ESP Utilities Group Limited GUIDANCE NOTE - ESP/HSG47



PRECAUTIONS TO BE TAKEN WHEN CARRYING OUT WORK IN THE VICINITY OF ELECTRICITY CABLES

ADVICE TO SITE PERSONNEL

MANAGEMENT NOTE

P ease ensure ha a copy of h s no e s read by your s e managemen and o your s e opera ves.

Ear y consu a on w h ESP U es Group pr or o excava on s recommended o ob a n he oca on of p an and precau ons o be aken when work ng nearby.

This Guidance Noie should be read in conjunction with the Heal high and Safe y Executive guidance HSG47 "Avoiding danger from underground services".

1.0 Introduction

This procedure should be read in conjunction with the ESP Electricity Distribution Safely Rules and other relevant procedures. The object of his procedure is:

- a) To ay down he ru es for he oca on of cab e before work s s ar ed.
- b) To spec fy he safe work ng procedure o be adop ed by persons who have o work on or n he v c n y of cab es.

2.0 Reference

ESP E ec r c y G81 – Des gn and P ann ng ESP E ec r c y G81 – Ins a a on and Records Na ona Jo n U es Group (NJUG) Gu dance No es Avo d ng danger from underground serv ces HSG47 HSE Adv ce Book e .

3.0 Work

- A cab es and appara us o which he cab es are connected shall be realed as being ive, un hey have been proved dead and a points of so a on have been es abish and con rolled.
- A work carried ou under his procedure shall also be carried ou in sincle accordance with he ESP Electricity Distribution. Safely Rules and other relevant procedures.
- 3.3 For he purpose of h s procedure:
 - a) Work on a cabe includes he in en ona cui ing or remova of is Shea hior Armour, cui ing of is core(s) or conducior(s) and he remova of a spiking gun.
 - b) Work n he v c n y of a cab e nc udes d gg ng or any ac v y carred ou a any work oca on where cab es are or may be presen, whe her or no for he spec f c purpose of prepara on for work on a cab e.

4.0 Cable Locating Devices

- 4.1 An approved cabe oca ng dev ce s o be used on every occas on before any surface s removed or any d gg ng s s ar ed.

 I mus a so be used dur ng he course of any d gg ng work.
- 4.2 Cab e oca on dev ces prov de nforma on on he pos on of cab es. They mus no be used as he on y means of cab e oca on.
- 4.3 Cab e oca ng dev ces mus be regu ar y checked for correc opera on.

A persons us ng cab e oca ng dev ces mus be adequa e y ra ned n he r use and mus be Compe en Persons.

5.0 Location of Cables

- 5.1 The dep h of underground cab es var es grea y. I s essen a ha as e specfcrsk assessmen s under aken for he proposed work you are p ann ng h s mus noude ob anng an up-o-da e map of he e ecrc y cab es n he area and o make use of . The e ecrc y cab e records mus be checked before any work s s ar ed. Changes n surface eve or reference pons, and work carred ou by o her peop e may affec he re ab y of hese records. Anybody excava ng mus be od of hese poss b es.
- 5.2 Before he s ar of any excava on work, a cabe oca ng dev ce sha be used o es ab sh he run of ve cab es. Reasonab e s eps shou d be aken o es ab sh he runs of cab es bo h a ong and across he eng h of he n ended area of d gg ng. The cab e avo dance oo sha be used oge her w h mans records and where provided, service records.

ESP Utilities Group Limited GUIDANCE NOTE - ESP/HSG47



A cab e runs e her conf rmed by use of he cab e oca ng dev ce or nd ca ed on he mans records mus be marked ou on he surface us ng a wa erproof marker. Marked cab e runs mus be ex ended 300mm beyond e her end or s de of he n ended d gg ng area, and mus s ay v s b e wh e he d gg ng s go ng on. The ra ho e d g me hod can be used o den fy he run of cab es us ng hand d g oo s on y.

