

2007 Innovations Awards Program APPLICATION

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ID # (assigned by CSG): 07-S-14LACONTINUOUSFLOW

Please provide the following information, adding space as necessary:

State: Louisiana

Assign Program Category (applicant): Infrastructure and Economic Development-Transportation (Use list at end of application)

1. Program Name – Continuous Flow Intersection (CFI) Improvements, Airline Highway at Siegen Lane/Sherwood Forest Boulevard, Baton Rouge, LA
2. Administering Agency – Louisiana Department of Transportation and Development
3. Contact Person (Name and Title) – Richard Savoie, Deputy Chief Engineer
4. Address – 1201 Capitol Access Road (PO Box 94245), Baton Rouge, Louisiana 70804-9245
5. Telephone Number – 225.379.1384
6. FAX Number – 225.379.1712
7. E-mail Address – RichardSavoie@dotd.la.gov
8. Web site Address – www.dotd.state.la.us
9. Please provide a two-sentence description of the program. The CFI concept is an innovative design that improves traffic flow at congested intersections by crossing the left-turning vehicles to the opposite side of the street several hundred feet before the main intersection; thereby allowing left turns and through movements to move at the same time. By eliminating the green time of the cycle dedicated to left-turn vehicles, the intersection operates more efficiently.
10. How long has this program been operational (month and year)? Note: the program must be between 9 months and 5 years old on April 2, 2007, to be considered. Operational since March 2006
11. Why was the program created? What problem[s] or issue[s] was it designed to address? The intersection of Airline at Siegen/Sherwood experienced heavy delays and traffic congestion. Since Hurricane Katrina, congestion increased to the 20 year projection in a short amount of time. Other improvements had been studied for the intersection, but were rejected due to costs or impacts on right-of-way and access. The unique and innovative techniques of CFI's are comparable to improvements that are much more costly and require a bigger footprint.
12. Describe the specific activities and operations of the program in chronological order. N/A
13. Why is the program a new and creative approach or method? The CFI concept is an innovative approach to traffic engineering. The out-of-the box approach to traditional intersection design has very little application in the United States. Two others are known to exist in the US – a one-leg variation outside of Washington D.C. and a 4-leg variation built as a test case in New York. This is the first 2-leg CFI under heavy traffic to be constructed in the US.
14. What were the program's start-up costs? (Provide details about specific purchases for this program, staffing needs and other financial expenditures, as well as existing materials, technology and staff already in place.) Consultant fees for concept development and construction documents – approx. \$500,000
Construction costs – approx. \$4.4 million
15. What are the program's annual operational costs? N/A
16. How is the program funded? State and Federal transportation funds.
17. Did this program require the passage of legislation, executive order or regulations? If YES, please indicate the citation number. No.
18. What equipment, technology and software are used to operate and administer this program? Data collection from mast-arm mounted cameras, and traffic engineering signal timing software is used to monitor the intersection operations and make adjustments to the signal timing as necessary.

19. To the best of your knowledge, did this program originate in your state? If YES, please indicate the innovator's name, present address, telephone number and e-mail address. The concept did not originate in Louisiana, however, one of the innovators of the CFI concept is employed by a LA consulting engineering firm to use his expertise in the design and implementation.

20. Are you aware of similar programs in other states? If YES, which ones and how does this program differ? Other states are currently designing or studying other CFI implementation. All projects and implementations are different. They can vary with the number of approaches with CFI legs, signal timing, etc.

21. Has the program been fully implemented? If NO, what actions remain to be taken? The intersection is fully implemented, and opened to traffic on March 21, 2006.

22. Briefly evaluate (pro and con) the program's effectiveness in addressing the defined problem[s] or issue[s]. Provide tangible examples.

Preliminary data collection indicates that capacity at the intersection has increased up to 10%, travel times have been reduced by up to 40%, and vehicle accidents have decreased by up to 96% from previous time frames.

23. How has the program grown and/or changed since its inception? N/A

24. What limitations or obstacles might other states expect to encounter if they attempt to adopt this program? Other states would have to select potential sites and perform feasibility studies to determine implementation strategy. When the final CFI report is completed, other states will be able to use it to set criteria for implementation.

2007 Innovations Awards Program Program Categories and Subcategories

Use these as guidelines to determine the appropriate *Program Category* for your state's submission and list that program category on page one of this application. Choose only one.

Infrastructure and Economic Development

- Business/Commerce
- Economic Development
- Transportation

Government Operations

- Administration
- Elections
- Public Information
- Revenue

Health & Human Services

- Aging
- Children & Families
- Health Services
- Housing
- Human Services

Human Resources/Education

- Education
- Labor
- Management
- Personnel
- Training and Development
- Workforce Development

Natural Resources

- Agriculture
- Energy
- Environment
- Environmental Protection
- Natural Resources
- Parks & Recreation
- Water Resources

Public Safety/Corrections

- Corrections
- Courts
- Criminal Justice
- Drugs
- Emergency Management
- Public Safety

Save in .doc or rtf. Return completed application electronically to innovations@csg.org or mail to:

CSG Innovations Awards 2007
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Lexington, KY 40578-1910

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This application is also available at www.csg.org, in the Programs section.

Deadline: April 2, 2007