

ALEXANDER

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

ACCREDITATION AND ORGANISATIONS



CARGOS HILL

CLIENT	Northern Ireland Electricity
DESIGN ENGINEER	Aecom
CONTRACT VALUE	£70,000
CONTRACT PERIOD	12 weeks



DETAILS

Cargos Hill is an existing substation and is situated in Bangor. NIE required a new control building within this substation to coincide with a new compound fit out. The 33/110KV control building construction involved: a 1.5m deep basement RC retaining structure below a precast floor supported by structural steel. 415mm double skin masonry walls and roof is pitched with a tiled surface on precast slabs. External decorative blocks were used for the first time on a NIE control building. Working room was very restricted on this project which resulted in the use of a concrete pump and a 50T crane to pour basement and place precast slabs.

HEALTH AND SAFETY CONSIDERATIONS

The substation had to remain live during construction so a partition fence had to be erected to separate the substation from the work area. Allowing for safe working distances from the conductors this greatly reduced the available working room. All operatives on this project were NIE trained and authorised. The substation was located beside a children's play park which meant that additional attention had to be paid to site security to prevent unauthorised access.