

Case Study: HV Cable Strike With Steel Pin Whilst Erecting A Marquee:



The above image demonstrates the impact on an HV cable when a 910mm long steel pin was driven into the ground.

The task was to erect a marquee for a charity event on a section of ground which had been used for the same purpose for the previous 3 years, fortunately on this occasion, the operatives received no injuries.

The investigation into this incident discovered that no cable records had been consulted prior to the erection of the marquee and that the use of a cable locator had not taken place.

ScottishPower cable records should always be consulted prior to any ground penetration taking place. Cable record enquiries are to be directed to ScottishPower Data Management section.

Prior to any excavations taking place cable records should always be consulted.

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:

**SP Energy Networks
North**

Central & Southern
Scotland

0845 272 7999

**SP Energy
Networks
South**

Cheshire,
Merseyside
& North Wales

0845 272 2424



Case Study: Marquee Erection (No Cable Records, No Ground Penetration)



The above images demonstrate a high voltage cable (11,000 volts) damaged with a steel pin during the erection of a marquee. The operatives struck the cable at two locations, the above image highlights that the cable skin was pierced with the steel pin being driven into the ground to provide support for the marquee, however at the second cable damage the operative was extremely fortunate that he did not receive life changing injuries. Whilst driving the steel pin into the ground, the steel pin came into contact with the high voltage cable the impact caused flames to shoot up the steel pin towards the operative. This dangerous occurrence incident could easily have been avoided if cable records had been requested from SP Energy Networks Data Management Section.

**Do Not Take A Chance With The Electricity Network,
Never Drive Objects Into The Ground Without
Interpretation Of Utility Records**

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Case Study: HV Cable Strike Whilst Erecting Marquee On Private Ground



The above image highlights the impact on the ScottishPower high voltage network when a steel pin was being driven into the ground to support a marquee which was in the process of being erected, no SP Energy Networks cable records on site. The operative was using a tent pole inserter (whacker) when the steel pin came into contact with the 11,000 volt cable, the impact caused flames to shoot up the steel pin towards the operative utilising the whacker. On this occasion it was purely good fortune that the operative did not sustain serious injuries. This cable strike and the potential for serious injuries to be inflicted on the operative could easily have been avoided. How do companies expect to avoid serious injuries to operatives / contact with the underground electricity network if the correct utility information is not being supplied to their operatives.

Prior To Ground Penetration Taking Place Cable Records Should Always Be Consulted, Always Assume Cables Are Present Until Proved Otherwise

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SP Energy Networks (South)
Customer Connections
PO Box 290
Lister Drive
Liverpool L13 7HJ
t: 0151 221 2110

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Central & Southern Scotland

0845 272 7999

SP Energy Networks South

Cheshire, Merseyside & North Wales

0845 272 2424



Case Study: High Voltage Cable Damaged In Process Of Erecting Marquees



The above image highlights a situation when a high voltage cable was damaged when a 910mm long steel pin was driven into the ground whilst erecting a marquee. This example demonstrates the impact on the ScottishPower network due to poor implementation of safe working practices. On this occasion no ScottishPower cable records or cable avoidance tool on site. Please contact ScottishPower cable records prior to commencing any work..

Please Note: The above telephone and fax numbers should only be used to apply for plans of the location of ScottishPower's infrastructure by third parties involved in current excavations or the planning of future works. All other enquiries should be directed to: 0845 273 4444

All Cable Record enquiries should be addressed to:

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Glasgow G32 8FD

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e: Requestforplansscotland
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PO Box 290
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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:

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*Central & Southern
Scotland*

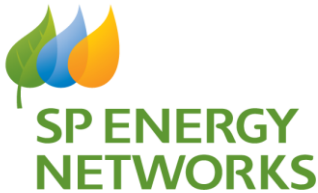
0845 272 7999

**SP Energy
Networks
South**

*Cheshire,
Merseyside
& North Wales*

0845 272 2424





Case Study: Marquee And Circus Tent Erection



A recent high voltage cable damage incident was caused by a marquee company driving a steel pin into the ground penetrating a ScottishPower cable. ScottishPower are deeply concerned that the site risk assessment did not identify the dangers of this work practice. There is a real safety issue that a marquee or Circus Company's employees/contractor's could be seriously injured whilst driving steel pins into the ground during the process of erecting marquees and circus tents. Contractors should also be aware of other potential hazards prior to instigating the works, for example: overhead lines.

Prior To Any Ground Penetration Taking Place Cable Records Should Always Be Consulted, Always Assume Cables Are Present Until Proved Otherwise

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Scotland

0845 272 7999

SP Energy Networks South

Cheshire,
Merseyside
& North Wales

0845 272 2424



Case Study: Driving Steel Pins Into The Ground Whilst Erecting A Marquee



The above image highlights the practice of driving steel pins into the ground during the process of erecting a marquee. The operative is using a tent pole inserter (whacker) to drive the steel pins into the ground to support the marquee. The majority of supports will have a minimum of four steel pins per support. Prior to driving steel pins into the ground, marquee companies should always carry out a risk assessment and implement a safe system of work. A major part of the risk assessment should be to determine if utilities, both underground and overhead are present at the marquee erection location.

**Risk Assessment / Safe System Of work Required
Prior To Ground Penetration Being Implemented**

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should be addressed to:**

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Case Study: Erecting Marquees-Tents (Always Procure Cable Records)



The above image highlights the supporting structure required to ensure the stability of a marquee, on this occasion as many as seven steel pins may be hammered into the ground for this single support. Prior to erecting a marquee-tent a risk assessment should always be instigated to determine if it is safe to construct the marquee-tent. The fact that marquee-tents have been erected historically in areas of land for numerous years without coming into contact with utilities, does not absolve clients/marquee companies from their responsibilities to ensure that their contractors/workforce are operating in a safe working environment.

**No Cable Records Supplied, No Ground Penetration
To Take Place**

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