

REDS

Environmental
Risk Management

Civils Capabilities

Fuelling Installation at Heathrow Airport

REDS have recently successfully completed a specialist fuels infrastructure project for British Airways PLC (BA) at their Fleet Support Unit (FSU) hangar, located within their operations base area at Heathrow Airport.

Works comprised of three main activities: 1. Provision of a replacement fuelling station to serve BA Engineering vehicles and equipment. This comprised the construction of a new, above ground containerised fuelling station on an area of airside apron to the immediate north east of the FSU hangar. This included the installation of a new fuel tank and dispensers, associated new power supplies and control wiring, alarms, valves and gauges. The tank installation also required the construction of dedicated drainage systems, new oil/water interceptor and connection to existing airport drainage systems, floor ducts, bunds, line markings and vehicle protection barriers.

2. Decommissioning of the existing fuel storage and delivery system located at the front of the FSU north doors. Works included the removal of the existing diesel fuel tank fill cabinet, fill point and dispensing pump and then in-filling the existing below ground fuel tank.

3. Construction of a new below ground installation comprising specialist equipment designed to provide power to aircraft (specifically the Airbus A350) being worked on inside the FSU hangar. New power cables and compressed air connections were also installed to an existing centre pit structure in the centre of the hangar, via existing duct systems.

Military Fuel Installation

This project involves the removal of existing fuel storage tanks, pre-existing pumps, separator, and drainage infrastructure, followed by the installation of new tanks, pumps, drainage systems, separator, control panels, fuel monitoring, and gauging equipment. The scope also includes the refurbishment of the existing site kiosk, ensuring the facility is upgraded to support improved operational performance, compliance, and long-term reliability.

Airside Civils Works

REDS Group successfully completed the refurbishment and protective recoating of a fuel containment bund within a live aviation fuel storage facility. The works included the removal of failed joint sealant, preparation and priming of all joint surfaces, installation of new fuel-resistant mastic sealant, and application of a specialist protective coating across the bund floor and extending 300 millimetres up the bund walls. All activities were undertaken within a live fuel farm environment under strict safety and permit controls.

Terminal Tank Decom

REDS Group's Demolition team undertook a significant project at RMA Sandhurst in the South East. The boiler house underwent a conversion to a gas system, rendering the tanks redundant. The team was commissioned to remove the aged infrastructure associated with the old oil fuel system. The task involved the removal and disposal of four above-ground fuel storage tanks, along with associated pipework, gantry, access materials, supporting brickworks, concreted areas, and walls. The comprehensive scope of work extended to backfilling and restoring the area enabling the client to repurpose.

MTFI Installation

REDS Group was commissioned to carry out works at the MTFI at RAF St Mawgan, decommissioning the existing fuel storage tanks together with associated pipework and equipment. The project also included construction and preparation works to support the installation of a new 10,000 litre above-ground fuel storage tank, providing an upgraded fuelling asset for continued operational use.



BFI Design & Build

REDS Group is currently progressing the detailed design stage for the complete replacement of existing Bulk Fuel Installations at two separate defence sites. The proposed works will involve the demolition and removal of the existing fuel infrastructure, followed by the installation of new self-bunded fuel storage tank systems, associated pipework, drainage infrastructure, and reinforced concrete bunds to provide additional environmental protection. The project is being developed to deliver a modern, compliant fuel installation.

Listed Building Tank Decom

We recently completed a complex decommissioning project for an NHS client Devon, involving the removal and disposal of a 28,000L fuel tank and associated infrastructure. The redundant tank needed to be removed to make way for a new generator to support the main hospital. Careful planning was essential due to the tank's position within a concrete bund, built flush against a listed boundary wall. A crane lift was identified as the safest and most effective removal method.

MTFI Installation

This project at RNAS Culdrose MTFI involved the replacement of an existing fuel tank alongside associated civil engineering works to improve site infrastructure and support ongoing operational requirements. The scope included the installation of a new AdBlue tank, the construction and commissioning of a new pump island, and the installation of street lighting

Fuel Installation

REDS Group was commissioned to upgrade the fuelling installation at MOD Bicester, replacing seven underground single-skin fuel tanks with new aboveground, fully bunded fuel tanks complete with pumps, alarms, gauging and monitoring systems. The project also included demolition of the existing control building and installation of a new brick kiosk, CCTV and street lighting.

Ground works & Civil Engineering

REDS successfully delivered the construction and installation of a specialist reinforced concrete structure designed to house critical operational equipment. The project involved excavation and ground preparation, installation of a partially below-ground reinforced concrete structure with high-density walls and roof, and coordination with specialist contractors throughout the works. Internal power and lighting systems were installed and commissioned, and the structure was completed with secure ballistic-rated access doors.

Tank Decommissioning

Decommissioning and demolition of an above-ground fuel storage tank and associated bund within a live Shell operational site. The works were undertaken under full Shell Permit to Work requirements and included the isolation of services, fuel recovery, tank cleaning and gas-free certification, removal of associated pipework, demolition of the tank and bund structure, responsible waste management, and reinstatement of the work area.

Tank Decom & Civils Works

REDS successfully completed the decommissioning and removal of a brick bund-encased above-ground fuel storage tank at a live Shell site located within a busy residential estate. The works were undertaken under full Shell Permit to Work requirements and included the safe decommissioning of the installation, demolition of the brick bund, removal and disposal of the redundant tank and associated materials, and full reinstatement of the work area.

Decommissioning Works

REDS successfully completed the decommissioning and removal of five 3,000-gallon and one 6,000-gallon foam-filled underground fuel storage tanks at a former petrol station forecourt. The project included the excavation and removal of the redundant tanks, management of all arisings, soil and ground testing to assess potential contamination, and preparation of the site for future redevelopment. Following completion of the works, the site was left in a suitable condition for the client to commence new construction activities.

