

Client: The Pirbright Institute
 Sector: Life Sciences
 Project: Quench Tower Project
 Project Value: £642,230
 Date: Jun 2018 to Sep 2019



Our Client's Need

As part of a 4-phase project to replace an aging Incinerator Abatement System, the final phase was to replace a plate exhaust cooling system with a quench tower. The site had selected the Principal Designer/Principal Contractor (PD/PC) and needed Grationeer Ltd to provide a Project Manager and CDM Client Representative to manage the delivery of the project.

Services provided



Benefits Delivered

- Assisting in detailed design verification to ensure alignment with safety studies.
- CDM requirements audited and maintained throughout the project.
- Commissioning documented and witnessed in line with bio-safety requirements.
- Project handover according to Site Operational Team requirements.

Works Completed

Grationeer Ltd started the project after the procurement stage so the main contractors were already in place and working on the detailed design. To formally review and approve the design, Grationeer Ltd arranged a Structured What-If Technique (SWIFT) study to take place. This allowed all key stakeholders to review the design to identify risks and recommend additional measures to mitigate the risks. Final design took place and Grationeer Ltd reviewed all documents and ensured that the control description included all required changes from the SWIFT.

Prior to the start of construction, Grationeer Ltd assisted the PD/PC to generate the Pre-Construction Information Plan and Construction Phase Plan as required for CDM. To ensure that these safety requirements were in place throughout the project, Grationeer Ltd carried out regular audits.

Grationeer Ltd chaired all project meetings and ensured that meeting notes were sent out after the meetings. This ensured project programme, quality and cost were managed and any deviations were recorded/discussed/approved. Also, our role was to be the key person between the site and the PD/PC in responding to queries relating to the design, build and safety aspects.

The quench tower was designed for an existing SAPO 4 Incinerator and a key aspect of the project was that there was a biocontainment consideration when carrying out the works. The installation works had little impact on this, however Grationeer Ltd produced SAPO 4 Risk Assessment to enable the commissioning to take place and allow contaminated waste to be burnt with a new quench tower in place.

The new quench tower had to be commissioned and witness to cover all design aspects and those added during the SWIFT studies. Grationeer Ltd played a key role in developing the commissioning protocol so that it aligned with the design and ensured that evidence/witnesses were in place to achieve Practical Completion.

On achieving Practical Completion, Grationeer Ltd worked with the PD/PC to generate the handover documents in line with the site's Project Information File (PIF). Grationeer Ltd delivered a presentation to the site detailing the purpose of the project, the works carried out and benefits delivered to support the funded business case.