**Section 6000.220 Electrical Equipment** **− Amusement Rides and Amusement Attractions**

a) Effective January 1, 2010, all electrical equipment related to amusement rides and amusement attractions must comply with NFPA 70, Article 525.

b) Lock Out. A means shall be provided for locking out the power source to the amusement ride, amusement attraction, and equipment for maintenance, repair or inspection. This may be a padlock latch on the main switch.

c) High Voltage Lines. The outlets for electric power lines carrying more than 120 volts shall be clearly marked by a contrasting color marking pen or paint, a name label or a steel stencil imprint to show the voltage.

d) Outdoor Apparatus and Wiring. Electrical apparatus and wiring located outdoors shall be of such quality and so constructed or protected that exposure to weather will not interfere with its normal operation.

e) Grounding

1) Five wire electrical systems shall be grounded at the main power generator or main distribution panel. The neutral wire and equipment ground shall not be bonded together at any amusement ride or amusement attraction.

2) All other electrical systems shall have individual ground rods connected to the amusement ride or amusement attraction frame. The neutral wire and equipment ground shall not be bonded together at any amusement ride or amusement attraction.

3) Sufficient electrodes to achieve 25 ohms or less resistance to ground shall be utilized.

4) Any motor operating on 50 or more volts shall have its frame grounded.

f) Overcurrent Protection. Conductors shall be provided with overcurrent protection devices according to load. No such device shall be installed in neutral or grounding conductors.

g) Receptacles and Caps. All receptacles and attachment caps shall be of the grounding type.

h) Each amusement ride or amusement attraction not designed to be controlled directly by the passenger shall be provided with a fused power disconnect switch placed within arm's length of the attendant's station.

i) Safety Stop Circuits:

1) The resumption of operation after a system shutdown caused by loss of power or activation of a safety circuit or stop shall require manual restarting by the attendant.

2) Safety circuits shall not be bypassed during operation.

j) Emergency Lighting. If an amusement ride or amusement attraction requires a darkened interior during operation each building or structure shall be equipped with a battery powered emergency lighting system. In addition to a manual switch at the attendant's station, the system shall activate automatically when either a power failure occurs or the smoke and fire detection alarm sounds.

(Source: Amended at 44 Ill. Reg. 19907, effective December 8, 2020)