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## Tilbury Power Station, Essex

### The problem

Install a system of large diameter polyethylene ducts and heavy steel sumps to the underside of the coal unloading pier at Tilbury Power Station, over water and without the use of scaffold.



*The pier was to remain open to shipping throughout the works*

### The solution

Vertical Technology devised a plan of action to allow their rope access team to reach all areas of the pier soffit, install lifting points to hoist the components out of a barge to fix in place.

- Install access system comprising bolts and cableways combined with an effective rescue plan
- Load test all access attachments and practice rescue procedures
- Install fixing brackets and anchors
- Install lift points and load test
- Lift components from a barge and bolt into place
- Weld sections of duct

With little room for manoeuvre around the worksite, the team worked to tight tolerances in a difficult location. The contract was completed on time and within budget.





*Component parts are lifted into position*



*Materials are brought in at high tide and fitted during low tide*





*The most complicated section around a sump completed*

