

QUALITY LIFE THROUGH GOOD ROADS: ROAD COMMISSION FOR OAKLAND COUNTY "WE CARE."

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Department of Traffic-Safety

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August 7, 2023

Federal Communications Commission Experimental Radio Services P.O. Box 979095 St. Louis, MO 63197-9000

RE: Experimental License Applications

In accordance with the requirements for Form 442 Question 7 for the newly submitted experimental license request from Road Commission for Oakland County (RCOC), a narrative statement describing the project is provided.

The complete program of research and experimentation proposed is intended demonstrate the ability of Yunex RSU2X connected vehicle-to-everything (C-V2X) roadside equipment units (RSU) to provide low-latency ad-hoc device-to-device communications to enable certain vehicle-based applications and traffic management center-based applications. The technology and communications elements of the project involve installing Yunex RSU2X C-V2X RSUs at 7 adjacent signalized intersections along E 14 Mile Road – all managed by RCOC. This will allow RCOC to explore the capabilities of connected vehicle technologies to improve operations, safety, and mobility through C-V2X communications in alignment with the Commission's proposed rules for the Intelligent Transportation Service portion of the spectrum. This project will contribute to the development of the radio art by utilizing these RSUs to understand the capabilities of both the RSU and co-located traffic signal controllers to produce certain data that are used in roadside-based messages (including but not limited to SPaT and MAP). This is expected to inform controller manufacturers and Yunex about the ability of their devices to produce the required messages per current connected vehicle standards (such SAE J2735 and CTI 4501), and also to inform development of these standards.

If any additional information is needed or if there are any questions, please do not hesitate to contact RCOC at ddeneau@rcoc.org or 248-858-4832. Thank you.

Sincerely,

Danielle Deneau, PE Director of Traffic Safety

Road Commission for Oakland County

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