

**To:** Tucker Perkins  
**From:** Greg Kerr  
**Re:** Presidential Grant Request for Emissions Testing Ultra Low NOx Engine on Renewable Propane  
**Date:** *December 4, 2019*

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University of California – Riverside (UCR) is currently leading a large-scale in-use emissions and fuel economy testing program of on-road medium and heavy-duty vehicles. The effort is sponsored by California Energy Commission and other California-based entities and include all fuel types, including propane.

UCR is set up to test additional vehicles and PERC can test an ultra-low NOx engine on renewable propane. The purpose of the testing is to compare emissions of an engine running renewable propane to an engine running normal propane.

The cost for the testing at UCR is \$9,000, which is a good value because the vehicle and testing equipment will already be in place through the UCR program. Similar emissions testing can be up to 3x this cost.

The cost to procure and transport renewable propane to testing location is \$1,500.

The amount of the presidential grant request is \$10,500. A presidential grant is requested because PERC recently learned of this opportunity to leverage testing funded by other organizations, and it is taking place before the end of the year.

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