

6.3.3

GIS Data Supports Automated Routing for OSOW Vehicles in Oklahoma

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The Oklahoma Department of Public Safety's Size and Weight Permit Division (SWPD) is responsible for issuing Oversized Overweight (OSOW) vehicles a permit to operate within the State of Oklahoma. The Oklahoma Department of Transportation is responsible for operating a safe transportation system and performing engineering analysis of the bridge structures to ensure oversized and overweight vehicles can safely pass under and over a particular structure.

In 2006 SWPD manually evaluated and routed over 194,000 permitted loads using manually updated paper maps. In 2007 this number increased to over 217,000 and in 2008 this number increased further to 241,000. The time line to receive a permit has been increasing accordingly and delaying the trucking industry in receiving permits. The current process was extremely labor intensive and unsustainable with the level of staff available. In order to accommodate the increased level of permit requests for OSOW vehicles, the State recognized a need to automate the permitting and routing process.

The Oklahoma Department of Transportation in cooperation with the Department of Public Safety developed an automated OSOW Permitting and Routing solution and made the system available to the public via the internet. The purpose of the system was to streamline the workflow for requesting and approving an operating permit for the state of Oklahoma while providing a robust routing application to evaluate alternate routes using existing enterprise GIS and Asset data for constraints on the network. The solution also provides a robust map based interface for managing the temporary and long term restrictions which impacts the travel of these vehicles.

This presentation will provide an overview of the business drivers for implementing such a solution along with the technical approach selected to satisfy the OSOW permitting and routing requirements. An update on the system delivery and brief demo will be given.