

1		2		3		4		5		6		7		8					
A	COLUMN 1			MINIMUM CLEARANCES IN ANY DIRECTION BETWEEN CONDUCTORS AND OBJECTS DESCRIBED IN COLUMN 1 - DIMENSIONS IN METRES						MINIMUM CONDUCTOR CLEARANCES EXPLANATORY NOTES 1. THIS TABLE INDICATES THE MINIMUM CLEARANCES REQUIRED IN THE DESIGN OF OVERHEAD LINES (OTHER THAN INSULATED SERVICE LINES) UNDER THE ORDINARILY EXPECTED WORST COMBINATION OF WEATHER CONDITIONS AND CURRENT LOADINGS. (REFER TO THE NEW SOUTH WALES SERVICE AND INSTALLATION RULES, CLAUSE 2.5.3 FOR CLEARANCES FOR OVERHEAD SERVICE LINES) THESE MINIMUM CLEARANCES SHALL BE ACHIEVED IN ALL NEW DESIGNS AND MAJOR RECONSTRUCTIONS. SUBJECT TO APPROVAL BY AUSGRID, IN SPECIAL CIRCUMSTANCES, A LESSER FIGURE MAY BE ACCEPTABLE. UNDER NO CIRCUMSTANCES WILL CLEARANCES BE REDUCED BELOW THE STATUTORY REQUIREMENTS LISTED IN REGULATIONS, CODES OR AGREEMENTS AND SHOWN IN BRACKETS. 2. CLEARANCE OVER "NAVIGABLE WATERS" WILL BE DETERMINED IN ACCORDANCE WITH AS.6947 " THE CROSSING OF NSW NAVIGABLE WATERS : ELECTRICITY CODE" AND NEG OH14. ALL CROSSINGS ARE TO BE PROVIDED WITH NOTICES IN ACCORDANCE WITH AS.6947. 3. WHERE IT IS NECESSARY TO CROSS ANOTHER POWER LINE, THE MINIMUM CLEARANCES SHALL BE DETERMINED FOR THE MAXIMUM OPERATING TEMPERATURE OF THE LOWEST CONDUCTOR OF THE HIGHER CIRCUIT, WITH THE HIGHEST CONDUCTOR OR EARTHWIRE OF THE LOWEST CIRCUIT AT AMBIENT TEMPERATURE (15°C). 4. REFER TO CLAUSES 3.7.1, 3.7.2 & 3.7.3 OF AS/NZS.7000:2010 "OVERHEAD LINE DESIGN : DETAILED PROCEDURES". 5. THE SEPARATION BETWEEN HV INSULATED CONDUCTORS AND LV INSULATED CONDUCTORS CAN BE REDUCED TO 0.6m WITH THE HIGHER VOLTAGE PLACED ABOVE THE LOWER VOLTAGE. 6. ADDITIONAL CLEARANCE SHOULD BE ALLOWED IF THERE IS LIKELY TO BE A FUTURE CIRCUIT BUILT ALONG THE ROAD. (eg. FUTURE UNDERCROSSING) 7. HIGHER CLEARANCES OVER ROADS MAY BE REQUIRED WHERE REGULAR HIGH LOADS ARE LIKELY. (eg. NEW ENGLAND HWY, GOLDEN HWY)									
				NOMINAL SYSTEM VOLTAGE															
				500kV	330kV	220kV	132kV	66kV	33kV							11kV	LV OR INSULATED		
	1. OVER LAND OTHER THAN THE CARRIAGEWAY OF ROADS			11.0 (9.0)	9.0 (8.0)	8.0 (7.5)	7.5 (6.7)	7.0 (6.7)	6.0 (5.5)							6.0 (5.5)	6.0 (5.5)		
B	2. OVER LAND WHICH, DUE TO ITS STEEPNESS OR SWAMPINESS, IS NOT TRAVERSIBLE BY VEHICLES			11.0 (7.5)	9.0 (6.7)	8.0 (6.0)	6.0 (5.5)	6.0 (5.5)	5.0 (4.5)	5.0 (4.5)	5.0 (4.5)								
	3. SPACING OF CONDUCTORS OF DIFFERENT CIRCUITS (see note 4)																		
	a. UNATTACHED CROSSINGS			6.0 (5.2)	5.0 (3.8)	4.0 (2.8)	3.0 (2.4)	2.5 (1.8)	2.0 (1.2)	1.5 (1.2)	1.0 (0.6)								
	b. ATTACHED CROSSINGS ON THE SAME SUPPORT																		
C	LOWER VOLTAGE<1000V			N.A.	N.A.	N.A.	2.4	1.8	1.2	1.2	1.2								
	LOWER VOLTAGE≥1000V			N.A.	N.A.	N.A.	2.4	1.5	0.9	0.9	1.2 (see note5)								
	c. CONDUCTORS ON SAME SUPPORTS (SHARED SPANS)			N.A.	N.A.	N.A.	2.4	1.5	1.2	1.2	1.2								
	4. OVER TELEPHONE LINES			8.0 (6.0)	6.0 (4.6)	5.0 (3.7)	4.0 (3.0)	3.0 (2.1)	3.0 (2.1)	3.0 (2.1)	3.0 (2.1)								
D	5. OVER RAILWAY TRACKS :-																		
	- NOT ELECTRIFIED			16.0 (10.7)	14.0 (10.7)	12.0 (10.7)	12.0 (10.7)	10.0 (8.8)	10.0 (8.8)	10.0 (8.8)	8.0 (7.6)								
	- ELECTRIFIED			16.0 (11.6)	14.0 (11.6)	12.0 (11.6)	12.0 (11.6)	12.0 (11.6)	12.0 (11.6)	12.0 (11.6)	12.0 (11.6)								
	6. OVER THE CARRIAGEWAY OF ROADS (SEE NOTES 6 & 7)			16.0 (9.0)	14.0 (8.0)	12.0 (7.5)	7.5 (6.7)	7.5 (6.7)	7.5 (6.7)	7.5 (6.7)	6.0 (5.5)								
NOTE : THE FIGURES IN BRACKETS IN THE ABOVE TABLE ARE MINIMUM CLEARANCES AS LISTED IN REGULATIONS, CODES OR AGREEMENTS.																			
E																			
F																			
CAD DRAWING DO NOT MANUALLY AMEND AMENDMENTS DWN: PATRICIA RIOS CHKD: PHILLIP JONES DATE: 30/05/2011 NOTES AMENDED. 5				APP'D by: GLENN FORD DWN: GARRY CRAIG CHKD: GARRY CRAIG DATE: 09/01/2014 AUSGRID BORDER APPLIED. 6		APP'D by: LEIGH DUNKLEY		NETWORK STANDARD  145 NEWCASTLE ROAD WALLSEND NSW 2287 PHONE: 02 4951 9388 FAX: 02 4951 9389		DESIGNED DRAWN CHECKED AUTHORISED DATE SCALE MAP REF. LGA PROJECT No. PROJTRAK No.		- PETER SAUNDERS I.NICHOLS I.NICHOLS 12/09/91 NTS - - STD -		STANDARD CONSTRUCTION OVERHEAD POWER LINES MINIMUM CONDUCTOR CLEARANCES SIZE DRAWING No 515297 SHEETS 01 of 01 AMD. 6					
201110909				1		2		3		4		5		6		7		8	