

Second Investigation (3)

Farm _____

Date _____

Address _____

Personnel _____

Second Investigation: MPSC Rule (2)(2)

From 72 hour continuous recording of one-minute averaged voltage, the highest animal contact voltage (AcV) was:

Highest animal contact voltage
(Animal contact test voltage)

$AcVt_{ALT} =$

Time highest animal contact voltage occurred

Date =

Time: a.m. / p.m.

Primary to reference voltage at that same time
(Primary NEV test voltage)

$NpEVt =$

If alternate floor contact location was chosen, enter value of adjustment factor (AF).

$AF =$

If alternate floor contact location was chosen, multiply animal contact voltage ($AcVt_{ALT}$) by the adjustment factor (AF) to determine the highest probably animal contact voltage (AcV).

$$AcV = AcVt_{ALT} \times AF$$

$AcV =$

Value of shunt resistor used for 72 hour recording. $R_{SHUNT} =$ Ω

Determine animal contact current (AcC) from all sources using Ohm's law. Divide the corrected value of animal contact voltage (AcV) by the value of the shunt resistor (R_{SHUNT}).

Animal contact current from all sources:

$$AcC = AcV \div R_{SHUNT}$$

$AcC =$ A

$AcC \times 1000 =$ mA

Is animal contact current from all sources equal to or greater than 2.0 mA?

_____ Yes _____ No