

## **Project Information Form**

Project Title	Evaluation of the Cost Effectiveness of Illumination as a Safety Treatment
	at Rural Intersections
University	Georgia Institute of Technology
Principal Investigator	Georgia Tech - Dr. Angshuman Guin (PI); Dr. Michael O. Rodgers (co-PI);
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Funding Source(s) and	NCTSPM: \$75,000
Amounts Provided (by each agency or organization)	GDOT: \$75,000
Total Project Cost	\$150,000
Agency ID or Contract Number	DTRT12GUTC12
	NCTSPM 2013-022
Start and End Dates	11/1/2013 – 5/1/2015
Brief Description of	Late-night and early-morning driving periods have significantly higher
Research Project	incident and fatality rates than other periods of the day. Many of these crashes occur at rural intersections and intersection illumination provides a
	proven safety countermeasure to help ameliorate these risks. However, intersection illumination remains one of the main contributors to electrical
	power consumption in roadway maintenance and operations. This study
	seeks to provide a better understanding of the relationship between illumination and crash occurrence at rural intersections and to synthesize
	this understanding as guidance for transportation agencies to determine
	how and when illumination is cost effective.
	The findings from this research is expected to significantly aid
	GDOT and other State DOTs to objectively determine if a rural intersection should be illuminated or if safety objectives can be met with
	reduced illumination level. This knowledge will aid engineers in making
	effective design and operational decisions that are cost effective without compromising desired safety goals. Additionally, this study will provide
	summary of the best practices and provide recommendation for
	practitioners as to the most cost-effective approaches.



Describe Implementation of	Nothing to report at this time
Research Outcomes (or why	
not implemented)	
(Attach Any Photos)	
Impacts/Benefits of	Nothing to report at this time
Implementation (actual, not	
anticipated)	
Web Links	
Reports	
Project website	
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