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Open Circuit In A CT Secondary

If the Primary circuit has current flowing the Secondary Circuit should never be opened. This can cause very high voltages to occur due to the Ampere-Turns of the primary that start magnetizing the core. This results in the core being Saturated though a large portion of the cycle. When a transformer core is Saturated, it is a nontransformer. Consequently, the transformer acts as a transformer only during a short period above and below the zero to maximum in the opposite direction. While it is acting as a transformer it will cause very high voltage speaks. The voltage may not appear very high taken when the measurement is taken with an RMS Volt-Meter but a Peak Volt-Meter would indicate a much higher peak value. The peaks can be sufficient enough to cause death.