

Customer Name: _____

Date: _____

Tester Name: _____

Test Equipment Type: _____

Serial number(s): _____

Signature Test Form

Form Instructions

- 1) The signature test is set forth in ARSD 20:10:39:53 through ARSD 20:10:39:55.
- 2) This test is best performed when there is minimal farm activity.
- 3) Individual pieces of major current drawing equipment shall be started and stopped.
- 4) The effects of starting, operating, and stopping each piece of equipment shall be measured and recorded for a period of not less than 15 seconds.
- 5) The tester shall identify and record the equipment being tested and record the specific times the equipment was started and stopped on this form as follows:
 - a) ensure that the 48hr test data recorder is operating;
 - b) Turn equipment "On" and record time, equipment information, and location;
 - c) Turn equipment "Off" and record time;
 - d) If the equipment is first operating, place an asterisk (*) next to time "On," record time and equipment information, and then turn the equipment off and record time "Off"; and
 - e) place a check mark (✓) next to loads with levels above concern.
- 6) A digitizing data recorder with averaging capability shall be used to measure and record the required electrical data.
- 7) The following measurements shall be taken at the same locations at the dairy where the measurements were taken for the load box test and 48 hour test:
 - a) voltage from primary neutral at the transformer to remote reference electrode (Vp);
 - b) voltage from secondary neutral in the service panel serving the area of cow contact to remote reference electrode (Vs);
 - c) voltage from primary neutral at the transformer to secondary neutral at the service panel serving the area of cow contact (Vps); and
 - d) cow contact voltage (Vcc) or cow contact current (Icc) at the preselected point.
- 8) All of the data gathered by the recording equipment during the test, including transient deviations, shall be downloaded and retained with the records of the investigation.
- 9) The steady-state data shall be summarized in the investigation report.
- 10) A plot of the voltage versus time may be substituted for the recording of measured values.

	Equipment Information	Location	Time On	Time Off	"v"
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					

	Equipment Information	Location	Time On	Time Off	"v"
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					