the neutral and ground allows enough current imbalance to trip the ground fault.

Use of Splitters- As a reminder, MPYH does not allow the use of splitters. Splitter provides improper circuit breaker protection and draws electricity unevenly. Several insurance companies do not allow the use of a splitter and are listed under the exclusions policy terms.

We encourage members experiencing ongoing electrical issues to reach out to Maritronics, as they have a strong knowledge of the MPYH electrical system and have identified improper boat wiring for several members.