SR745 Do's And Don'ts

- Do: Connect the CTs in a WYE configuration for all transformer types. Phase angle correction, CT ratio mismatch and zero sequence removal are all taken care of internally. For retrofits, you may leave the traditional differential protection configuration and choose '2W External Correction" or "3W External Correction" as the transformer type. The SR745 would then act solely as a differential relay without performing any corrections or zero sequence removals internally.
- Do: Connect the CTs with the polarized end facing away from the transformer being protected otherwise there would appear to be a 180° phase shift on the currents which in turn would cause a malfunction on the differential protection.
- Do: Read the instruction manual carefully before installing the device.
- Do: Verify that there is no differential currents being displayed after commissioning the relay: If there is, find out why. Incorrect transformer type selection or the connection of the CT could be possible reasons.
- Do: Set the slave address on the PC program to 1 when uploading the firmware.

- Don't: Upgrade the relay firmware without first ensuring that the Setpoint file has been downloaded from the relay and saved to a file.
- Don't: Place your hands or any foreign objects in the drawout case after the unit has been removed, the terminals may be LIVE!
- Don't: Apply the wrong voltage levels to the power supply. Incorrect levels may cause damage to the unit.
- Don't: Use incorrect CTs. Verify that the relay's nominal current of 1A or 5A matches the secondary rating of the connected CTs. Unmatched CTs may result in equipment damage or inadequate protection.
- Don't: Attempt to unlock the SR745 with the wrong passcode. After three unsuccessful attempts, the relay will enter a Minor Error state, de-energizing the Self-Test relay and logging it in the Event Recorder. Protection elements remain in service. To reset this condition, you must enter the correct passcode.

FILE: http://www.ge.com/edc/pm/support/745/745dd.pdf
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