



## Safe cable seals for a cleaner city

REPORT FROM WASTEWATER TREATMENT PLANT IN SHANGHAI, CHINA

“Better city, better life” is the theme of the World Expo Shanghai 2010. One of the huge projects for a sustainable development is the expansion of the Bailonggang wastewater treat-

ment plant. The plant is expected to take care of one third of the wastewater of Shanghai and become Asia’s largest wastewater treatment plant. To succeed, the designers had to overcome

the troubles with water leaking into the basements. They chose the Roxtec cable sealing solution – and secured the great environmental project.

# Sustainable sealing solutions

By 2010, Shanghai will have a wastewater system covering the whole city. The emission of substances will be reduced and the air quality and water environment will be improved. Roxtec seals now ensure operational reliability in the biggest wastewater treatment plant.

Even a green project must stop at a red light. In this case, the stop was caused by the high ground water and the rain, entering through the poor initial cable sealing of concrete. The water filled up the covered cable trenches and basements of the plant. When humidity entered the buildings, cable connectors and control equipment started to corrode. And the combination of water

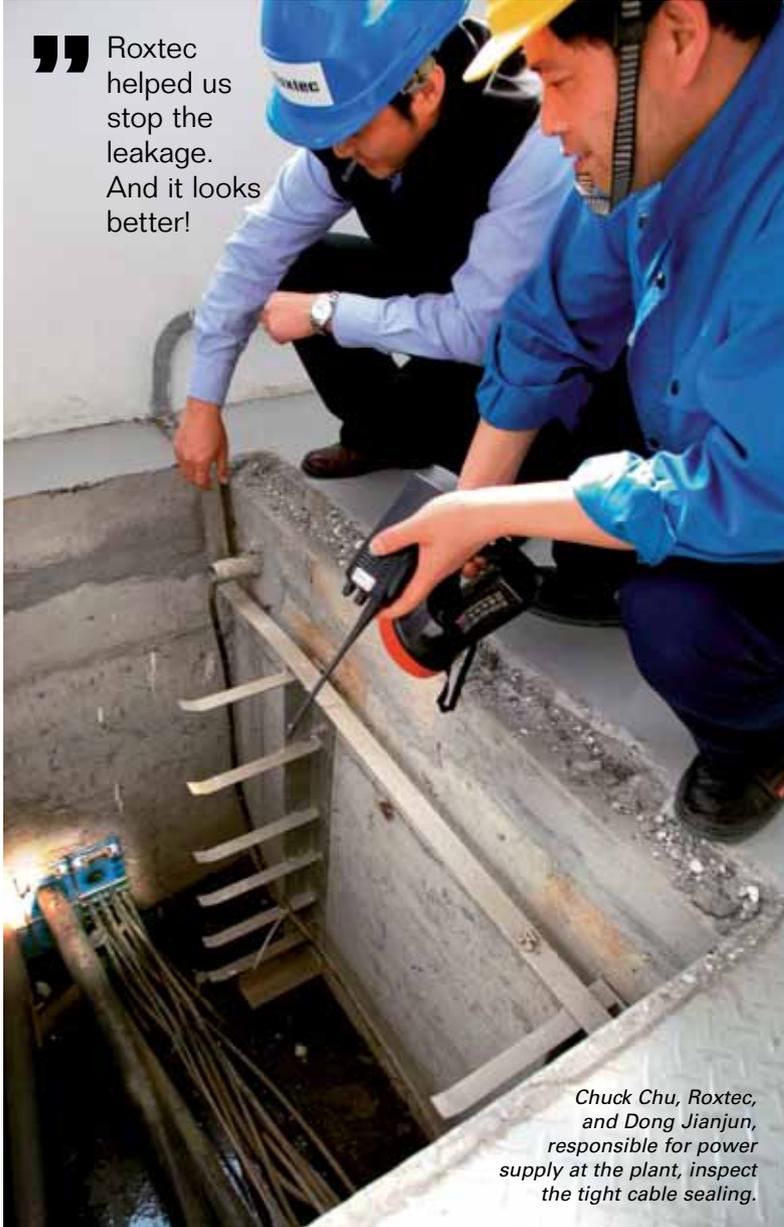
and power supply was not at all recommended...

## Watertight investment

As soon as the project designers saw the Roxtec cable sealing system, they knew that this was the solution. They were able to solve their safety and leakage problems. They also understood that it would be economical to invest in the flexible sealing system.



“ Rextec helped us stop the leakage. And it looks better!



*Chuck Chu, Rextec, and Dong Jianjun, responsible for power supply at the plant, inspect the tight cable sealing.*



*Rextec seals are area efficient.*

#### BENEFITS

- Watertight
- Gas-tight
- Easy maintenance
- Efficient cable management
- Built-in spare capacity

#### Multidiameter™ by Rextec

The Rextec invention for adaptability to different sizes of cables is based on sealing modules with removable layers. It is perfect when you want a standardized solution.

“There are many construction companies involved, and we use a lot of cables of various dimensions,” confirms Wang Weihong, project leader for the air compression facility.

#### Superior cable management

Instead of trying to seal power cables with loads of stiff concrete, the installers have been able to organize the cables in Rextec transits that withstand sudden changes in weather or temperature. “It is so much better than before. We have no more leakage and the appearance is much nicer,” says Dong Jianjun, responsible for the power supply department at the plant.

#### Easy maintenance

The plant is close to the sea. The salt water in the cable trenches destroys the protective layer of the cables, which means that some cables must be replaced after a couple of years. This is costly – especially if all openings are sealed with concrete. The Rextec seals are easy to open up whenever there is a need for maintenance. They make it easy to change cables.

#### Expansion capacity

The Rextec seals also provide built-in spare capacity for additional cables. Before, the cables were stuck in the concrete, once and for all. But now, there is no more need for making new holes in the concrete for the upcoming phases of the plant reconstruction. Thanks to Rextec, there is once again green light for the great environmental project.



## Facts

<b>Project type</b>	Wastewater manufactory construction	<b>Roxtec construction references</b> Berlin Hauptbahnhof, Boston Central Artery Tunnel, Clinical Center Jena, Dow Chemical, Pfizer, Royal Alex Hospital, St John's Waste Water Treatment Plant, ST Microelectronics, Winnipeg Int. Airport.
<b>Involved companies</b>	Shanghai Municipal Construction Investment and Development Corporation (owner) Shanghai Municipal Engineering Design Institute (design and engineering) Shanghai Municipal Sewer Co., Ltd. (contractor) China Construction 8th Engineering Division (installations)	
<b>Applications</b>	Cable entries in transformer house and air blower room walls	
<b>Requirements</b>	Water-proof Gas-proof	
<b>Roxtec products</b>	Roxtec G frames Roxtec wedges Roxtec adaptable sealing modules	
<b>Reasons for choosing Roxtec</b>	Watertight and safe sealing solutions Simplified service and maintenance Neat and clean cable management Spare cable capacity for future expansion Multidiameter™ by Roxtec – adapts to cables of different sizes	



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