

Dalmally Substation Enabling Works & Substation Building

Client: SP Power Systems
Form of Contract: NEC3 Option B



Main Description

Scottish Power Energy Networks (SPEN) replaced the existing 275kV switchgear and undertook reconfiguration of the site. The site was constrained at the boundary by a building, two existing overhead line towers and a 275kV grid compound. The reconfiguration of the site included the construction of a new control building and the extension of the substation in two new platforms.

NRS Group undertook the Civil Enabling works package consisting of the construction of the platform extension and site preparation works for the new substation. Works involved:

- Site Clearance including removal of trees and stumps.
- Excavation and removal of 8,000m³ of material (peat and inert material).
- Importation of 9,000m³ of fill.
- Installation of drainage system and manholes.
- Construction of French Drains.
- Construction of access roads.
- Installation of service ducting
- Installation of High Security Palisade Fencing and security gate.
- Installation of earth mats, earthing and bonding.
- Traffic Management Measures.

In conjunction with the Civil Enabling works, NRS Group also delivered the new Control Building works project. Works Involved;

- Construction of Pad and Strip Foundations for new control building



- Erection of structural steel portal frame building along with associated cladding works (building dimensions 12.5 x 25 x 6m)
- Internal/External Brickwork and blockwork
- Mech/Elec building installations
- Internal fit-out
- Earthing Works
- Associated external building works;
 - 70m of precast concrete service trench works with GRP covers
 - Foul and Surface Water Drainage
 - Hardstanding/parking areas and footpath works

The NRS Group was required to liaise and interface with other contractors on site. This required attendance at daily, weekly and monthly site meetings as requested by the client. The site access route was shared with other contractors and the Client. Works took place in a highly regulated environment under and adjacent to existing powerlines.

