

CASE STUDY: Fast-Track Pipework Project

CHALLENGE

Bilfinger UK were asked to fabricate and install new pipework on the nitric acid plant as one of a number of critical path jobs during a 2021 ammonia outage

A new flange needed to be welded to an existing pipe, and a new 36" pipe spool fitted, as a critical fast-track project with an accelerated schedule.

The normal process would involve multiple visits to ensure dimensional accuracy and a Field Fit Weld (FFW).

SOLUTION

- We provided a turnkey solution, which involved planning, scheduling, engineering, fabrication at our off-site facility and then final installation at site within the outage.
- We called on laser alignment support from our engineering team to ensure the dimensional accuracy of the pipework before it arrived at site.
- We minimised the site work and achieved the critical path by completing the work right first time and on time.



BENEFITS | Safety | Right First Time & On Time | Technical Expertise | Innovation | Total Task Management |

CASE STUDY: Multidisciplinary MEISIP Service Solution

CHALLENGE

Our customer sought alternative delivery strategies to drive cost reduction and efficiency at their major oil refinery.

Bilfinger UK developed a comprehensive multidisciplinary MEISIP service solution to deliver maintenance, turnarounds and projects through a single source. This unlocked significant organisational synergies, and enabled a consistent drive for planning and productivity improvements across all delivery streams.

This award was only possible due to our consistent performance on turnarounds and projects over many years

SOLUTION

- We reduced the site's interface management and eliminated contractor delays.
- We safely transitioned the maintenance contract including TUPE transfer of circa 200 personnel.
- We provided a 20% reduction in the TAR plan and preparation, a 12% reduction in TAR preliminary and a 10% reduction in project preliminary.
- For the major turnaround circa 750 personnel on-site delivered 315,000 man hours accident free.



BENEFITS | Safety | Planning & Scheduling | Productivity | Preliminary Reductions | >70% System Scaffolding |

CASE STUDY: Multiservice Solution

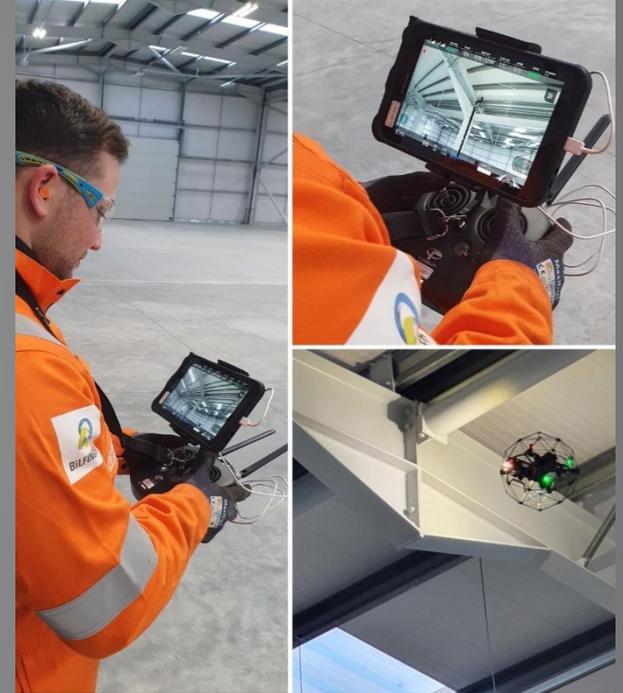
CHALLENGE

Our customer wanted to reduce their maintenance costs and increase their OEE while improving their HSE performance at their speciality chemical manufacturing facility.

Bilfinger UK were awarded the contract to provide these services after being the customer's multidisciplinary services partner for maintenance and projects for a number of years.

SOLUTION

- We provided MEISIP services, asbestos remediation, minor civils and domestic cleaning.
- We focused on innovation and productivity to keep adding value while driving cost reduction.
- We supplied internal inspection drones for spheres that saved the customer £60K on two jobs and reduced the safety risk significantly.
- We delivered a continued drive for alternative access solutions and increased system scaffold utilisation.



