

 **Project**



Rehabilitation of several fire water mains at a refinery in the UK

Situation:

The largest oil refinery in the United Kingdom was confronted with the rehabilitation of leaking fire water mains with various diameters. Since the existing pipeline is located in a difficult to access and densely built-up area in the heart of the refinery, traditional open trench methods were not cost-effective. The client chose the trenchless rehabilitation system Primus Line® since a surgical operation with minimal construction pits can be realized. In addition, the product is completely manufactured and quality controlled at the factory, allowing a quick, safe, and reliable installation. Furthermore, there is minimum equipment requirements for the installation of the product and thus, the impact on the refinery's operations was minimized. Due to the ease of use of the Primus Line® system, the local in-house contractor could perform the installation after attending the Primus Line factory training in Germany. In addition, the in-house contractor can adjust the installation to comply with the refinery's operations schedule. The client also requested to retain the used ANSI standard and as the design of the Primus Line end fittings is flexible and can be adapted to customer needs, this request could also be accommodated. The life span of the fire water main is now extended by at least 50 years.

Technical Details:

Transported Medium:	Sea Water
Host Pipe Diameter:	DN 150, DN 200, DN 250
Host Pipe Material:	Cast Iron
Operating Pressure:	10 bar
Primus Line® System:	DN 150 PN 25, DN 200 PN 20, DN 250 PN 15
Total Length:	1,400 m, several sections

Client:

Refinery, UK

Construction:

2015, 2016