



DATE: December 16, 1998

SUBJECT: Possible SCR Puck failure – Pipe Unwind

SERIAL NUMBERS: 21 – 29, 31, 33 – 66, 68 and up

DISCUSSION: While working a stuck bit, the TD will stall out after several turns of pipe rotation. If the “stall” condition remains for an extended period of time (the CANRIG control system will warn the driller via flashing “enable” light and intermittent horn burst if this time has been reached or exceeded), it will be necessary to either release the torsional torque, or set the brake to avoid overheating of the traction motor. If the “wound-up” torque is not properly released, a SCR failure can result from the reverse flow of energy, from the pipe back to the SCR.

- RECOMMENDATION:**
1. Releasing the torque should be done by turning the throttle down. If the throttle is turned down rapidly, the CANRIG PLC will initiate an “Unwind” routine that will properly control the wound-up torque. The same control can be manually applied by **slowly** reducing the DRILL TORQUE LIMIT.
 2. If the Brake is set, the throttle must be turned to zero. Before the Brake can be released, the throttle must first be applied to control the torque. Once the TORQUE METER indicates that Drill Torque Limit has been reached, the brake can safely be released. If the bit is free, forward rotation will resume and the torque will drop below the limit setting. Drilling ahead can resume. If the bit is still stuck, the motor remains stalled and torque can be unwound as described in paragraph 1 (above).
 3. **If the above procedure is not followed, serious damage can result in the SCR unit. The only time the torque can be unwound by manually switching the brake ON and OFF, is when the Top Drive is in the AUX MODE.**

(This bulletin is based upon information of the systems as delivered from the factory. Any changes or exchanging of system components can impact performances or operational sequences of the equipment.)

INFORMATION:

For further information contact:

Field Operations Manager
Canrig Drilling Technology Ltd.
14703 FM 1488
Magnolia, Texas 77354
Phone: 281.259.8887
Fax: 281.259.8158

This page intentionally left blank