



# WYLFA NUCLEAR POWER STATION

## SITE NAME:

WYLFA NUCLEAR POWER STATION

## DESCRIPTION OF THE WORKS:

TO DRILL 15NO FULLY CORED BOREHOLES TO DEPTHS OF UP TO 200MTR WHILE MAINTAINING EXACTING STANDARDS OF VERTICALITY AT THE PROPOSED SITE OF A NEW DEVELOPMENT AT WYLFA NUCLEAR POWER STATION ON ANGLESEY.

## HOW THE WORK WAS CARRIED OUT:

'**GEOTECHNICAL ENVIRONMENTAL SERVICES**' DIVISION OF **DRILCORP** TACKLED THE WORK WITH A BERRETTA T57GEO ROTARY TOP DRIVE TRACK MOUNTED DRILLING RIG WITH CLEAN WATER FLUSH. THE CORING SYSTEM USED WAS A GEOBORE 'S' WIRELINE SYSTEM MANUFACTURED BY ATLAS COPCO WHICH PRODUCED A 102MM CORE. ALL CORES RECOVERED WERE OF EXTREMELY GOOD QUALITY WITH VIRTUALLY 100% RECOVERY THROUGHOUT.

JKS BOYLES OFFERED TECHNICAL ADVICE ON THE CHOICE OF CORE BIT PROVIDING SERIES 8 IMPREGNATED SLOT FACE DISCHARGE DIAMOND BITS WITH 8MM OF DIAMOND IMPREGNATION. THIS WAS AN EXCELLENT CHOICE PROVIDING OPTIMUM PENETRATION AND BIT WEAR IN THE MEDIUM TO HARD STRATA AT THE SITE. BIT OF LIFE AVERAGED 120MTR, FAR IN EXCESS OF ANY OTHER BIT USED ON IN TRIALS DURING THE WORKS.

VERTICALITY TESTS WERE CARRIED OUT AT 20MTR INTERVALS ON MOST BOREHOLES WITH DRILCORPS IN-HOUSE REFLEX MAXIBOR II OPTICAL BOREHOLE SURVEY SYSTEM VERTICALITY TOOL. THIS VERSATILE TOOL HAS AN OUTSIDE DIAMETER OF ONLY 44MM AND CAN BE EITHER PUMPED INTO A BOREHOLE OR RUN IN BY WIRELINE.

ALL BOREHOLES WERE WELL WITHIN THE SPECIFIED VERTICALITY PARAMETERS.

