



FIBRE OPTIC TERMINATION STATION

Southport, England

OWNER

360 Networks

DESIGN AND CONSTRUCTION TEAM

Electrical Consultants: MCW Consultants Ltd.

Structural: RJC

Architect: IBI Group

PROJECT DESCRIPTION

This project is the submarine fibre optic Termination building connecting Dublin and Halifax. The building also provides the interface between the submarine cables and the Terrestrial fibre optic network.

SYSTEM DESCRIPTION

Electrical

- 2 MVA service with dual Transformers providing building power @ 230/400V-3 phase - 4W 50 HZ
- 3-1000 KVA generators providing back up power to the double ended switchboard serviced by the 2 MVA transformers
- 10,000 amp -ve 48V DC plant providing dual inputs for all Teleco equipment
- Submarine cable power supply at 11,000V DC
- Total monitoring of all systems at 360 corporate office in Vancouver
- All systems designed for N+1 redundancy

Mechanical

- Air cooled chillers provide 400 tons of cooling
- Computer style air handlers in an N+1 configuration
- Double chilled water loop for redundancy
- 7 days fuel supply for the Gensets