

## Description

- ◆ Derriford District General Hospital provides a full range of general hospital services to around 450,000 people in Plymouth, North and East Cornwall and South and West Devon, including emergency and trauma services, maternity services, pediatrics and a full range of diagnostic, medical and surgical sub-specialties.
- ◆ £1.78m project for Plymouth Hospitals NHS Trust
- ◆ Commenced January 2014, finish date September 2014
- ◆ Replacement of an existing absorption chiller with 11 kV 1560 kWe gas combined heating and power (CHP) unit
- ◆ The works comprised the complete design, supply, installation and commissioning of a new 11kV 1560kWe gas fired combined heat and power plant suitable for a marine environment along with all associated mechanical and electrical works and heat dump facility.



## Involvement

- ◆ Acted as client technical advisors and fulfilled the duties of supervisor under the NEC Option C Contract including offering practical construction advice and guidance to the client team
- ◆ Took part in risk workshops, liaised with contractor and designer to establish testing and inspecting to be undertaken,
- ◆ Monitoring and inspection of contractor works, issuing of defects notices, witness testing, record keeping, inspection and acceptances.
- ◆ Heat recovery system to extract heat from the CHP gases to provide heat directly into the existing HTHW system.
- ◆ Connection of the new 11kV electrical output from the CHP to the main hospital system.

## Benefits Delivered

- ◆ Identified client risk elements which could lead to compensation events and suggested mitigation measures.
- ◆ Review of contractor programme to ensure it was reflective of client responsibilities.
- ◆ Reviewed programme with regards to client cashflow expenditure requirements suggesting amendment to meet year-end requirements.
- ◆ Highlighted associated health and safety risks not considered or implemented by the contractor.

*Full design management and commissioning of an important combined heat and power plant for the hospital*