

# AxleLight Featured for Green Iowa

## Iowa DOT Installs Permanent AxleLight Station

PALMETTO, FL – March 16, 2009 — After doing a detailed analysis of Peek's AxleLight<sup>®</sup> non-intrusive laser axle sensors last year, the Iowa Department of Transportation has selected the Peek product to be installed in a permanent site along Interstate 35/80 in Des Moines. This is the first time that the AxleLight sensors, normally designed as a temporary study tool, have been installed in permanent roadside cabinets. AxleLight sensors shoot a beam of non-visible laser light across the roadway, just a few inches above the pavement. Using these sensors, and the ADR family of Automatic Data Recorders from Peek Traffic, state and municipal governments can count, classify, and analyze traffic flow.



Peek worked with the Iowa DOT to certify that the AxleLight units would satisfy the State's high accuracy requirements in the permanent installation environment. The Department is using the AxleLight, along with the solar panels and wind turbines that are powering the units, as both a solid and safe source of valuable traffic flow data, and also as an example of Green technology at work. They were especially happy that the sensors wouldn't require any sensor hardware to be installed in the roadway, thus avoiding disruptions of traffic flow. State DOT officials were also happy that their traffic



AxleLight Laser Sensor

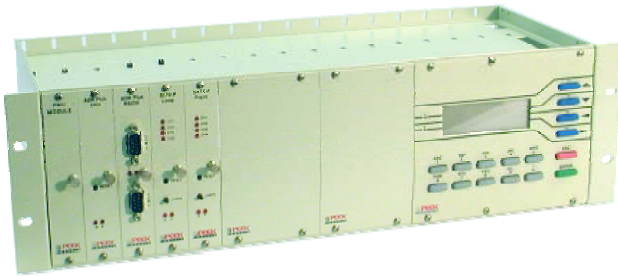


Three cabinets house the two AxleLight sensors (in the outside cabinets), with the ADR-3000 Plus unit, the power panel, and the batteries housed in the center cabinet

technicians would not be required to venture into dangerous traffic lanes as part of the installation process. AxleLight installation and set up can be done completely from behind the safety of protective roadside barriers, without any need to enter traffic lanes. This is a significant advantage of the Peek AxleLight over competitive methods.

The Iowa DOT typically powers their permanent traffic data collection stations, mostly Peek ADR-3000 Plus units, with solar power. The location of this permanent AxleLight detection station had insufficient solar energy during the winter months, so the Peek solar array was customized with a 48 inch wide wind turbine mounted on a 20' tall mast. These sources provide all of the power required for the AxleLight units, the ADR-3000 Plus data collector, as well as the Peek power panel that manages the backup battery array.

The State of Iowa uses the data collected from these permanent stations to support performance measurement and evaluation of future roadway needs, to conduct studies of traffic flows during all times of the day and in various weather conditions, and also to provide information to the public, to State, and to Federal transportation officials. Improved performance measurement is a key method used by the US Department of Transportation in their efforts to improve transportation management. The US DOT has been directly tasked with improving such transportation management programs as part of the 2009 American Recovery and Reinvestment Act.



'ADR-3000 Plus' rack-mounted traffic data recorder

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Peek Traffic Corporation has a rich history dating back to the beginnings of traffic control equipment. The first production traffic signals, the first weigh-in-motion sensors, and the first menu driven traffic controllers are all part of the Peek Traffic heritage. Today, Peek Traffic is one of the most trusted and widely recognized providers of traffic control hardware and software, data and classification hardware, tolling equipment, cabinet UPS systems, and vehicle detection equipment in the world. Developments in laser detection systems, advanced video algorithms, advanced traffic controllers, and feature-rich, standards-based software systems, make Peek Traffic Corporation a driving force in Intelligent Transportation Systems.

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