

## MicroVersaTrip<sup>®</sup> Product Safety Alert Field Test Procedure

Required Equipment: GE TVRMS2 Test Kit for MicroVersaTrip Trip Units

Preliminary Arrangements:

- Determine the quantity and catalog numbers of the trip units with in the specified date code range at the site.
  - Determine the quantity and catalog numbers or trip units energized less than 35 days that need to be replaced.
  - Determine the quantity and catalog numbers or trip units energized more than 35 days that need to be tested.
- Determine when outage date(s) when affected circuit breakers and trip units are available for service interruption.
- Contact the MicroVersaTrip Product Safety Alert (GE Resolve) team to request logistical assistance (i.e. spares, test kits or field service techs).
- Secure TVRMS2 MicroVersaTrip test kit(s) for testing of affected circuit breakers
- Arrange for qualified field personnel to test and or replace affected trip units
- Determine any special customer requirements for the replacement of trip units

***Warning: Only qualified personnel should be allowed to safely connect a test kit to a trip unit on an energized circuit breaker. Dangerous voltages are present within an energized circuit breaker and within the structure to which the circuit breaker is connected. Personnel connecting test equipment to energized circuit breakers and performing tests should be fully aware of the existence of dangerous voltages and how to safely conduct themselves during the testing.***

Note: To test a MicroVersaTrip trip unit on a circuit breaker, an interruption of electrical power will be required. A successful trip test will result in a few minutes of interruption.

Note: If the trip unit fails the trip test (or has been energized less than 35 days), the trip unit will need to be replaced. The length of a replacement outage will require 15 to 45 minutes, or more depending on how much testing is required to setup and commission the new trip unit.

## Field Trip Test Procedure:

Reference: GEH-6273E for MicroVersaTrip trip units  
GEK-97367A for TVRMS2 Digital Test Kit

- For trip units that have been energized more than 100 days, a trip test is needed to validate the MicroVersaTrip trip capability. The preferred procedure for all breakers is outlined below. (Please note that there may be alternative methods for testing MicroVersaTrip trip units on Power Break II circuit breakers, depending on installed options. For more information, please contact the MicroVersaTrip Product Safety Alert team for details.)

Note: The “(ref 2-2)” refers to a specific chapter and section in the GEK-97367A that applies to a step in the procedure. Please refer to the reference for details.

- If you have not already done so, familiarize yourself with TVRMS2 test kit instruction manual, GEK-97367A. All cautions and warnings contained in this document must be understood and adhered to.
  - The specific test procedures to be used are described in Chapters 3 and 5.
  - As described in Chapter 2, section 2, (ref 2-2) be sure the TVRMS2 test kit is turned off before connecting it to a MicroVersaTrip trip unit.
  - Connect the digital communication link between the test kit and the MicroVersaTrip trip unit to be tested.
  - Turn the test kit on.
  - After the test kit completes its self-test (ref 3-2), select the trip unit type “A, B, or C” (ref 3-3) and then the breaker type.
  - Next, select the Test Selection Sequence type (ref 3-4). Pres F3 to select the “Quick” test. If it acceptable to the customer to have the circuit breaker opened at this time, press the F1 button (ref 5-5) to trip the circuit breaker, otherwise press F4 to exit the test sequence.
  - If the circuit breaker trips, the MicroVersaTrip is in good working order and no further actions are required for this Product Safety Alert. Reclose the circuit breaker, adhering to any facility safety procedures that may apply.
  - Turn off test kit
  - Disconnect the digital communication link.
  - Complete the information requested on the “MicroVersaTrip Trip Unit, Product Safety Alert, Field Test Data” sheet for each trip unit tested and return to the MicroVersaTrip Product Safety Alert team via email attachment (preferred) or fax.
- If the trip unit fails to operate, contact the MicroVersaTrip Product Safety Alert team and arrange for the replacement of the failed unit. The replacement trip unit will be shipped via next day air, if required, with a Return Material Authorization (RMA) and prepaid shipping instructions. The failed trip unit(s) must be placed in the GE shipping container(s) <sup>1</sup>and immediately returned to GE per the enclosed instructions.

The above process needs to be repeated for each affected MicroVersaTrip trip units on site, as defined in the MicroVersaTrip Product Safety Alert.

For instructions on how to set up a replacement trip unit and replace it on the circuit breaker, please refer to GEH-6273E for MicroVersaTrip trip units. Unlike the test process described above, ***the circuit breaker must be opened, removed from service and safely isolated from live power before a trip unit can be replaced. Attempts to remove a trip unit from an energized circuit breaker will probably result in physical damage to the trip unit and circuit breaker and may trip the circuit breaker. The potential risk of personnel injury exists as well. Before working on the circuit breaker, you must determine that there is no voltage present on both the line and load sides of the breaker and that adequate safeguards are in place to prevent the inadvertent application of voltage while work is being performed.***

To confirm functionality of a replacement trip unit, after installation on circuit breaker, complete the functional tests prescribed in Chapter 5 of the TVRMS2 Digital Test Kit, GEK-97367A.

If there are questions on the test or replacement of affected MicroVersaTrip trip units, please contact:

GE Resolve  
MicroVersaTrip Product Safety Alert team  
41 Woodford Ave.  
Plainville, CT

Email: geresolve@indsys.ge.com  
Phone: 888-437-3765  
Fax: 860-747-7000

---