



FOR IMMEDIATE RELEASE – 28 November 2022

**Amarinth wins further order from VWS Westgarth of titanium
API 610 OH2 pumps for FPSO One Guyana**

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 won a further order from VWS Westgarth for two titanium API 610 OH2 pumps for use aboard the FPSO One Guyana which is destined for the Yellowtail development project, Guyana.

The Yellowtail development project comprises of six drill centres and up to 26 production and 25 injection wells. Located some 200km offshore Guyana, the deepwater wells will be tied back to the One Guyana FPSO vessel for processing. The One Guyana FPSO will perform produced water treatment functions as well as oil separation and gas injection. It will have an optimum production capacity of 250,000 barrels per day (bpd) of oil and a storage capacity of two million barrels of crude oil, gas treatment capacity of 450 million ft³ a day, and water injection capacity of 300,000 bpd.

VWS Westgarth approached Amarith for the two titanium API 610 OH2 chemically enhanced backwash pumps following the successful delivery of similar pumps to the company by Amarith for two FPSO vessels operating off Brazil.

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To handle the highly corrosive fluid, all wetted parts of the pumps will be manufactured in titanium, including the casings, impellers and shafts. Titanium is a difficult material to work with and must be cast under a full vacuum using copper crucibles to prevent the molten titanium attacking the crucible walls. The UK has one of only a few foundries in the world with the capability to cast the large titanium components necessary for the pumps. In addition, Amarith has a strong relationship with its supply chain enabling it to procure hard to source titanium components.

The API 610 OH2 pumps will be ATEX Zone 2 certified for hazardous areas with IECEx certified motors. With very limited space within the FPSO vessel, the design includes a bespoke baseplate that incorporates a local control station within its footprint. The pumps will be supplied on a tight 38-week lead time, which is necessary to fit the FPSO build which is being undertaken in China and combines the new build, multi-purpose hull with several standardised topsides modules.

Oliver Briggshaw, Managing Director of Amarith, commented: “We are delighted that VWS Westgarth has placed a further order with Amarith for these titanium API 610 OH2 pumps. This builds on our successful delivery of a previous order to VWS Westgarth and further underlines our capabilities in supplying API 610 pumps, manufactured in exotic alloys, which will operate reliably in the extremely arduous conditions experienced on FPSO vessels.”

OPTIONAL PANEL or BOX ITEMS



Amarinth API 610 titanium pumps on bespoke baseplates ready for shipment to
VWS Westgarth



Close-up of titanium casing on Amarith API 610 pump manufactured for VWS
Westgarth

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.

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