



# MEMORANDUM

## Missouri Department of Transportation

Project Development  
Southwest District

**TO:** Eric Schroeter - de  
State Design Engineer

**CC:** Jerica Holtsclaw-de

**FROM:** Patrick Whitaker  
Transportation Project Designer

**DATE:** February 6, 2015

**SUBJECT:** Route 171, Jasper County  
Signal and Intersection improvements at Route 171 and Route YY in Carl Junction.  
Job No. J7S2230  
Public Interest Finding – Uninterruptible Power Supply

**I do hereby certify that in accordance with the requirements of 23 CFR 635.411(a)(2), this patented or proprietary item is essential for synchronization with existing highway facilities.**

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For State Design Engineer

With reference to the subject project, we are requesting approval of a finding in the public interest to use the Sensata Technologies Dimensions™ Battery Backup 24M11-WBE uninterruptible power supply on this project.

This project is scheduled for a May 15, 2015 letting to add signals and lighting improvements at the railroad crossing near the intersection of Route 171 and Route YY in Carl Junction.

To prevent power failure from causing the warning lights to not work, we have determined that an uninterruptible power supply will be required at this location. Other intersections in the Joplin Region of the Southwest District currently utilize the Sensata Technologies Dimensions™ Battery Backup 24M11-WBE uninterruptible power supply. In order to minimize parts inventory and simplify staff training, we are requesting approval to use this proprietary product on the subject project.

We are the only District that is using two different brands of uninterruptible power supplies and we want to continue to use the Sensata system in the western part of the District and the Alpha system in the eastern part of the District exclusively. Our signal shop staff is split with about half of them working at Joplin (covering the western half of the District) and the other half working at Springfield (covering the eastern half of the District). Since this project is in the Joplin Region we want the Sensata system installed.