

Table 4.2-1. Projected Vehicle Trips Generated by the Proposed GLE Facility

Phase	Year	Average Annual Number of Employees ^a	Total Vehicle Trips ^{b,c}	
			AM Peak Hour Trips	Average Daily Trips (ADT)
Site preparation and initial construction activities	2011–2013	680 ^d	680 ^e	1266
Start-up operation, overlapping with 1 year of initial construction (2014) and 6 years of final construction activities	2014–2020	590 ^f	236	1239
Production operation	2020–2048	350	140	740
Production operation and initial decommissioning activities	2049–2050	400 ^g	190 ^{e,h}	840
Decommissioning	2051–2057	50 ^g	50 ^e	105

^a Average annual number of employees during the specified years using annual employment estimates for Proposed GLE Facility presented in **Table 4.10-3**.

^b Number of vehicle trips estimated using Institute of Transportation Engineers (ITE) standard trip generation rates for industrial manufacturing land use (ITE, 2004). The ITE defines manufacturing facilities as areas where the primary activity is the conversion of raw material or parts into finished products. The ITE trip generation rates are total vehicle rates that include trucks.

AM peak hour trips = 0.4 per employee.

ADT = 2.1 per employee.

^c Assumed ITE ADT trip generation rates for industrial manufacturing land use for all phases.

^d Actual total number of construction workers on-site on a given day would vary depending on the project's construction stage and required activities. On many days, fewer than 680 workers used for the ADT estimate are expected to be needed to perform the required daily construction activities.

^e Assumed construction and decommissioning activities conducted only during daylight hours on a Monday through Friday schedule. Therefore, AM Peak Hour trip estimates conservatively assume that all workers work same schedule and arrive at the Wilmington Site at the same time.

^f Start-up consists of a varying mix of on-site permanent operational workers and temporary engineering and construction workers.

^g The 50 workers included in the ADT estimate is anticipated to be an upper limit. Actual total number of decommissioning workers on-site on a given day could vary depending on the specific decommissioning-phase activities.

^h 140 AM Peak Hour Trips for production workers + 50 AM Peak Hour Trips for decommissioning workers.