

## CASE STUDY

# Grange Castle Pumping Station



## Process Description & Equipment Supplied

South Dublin County Council in partnership with the IDA, identified a need to increase the capacity of the existing Grange Castle Pump Station in Clondalkin, Co. Dublin. The proposed additional works identified were necessary as a result of the expansion of the industrial park catered for by the existing pump station. DPS were involved at an early stage in the project feasibility and provided design and selection services for the ultimate pumping solution and arrangement. DPS's scope involved design, fabrication, supply, installation and commissioning (full MEICA) of 2 no. KSB Sewatec D 150-401 dry well pumps (WIMES 1.03 compliant) complete with discharge manifold assembly, controls, flow meters, PID and remote monitoring system.

## Project Overview

### Client Name

South Dublin Co. Council

### Completion Date

January 2013

### Reference Contact

Mr. Kenneth Clayton,  
South Dublin Co. Council

### Value of Project

€45,000



## Ensuring equipment commissioned to OEM specification

DPS was responsible for the installation of the pumping equipment on site. To ensure installation to OEM specification, our team worked with the OEM (KSB) supplier from the design stage to ensure that the pump hydraulic would cater for South Dublin County Council's requirements.

Careful consideration was given to the choice of hydraulic at this site as the existing Grundfos pumps were experiencing on-going blockage issues which was leading to significant downtime. The ultimate solution was the KSB "D – Screw Impeller". Since commissioning, these pumps have been in operation without any blockages or downtime.

## Process for managing relationship with out customers delivery team

Having progressed from working with the design team to the supply and installation phase, DPS nominated a Project Manager who was the point of contact for South Dublin County Council and any other contractors on site and was responsible for all communications from DPS to South Dublin County Council and the project stakeholders.

The Project Manager was responsible for Progress reporting to facilitate 'live'updating of the program schedule. The Project Manager was also responsible for the reports which, in addition to monitoring the schedule and milestone achievements, covered issues such as Health & Safety, quality and risk minimisation. The outputs of the daily and monthly project meetings were subsequently communicated to the DPS installation team and the OEM as required. The Project Manager was responsible for amending and implementing any changes required to the DPS Health & Safety and quality procedures while amending the delivery and installation schedule as necessary to ensure compliance with the Delivery Team requirements.

## Process for handing over 'fit for purpose' equipment free from defect

Having installed and commissioned the equipment on site as per the OEM requirements and in conjunction with the project stake holders, DPS then 'snagged' the site prior to handover to ensure there were no minor issues outstanding.

Once the snagging process was complete, DPS then installed a remote monitoring system on site to allow logging of the pump performance and any alarm events on site. This allowed DPS to have 24 hour awareness of how the pumps were performing and to observe and correct any issues that came to light. This extended commissioning phase support approach from DPS ensured a successful closure to the delivery phase of the project. This enabled the final sign-off and close-out of the project in a timely manner and with ultimate client satisfaction.

