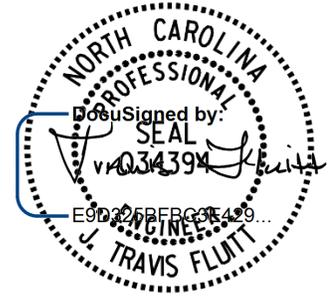


MEMORANDUM

To: Kyle Campbell, ESA Renewables
 From: Travis Fluitt, P.E.
 Kimley-Horn and Associates, Inc.
 Date: April 26, 2016
 Subject: Oakwood Solar Farm – Trip Generation



4/26/2016

Kimley-Horn has reviewed the trip generation potential of the proposed Oakwood solar farm located on US 70 in Mebane, NC. The ITE Trip Generation Manual does not provide trip generation rates for solar farms. Therefore, the trip generation was estimated based on the anticipated number of employees both during construction and a full build-out.

During construction it is estimated that a maximum of 40 workers will be on site each day. Though some workers will carpool, as a worst case it is assumed that all workers arrive individually in the AM peak hour and depart individually in the PM peak hour. There are also anticipated to be approximately 8 truck deliveries per day during construction with only 1 vehicle on-site at any given time. As a worst case, it is assumed that 2 trucks enter and exit during each peak hour. Therefore, it is anticipated that in a worst case condition, there will be approximately 42 entering trips and 2 exiting trips in the AM peak hour and 2 entering trips and 42 exiting trips in the PM peak hour.

Upon completion the site will have no full-time staff. There will be 1-2 employees that will service this site once every several months. The result is that this site is expected to generate less than 1 trip per day on average. Table 1 below summarizes the anticipated trip generation of the site.

Scenario	Daily		AM Peak Hour		PM Peak Hour	
	In	Out	In	Out	In	Out
Construction	<100	<100	42	2	2	42
Build-out	<1	<1	<1	<1	<1	<1

Please feel free to contact me at 919-653-2948 or travis.fluitt@kimley-horn.com with any question or comments.