



**SP ENERGY  
NETWORKS**

## Case Study: HV Cable Strike With Steel Road Pin



**The above image highlights damage to a high voltage 185 (3) XLPE cable.**

The task was to construct a concrete road over the existing high voltage ducted cables; previous road construction at this location had progressed without incident. The cable route had been marked on this occasion; however the operative proceeded to drive a steel road pin into the ground at the marked cable route position.

Investigation's into this dangerous occurrence, highlighted on the previous phases of road construction the high voltage cable route could be physically seen, allowing the operatives to clearly identify the route of the cables. To overcome contact with the underground electricity network a risk assessment should always be carried out and a safe system of work implemented prior to any ground penetrating works progressing.

**Risk Assessment / Safe System Of work**

**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**

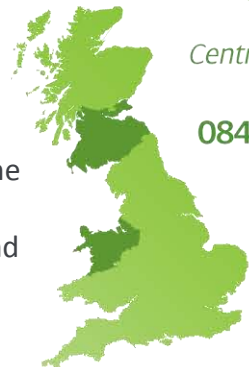
*Central & Southern  
Scotland*

**0845 272 7999**

**SP Energy  
Networks  
South**

*Cheshire,  
Merseyside  
& North Wales*

**0845 272 2424**



## Case Study - HV Cable Damage With Stihl Saw



The above image highlights an incident which took place when an operative attempted to cut a live high voltage cable (11,000 volts) with a hand held stihl saw.

The operative was taken to hospital with flash burns to his face and arms. The operative on this occasion was extremely fortunate that his injuries were not of a more serious nature.

To prevent this type of situation occurring the correct, training - risk assessments - method statements – safe systems of work – work permits require to be in place. Ensuring all the relevant processes are in place which should also encompass site supervision - management of operatives, a further possibility to consider when setting operatives to work is the employee's behavioural tendencies – attitude to safety for the required task.

**Treat All Underground Electrical Cables  
As Live At All Times**

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