



LOGISTIC SOLUTIONS

If you're looking to resolve your logistical issues, TALKE Logistic Services is the perfect partner for you – in Germany, in Europe and across the globe. You'll benefit from our experience and expertise as a leading international logistical services provider to the chemical and petrochemical industry right from the first dialogue. We'll show you a compelling range of full-service offerings, including:



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- Logistical analysis & consulting
- Logistical process optimisation
- Implementing best practices
- Supply chain concepts
- Dimensioning & evaluation of packaging- & conveying
- Upgrading & modernisation of existing logistic facilities
- Factory Acceptance Tests
- Designing, building & operating logistics facilities (incl. regulatory procedures)
- Training & requirement of personnel

ALFRED TALKE
Logistic Services



CASE STUDY 1 – SABIC / Petrokemya (1,600 KTPA) 2004/2005

Situation

With a yearly production of more than 1,600 KT, Petrokemya (a SABIC affiliate) is one of the larger producers of polyolefins in Saudi Arabia and went through enormous changes at the beginning of the new millennium. The start-up of the PE plant with an actual output of close to 1,000 KTPA was an extensive challenge for the departments involved. The PVC and PS plants had been running for almost 20 years and in order to accommodate all of them, the facility layout and the relevant operational processes generally required a thorough re-evaluation exercise.

Supply Chain Challenges

Alfred Talke was assigned with this study and worked on this assignment with a total of 3 consultants over a period of 2.5 months. The work involved a considerable period of onsite presence with regular home office periods for calculations, engineering and study work. Maintaining the ongoing operations without interruption was a prerequisite for any solutions to be proposed and this created a considerable conceptual hurdle.

Solution

Talke developed a large number of recommendations for the client. These recommendations included substantial infrastructural measures such as changing the entire site traffic flow and the re-location of the container yard and loading facilities, but also included answers to many smaller operational matters in order to improve the safety, quality and or productivity standards of the client. All engineering work had to be established in accordance with the client's strict engineering standards. The study results were presented to different levels of the organisation and a multitude of the recommendations have been implemented since completion of the study in 2006.



CASE STUDY 2 – Saudi Polyolefins Company (1,520 KTPA) 2005/2006

Situation

Saudi Polyolefins Company (a JV between LyondellBasell and Tasnee) owned and operated a 450 KTPA polypropylene facility in Al-Jubail, Saudi Arabia, at which the site logistics were outsourced to Talke. The company decided to invest in additional capacities and planned an increase in the polypropylene output to 720 KTPA with the addition of two polyethylene lines (HDPE + LDPE) with a capacity of 400 KTPA each.

Supply Chain Challenges

Due to the limited space available for the logistics infrastructure, the client needed a creative solution and assigned Talke for the conceptual revamping of the existing facility (designed for 450 KTPA) to the new projected volume of 1,520 KTPA. Not less challenging was the requirement that the solution proposed had to be designed in such a way that it could be implemented without affecting the ongoing logistics operations and production. The work was performed over a considerable time span and consumed more than 1,500 man hours, which were carried out in both Saudi Arabia and Central Europe.

Solution

TALKE developed a concept in which the logistics terminal, covering a total area of 75,000 sqm, was restructured in its purpose from being a packaging, storage and loading facility to a pure packaging and dispatch location. After successful installation the facility now consists of 56 silos, 11 FFS packaging lines, 5 sea bulk loading units and a container buffer area for 200 TEU.

Unique in the region is the fully automated loading of packed products on transfer trailers. The main elements of the study comprised of a description of the terminal and its installations, an execution concept for the construction, vendor recommendations, supporting calculations and drawings in CAD format. The facility has been operational since mid 2009 and TALKE has also been assigned with the operational duty to manage and operate all on-site material handling activities as well as the remote warehouse operation in the port of Al-Jubail.



CASE STUDY 3 – Major Petrochemical Producer (1,700 KTPA) 2006/2007

Situation

Our client is building a new petrochemical production complex in Al-Jubail Industrial City in the Kingdom of Saudi Arabia. The complex includes the production of various polymer products with a total of 1,700 KTPA.

Supply Chain Challenges

As early as 2006 the client requested Talke to work out a cutting-edge logistics solution for the projected production volumes from the plant, which was being planned at the time. This solution had to be developed considering the global supply chain demands, the regional conditions and the existing space limitations in the assigned plot for the complex in the Industrial City of Al-Jubail.

Solution

One of the main targets for this study was to establish if an off-site logistics facility would be advantageous to the client on the basis of their known logistical requirements, together with the potential cost savings in operations. It covered an analysis of the Commercial Port of Jubail as a potential location for the facility. Various scenarios were selected and were analysed accordingly. Ultimately TALKE provided a comprehensive study along with the design of an on- and off-site logistics facility. The study included flow diagrams, descriptive elements, support calculations and plot plans. In a separate tender process TALKE has been appointed as the partner for the management of engineering and construction of the off-site facility and as the service provider for the subsequent operations and maintenance of the terminal with a long term agreement.