

## Case Study: Formation Of New Bell Mouths Over ScottishPower's Electrical Network



The above image demonstrates a situation which can arise when new bell mouth openings require to be formed over the existing footpath to the carriageway.

The majority of construction sites require new bell mouth openings; on this occasion the main excavations took place without undertaking trial holes to determine the line and depth of all utilities at the locus.

ScottishPower cables are installed at a recommended depth for all different ground surface types, taking into consideration the voltage of the cable, removing ground cover on a footpath to form a carriageway bell mouth reduces the level of cover required.

Prior to the main bell mouth construction taking place, contact with ScottishPower should take place to determine if the existing electrical cables require to be deepened and spare electrical ducting installed, preferably at the planning stage of the project. (Encasing the ScottishPower electrical network with a concrete raft is not an option when forming bell mouths)

**No concrete to be installed close to or around the ScottishPower electrical network at anytime.**



**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: Low Voltage Cable Fault Located At Road Gully Pot/Concrete



The above image demonstrates a low voltage cable fault on ScottishPower's underground electrical network.

In this scenario the cable has went into a fault situation of its own accord, however it should be highlighted that on occasions gully pots and the large amount of concrete required to keep the road gully pot in place can contribute to the cable being damaged. Placing concrete on or around the underground electrical network is not recommended.

## No Concrete To Be Placed On Or Around The ScottishPower Underground Network

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Scotland

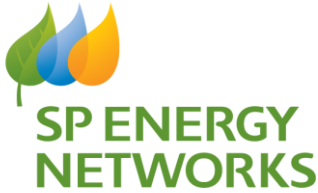
**0845 272 7999**

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Networks  
South**

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**0845 272 2424**





## Case Study: Drainage Manhole Constructed Around HV Cable



The above image highlights a situation where a ScottishPower high voltage cable was found to be constructed into a drainage manhole.

When installing new services such as gas, water, drainage or telecom - check on the correct separation with your supervisor. **Never** build existing cables into a manhole, telecom chamber walls or encase them in concrete. The consequences of encasing cables in underground chambers could lead to serious injuries for unsuspecting operatives at a later date. To rectify this situation a cable deviation took place. Cable record enquiries are to be directed to ScottishPower Data Management section.

### Plan the Project

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## Case Study: Concrete Lamp Post Collapses At Shallow Excavation



The above image highlights a situation which may well have lead to more serious consequences. The operative's task was to excavate to remove an existing link box (underground electrical network switching point) and replace with new link box apparatus. During excavations the concrete lamp post snapped below ground at approximately 400mm depth, and crashed to the ground. Fortunately on this occasion no injuries were sustained to the operatives, when excavating in close proximity to concrete lamp posts a risk assessment regarding the stability of the lamp post should be implemented and repeated checks should be carried out as excavations progress to ensure the safety of operatives and the general public.

**Implement A Risk Assessment When Excavating In The Vicinity Of Street Furniture**

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