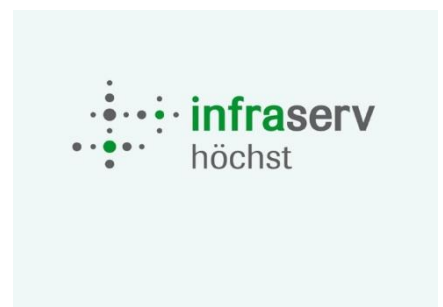


Audit plant railway

Feasibility study for plant expansion and integration into existing control and safety technology



Infracore Höchst is a leading site operator and industrial services provider for the chemical and pharmaceutical industries and related process industries. Industriepark Höchst in Frankfurt am Main covers an area of approximately 460 hectares and is home to some 90 companies, making it one of Europe's largest production and research sites. Infracore operates a 72-km road network, around 800 km of pipelines and an extensive plant rail network with around 57 km of tracks for the companies located there, which is to be expanded to include additional tracks for entry and exit to accommodate new traffic.

Conceptual redesign of the plant extension

In a first step, the project showed that an effective separation of the new track facilities is possible if the local site utilization is implemented with the maximum gradients in the track connection that are compatible with the planned traffic. By this measure, the connection of the track extension to the feeder track to the DB rail network could be designed to allow direct access to the new plant area and thus to omit the operationally sensitive area of the plant station. The now geometrically possible direct connection of the extended track areas for new traffic raised questions about the integration of this part of the plant into the existing control and safety technology of Infracore and DB-Netz.

Mediation and support of the coordination between Infracore and DB - Netz for the integration of the new track system into the existing interlocking systems

After identifying the basic problems involved in integrating the track extension into the existing control and safety technology, contact was first established with the responsible department at DB Netz. Infracore, together with an engineering firm specializing in interlocking technology, obtained information on how to integrate the system into its own local interlocking technology and how to coordinate it with the systems at DB Netz. In the end, the parties involved were able to work out a concept that would allow the integration of the modified track connection proposed by TransCare for the extension in safety terms as well.

CLIENT

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Our Services

- Detailed analysis of the given site conditions.
- Development of an alternative layout plan with direct connection to the existing feeder track.
- Detailed discussion of different options for infrastructure measures.
- Identification of possible safety-related issues.
- Establishing contact with the responsible specialist department at DB-Netz.
- Support of the explanatory and coordination meetings.
- Suitability assessment of the developed proposals.