

REPORTS

Nanhai Petrochem



The Nanhai petrochemical project is described as the largest Chinese-foreign joint venture ever seen. When the vast plant in Daya Bay, south

east China, was being planned and the first units built, it was obvious that a vast number of cables and pipes were going to be installed. The

international sales team from Roxtec were able to support the clients from the start and throughout the building phase for the cable and pipe seals.

Roxtec team reports on site
Roxtec cable and pipe transits in
process equipment in China

Safety and simplicity with Roxtec in process industry



Our idea at Roxtec is to make it as easy and simple as possible for the customers in every way. For the Nanhai project the international team of Roxtec sales offices around the world joined forces to support the different contractors and designers throughout the project. Help with technical drawings and product specifications was provided in order for the customers to achieve a safe and highly functional standard for the

sealing of routed cables and pipes. Our people assisted on site too for maximum quality. Through our global presence and coordinated international support, Roxtec provided its clients the desired back up and security.

Roxtec in power utility

The Nanhai plant is self sufficient on electrical power and ten substations are situated amongst the petrochem process areas. Roxtec

is used in several places. One is to seal cables routed through the walls of the entry rooms of the concrete stations. A standardised solution is the Roxtec G 6+6x8 frame. Inside the transformer rooms transformer cabinets also use Roxtec. Typical frames are G 4 and G 6 and in combinations. The transits not only protect the different environments outside and inside of the transformer rooms but help organise the cable routing effectively.

Control rooms

Similarly to utility rooms Roxtec is also used in process control rooms. Here the purpose is to seal cables entering into the inside of the area. Among the demands were protection against hazards of explosion. The Roxtec transits are located at the bottom of the cabinets, and the cables enter the cabinets through the floor. "Our goal is always to supply the perfect solution to our customers" says



representatives of the international Roxtec sales team. We talk with the customer early in a project and try to establish the requirements for the installations. In the Nanhai project we were then able to more or less standardise a selection of products from Roxtec that fit the need very well. Our experience is that this process makes it simple and safe for the customers. We also assist with product training in the field for installers if necessary.

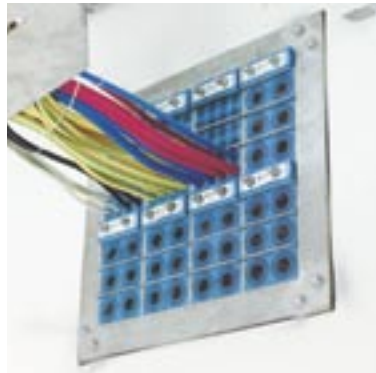
Our commitment does not end at the delivery. We like to follow up on the entire quality process.

Plant buildings and cabinets

Apart from the utility areas and the main control rooms Roxtec is also installed extensively throughout the Nanhai plant in buildings in general and in cabinets. Here, again, the combination of protection against fire, explosion, water and rodents has qualified the Roxtec products

to be used wherever cables and pipes are routed from one area to the next. "Our solutions are well engineered to suit even the most demanding of process industries. Right now we are preparing a number of solutions to further projects", says Guilian Chen at Roxtec Shanghai Trading, responsible for the local sales and product training on site in China. ■

(Left page) Roxtec rectangular G frame-seals protect cables entering from the outside. (Above) Cabinets in control rooms use Roxtec to seal cables entering from under the floor. (Right) Roxtec secures a vast number of cables passing from the outside into buildings throughout the Process and Utility areas.



Facts

Project type:	Petrochemical process industry.
Client/Owner:	Shell Nanhai BV and CNOOC Petrochemicals Investment Limited (CSPCL).
Engineering & Main contractor:	BSF - Bechtel, SINOPEC Engineering/Tenth Construction Company, Foster Wheeler Energy, Technimont, Italy and JGC, Japan.
Time:	Planning start 2001, operation 2005.
Roxtec Support:	<ul style="list-style-type: none">- Roxtec transit calculation support- Installation training- On-site inspection and follow up <p>The international Roxtec sales team of Sweden, UK, Italy, Japan, USA and China supported the customer from start to finish of the project, including technical solutions, installation training and assistance. Also performed validation on site.</p>
Roxtec transits:	G frame transits, cast in concrete in transformer rooms, control rooms and plant buildings. CF compact entry seals bolted in transformer cabinets and plant cabinets.
Roxtec frames:	250 pcs G 6+6x8 frame openings, total of 6000-7000 openings of all sizes and types.
Roxtec packing materials:	Roxtec RM modules and CM modules: more than 200 000 pcs. Roxtec Wedge approx. 7000 pcs. Roxtec Lubricant approx. 7000 pcs.
Sealing requirements:	Fire protection Water tightness Explosion proof



Roxtec General Petrochem References (extract)

Atofina, France
BASF Dye Chemical Co Ltd, China
BP Deutschland AG, Germany
CSPCL Nanhai, China
Eliokem, France
Hudong-Zhonghua Shipyard, China
Llyondell, France
Qi Lu Petrochemical Co. Ltd, China
Shell-CNOOC, China
Secco, China
Statoil, Norway
Yangzi Petrochemical Co Ltd, China



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