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## Inverter Testing, Part Two

In last week's test tip we discussed EMAX testing with variable frequency inverters.

When doing any MCE testing from the MCC, you should always try to collect MCE data on as much of the power circuit as possible. In the case with an inverter in the circuit, the inverter becomes the power supply and everything downstream of the inverter is the power circuit.

In order to test the entire downstream power circuit safely you must first disconnect the inverter output leads. Remember that most offline testing will introduce high voltage into the circuit and could potentially damage the inverter output IGBTs. By taking steps to protect the inverter's firing circuit and gathering MCE data on the entire power circuit downstream of the drive you may find problems that lead to inefficient operation or premature failure, than if you had tested at the motor leads or local disconnect.

You are invited to submit an Electric Motor Testing Tip of your own and receive a free PdMA mug or hat if we publish it! Contact Lou at 813-621-6463 ext. 126 or [lou@pdma.com](mailto:lou@pdma.com).