



Total has appointed Artelia to supervise the construction of its first Total Access service station

The challenges

At a site that has been disused for more than five years, with remediation work currently being finalised, Total wished to recreate a low-cost service station operating autonomously without a manager.

Starting with a prototype, the initial challenge lay in the fact that there was no defined standard or typical layout.

A second challenge at this site concerned the layout of a 170 m³ storage facility, bearing in mind Total's wish to minimise the use of sheet piles for economic reasons.

Storage facility initially planned



Storage facility installed



Artelia's contribution

Artelia drew on its wealth of experience to propose a value-generating solution to implement this project.

In terms of the station layout, we started with the Total Access specifications and adapted them in order to obtain the final outcome.

The principle of unmanned service stations (with remote monitoring, video surveillance, alarm management and door key-pad entry) was successfully adapted, applied and respected.

In addition to complying with Total's safety regulations, the methods to be used for high-risk operations were examined in detail. Simulations were performed prior to carrying out the operations: hoisting crane manoeuvres were carried out unloaded in order to practise them and confirm the intervention areas, the roles and responsibilities of each person involved were clearly defined, and work site modifications, actual conditions and surroundings were incorporated into the operating procedure.

The second challenge concerned installing the hydrocarbon storage tank under the existing canopy, which was to be retained. The future widening of the road also had to be taken into consideration.

The initial project involved demolishing and rebuilding the canopy. Filing one application for a permit to demolish it and another to rebuild it would have forced the municipal council to reject the building permit and halt the project. An alternative solution was hence examined: dismantling the light structures on the canopy, in order both to replace the elements and to create an opening through which to pass two of the four tanks in order to position them between the canopy columns.

Outcome

Artelia assists its clients with their projects and contributes to their success by both drawing on its experience and listening to them carefully in order to identify their needs and prioritise actions. This station was built in accordance with safety and quality requirements, within budget and on time. Thanks to Artelia's expertise, the safety regulations were respected while alternative solutions that generated savings were examined.

The site was initially earmarked for a conventional Total station (not Access)



Photomontage of completed project



Following completion

