



Fig. 6—Swire Oilfield Services' SAFE Tank.

drawing package. Costs and lessons learned also are part of the database.

For additional information, email reuben.wee@idsdatanet.com.

Chemical Tank—Swire Oilfield Services announced production of its most-advanced offshore chemical tank. The square Swire Advanced Fluid Engineering (SAFE) tank (**Fig. 6**) is designed to carry a full range of oilfield chemicals and has a working pres-

sure of 2.67 bar and a test pressure of 4 bar. The tank design has a reduced height and footprint through use of empty space in the frame. The smaller height minimizes the need for someone to climb on top of the tank for operational or maintenance reasons. The 4.546-m³-capacity tank has dished ends and dimensions of 2.3×2.3 m, with dip and vent valves 1.6 m from the floor. The slotted fork-lifting pockets minimize dropping incidents. Because of the partially dished ends, it uses fewer external-frame stiffeners than other square tanks, and is lighter. It also has a provision for use of a dial-type level gauge. It is constructed with stainless steel for use in a marine environment.

For additional information, visit www.swireos.com.

Pipe Cladding—KLADARC has unveiled its cladding system that produces clad pipe up to 40 ft in length that meets all the safety-critical requirements necessary to mitigate corrosion

and handles sour crude. An arc-welding process known as Hot Wire Gas Tungsten Arc Welding, or Tungsten Inert Gas Welding, is used. The most common corrosion-resistant alloy (CRA) used is Alloy 625, a nickel-chromium alloy. The thickness of a two-layer Alloy 625 is 3.5 mm. CRA wire is fed into a torch that welds the CRA circumferentially along the inner wall of the pipe. The circumferential weld is created by moving the torch into the pipe, while motorized pipe rollers steadily turn the pipe. Circumferential welds ensure that the overlay of CRA is seamless, and also allow the pipe to undergo long-radius bending after the overlay process. To increase the speed of fabrication, the Tripulse system was developed. The patent-pending technology is a specially designed waveform in the electrocurrent pulse that maximizes the deposition rate and provides a consistent-quality weld. **JPT**

For additional information, email sales@kladarc.com.

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