

ENGINEERING APPLICATIONS – PROJECT DESCRIPTION

Bradken – Fume Mitigation Project

Client: Bradken, Runcorn

Project: Fume Mitigation Project – Building Works & Services Coordination

Duration: April 2013 to November 2013

Description of ENAP's Scope:

ENAP was engaged as the principal installation contractor for Bradken's fume mitigation system at their facility in Runcorn. The new state-of-the-art system imported from Germany was manufactured for Bradken, for the purpose of reducing the extraction of fumes from the existing foundry. This project encompassed the design responsibility and certification of the system. Additional structures to support the main horizontal ducting, which captured and expelled the fumes, were also constructed. This particular stage of the project involved working collaboratively with Bradken and Nederman, the system supplier whilst overseeing the coordinating all the necessary subcontract trades.

Other than the civil and building works, ENAP's scope encompassed the services coordination including:

- Subcontract procurement and management for trades including earthworks and excavation, reinforced concrete footings and slabs, electrical coordination, acoustic noise enclosure construction by specialist contractors and metal cladding and roofing.
- Commissioning and operational support as required to enable transition from old plant to new plant operation, including operational modifications and improvements.

Several components for the factory were fabricated overseas and when installed, discrepancies were discovered. The intolerances these discrepancies created had to be rectified so as the equipment could operate to the tolerances that were required for high level horizontal ducting connections. 3D surveying was adopted so that ducting angles could be adjusted to suit the items that had been fabricated overseas.





