

Client: Vattenfall
Project: Enclosure of ammonia loading system
Services: Planning, tendering, construction support



General

The company Vattenfall Europe Wärme AG operates a coal-fired heating plant in Wedel for the generation of district heat and electricity.

Ammonia is required here to operate the nitrogen oxide reducer. This ammonia liquefied under pressure is delivered in tankers and temporarily stored in two storage tanks.

To allow use of an area in the neighbouring industrial estate, the aim is to reduce the “reasonable distance” for the ammonia loading facility.

So that the specified distance can be achieved, the loading area is to be enclosed. By installing an air extraction unit, discharging through a 51-m tall exhaust air duct which is to be mounted at a significantly greater distance to the boundary, the specified requirements can be met.

Planning work

A baseline study was made that was used as a basis initially for preliminary planning and then the draft planning. All necessary components were rated and specified.

The enquiry was prepared on the basis of the ratings, arrangement drawings and descriptions.

All planning work took place in close coordination with the client and the technical experts.

Implementation

The documents prepared by the supplying company including the shop drawings were checked and harmonized by T&N.

The measure was implemented in winter 2018/2019. Commissioning and the performance measurements were carried out with the assistance of T&N.