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-----Original Message-----

From: Ivan Hall [mailto:the-tourist@verizon.net]

Sent: Sun 4/20/2008 2:16 PM

To: jdillabaug@state.pa.us

Cc:

Subject: change recommendation to 7 Pa code Chapter 139

John Dillabaugh, Director

PA Department of Agriculture

Bureau of Ride & Measurement Standards

2301 North Cameron St.

Harrisburg, PA 17110

Hi John,

Under section 139.74 Temporary wiring. (m) **Receptacles** are misspelled.

Under section 139.77 Maintenance of amusement rides and attractions. (c) *Wire rope*. Could the use of a cotton rag be added as a method of finding broken and damages strands, we use this method in aviation to inspect flight control cables. After reading about the accident at Six Flags in Kentucky there may be other inspectors that never learned the rag method. Maybe this rag method could be demonstrated at the next safety seminar.

By Lynn Larsen, president

Safety Solutions Inc., Christine, North Dakota USA

Wire ropes are another area where typical damage is slow and may not be noticed. Inspecting a wire rope requires wearing of gloves. There is nothing fun about having a wire puncture your hand while you are doing a safety inspection! **Look for broken strands by running a shop rag over the wire rope. A broken strand will snag the rag, allowing you to inspect the break.** The type of break often indicates what caused the wear. An example, a rope that has been run over the sheaves results in square breaks of the wires.

When do you take a wire rope out of service? You look for obvious damage such as bird caging, or rope failure. Rope failure is when you have more than **three** broken wires in a **strand** or **six** broken wires randomly in a **lay** of wire rope. What is a strand? If you look at wire rope you notice it is made of many wires bundled together, this bundle is a strand. A lay of wire rope is the length that a strand (or bundle) takes to complete a 360 degree wrap around the core of the rope.

Ivan Hall Inspector # 10575