

ALEXANDER

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ACCREDITATION AND ORGANISATIONS



CARRICKFERGUS NORTH

CLIENT	Northern Ireland Electricity
DESIGN ENGINEER	Aecom
CONTRACT VALUE	£120,000
CONTRACT PERIOD	12 weeks



DETAILS

This project was completed as part of W&H Alexander's fixed term contract with NIE for Greenfield and Brownfield sites. Carrickfergus North substation is an existing substation and the following works were completed to the extension:

- Removal of perimeter fence
- Construction of a new 33/110KV switch house, with 1.5m deep basement RC retaining structure below a precast floor supported by structural steel. Walls 415mm double skin masonry and roof is pitched with a tiled surface on precast slabs.
- Construction of two number 33/110KV transformer bases.
- Construction of inspection chambers and ducts.
- Construction of new perimeter fence

HEALTH AND SAFETY CONSIDERATIONS

The palisade fence to the existing sub remained in place during construction to ensure that work was not live; therefore not all operatives had to be NIE authorised. The site was located within a residential development and unauthorised access to the site outside working hours posed a risk. Additional security fencing was placed to the site perimeter with warning signage. Scaffolding was secured, materials stored away openings protected at the end of each day.