White Paper

A Best Solution for Response Times of First Responders

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Dedicated to: M., WOMD

Abstract

In this paper, I suggest a very simple system of emergency lighting that can utilize the existing roadways infrastructure in cities, both small and large. This system aims to improve response times for first responders while aiding in civilian traffic flow issues that can arise during these critical transitions. The primary goal of the system is to create a temporary dynamic express lane for first responders to their destinations, which will undoubtedly save countless lives over time.

1. Introduction

Upon receiving route information, this system would know which first responder is closest to the emergency call’s location. It would then activate a circuit of emergency lights along their route to the emergency, which would subsequently deactivate as the first responder traverses each set. This would be based on two simple rules, and when followed, the end result would be civilian traffic being moved into one or more lanes, leaving a lane completely open that doesn’t obstruct the routes for first responders.

2. How It Works

Rule #0: The FRLS (First Responder Lighting System) turns off after first responders have passed the intersection(s) along their route(s).

Rule #1: When active, and the FRLS is on, civilian drivers must merge into any inactive lane (anywhere the FRLS is not on and flashing).

Rule #2: When the FRLS is active across all lanes of an intersection, all cars within those lanes must remain stationary and not move until Rule #0 becomes true (when the FRLS is off at that intersection), at which point they can resume with regular traffic light system rules as civilian drivers normally would.

Rule #3: The FRLS stays active until one intersection after the first responder’s destination.

RESULT: A temporary dynamic express lane for first responders to quickly arrive at their destination, reducing casualties that a reduction in time can produce. Studies suggest it is possible to save over 10,000 lives a year if we can just reduce response times by one minute.

Starting with these basic rules, we can effectively organize traffic with minimal delays and achieve the goal of fast response times unlike anywhere else in the world. The added bonus is that U.S. regulators estimate that as many as 10,000 lives could be saved every year by reducing 911 response times by just one minute.

3. Conclusion

In conclusion, this solution has the ability to help first responders achieve faster response times. By alerting traffic along its immediate route to adhere to the basic rules, we can achieve extremely fast response times for everyone by creating a temporary dynamic emergency express lane that will benefit everyone or at least someone you know..

References

1. U.S. Regulators on Emergency Response Times. Retrieved from Fishers Fire Department

https://www.fishersfd.org/chief.cfm?subpage=5548&levelsDeep=2