



Consafe/Karachaganak Custom Built AC & DC UPS

Consafe Engineering based in Aberdeen awarded a contract to supply dual redundant AC and DC UPS systems for the Karachaganak Unit 3 Oil Field development in Kazakhstan.

The UPS provides critical backup emergency power to the oil field control and monitoring station including safety system shutdown power.

The systems comprised of design, manufacture, factory testing, project management, export packaging, delivery and site commissioning.

Harland Simon UPS Ltd. provided 2 x custom built Best AC & DC UPS systems including 20 year nickel cadmium batteries to meet detailed customer specifications on rating, runtime, overload and temperature.

These systems were supplied in 1999 and deployed straight to the field.

"Harland Simon UPS took a standard Best Power AC UPS, added Deakin DC UPS, Alcase batteries and Orga circuit breakers to fully customise the system to meet the customer's very detailed specification." Andy Parfitt, Sales Director HSUPS.



- » Dual redundant 15 kVA & 40 kVA Single Phase AC UPS
- » Dual redundant 10A/110VDC DC UPS
- » 20 year life nickel cadmium batteries
- » EEX-D explosion proof battery circuit breakers



The Karachaganak field is one of the world's largest gas condensate reservoirs and was discovered in 1979 and began production in 1984. It lies on the northern margin of the Pre-Caspian basin 150km east of Uralsk, Kazakhstan covering an area of more than 280km². The field's reserves comprise over 1,200 million tons of oil and condensate and more than 1.35 trillion cubic metres of gas. The field produces through three operational units, namely the Karachaganak processing complex (KPC), a gas and liquids separation and re-injection plant referred to as Unit-2, and a gas and liquid separation plant known as Unit-3.

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