



FOR IMMEDIATE RELEASE – 20 April 2022

Amarinth refurbishes critical duty titanium pumps for ADNOC

Amarinth, a world-leading, net-zero designer and manufacturer of low lifecycle cost centrifugal pumps and associated equipment, primarily for the offshore and onshore oil & gas industries; nuclear and renewable energy generation; defence; desalination; process and industrial markets, has refurbished sodium hypochlorite dosing pumps for ADNOC that were originally manufactured in titanium alloy using its UAE facility to meet strict shutdown deadlines.

In 2016, Amarith delivered pumps to ADNOC for sodium hypochlorite dosing duties on the Umm Lulu offshore platform located in the Arabian Gulf 30km north-west of Abu Dhabi, UAE. Sodium hypochlorite is highly corrosive and so traditional super-duplex materials could not be used. Drawing on its wealth of experience of casting and manufacturing in exotic materials, Amarith supplied the original pumps with titanium alloy for all wetted parts.

During a routine capital assessment, ADNOC decided the pumps were due for refurbishment. The sodium hypochlorite dosing pumps are critical to production and so refurbishment had to align precisely with a specific shutdown schedule. Any delay in bringing the pumps back online would incur huge operating losses.

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Amarinth has worked closely with ADNOC on numerous challenging projects and so when it was approached to refurbish the pumps but assessed that the shutdown schedule would not allow the pumps to be returned to the United Kingdom for a full strip, assessment and refurbishment, Amarith proposed that it would use its UAE facility to undertake the work.

With a lower turnaround time plus the additional benefits of a reduced carbon footprint for not transporting the pumps to the United Kingdom, and an increase in work content staying within the UAE, ADNOC was happy to commission Amarith to complete the work.

Amarinth's UAE facility was able to complete the strip and assessment report within five working days and propose two refurbishment projects. The first would see a full rebuild, test and warranty of the first pump replacing all the titanium components including impeller, shaft, bearing brackets and mechanical seals. This would need to be completed in just eight weeks. Amarith prioritised the ordering of the titanium components using its comprehensive supply chain was able to have the parts manufactured and shipped to the UAE to align with the rebuild schedule. The second project would then undertake the same work on the other two backup pumps to be completed on a 24-week schedule.

Leveraging its renown business agility and creative approach to the challenges of the oil and gas industry, Amarith was able to complete the refurbishment of the pumps on schedule, delivering fully tested and warrantied pumps that would enable ADNOC to continue production until its next scheduled capital assessment.

Oliver Briggishaw, Managing Director of Amarith, commented: "We are delighted that ADNOC selected Amarith to refurbish these pumps. Having supplied the original pumps to ADNOC we have a wealth of experience in working with titanium components. We are also pleased with the growth of our local UAE facility for service and support and which enabled us to successfully expediate this particular refurbishment, benefiting both ADNOC and the local economy."

OPTIONAL PANEL or BOX ITEMS



Engineers completing testing of a newly refurbished sodium hypochlorite dosing pump for ADNOC in the Amarith UAE facility

NOTES TO EDITORS:

Amarinth is a carbon net zero organisation delivering world-leading expertise in the design, application and manufacture of centrifugal pumps and associated equipment for critical applications in many of the most arduous and hostile environments around the globe.

Founded in 2002, Amarith has harnessed the skills, creativity and passion of people who have worked in the pump industry for decades, delivering bespoke API and ISO pumps primarily to the offshore and onshore oil & gas industries; nuclear and renewable energy generation; defence; desalination; process and industrial markets.

The company's innovative approach, business agility and use of sophisticated computer applications enables it to deliver robust, reliable and sustainable pumping solutions on the shortest lead times in the industry.

Amarinth's portfolio includes:

- **Process pumps** – API 610, API 685, ISO 5199 horizontal, vertical and in-line bespoke process pumps, including ones that are hydraulically and dimensionally interchangeable with the former Girdlestone and other obsolete pumps.
- **Skid packages and modules** – Supplied with a variety of drives for applications including de-sanding, mixing, filtration and chemical injection and tailored for the oil & gas, water treatment and power generation industries.
- **Condensate recovery** – Cutting-edge design providing low NPSH up to 98°C with variable speed drives to reduce cycle time and lower operating costs, available in stainless steel, galvanised or copper tanks for light or heavy industrial uses.
- **Seal support** – Integrated pressurised and vented seal support systems designed and delivered to API 682 and ISO 5199 standards and specific site specifications and requirements, working closely with AES, Eagle Burgmann, John Crane and Protect System.
- **Spare parts** – Critical spares for all Amarith pumps and related components can be dispatched the same day, reducing potential downtime, and in addition components for the former Girdlestone and other obsolete pumps can be re-engineered often improving the performance of existing assets.
- **Services** – A full range of pump related services, delivered from UK head office or on-site globally, onshore or off-shore, including full commissioning and start-up support; also strip, report and refurbishment of any pump regardless of manufacturer.

Amarinth operates globally from its base in Rendlesham Suffolk, United Kingdom and offices in the Middle East and Malaysia with a global customer base, including BP, Shell, ADNOC, NOV, ExxonMobil, Schlumberger, COSCO, EDF, GlaxoSmithKline, Saudi Aramco, Pfizer, Diageo, Kuwait Oil Company, AMEC, Fluor, LUKOIL, Halliburton, and Babcock.

For further information or photos contact:

Comment:

Alex Briggshaw
Commercial Director
Amarinth Limited
Bentwaters Park
Rendlesham
Woodbridge IP12 2TW
United Kingdom

Tel: +44 (0)1394 462131
Mobile: +44 (0)7703 681821
Alex.Briggshaw@Amarinth.com

Media Relations:

Phil Harland
B6 Solutions Limited
29 Swan Drive
The Wharf
Aldermaston
Reading RG7 4UZ
United Kingdom

Tel: +44 (0)118 971 3271
Mobile: +44 (0)7880 748380
Phil.Harland@B6solutions.com

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