6.0 Precautions to be Taken while Working in Vicinity of Cables

- Work n he v c n y of cab es mus be carr ed ou as f he cab es are ve and a excava on work mus be persona y superv sed by a Compe en Person. A persons sha wear a m n mum of safe y foo wear, Safe y G asses, hard ha, Task Spec f c G oves f ame re ardan overa s.
- Approved hand oos should a ways be used in preference of power oos in heivicin y of cables, unless sile conditions make his impracionate. Spades should a ways be used in preference of forks. Ex reme care mus a ways be aken when using a fork or pick. Forks mus be of approved type with shor ened chise ended these. Spades mus have sharp corners of he biade rounded. The selection of a fork or pick with be assessed on a Task Specific Risk Assessmen.
- A propr e ary a r d gg ng oo, wh ch removes o w h a h gh-ve oc y je of a r, can be used o expose bur ed serv ces w hou damage o he serv ce. However, w no pene ra e aspha, concre e or frozen ground. A so precau ons need o be aken ha w preven njury o he opera or and members of he pub c from ejec ed so and o her ma er a s.
- When s e cond ons require the use of hand held power oo sithey musible field with a shorib. The following method of work musible used:
 - a) Us ng a he nforma on prov ded, oge her w h an approved cab e oca ng dev ce, he ne of a know cab es mus be marked ou a eas 300mm pas he ho e ha w be dug us ng wa erproof marker.
 - b) Encroachmen nes mus be drawn 300mm para e o and away from he ou er and nnermos cab e marker nes. And as n (a) above hese mus be drawn o ex end a eas 300mm beyond he edge of he ho e ha w be dug.
 - c) Hand he d power oo s mus no be used be ow ground eve n be ween he encroachmen nes. Hand oo s mus be used for progress ve and carefu underm n ng from ou s de he encroachmen nes owards he cab e(s). Hand power oo s mus on y be used o break up any hard surface, keep ng pace w h, bu no go ng pas he underm n ng. Ex reme care mus, n par cu ar, be exerc sed when us ng power oo s above cab es a ready exposed by underm n ng. The use of power oo s mus s op f a any me he cu ng ra e qu ckens, nd ca ng sof er ground. A a mes, a en on mus be pad o he cab e run marker nes ou s de he edges of he ho es.
 - d) The safe d gg ng procedure n (c) above mus be fo owed un a cab e(s) required for work or for den fica on have been ocaled.
 - e) If a recorded or de ec ed cab es ns de he d gg ng area have been oca ed hen hand he d power oo s may be used be ow ground eve o break up concre e or s m ar s ruc ures, bu even hen on y when s e cond ons render he use of hand oo s mprac ca.
- 6.5 During excava on, full use mus be made of cable localing devices which mus be used lolass sin es abishing he exact ocal on of live cables.
- 6.6 Where exposed cabes are key o be damaged n any way hey sha be adequaey pro eced and/or suppor ed. Where n he op n on of he person n charge on sees appropriate, warning no ces mus be a ached o cabes e.g. ve cabe exposed above ground ever or ve coled cabes.
- 6.7 Irrespec ve of he co or of he e ecrc y cabe sha be considered as be ng n a ve s a us un ess has been confirmed and proven ha he cabe has been physically so a ed or urned off.

If damage is caused or suspected the following action should be taken at once:

- Remove a personne from he mmed a e v c n y
- ❖ Con ac ESP E ec r c y 01372 587500 or ou of hours Emergency con ac Number 0800 731 6945
- Preven any approach by he pub c.
- Ass s e ec r c y personne, Po ce or F re Serv ce as reques ed.

REMEMBER - IF IN DOUBT; SEEK ADVICE FROM ESP Utilities Group.

ESP Utilities Group can be contacted at:

Office Address: Blueb rd House, Mole Bus ness Park, Leatherhead, Surrey, KT22 7BA

Office Tel: 01372 587 500; Fax: 01372 377996