

Audit plant railway

Derivation of measures



InfraserV 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. InfraserV operates a 72-km road network, some 800 km of pipelines and an extensive plant rail network with around 57 km of tracks for the companies located there.

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Audit of the plant railway facilities and operations

In a first step, an as-is survey of facilities and processes was carried out (number of trains, shunting operations, dwell times, critical infrastructure, connection to DB Netz, service trips to loading points, technical equipment of the shunting routes, etc.) in order to draw up an assessment of the basic performance of the rail facilities based on this data. By means of a simplified (non-visualized), partial operating simulation based on available track occupancy plans, suggestions for optimizing the operating processes could be derived and bottlenecks identified. In addition to measures for eliminating these bottlenecks, a rough investment estimate was also made for the necessary actions and reference was made to possible funding opportunities, e.g., under SGFFG (Long-distance Rail Freight Network Funding Act).

Development of concrete measures for the optimization of the plant railroad

Within a period of about 2 months, a total of 17 individual measures were developed, both in the operational organizational and in the infrastructural area, which show significant improvements for the entire plant railroad complex. An alternative connection concept and a redesigned track layout were drawn up for a plant extension. As a result, potential conflicts between the existing plant railway operations and the expected new traffic for the extension complex could be minimized by means of an extensive infrastructural segregation of the traffic. In addition, targeted expansions of the existing facilities for loading point service were proposed in areas where high traffic volumes appeared to require relief. In the organizational area, among other things, the revision of the existing tariff system (key topics "infrastructure usage fee" and "terms of use") was proposed.

Our Services

- Analysis of the plant railway infrastructure, loading points and recording of traffic flows.
- Detailed analysis of the dwell and transit times of several thousand wagon movements.
- Identification of bottlenecks.
- Conceptual redesign of a facility expansion for new traffic.
- Detailed discussion of different options for infrastructure measures.
- Identification of possible operational measures based on evaluated processes.
- Presentation of principles for a transparent tariff system ensuring a fair distribution of the plant railway infrastructure costs.