

Large fire fighting pump sets for Abu Dhabi's oil pipeline

RON SIEBEN ■ NORIT NIJHUIS' FIRE PROTECTION DIVISION RECENTLY RECEIVED AN ORDER FROM CHINA PETROLEUM ENGINEERING & CONSTRUCTION CORPORATION (CPECC) FOR THE SUPPLY OF FIRE FIGHTING PUMP SETS TO THE ABU DHABI CRUDE OIL PIPELINE (ADCOP) PROJECT.

When commissioned, the pipeline will reduce the reliance on oil terminals in the Gulf and decrease shipping activities in the Strait of Hormuz, through which much oil is transported. The oil pipeline will run more than 400 km from the Habshan oil fields in Abu Dhabi to the export facilities near Fujairah and will have a capacity of 1.5 million barrels per day (bpd). The project is scheduled for commissioning in 2010.

The protection and safety of both human life and the installations in case of fire at the three onshore production locations and the coastal location is one of the highest priorities for this project. Therefore, Norit Nijhuis' Fire Protection selected a stable and reliable product program to match the wishes of the customer. This cooperation between Norit Nijhuis and the customer has resulted in the best and most

economic combination of pump sets to be installed. Norit Nijhuis delivered fewer, but larger pumps with higher capacities to achieve the needed protection. For the onshore locations a total of 14 fire fighting pumps, electric and diesel driven, will be installed. The eight largest pump sets will pump the extinguishing water with a capacity of 2,400 m³/h at 148 mlc and 2 MW electric/engine drive.

For the coastal location three large containerized pump units with a weight of about 26,000 kg each will be installed. These "all in one" containers are

fully automatic and each contains a pump set with a capacity of 2,400 m³/h at 170 mlc and 2 MW engine drive.

All the fire fighting systems comply with the highest requirements and standards, in this case NFPA-20 and DEP. With this fire fighting equipment ADCOP is well prepared and in the event of a fire, damage will be restricted to less than 10 percent, which will result in lower costs and less environmental impact.

