

59 with respect to stray current and voltage and livestock; and

60 (e) because the actionable level is set sufficiently below any level that is capable of
 61 adversely affecting the behavior, health, or productivity of livestock, any potential of harm to
 62 livestock from stray current or voltage below this level is highly remote and unexpected.

63 Section 2. Section **54-21-102** is enacted to read:

64 **54-21-102. Definitions.**

65 (1) "Actionable level" means stray current or voltage that is:

66 (a) a steady-state, root mean square, alternating current (AC) of 2.0 milliamps or more
 67 through a 500 ohm resistor connected between livestock contact points, as measured by a
 68 digital true root mean square meter;

69 (b) a steady-state, root mean square AC voltage of 1.0 volt or more across, in parallel
 70 with, a 500 ohm resistor connected between livestock contact points, as measured by a true root
 71 mean square meter;

72 (c) a steady-state direct current (DC) of 2.8 milliamps or more through a 500 ohm
 73 resistor connected between livestock contact points, as measured by a digital meter; or

74 (d) a steady-state DC voltage of 1.4 volts or more across a 500 ohm resistor connected
 75 between livestock contact points, as measured by a digital meter.

76 (2) "Electric entity" means:

77 (a) an electrical corporation, independent energy producer, qualifying power producer,
 78 interlocal entity, public agency, or person engaged in generating, furnishing, transmitting,
 79 distributing, or marketing electrical power for public or private use; and

80 (b) an agent, affiliate, employee, or independent contractor of a person described in
 81 Subsection (2)(a).

82 (3) "Interlocal entity" means the same as that term is defined in Section 11-13-103.

83 (4) "Livestock" means cattle, swine, sheep, ~~H~~→ equine, ←~~H~~ or poultry.

84 (5) "Livestock contact points" means two electrically conductive points that livestock
 85 may simultaneously contact.

85a ~~H~~→ (6) "Livestock operator" means a person who through an agreement with
 85b the owner of livestock has authority and is responsible to oversee the care and well being
 85c of the livestock. ←~~H~~

86 ~~H~~→ [~~(6)~~] (7) ←~~H~~ "Public agency" means the same as that term is defined in
 86a Section 11-13-103.

87 ~~H~~→ [~~(7)~~] (8) ←~~H~~ "Qualified testing professional" means an electrical engineer who has:

88 (a) graduated with an engineering degree from an accredited university;

89 (b) completed no fewer than 40 hours of relevant stray current or voltage training, with

90 electric utility experience; and

91 (c) been involved in at least one prior investigation involving the measurement or
 92 testing of stray current or voltage.

93 ~~H~~→ [(8)] (9) ←~~H~~ "Root mean square" means:

94 (a) a measure of the effective energy value of a wave or cycle; and

95 (b) for regularly shaped alternating current sine waves, a value of 0.707 multiplied by
 96 the peak value of the sine wave.

97 ~~H~~→ [(9)] (10) ←~~H~~ "Steady-state" means:

98 (a) for alternating current and AC voltage, a one minute average of root mean square
 99 amperage or voltage values, excluding transients; and

100 (b) for direct current and DC voltage, a one minute average of amperage or voltage
 101 values excluding transients.

102 ~~H~~→ [(10)] (11) ←~~H~~ "Transient" means a current or voltage impulse:

103 (a) lasting less than five thousandths of a second; and

104 (b) found on all types of electrical, data, and communications circuits.

105 Section 3. Section **54-21-103** is enacted to read:

106 **54-21-103. Scope of chapter.**

107 This chapter does not expand or affect the jurisdiction of the commission. An electric
 108 entity is not subject to the jurisdiction of the commission unless made subject to the
 109 jurisdiction of the commission under a statute other than this chapter.

110 Section 4. Section **54-21-201** is enacted to read:

111 **Part 2. Notice and Remedies**

112 **54-21-201. Notice -- Testing -- Reporting -- Access to property.**

113 (1) A livestock owner or livestock operator shall file a notice with an electric entity as
 114 provided in Subsection (2) if the livestock owner or livestock operator believes that the
 115 livestock owner's or livestock operator's livestock is affected by stray current or voltage that
 116 may be attributable to an electric entity and is seeking a remedy from the electric entity.

117 (2) To file a notice, a livestock owner or livestock operator shall provide written notice
 118 to the electric entity that documents:

119 (a) the address of the livestock owner or livestock operator and the location of the
 120 potential stray current or voltage; and