



Flask Trolley & Rail System

Client: Imperial College London

Aims and objectives

The scope for Aquila was to design, manufacture and install, a flask trolley and rail system to transport the fuel from the CONSORT at Imperial College London.



Transport & Packaging

Cyclife EDF Group - Subsidiaries



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Project overview

Aquila, received the contracts to design, manufacture and install, a flask trolley and rail system. The 28 tonne flask was supplied by AREVA to defuel the ICL CONSORT reactor.

Finite Element Analysis (FEA) was employed to design the trolley and rail system under normal and Seismic load conditions. Due to the high forces involved, Aquila also assessed existing ground conditions and provided a load spreading solution together with a reinforced concrete apron.



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Summary

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Once again, Aquila employed Commercially Off The Shelf (COTS) components wherever possible and integrated them into the bespoke design. Being a fuel transfer activity, the QA and validation criteria were to the highest level.



Contact us

T: +44 (0) 1962 717 000
E: info@cyclifeaquila.com

www.cyclifeaquila.com

