EXHIBIT F

UTC Project Information	
Project Title	Real-Time Recommendations for Traffic Control in an Intelligent Transportation System During an Emergency Evacuation
University	North Carolina A&T State University (N.C. A&T)
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Funding Source(s) and Amounts Provided (by each agency or organization)	DOT Center for Advanced Transportation Mobility (CATM): $ 149,994 NC A&T: $ 75,040
Total Project Cost	$ 225,034
Agency ID or Contract Number	
Start and End Dates	5/16/2019 – 5/15/2020
Brief Description of Research Project	Computer and communication technologies (ICT) have been incorporated in the NC transportation infrastructure to build intelligent transportation systems (ITSs), which provide us opportunities to improve the effectiveness and efficiency of emergency response. As part of natural disaster preparation and response, evacuations often occur before or after natural disasters such as hurricanes and earthquakes. Recent hurricanes such as Irma (2017) and Florence (2018) caused mass evacuations and brought the public and research communities' attentions to many issues in evacuation plans implemented. It is obvious that effective and proper traffic control is crucial during a mass evacuation. During natural disasters, ITSs can play an important role in mass emergency evacuations. In this project, we propose to develop and integrate ecological models for human evacuation behavior prediction and a real-time traffic control

	recommendation system to support disaster evacuations in intelligent transportation infrastructure. Optimization, simulation and machine learning approaches will be used to develop the proposed system.
Describe Implementation of Research Outcomes (or why Not implemented) Place Any Photos Here	The team will develop a tool that can provide traffic control recommendations for North Carolina's Intelligent Transportation System to respond congestion during a hurricane.
Impacts/Benefits of Implementation (actual, not anticipated)	The proposed tool can recommend effective and efficient control plan modifications to respond a congestion or accident during a hurricane.
Web Links • Reports • Project Website	https://www.ncat.edu/cobe/transportation-institute/catm.html