BENEFITS | Strong KPI Performance | £300K Savings in 18 Months | Access Solutions | 50% Decrease in Scaffolds |

CASE STUDY: Acid Plant & Reformer Turnaround

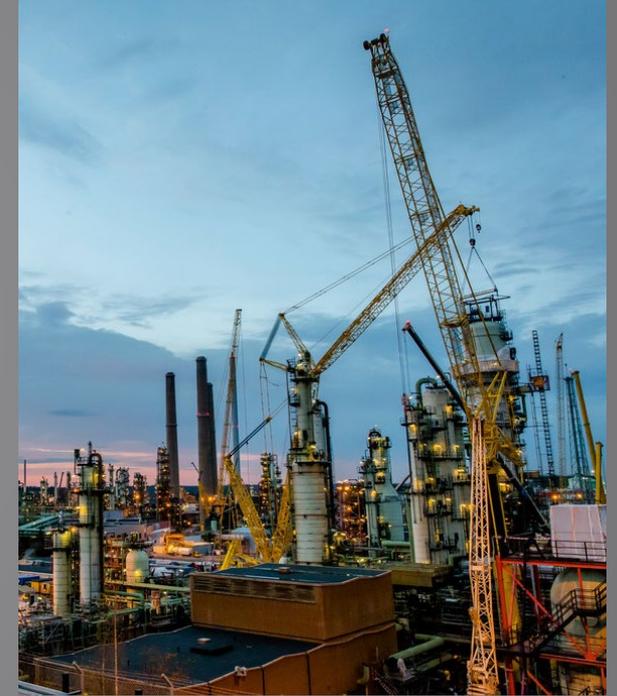
CHALLENGE

Our customer required planning and execution of the turnaround on their acid plant and reformer.

Bilfinger UK were awarded the contract to provide these services, as well as preparation and detailed planning and project management/supervision.

SOLUTION

- We planned, prepared and executed 506 mechanical job technical descriptions and erected 1200te of pre-TAR scaffold.
- We delivered flange management and quality control of approximately 1,300 joints.
- We deployed 250 blue collar personnel, who delivered the TAR schedule 1 day early on critical path activities with a schedule attainment of +26% scope.



BENEFITS | Zero Recordable & Dropped Objects | Leak Free Start-Up | Early Delivery | One Team Approach |

CASE STUDY: Process Industry Maintenance & Turnaround

CHALLENGE

Our customer required a comprehensive multidisciplinary maintenance solution to drive efficiency improvement and cost reduction across their industrial assets.

Bilfinger UK were awarded an extended contract to provide these services following the successful delivery of multiple major TARs and maintenance for the customer over many years.

SOLUTION

- We reduced employee under utilisation from 12% to 7%, increased schedule adherence to 80%, increased system scaffolding usage to >50% and reduced unscoped work to <10%.
- We utilised our digital tools and dashboards to improve planning and deliver targeted norm reductions and productivity improvements.
- We achieved zero industrial relations issues, implemented a continuous improvement culture, and provided a total task management solution.



CASE STUDY: Engineering, Design & Construction Services

CHALLENGE

Our customer required a strategic partnership with a supplier who could provide an integrated delivery team for engineering, design and construction, and supply innovation and project control on their chemical manufacturing facility.

Bilfinger UK were awarded an extension to the existing contract based on our consistent performance and our delivery of continuous improvement over many years as a long term strategic partner.

SOLUTION

- We deployed around 60 personnel to work across the two key delivery streams:
 1. Multidisciplinary design services and project management.
 2. Projects and maintenance for electrical, instrumentation, mechanical and civils trades.
- We utilised industry leading 3D scanning, design and photogrammetry to improve engineering and constructability performance.



BENEFITS | Strong Delivery Team | Technical Reach-Back | Digital Innovation | Topped Up Resources for TARs |