

### **Telvent completes Caspian Pipeline control system project and is awarded new pipeline system contract in Pakistan**

Madrid, Spain – July 8, 2004 – Telvent, the Global RealTime IT Company and subsidiary of Abengoa, has completed the Caspian Pipeline Consortium (CPC) Crude Oil Pipeline System project, with the delivery of its SimSuite Pipeline Leak Detection System.

The Telvent SimSuite system is being used to monitor and control the approximately 1,500 km pipeline which transports crude from shippers in the oil fields of Kazakhstan on the Northern tip of the Caspian Sea to the port at Novorossiysk, Russia on the Eastern coast of the Black Sea. The pipeline offers export opportunities to worldwide markets and also provides economic benefits for the region. Telvent had previously implemented an OASyS supervisory control and information management system as well as a modelling system for the CPC pipeline project.

The success of the final test was validated when the Telvent Leak Detection System identified a probable leak in the beginning of February 2004. After further investigation, the detection was found to be an illegal tap on the line. The Telvent Leak Detection System identified the approximate flow rate and quantity of oil removed, and determined the location of the tap within approximately 10 km. Based on this information, CPC immediately took the appropriate action to limit the amount of oil stolen from the pipeline.

The scope of delivery for the SimSuite Pipeline software installation also included a full-scope simulation trainer, which is a virtual copy of the pipeline, incorporating the actual PLC logic. The trainer was used to qualify the initial group of pipeline operators, and continues to be used to re-qualify employees and bring additional trained staff on as required. Telvent's deliverable to CPC also included its Engineering Design and Analysis Tool. This engineering tool is used for operational planning and analysis of future pipeline expansions.

According to Manuel Sánchez Ortega, Telvent's chairman, "Minimizing environmental impact was a key consideration that Telvent has considered throughout the project, from pipeline design, to construction and operation. The sensitivity of the SimSuite Pipeline leak detection system has contributed to this aim, an example of which is the detection recently of a leak that the system identified, and the subsequent actions taken by CPC to limit the quantity of oil stolen from the pipeline."

Telvent looks forward to a continued relationship with CPC as the consortium attempts to expand the capacity of the pipeline. Future phases include the addition of five additional pump stations. After all phases of the pipeline expansion are complete, CPC will achieve a maximum throughput of approximately 67 million tons per year. Since the pipeline went into full commercial operation in October 2001, CPC has shipped more than 30 million tons of oil (as of March 3, 2004) and currently transports more than 1.6 million tons per month from six shippers in Kazakhstan.

The CPC Consortium is a society created for the construction of the Caspian Pipeline project, and is comprised of the Republic of Kazakhstan (19 per cent) Sultanate of Oman (7 per cent), Chevron Caspian Pipeline Consortium Company (15 per cent) and other companies (47 per cent).

## **Pakistan pipeline project**

In Pakistan, Telvent was selected by the China Petroleum Engineering and Construction Corporation to supply its OASyS SCADA and information management system to the Pakistan Arab Pipeline Company's (PAPCO) White Oil Pipeline. Telvent's OASyS DNA SCADA and Information Management system will provide the control and automation functionality to assist PAPCO in managing the new pipeline safely and efficiently.

The White Oil pipeline, which will cover a distance of 817 kilometers from Karachi to Mahmood Kot in Pakistan, will provide another cross-country pipeline infrastructure of major significance. The White Oil Pipeline will transport refined petroleum products to the central and Northern regions of Pakistan, once the current pipeline network is converted to transport solely crude oil. The northern region accounts for almost 60 percent of the country's total petroleum consumption, which is expected to increase significantly in the near future.

"With an eventual capacity of 7,547 barrels per year, the White Oil Pipeline will help meet this growing need for energy, by augmenting the country's infrastructure, streamlining energy logistics and offering environmental benefits by reducing the company's dependence on road transport for shipping petroleum products. This in turn, will result in improving the national economy", said Sánchez Ortega.

The White Oil Pipeline of the Pak-Arab Refinery Limited (PAPCO) is a joint venture company formed by the Pak-Arab Refinery Limited (PARCO) and several of Pakistan's major Oil Marketing Companies. PARCO one of just three oil pipeline companies in the world with the capability to transport crude and refined products simultaneously.

## **About Telvent**

Telvent, Abengoa's RealTime Information Technology subsidiary, specializes in IT solutions with high technological added value for specific industrial sectors (Energy, Environment, Traffic and Transport). Telvent is a leading supplier to these industries in Spain, North America, Latin America and Asia.

With over 40 years experience in industrial supervisory control and business process management systems, Telvent executes projects and provides technical services in the field of mission-critical, realtime control and information management. With the most comprehensive portfolio of outsourcing and consulting services, and employing a technology-neutral philosophy, Telvent manages IT and telecommunications infrastructures for an extensive international client base. ([www.telvent.com](http://www.telvent.com))

## **About Abengoa**

Abengoa, an industrial and technology company with worldwide operations, provides solutions for Sustainable Development, the Information and Knowledge Society and the Creation of Infrastructures. The company is capitalized at over 500 million Euros (31/12/2003) and is listed on the Madrid Stock Exchange. Abengoa operates in four primary areas: Bioenergy, where it is the second largest world-wide producer of bioethanol; Environmental Services, where it is a European leader in various industrial waste market segments; Information Technology, where it has achieved global recognition and has operations in Europe, North America and Asia; and Industrial Engineering and Construction, where it is a leader in Spain and Latin America. ([www.abengoa.com](http://www.abengoa.com))