



## Technically challenging

Nama represents Amarith as its agent for the emirate of Abu Dhabi and had identified an opportunity for Amarith's expertise in pump supply on the Habshan Gas Complex Expansion project which will see the gas processing and re-injection capability doubled.

Part of this project called for horizontal API 610 OH2 pumps to be installed in an additional process train to existing gas fields. The pumps had to operate in a harsh environment to a specific and demanding hydraulic performance and so had to be manufactured from special exotic alloys which are rare, difficult to procure and challenging to machine. Despite this, the client needed these pumps delivering on a very tight deadline - just 40 weeks from order.

## Bespoke versions of designs

A standard pump was not an option and although a number of manufacturers looked at the requirements none could meet both the technical requirements and the lead time demanded by the specifications provided by the client.

Nama were quick to realise that the requirements ideally suited the capabilities of Amarith. The resulting solution complied fully with both the specifications and the lead time by creating a bespoke version of its proven API 610 OH2 horizontal pump in Alloy 825. The addition of API 682 Plan 53 accumulator systems and high temperature aluminium paint finish completed the solution.

Following a comprehensive review of Amarith by the client, it was awarded this prestigious contract.

## Process requirements

Exotic alloy is notoriously hard to procure and difficult to cast. Despite all

of this, Amarith were able to supply fully specification compliant OH2 pumps well within deadline to fit with the clients project programme.

An added complication also arose after order placement when a client process change meant that a particular pump duty was considerably altered.

Amarinth's flexibility enabled it to accommodate this change within its supply with minimal cost impact and overall delivery implication, once again securing the project programme.

All the units were subject to NDE and NDT including radiography, dye-penetrant of castings and welds, PMI and type 3.1 and 3.2 material certification of critical components. After assembly, extended API 610 tests



were conducted in-house, witnessed by the client's inspection agency.

The high level of NDT meant that a large amount of documentation was required for the pump dossiers. Amarith more than lived up to the client's expectations by ensuring that the management of the contract and of the documentation deliverables were both at the same on-schedule pace at all times.

## Local support

Amarinth, in conjunction with Nama (who will be undertake first level support), will be providing additional post order services to the client including pump commissioning and site assistance - an order for spare parts has already been received.



## Nama Development Enterprises

Nama is dedicated to further developing and maintaining its position as one of the leading, local business groups serving the Oil and Gas, Power and Water and Industrial sectors of the United Arab Emirates economy.

Our objective is to professionally satisfy the needs of our local customers while ensuring that we remain one of the first choices for international organisations that are looking for a reputable local business partner to jointly develop their business within the UAE.



*"This project's requirement of exotic alloys, API specification and fast track delivery meant that we were able to quickly identify this opportunity as one in which Amarith would excel at fulfilling. Our confidence was proved correct with the client being most satisfied with the level of customer focus, high quality product and timely delivery received. We expect much success in the coming years on similar projects, many of which we already in the process of identifying."*

**Mr Tarek Helamieh**  
Sales Manager