

single absorber towers for Units 1 and 2 that each measure 68.5 ft in diameter and more than 159 ft high, and two absorber towers for Unit 3 that measure 61 ft in diameter and 153 ft high. Also included are three limestone ball mills with silos and classifiers, associated tanks, agitators and pumps for the reagent preparation island; three horizontal vacuum belt filter dewatering trains and associated hydroclones, tanks, agitators and pumps for the dewatering island; and absorber oxidation air compressors, absorber recycle system and tanks, agitators and pumps for the towers.

Design and engineering work for the three WFGD systems is currently underway at B&W's headquarters in Barberton. B&W subsidiary Babcock & Wilcox Construction Co Inc will erect the equipment.

Unit 3 is scheduled to be completed by the end of 2007, and Units 1 and 2 are expected to go online by the end of 2008.

### **ALSTOM EQUIPMENT FOR SOUTH KOREAN PSP**

Alstom has received an order from South Korea's Doosan Heavy Industries & Construction Co Ltd for the supply of hydro electric equipment to the country's Yecheon Pumped-storage Plant (PSP), located on the Nagdong River system.

As sub-contractor to Doosan, Alstom will provide the design for two 400 MW pump-turbine/generator units and share the manufacturing of components with Doosan. Alstom equipment will be manufactured in the company's factories in Switzerland and France. Commercial operation is scheduled for September 2010.

## **OIL & GAS**

### **ROSNEFT-BP JV MAKES 2ND DISCOVERY IN SAKHALIN**

**Elvary Neftegaz, a Rosneft-BP joint venture, has successfully completed drilling and testing its second exploratory well in the Kaigansky - Vasuykansky exploration licence.**

The offshore licence block, covering more than 6000 sq kms, lies in the south of the Sakhalin-5 acreage, north-east of Sakhalin Island. The Udachnaya well was drilled to a total depth of 2705 metres and encountered hydrocarbons in three zones. A restricted test programme was conducted on a single zone which flowed at a rate of 1900 barrels of oil per day through a 28/64-inch choke.

This second discovery in the block was made by the Transocean Legend semi-submersible drilling rig on the Udachnaya structure located about 40 kms offshore, in water depths of 100 metres.

The first well in the Kaigansky - Vasuykansky exploration licence was drilled in 2004 on the Pela Lache structure. Elvary Neftegaz plans to continue exploratory drilling in 2006.

### **AKER KVAERNER SECURES GULF OF MEXICO CONTRACT**

**Chevron and Kerr-McGee have awarded Aker Kvaerner Inc the US\$120 million semi-submersible hull and mooring system contract for their Blind Faith project in the Gulf of Mexico.**

Aker Kvaerner's scope of work includes engineering, procurement, construction and transportation.

The Blind Faith platform, to be located in the Mississippi Canyon 650 block, approximately 162 miles southeast of New Orleans, is part of the ultra-deepwater Gulf of Mexico in 6500 feet water depth. This contract award follows more than one year of concept studies, pre-FEED (front-end engineering design) studies and a FEED study for the Blind Faith project by Aker Kvaerner's Deepwater Business unit.

This development will use Aker Kvaerner's Deep Draft Semisubmersible (DDS) concept which has been conceived specifically for the application of steel catenary risers in the ultra-deepwater and current-heavy Gulf of Mexico environment.

The Blind Faith semisubmersible will be delivered using several Aker Kvaerner entities such as Aker Kvaerner, Inc, Aker Kvaerner Verdal, Aker Kvaerner Engineering & Technology and Aker Marine Contractors.

The execution phase of the project will be initiated immediately with Aker Kvaerner to deliver the DDS hull to a Gulf of Mexico integration yard in June 2007.

### **FW TO DESIGN, BUILD SASTECH'S DEMO PLANT IN SOUTH AFRICA**

**Sasol Technology (Pty) Ltd (Sastech) has selected Foster Wheeler South Africa (Pty) Ltd for the engineering, procurement and construction management contract for a new research and development (R&D) facility associated with Sasol's Fischer-Tropsch process.**

Foster Wheeler will design and manage the construction of the new plant which will be integrated into Sasol's extensive R&D facility at Sasolburg, South Africa. The Fischer-Tropsch process is a catalyzed

chemical reaction in which carbon monoxide and hydrogen are converted into liquid hydrocarbons in various forms. Sasol's proprietary Fischer-Tropsch technology is one of three key elements of its state-of-the-art gas-to-liquids process.

The basic engineering package for this new demonstration plant has been completed by Sasol. The FTDR project is scheduled for completion by the end of 2006.

### **FLUOR WINS QATAR LNG COMPLEX PROJECT**

**Fluor Corp subsidiaries will provide the initial phase of engineering, procurement and construction management services (EPCM) for Ras Laffan Liquefied Natural Gas Co Ltd's Common Offplot Projects in Qatar.**

The EPCM contract covers common offplot facilities required to support a significant number of new projects in Ras Laffan, including six world scale LNG trains, which will use gas from the North Field. These offplot facilities include utilities, tankage and equipment required to enable storage and loading operations of liquefied petroleum gas and condensates produced from these operations. Work for this initial phase will be performed in Fluor's Houston office.

