



PRESS RELEASE  
Perth, 13<sup>th</sup> November 2007

**TECHNIP SUBSEA 7 ASIA PACIFIC COMPLETES HOT TAP  
CONTRACT FOR WOODSIDE'S ANGEL PROJECT**

Technip Subsea 7 Asia Pacific Pty Ltd (TS7) has recently completed a milestone project – the Angel 1TL Subsea Hot Tap Installation Project for Woodside Energy Ltd. Located in approximately 125m of water, in permit WA-3-L off the North West Shelf of Australia, the hot tap was the largest subsea hot tap ever performed on a Class 900 pipeline system and furthermore was completed under normal operating pressure.

TS7 was responsible for the following works:

- Installation of the 1TL Isolation Assembly Skid to enable tie-in of the 50km 30-inch Angel export pipeline in Q1, 2008
- Installation of a 30-inch diameter ball valve on the Class 900, 30-inch Future Tap\* flange surrounded by a two-piece protection structure (tie-in assembly)
- Tapping operation into the 1TL pipeline (40-inch)
- Installation and tie-in of 2 spool pieces between the valve and the isolation assembly
- Pre-commissioning of the Angel 1 TL tie-in system

The key aspect of the project was the tapping operation into the 1TL pipeline. The tapping tool was installed on and operated through the 30-inch valve at a water depth of 125m. The tapping tool cut out and removed the 27-inch diameter by 65mm thick coupon from the Future Tap flange whilst the 1TL pipeline was under normal operating pressure (circa 90 bar). At no time was field production interrupted. The project was completed in September 2007 using TS7's construction vessel, *Rockwater 2*. Extensive diver training and a high level of focus on the safety and environmental aspects of the operation were required for successful completion of the project.

Robin King, CEO of TS7 said: "The completion of the Angel 1 TL Hot Tap Installation is an important milestone for TS7. I am very proud of the project team for completing the installation project ahead of schedule, under budget and without any safety issues."

In recognition of the positive health, safety and environmental performance of the project team, TS7 and the client, Woodside Energy Ltd, have donated \$10,000 to Juvenile Diabetes Research Foundation.

\* Future Tap is a trademark of Oil States Industries Inc.



Asia Pacific

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**About the company:**

**Technip Subsea 7 Asia Pacific**

Technip Subsea 7 Asia Pacific (TS7) is one of the region's leading subsea engineering and construction companies, offering key expertise and technologies in both shallow and deepwater subsea field developments. Formed in 2006 with the joining of two leading subsea construction contractors, the new Joint Venture company has a quality pool of resources and assets and a strong track record in subsea development. With the combined strengths of Technip and Subsea 7 in Asia Pacific, the new company has the capability to handle the increasing technological demands of the deepest subsea developments in the region.

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