SEA INVEST TANK TERMINAL

PIPING & MODULE PREFABRICATION

CHALLENGE
Stork Technical Services was commissioned to do the complete piping prefabrication for a new tank terminal with jetty in the harbour of Antwerp at quay 510.

The entire project was tied to a severe milestone planning. The client requested high quality standards according to PED category 1 and 2 and demanded full traceability.

There was only a very limited on-site lay-down area available for installation and on-site work. Therefore site construction work had to be reduced to a minimum.

CUSTOMER PROFILE
The main contractor for the construction was a joint venture between TMS - Spie. Sea-invest is a privately owned Belgian holding company with a long-standing history in port handling. The terminals of the company offer storage and handling infrastructure for mineral and vegetable oil products, liquid fertilisers, molasses, fish oil, biofuels, oleochemicals and chemical products.

SOLUTION
Stork Technical Services used rotating welding processes to assure high quality and efficient welding results. Stork also coordinated and executed all non-destructive examination.

Full traceability was guaranteed through PRINCE, our Business Process Management system.

We combined forces with the main contractors. Stork Technical Services prefabricated the spools while the contractors assembled the rack piping modules on our outdoor assembly area. This minimised the need for on-site activities.

Stork Technical Services minimised WIP and material handling on-site by just-in-time deliveries.

The assembled racks were transported to the site by barge. Loading and unloading was done by a floating crane.

RESULTS & BENEFITS
- Site construction reduced to minimum
- Reduced WIP and on-site material handling
- Project executed on time and within budget
- Full traceability
- High quality prefabrication

TECHNICAL DETAILS
- 55 kilometer piping
- 275 k welding inches
- Carbon steel / Stainless steel
- Majority of 12", 16" and 24" diameter
- 40 x 10 meter module assembly
- 36 meter single spool length

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