

# ALEXANDER

2 WATERWORKS ROAD, OMAGH, CO. TYRONE, BT79 7JS  
T: 028 8224 2348 F: 028 8224 1454

## ACCREDITATION AND ORGANISATIONS



## COOLKEERAGH

<b>CLIENT</b>	<b>Northern Ireland Electricity</b>
<b>DESIGN ENGINEER</b>	<b>PB Power</b>
<b>CONTRACT VALUE</b>	<b>£425,000</b>
<b>CONTRACT PERIOD</b>	<b>7 Months</b>



### DETAILS

Northern Ireland Electricity (NIE) required extra distribution capacity within the Northwest region. To accommodate this requirement successfully and to a high standard their existing 110kV substation at Coolkeeragh required extending. We are undertaking this intricate project which involves the following: Removal and replacement of the site road and drainage systems; bulk excavation, including the removal of large quantities of High voltage buried cables; construction of a 70m Gabion Baskets Retaining Wall to support the new road; extension of substation by 2 bays which involved the construction of 25 steelwork support foundations, 100m of cable trench and a new internal access road; erection of a palisade fence.

### ENVIRONMENTAL CONSIDERATIONS

All site drainage feed directly into Lough Foyle, Controls were taken to prevent contaminants entering the Lough. Water quality testing was carried out by Coolkeeragh power station to monitor outflow from site. No conformances were reported.

### HEALTH AND SAFETY CONSIDERATIONS

This project requires that work within a Live 110KV substation is undertaken by specially training operatives and that strict safety rules are implemented. Safe working procedures around live conductors/ Powerlines and buried cables were paramount on this project. Extreme care was taken when completing the bulk excavation as numerous HV cables were present throughout site. No accidents occurred during the completion of this work.