EXHIBIT F

UTC Project Information	
Project Title	Multi-agent Reinforcement Learning-based Pedestrian
	Dynamics Models for Emergency Evacuation
University	North Carolina A&T State University (NCAT)
	Embry-Riddle Aeronautical University (ERAU)
Principal Investigator	Hyoshin Park
PI Contact Information	hpark1@ncat.edu, 336-285-2763
Funding Source(s) and	Federal Funds (USDOT UTC Program): \$131,220
Amounts Provided (by each	Cost-Share Funds (VT): \$25,688
agency or organization)	Cost-Share Funds (NCAT): \$40,000
Total Project Cost	\$196,908
Agency ID or Contract Number	69A3551747125
Start and End Dates	4/1/2019-3/31/2021
Brief Description of	The project outcome will lead to a multidisciplinary
Research Project	computational framework for understanding and
	modeling the human decision-making process and
	resulting actions in emergency evacuations
Describe Implementation of	Exit (Goal) We will develop the
Research Outcomes (or why	obstacle modeling framework and
Not implemented)	range do Dynamic simulate emergency
•	Ped
Place Any Photos Here	airport.
	Pedestrian Current State (at t+t.) Reinforcement
	Dynamics Model Sub Goal (for t= t _{i+1}) Realistic Evacuation Model for Low density crowds
	Policy Design for best outcomes – system optimization
	Experimental Validation Information (e.g. Rumor) Diffusion and Epidemic Spread Tasks
Impacts/Benefits of	Pending project completion
Implementation (actual, not	
anticipated)	
Web Links	Progress will be updated on website
 Reports 	https://johnpark.club/2019/05/02/pedestrian-
Project Website	dynamics-evacuation
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