



NAVIGATING DANGER

Intersection Risks and Siren Limitations in Emergency Response Driving

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Sometimes time is critical in an emergency, and as a result, an emergency response is necessary to save precious moments. Driving with urgency to a critical incident or serious call with lights and sirens activated can save time and potentially allow citizens or fellow officers to receive the help they need more quickly. But the risks involved must be carefully weighed, and officers must develop driving habits that are non-negotiable, no matter the circumstances of the event they are responding to. The worst outcome in an emergency response is when a responder causes an accident and becomes an additional problem. Under the best of circumstances, this may mean they do not make it to the call due to a minor collision. If a more serious collision occurs, it often requires diverting officers or medical personnel to help, further straining already limited resources.

This article will cover two issues in an emergency response: properly clearing intersections and the limitations of the police siren. Intersections are inherently dangerous, even under normal circumstances, and these risks become even greater during emergency responses. The Federal Highway Administration reports that about one-quarter of U.S. traffic deaths and half of all injuries happen at intersections. Although there is no ongoing data collection point



for police vehicle collisions, available data indicates that somewhere between 25% and 40% of police collisions occur at intersections. Studies that include all emergency vehicles (fire and ambulance) show even higher collision rates, further illustrating the danger of navigating an intersection during an emergency response. Overall, motor vehicle accidents remain one of the leading causes of law enforcement fatalities each year, and a review of available information often suggests that many of these incidents could have been prevented.

During a recent vacation, while I was waiting at an intersection, I noticed emergency vehicles approaching from the opposite direction. There were three vehicles — an ambulance, a paramedic supervisor and a police vehicle — all approaching the intersection in line, relatively close to one another. Traffic was light at that time, but I was impressed by the care each vehicle took in clearing the intersection before proceeding. The intersection had two lanes of through traffic and left-turn lanes in all directions, and each emergency vehicle stopped and took the time to clear each lane carefully before continuing through. As an emergency vehicle operations (EVO) trainer, my first thought was, “Great job,” followed by, “I wish I had video of that for training purposes.”

That brings me to training related to intersection clearing. I am fortunate to work for a state agency with a first-rate training facility and a dedicated driving course (track), and I have seen other great driving facilities in the other states; however, I have yet to see a training venue where intersection clearing can be properly taught. It is simply too complex a task to fully recreate in a training environment, so it falls on field training officers to provide instruction and instill good habits in their trainees. Officers need to stop, or at a minimum, slow to a speed at which they can stop if a hazard presents itself and clear each lane individually before proceeding through an intersection against a red light or past a stop sign. Even when proceeding through a green traffic signal or two-way controlled intersection, officers should remain aware of traffic potentially entering their path of travel from side streets. They should also watch for pedestrians or bicyclists near crossings and always maintain a safe speed. We all know that adrenaline can impact our visual perception. When I am training new officers to clear intersections, I have them physically turn their heads and scan in all directions to develop this habit to help with this physiological response. While optical traffic signal-changing systems can be useful, officers should use them cautiously, as they may disrupt normal traffic light cycles and cause confusion among other drivers.

It is unfortunate that many officers are

Continued on page 20

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NAVIGATING DANGER

Continued from page 19

not fully aware of the limitations of emergency vehicle sirens during response situations. Most of us have been stopped in traffic, heard a siren and wondered where it was coming from until we saw its source. We've also likely been on a highway as a patrol car passed us at high speed, not hearing the siren until the vehicle was right next to us. This illustrates the reality of siren limitations. Some studies have suggested that sirens can increase the risk of a crash. Despite evidence indicating that sirens are not always effective, we continue to use them to warn other traffic and often become frustrated with drivers who fail to respond. Typically, cars are well-insulated against external noise, and drivers are often listening to music or otherwise distracted. This makes it challenging for them to notice a siren, or pinpoint its direction, especially when an emergency vehicle is approaching rapidly.

What are some ways to overcome these obstacles? From both an acoustic and scientific perspective, there is little we can do until technology advances to better warn drivers of approaching emergency vehicles. This emerging in-car technology is still far from widespread use. Until such solutions are widely available, it is essential to educate ourselves and new officers about the limitations of siren effectiveness and to foster consistent, safe driving practices during emergency responses. Because sirens are often ineffective, always assume other

drivers do not see or hear you, especially when passing through intersections against a stop sign or red light. Switching siren tones and using the air horn can sometimes make it easier for drivers to notice you, but these methods are not completely reliable. You must always assume that other drivers do not see or hear you and make efforts to ensure they do before proceeding. Making eye contact or waiting until it is clear they have stopped is often a good indicator.

In summary, it is imperative that you understand the limitations of your siren and develop safe driving habits for yourself, your trainees and those you train if you participate in your agency training program. Always slow or stop and properly clear all intersections lane by lane every time during an emergency response. Getting to the call is essential to being able to assist, and a collision will prevent that outcome and divert resources to you. The most important thing you can do is build good habits and remain steadfast, even when a surge of adrenaline comes with that urgent "hot" call on the radio. Your diligence is the solution to these challenges.

About the Author

Kelly Couch is a retired California police officer from the Bay Area and retired law enforcement trainer. He was a patrol tactics instructor and the lead EVO instructor at the Department of Public Safety Standards and Training (DPSST) in Oregon for six years. He still provides training as a part-time instructor. Couch is a PORAC RAM member. ☆