### **KBR UNDERTAKES MAJOR REFINERY EXPANSION**

**Motiva Enterprises LLC, a joint venture between Shell Oil Co and Saudi Refining Inc, has selected Kellogg Brown & Root (KBR) to provide conceptualization, planning and early design services for a major refinery expansion being considered by Motiva in the USA.**

This 325 000 barrel per day (BPD) capacity increase will be designed to process heavy sour crudes.

As one of the first major US refinery expansion projects in 30 years, this strategic initiative is part of Motiva's plan announced in September 2005 to increase refining capacity at one or more of its petroleum product refineries. The company's Gulf Coast refineries are strategically located to supplement additional transportation fuels needed to meet the growing demand in the US.

All three Motiva refineries have ready access to waterborne crude oil and major product pipelines, and are viable candidates for a refinery expansion. Motiva currently owns three refineries in the Gulf Coast area, located in Port Arthur, Texas; Convent, Louisiana; and Norco, Louisiana.

## WATER & WASTEWATER

### SUEZ TO MANAGE ALGIERS WATER, WASTEWATER

SUEZ Environment and the Algerian authorities (ONA, the National Wastewater Authority and ADE, the Algerian Water Authority) have signed a draft agreement for a public-private partnership for the management of Algiers water and wastewater service.

This partnership has an initial five year duration and is worth nearly €120 million euros. A priority for the partnership will be to upgrade and modernize the Algiers water and waste water utilities, making the services more reliable over the long term.

Investment needs will be met by the Algerian authorities who will devote €200 million per annum to the project.

### VEOLIA WATER TO UPGRADE ISLAMABAD'S WASTEWATER

Veolia Water, the water division of Veolia Environnement, has signed a design-build agreement with the Capital Development Authority of Islamabad to carry out a major overhaul of the Pakistani capital's wastewater treatment system, including the refurbishment of two existing facilities and the construction of a new plant.

The €25 million contract will be financed under a joint Franco-Pakistani program, and is due to be completed in 26 months.

The project has four phases. Phases I and II, which have been underway since early November, involve the refurbishment of an existing treatment plant, and phase III comprises the refurbishment of another plant. Phase IV will involve the construction of a brand new wastewater treatment plant.

Veolia Water Solutions and Technologies is delivering the entire range of services in conjunction with local partner Habib Rafiq Ltd.

## PULP & PAPER

### ANDRITZ WOODYARD, FIBERLINE FOR BRAZIL

Andritz is to supply Suzano Bahia Sul Papel e Celulose SA with the woodyard and the fiberline (washing, screening, bleaching) for a new pulp line that Suzano is building in Bahia, Brazil.

The new line will have a capacity of one million t/a of eucalyptus pulp. Start-up is scheduled for the third quarter of 2007.

The final contracts with the equipment suppliers will be signed during the coming months.

- Aker Kvaerner is to supply cooking plant and a complete recovery island to Suzano's new pulp mill in Brazil. Start-up is scheduled for the third quarter of 2007. Aker Kvaerner will provide engineering, procurement and construction services (EPC) under the new contract. Kvaerner Pulping will deliver the cooking plant as well as the white liquor plant. Kvaerner Power will supply a new recovery boiler, a recovery boiler modernization and a new evaporation plant. Kvaerner Power delivered the original boiler in 1990.

### METSO TO UPGRADE UPM FINISHING LINE

Metso Paper will modernize the paper machine PM 6 finishing line at UPM's Kaipola mill in Jämsä, Finland. Start-up of the upgraded LWC paper finishing line is scheduled for August 2006. The order is worth approximately €9 million.

The delivery will include the rebuild of winders, new rewinder and new roll wrapping machine. The modernization of the finishing line will improve the quality of the customer rolls produced and will enable production of bigger rolls. The PM 6 has a wire width of 9.1 metres and a speed of 1600 m/min.

UPM's Kaipola mill operates three paper machines, which produce 710 000 tons of LWC, directory paper and newsprint per year.

- Metso Paper will also supply a fiber line and bleaching process to Tamil Nadu Newsprint in India in a €25 million deal. The new systems are scheduled to start up at the beginning of 2007.

## CHEMICALS

### DEGUSSA PLANS ADDITIONAL PRODUCTION UNIT

Degussa AG has started basic planning for a new production line for isophorone products at its site in Herne, Germany.

Once the planning work has been completed, construction of the unit, which is to take up operation in 2007, has to be authorized by the Degussa management and supervisory boards.

### JACOBS TAKES ON US BORAX EXPANSION

Jacobs Engineering Group Inc has received a contract from US Borax to provide engineering, procurement, and construction management services to expand the boric acid production capacity at the US Borax plant in Boron, California.

Jacobs has a 40-year relationship with US Borax. Officials estimate the project value at US\$44 million.

### JAAKKO PÖYRY/KEMIRA TEAM UP FOR URUGUAY WORK

Kemira SA has commissioned the Jaakko Pöyry Group's Forest Industry business group to provide project management and engineering services for the chemical plants being built for Botnia's pulp mill in Uruguay.

As well as project management and engineering services, Jaakko Pöyry has an option to deliver construction management, site services and commissioning services.