Vinyl chloride plant demolition

Decommissioning, decontaminating and demolishing a vinyl chloride plant and recovering of re-usable assets.

Following a site closure this hazardous plant was demolished.

The hazards of the processes included: vinyl chloride, ethylene dichloride, hydrochloric acid, sodium hydroxide, carbon dust, ethylene gas.

The client engaged ABB to support them in determining the optimum project and contract approaches and strategies.

Solution

ABB carried out an initial project assessment and developed proposals for the following:

- Objectives and scope of the project
- Project management strategies and controls
- Resource requirements (internal and external)
- Health, safety and environmental policies and practices
- Asset, surplus stock, scrap and waste disposal philosophy
- How to manage utilities and services
- How to meet regulatory and record keeping requirements - internal and external
- The final condition of the vacated site
Following on from these initial recommendations, ABB went on to advise the client and the contractor on:

- Decommissioning, decontamination and demolition risks and strategy
- The overall project execution plan and contracting strategy
- Detailed plans, method statements and safety assessments including an environmental protection plan
- Demolition contractor selection criteria and selection process
- CDM Regulations and Health & Safety Plan (to ensure compliance with statutory requirements)

ABB completed its involvement on this project by assisting in the selection of the demolition contractor.

**Benefits**

- **Lowering risk** - by using ABB’s demolition expertise to minimise safety and environmental risks
- **Minimising cost** - using ABB’s knowledge to plan the project in the most cost effective way
- **Optimising contracts** - selecting the right demolition contract and incentivised contract
- **Regulatory compliance** - ensuring all regulations were complied with