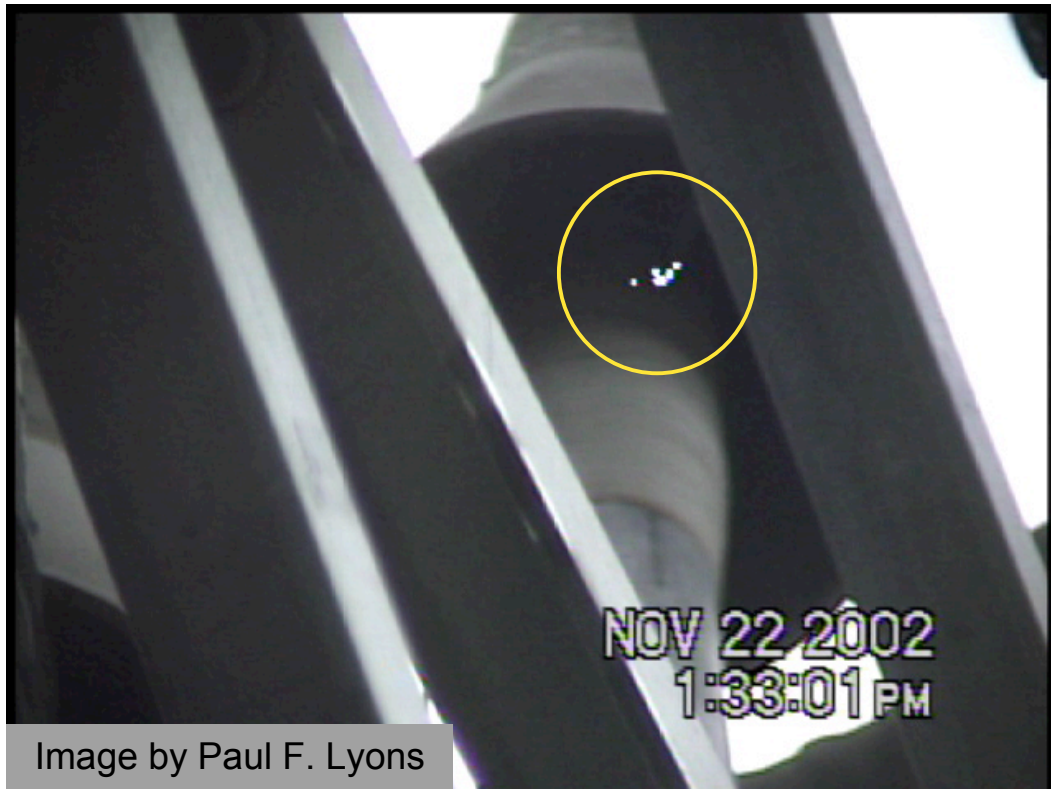


Detection of Potential Failure Using the DayCor II Corona Detection Camera



The image above is of a cable transition from overhead to underground. The voltage is 12.8 kV. This type facility exists at distribution and transmission voltages, wherever a transition from an overhead line to an underground cable is required. The presence of corona in the image indicates that a potential insulation failure is very likely to occur on this phase.

A defect in the transition could be the result of damage to the transition or improper installation. In either case the higher than normal voltage gradient in the cable transition is causing the corona in this image.