



Since taking over the manufacturing, design expertise and capabilities of the Hill Graham operation, **Zeefax** has provided continued support for the Big Orange XVIII well stimulation vessel, which has a large installation of legacy drives, originally provided by Hill Graham.

SCR Power Systems

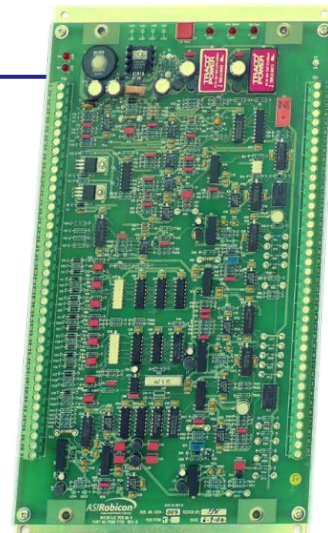
The Big Orange XVIII based in Montrose provides processing and installation support to keep oil flowing from the numerous North Sea wells.

Electric motors are used both in both propulsion and well pumping duty, and three 3200kW diesel generators provide the electrical power required on board.

The propulsion system uses two rotatable thrusters to ensure very accurate positioning of the vessel, and there is also a full complement of compressors and pumps which are used in the well stimulation process

There are fifteen 1200kW DC motor drives (SCRs) on board, which control the power to the propulsion units and the pumping motors. A major feature of the power system is built in redundancy; all 3 generators are only needed if all drives are at full power, and under normal operating conditions, only two of the generators are required. This means that if needed, the modules and the electronic circuit boards which form the control system can be replaced at sea and sent away for repair when convenient.

The ability to turn an engine off when not at full load can lead to significant fuel savings for a ship on this type of duty.



The 15 drives and associated electronic cards and modules which give the vessel the very high degree of control needed, plus the three engine and generator controllers, were all originally supplied by Hill Graham Controls.

All this vintage, but complex, equipment needs highly specialised servicing and engineering support, and **Zeefax** now provides this from our design and manufacturing facility in Bracknell, near London England.

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Contact us

For all Hill Graham services and manufactured parts, **Zeefax** is now the preferred supplier worldwide, as well as providing a host of other related Drilling services including...

- ❖ Site Surveys and Field Service Support
- ❖ Coordination Studies
- ❖ GE752 Drive Motor Refurbishments
- ❖ SCR Refurbishments and Enhancements
- ❖ New design and build SCR systems – VFD and DC Systems
- ❖ SCR and PLC Training Courses
- ❖ Spares and Service for Ross Hill SCR Systems and Modules

Please call us to find out more about how we can help to preserve your capital investment, through a program of works, carefully designed to optimise the utility and the performance of your Power System, whilst ensuring that it provides reliable and dependable operation for all your drilling applications.



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