

Factory internal traffic simulation assessment

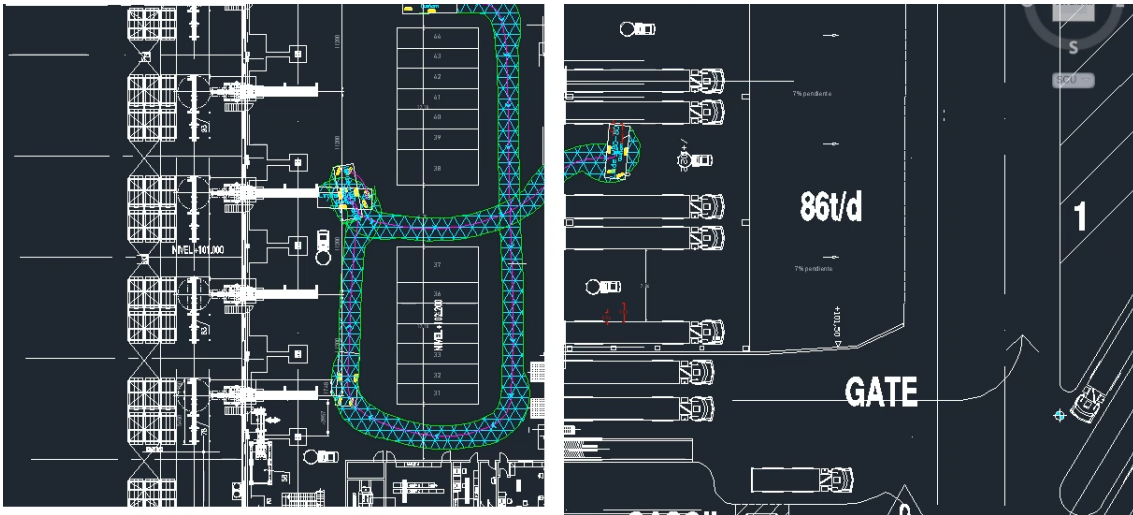
LOCATION Madrid

CLIENT

DATE 2019

MARKET Infrastructure & Engineering

DETAILS



In general terms, this report analyses traffic inside the factory, focusing on the west building that will be refurbished. This refurbishment will change the way that the heavy industrial vehicles, which are in charge of transporting the goods manufactured at the factory, are positioned and loaded inside the factory.

The factory's organisation and system of production become a key point for developing this report, since understanding the different phases comprising the production process is of vital importance to analyse the capabilities of the area under study.

Understanding the different phases must be taken into account when analysing the different points of this report. Firstly, we will analyse the phases that can take place simultaneously with other phases, as well as the phases that cannot take place simultaneously due to safety reasons. Then we will analyse, from the point of view of safety, the convergence of different types of vehicles (heavy industrial vehicles and fork lift trucks) in the loading area. Finally, taking into account the two criteria detailed above, we will analyse the productivity of the production plant, optimising the production process as the main priority, but with this objective underlying the safety criteria detailed above.

Based on the above, the structure of this report is based on three main blocks. The first block describes the current distribution of the area under study and the vehicles circulating inside the factory; then we analyse the situation for the refurbished design, identifying risk areas or points of conflict, which will represent the basis for the last block of this report, that will consist of proposing a series of actions, both from an operational and productive approach.