

SUMMARY OF MAJOR ISSUES RAISED BY INDUSTRY TO DATE ON THE DRAFT FIRST REVISION OF NETWORK STANDARD NS 14.2 – UNDERGROUND CABLE INSTALLATION, TECHNICAL REQUIREMENTS

Date	Issue	Section	Summary of comment	WP's Response	Section Updated	Major changes made in the revised draft manual
15/3/07	Protection of cables installed by directional drilling	12	Conduits should be installed when directional drilling is used to install cables in solid rock, rocky and former land fill areas for protection of the cable.	Agreed, the manual will be adjusted to require conduits.	12.3	Manual adjusted to say this.
15/3/07	Cable location and Spiking	8.5(b)	The manual should be altered to say cable location and spiking is WP's responsibility.	Agreed, the manual will be adjusted to say WP will do location and spiking.	8.5(b)	Manual adjusted to say this.
15/3/07	Preventing damage to cables when laying	14.3	The manual states that cables must be run along rollers at all times when installing.	The cables need to be installed with great caution as damage to the outer sheath will result in catastrophic cable failure. However using rollers may not be the only way to eliminate damage installation.	14.3	Section updated to allow rollers and other methods of installation that do not damage the cable outer sheath.
15/3/07	Sealing conduits	15.4	Is it necessary to seal all ducts?	No. Only spare ducts need to be sealed. However all ducts that run down from a potential water source, eg from the road to into pits or basements must be sealed	15.4	Manual adjusted to say spare ducts and ducts that could transfer water into a pit, switch or transformer room need to be sealed.

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15/3/07	Minimum Cable depth	Appendix A	The minimum cable depth shown is 850mm.	The minimum cable cover needs to be 750mm, which may require the cable to be lower than 750mm to allow for joints.	Appendix A	The minimum cable cover including joints adjusted to be 750mm
15/3/07	Restoration and Reinstatement	11 & 16	Would the UPSC/IPWEA Restoration and Reinstatement Speciation better cover some of the issues covered in this Section?	Agreed	11 & 16	Where UPSC/IPWEA Restoration and Reinstatement Speciation it is eliminated from the UCI manual have already covered the issue.
15/3/07	Relevance of some of the manual for subdivisions	2	Some of the manual is not appropriate to subdivisional work, so should there a separate manual for subdivisions	Some of the manual is not relevant to subdivisions but creating a separate manual will result in multiple standards. WP will put a covering note stating which sections are not relevant top subdivisions.	2	Manual reworded accordingly
6/11/06	On-line subscription	-	It would be good to be able to subscribe on-line for updates to this manual	Agreed	-	Subscribe on line feature added to manual.
6/11/06	Duplication of statutory requirements	-	Some of the manual repeats what is covered by other statutory bodies, Work Safe Standards, EPA, ES, etc	Agreed. Where other statutory bodies cover the issue it will be referred to in the manual	2	Various sections updated
6/11/06	Manual Very Prescriptive	-	The manul is very prescriptive on how to do things. It would be best to simply define outcomes.	Agreed	-	Manual made less prescriptive and more outcome based.

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6/11/06	Crossings	8	Railway crossing, Pipe and Cable and Gas Mains details should be included in the design drawings	Agreed, this detail will be referred to in the UDS so designers can specify	8	Standards amended accordingly.
			Thrust boring should be used for already constructed roads.	Western Power will amend the Standard accordingly.	8	Standards amended accordingly
			In regard to approved pumping gear for de-watering, who should provide the approval?	The person requesting the hole be dug will provide pumping gear.	8	Standards amended accordingly
6/11/06	Cable Laying	14	Can cable drums be mounted on a back hoe and driving the back hoe backward?	Yes, Western Power will amend the Standard accordingly.	14	Standard amended accordingly.
			Should cable drums be positioned in line of the direction of cable pull instead of at right angle?	The drum should be positioned in line of the cable pull and Western Power will amend the Standard accordingly.	14	Standard amended accordingly.
			Can other means be used to not exceed cable pulling tensions.	Yes, other means can be used, eg dynamometer, fuse, etc	14	Standard amended accordingly.
6/11/06	Conduit	15	This section should be deleted and referred to the UDS Manual.	This section must be retained as the Standard also applies to works other than subdivision developments.	-	NA
			Slabbing is not shown for direct buried cables.	Cables installed in the standard alignment of 500mm do not require slabbing.	-	NA

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			Cables cannot be installed in concrete ducts.	Agreed WP will amend the Standard accordingly.	15	Standard amended accordingly
			Contractors do not typically install draw wires in ducts as there are new technologies to eliminate the need for these..	Agreed, WP will review and amend the Standard accordingly.		Standard amended accordingly
6/11/06	Reinstatement	16	Some confusion between initial backfill and reinstatement.	Agreed, will use the backfill requirements as referred to in the UDS.		Standard amended accordingly
			Restoration of surface should include footpath of all types of materials including bitumen, brick paving, liquid limestones, etc and should also include reinstatement of all other infrastructure assets within road reserve.	Agreed WP will include all surfaces.		Standard amended accordingly
6/11/06	Cable Installation Date	19 (Appendix A)	Maximum pulling tensions should be converted into kN.	Agreed, WP will amend the Standard accordingly.	19 (Appendix A)	Standard amended accordingly