

Case Study: Deep excavations required to install/repair 33kV cables





The above image highlights the size of excavations and the correct supporting techniques required to ensure safety at deep excavations.

Ground conditions require to be monitored on a regular basis due to changing weather conditions. Cold/frost/snow/rain/heat all require to be taken into consideration prior to entering the excavation. In this type of scenario a full risk assessment by a competent person should be carried out to ensure ground conditions and the supporting structure are stable enough to allow progression of works.

A risk assessment must be carried out to ensure ground conditions are stable.

All Cable Record enquiries should be addressed to:

SP Energy Networks (North)

Data Management (Correspondence) 55 Fullerton Drive Cambuslang Glasgow G32 8FD

t: 0141 567 4155 or 0141 567 4455

e: Requestforplansscotland @scottishpower.com

SP Energy Networks (South)

Data Management (Correspondence) North Cheshire Trading Estate Prenton Way Prenton Birkenhead CH43 3ET

t: 0151 609 2373

e: Requestforplansmanweb @manweb.co.uk

All Cable Deviation Requests /Service Alterations enquiries should be addressed to:

SP Energy Networks (North)

Customer Connections 55 Fullerton Drive Cambuslang Glasgow G32 8FA

t: 0141 614 9997

SP Energy Networks (South)

Customer Connections PO Box 290 Lister Drive Liverpool L13 7HJ

t: 0151 221 2110

Emergency contact

In an emergency, or if there is any damage to SP Energy Networks cables or plant, call the appropriate number:





Case Study: Establishing - Highlighting Cable Routes Onsite



The above image highlights professional on site practice; the underground cable route has been traced with a cable locator in conjunction with cable records and trial excavations, erecting warning signs will ensure all site personnel and visitors are aware of the underground electricity network. Highlighting cable routes with visual markers contributes to site safety and will assist in ensuring that the underground electrical routes are not damaged by site traffic, thereby reducing potentional injuries to operatives. Prior to commencement of the main project works taking place is the correct opportunity to engage this type of safety measure.

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SP Energy Networks North

Central & Southern Scotland

0845 272 7999

SP Energy Networks South Cheshire, Merseyside

& North Wales

Highlight All Cable Routes With Visual Warning Signs To Increase Site Safety



Case Study: Deep Excavations Around The Electrical Network



The above image demonstrates a deep excavation, with the correct support structure in place to ensure the stability of the excavation. The 5 metre deep excavation took place to install a 1.4m diameter concrete drain below 14 ScottishPower cables including 33KV, 11KV, pilot cables and telecommunication cables. The contractor approached ScottishPower at an early stage of the project regarding the proposal to install the drainage pipe below the electrical network supplying a method statement and a safe system of work in conjunction with ScottishPower requirements. Electrical cables are not to be supported without prior consultation with the electricity network owner.

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Central & Southern Scotland

0845 272 7999

SP Energy Networks South Cheshire,

Cheshire, Merseyside & North Wales



Case Study: Deep Excavations Around The Electrical Network (2)



The above image demonstrates a deep excavation with the electrical network being supported, to allow the contractor to install a concrete sewer pipe below the cables. This project was discussed with SP Energy Networks prior to work progressing, with the required safe systems of work and method statements in place. To successfully complete this type of project the correct personnel with the relevant training and experience is crucial to ensure that the works are carried out in a safe and competent manner. Electrical cables are not to be supported without prior consultation with the electricity network owner.

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Central & Southern Scotland

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SP Energy Networks South Cheshire, Merseyside

& North Wales



Case Study: Deep Excavations Around The Electrical Network (3)



The above image demonstrates a deep excavation which has taken place to repair a section of underground tunnel owned by ScottishPower. The tunnel which traverses through a part of Edinburgh has numerous cables which are critical to the electrical network. The key to undertaking and completing a project of this nature is to plan the required works to eradicate possible difficulties at an early stage. Ensuring the correct personnel with the relevant training and experience is crucial to ensure that the works are carried out in a safe and competent manner.

Early Planning Of A Project With Risk Assessments, Safe Systems Of Work And Utilising Best Practice Will Contribute To A Safer Working Environment At Deep Excavations

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Networks
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Merseyside
& North Wales