North Carolina Turnpike Authority

Board of Directors Meeting August 21, 2025



Board of Directors



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Team Recognition

SASHTO Award & Transportation Builder Magazine



NNUAL

SAFETY SOURCE

Safety is Personal

BY ALAN SHAPIRO

afety on the road isn't just about driver behavior—it's also about the road itself. From initial design to final construction, ensuring a safe roadway must always be a top priority.

At the North Carolina Turnpike Authority (NCTA), we take pride in incorporating features that enhance safety and support a reliable driving experience for our customers.

Because toll road users pay for the privilege of using the road, they expect—and deserve—a higher level of service. That expectation guided the development of North Carolina's first toll road, the Triangle Expressway, which opened to toll traffic in 2013. At the time, it was among the most advanced roadways in the country. By implementing All-Electronic Tolling (AET), the Expressway eliminated the need for toll booths or stopping, making North Carolina the first state to adopt a fully cashless, statewide tolling system.

This spirit of innovation continues across NCTA's entire network. Our toll facilities, all 12 years old or younger, reflect the latest in roadway engineering and design. Features like well-planned interchange spacing and gentle grade changes help reduce driver confusion and potential incidents. Additionally, modern hydrological infrastructure allows for future capacity expansion without compromising current performance.

To further ensure safety, all NCTA roads are monitored by a comprehensive system of closed-circuit television cameras connected to the North Carolina Department of Transportation's 24-hour Traffic Management Center. This real-time surveillance capability supports quick response to incidents and helps keep traffic flowing smoothly.

Looking to the Future



N.C. Turnpike staff raise awareness for the 2025 National Work Zone Awareness Week. Photo courtesy of NCTA.

NCTA has implemented a Reverse Vehicle Notification system. This system immediately alerts operators in the Traffic Management Center (TMC) when a vehicle enters a toll zone traveling in the wrong direction—a potentially life-threatening situation.

To explore the most effective technologies, NCTA launched a pilot program on the Triangle Expressway, installing and testing four different WWD detection systems. These systems automatically identify and document wrong-way entries through video or image capture, sending real-time alerts to TMC operators and designated managers and supervisors for rapid response.

Where installed, electronic signs and beacons for these systems are immediately activated to alert the driver that they are traveling in the wrong direction. To supplement WWD detection technology systems, some interchanges on the Monroe Expressway in Union County saw the installation of bi-directional pavement markings that look normal to drivers when traveling in the correct direction but display with messages or symbols in bright red to drivers traveling in the wrong direction. Quickly notifying the driver is the safest and most effective way of preventing a wrongway driver incident.

Finance Committee Report

Robert Teer
Finance Committee Chair

Operations Committee Report

Montell Irvin, P.E.
Operations Committee Chair

Closing Comments & Adjournment

Secretary Hopkins
Chair



Contact Us

- ncdot.gov/turnpike
- @NCTurnpike
- @NorthCarolinaTurnpikeAuthority
- ncquickpass.com

Thank you!