



Lean Consulting

Client

Toyota Logistics Services

Location

Georgetown, Kentucky

Post-Production Options and Distribution Facility

CH2M HILL provided simulation services to Toyota Logistics Services (TLS), a subsidiary of Toyota Motor Sales USA. TLS is responsible for installing all off-line accessories or Post Production Options (PPO), performing the Final Quality Assurance (FQA), and distributing approximately 820 finished Camry and Avalon vehicles per day. Lockwood Greene evaluated the capacity of the current facilities designated for accessory installations by developing a graphical simulation model of the operations performed inside the PPO buildings.

- Examples of the value added by CH2M HILL include the following:
Simulating the current operations aided in the justification of an expansion plan of the Georgetown facilities.
- Creating the simulation model allowed Toyota to examine several "what-if" scenarios, enabling evaluation of their effect on the total production throughput.

CH2M HILL developed an animated simulation model of the accessory installations and FQA operations using AutoMod with accurate physical representation of vehicles, equipment, and work areas. The model utilized historical data and created statistical reports on throughput and queue sizes, as variables were introduced in the installation process.