


COLUMN 1		MINIMUM CLEARANCES IN ANY DIRECTION BETWEEN CONDUCTORS AND OBJECTS DESCRIBED IN COLUMN 1 - DIMENSIONS IN METRES							MINIMUM CONDUCTOR CLEARANCES EXPLANATORY NOTES																																								
		NOMINAL SYSTEM VOLTAGE																																															
		500kV	330kV	220kV	132kV	66kV	33kV	11kV			LV OR INSULATED																																						
A	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)	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.																																							
	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)	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.																																					
C	3. SPACING OF CONDUCTORS OF DIFFERENT CIRCUITS (see note 4)									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).																																							
	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																																																
D	LOWER VOLTAGE < 1000V	N.A.	N.A.	N.A.	2.4	1.8	1.2	1.2	1.2	4. REFER TO CLAUSES 3.7.1, 3.7.2 & 3.7.3 OF AS/NZS.7000:2010 "OVERHEAD LINE DESIGN : DETAILED PROCEDURES".																																							
	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																																								
E	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)	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.																																							
	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)																																								
F	- 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. ADDITIONAL CLEARANCE SHOULD BE ALLOWED IF THERE IS LIKELY TO BE A FUTURE CIRCUIT BUILT ALONG THE ROAD. (eg. FUTURE UNDERCROSSING)																																							
	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.																																																	
CAD DRAWING DO NOT MANUALLY AMEND AMENDMENTS		DWN: PATRICIA RIOS CHKD: PHILLIP JONES		DATE: 30/05/2011 NOTES AMENDED.		APP'D by: GLENN FORD		DWN: GARRY CRAIG CHKD: GARRY CRAIG		DATE: 09/01/2014 AUSGRID BORDER APPLIED.		APP'D by: LEIGH DUNKLEY		 <p>NETWORK STANDARD 145 NEWCASTLE ROAD WALLSEND NSW 2287 PHONE: 02 4951 9388 FAX: 02 4951 9389</p>		<table border="1"> <tr><td>DESIGNED</td><td>-</td></tr> <tr><td>DRAWN</td><td>PETER SAUNDERS</td></tr> <tr><td>CHECKED</td><td>I.NICHOLS</td></tr> <tr><td>AUTHORISED</td><td>I.NICHOLS</td></tr> <tr><td>DATE</td><td>12/09/91</td></tr> <tr><td>SCALE</td><td>NTS</td></tr> <tr><td>MAP REF.</td><td>-</td></tr> <tr><td>LGA</td><td>-</td></tr> </table>		DESIGNED	-	DRAWN	PETER SAUNDERS	CHECKED	I.NICHOLS	AUTHORISED	I.NICHOLS	DATE	12/09/91	SCALE	NTS	MAP REF.	-	LGA	-	STANDARD CONSTRUCTION OVERHEAD POWER LINES MINIMUM CONDUCTOR CLEARANCES		<table border="1"> <tr> <td>PROJECT No.</td> <td>STD</td> <td>SIZE</td> <td>DRAWING No</td> <td>SHEETS</td> <td>AMD.</td> </tr> <tr> <td>PROJTRAK No.</td> <td>-</td> <td>A3</td> <td>515297</td> <td>01 of 01</td> <td>6</td> </tr> </table>		PROJECT No.	STD	SIZE	DRAWING No	SHEETS	AMD.	PROJTRAK No.	-	A3	515297	01 of 01	6
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