



TYPICAL LINE POLE, CCO ATTACHMENT CLEARANCES (REFER NOTE 1)

CHART A - FINAL TENSION (NO WIND)
(kN)

SPAN LENGTH (m)	1°C	4.5°C	10°C	15.5°C	21°C	26.5°C	32°C	38°C	49°C
30.5	1.90	1.85	1.81	1.77	1.73	1.69	1.65	1.61	1.55
38	2.41	2.35	2.30	2.24	2.18	2.12	2.06	2.00	1.97
46	2.94	2.86	2.80	2.73	2.67	2.61	2.55	2.50	2.40
53	3.47	3.38	3.31	3.23	3.16	3.09	3.02	2.96	2.84
61	4.02	3.97	3.83	3.74	3.66	3.58	3.50	3.43	3.31
69	4.57	4.46	4.36	4.26	4.17	4.08	4.00	3.92	3.77
76	5.13	5.01	4.91	4.79	4.69	4.59	4.50	4.41	4.25

DESIGN TENSIONS

THE CHART ABOVE SHOWS MAXIMUM TENSIONS TO BE USED WHEN CALCULATING FORCES ON POLES. THIS CHART IS FOR THE WORST CASE OR MAXIMUM COMBINATION OF CABLES AND CATENARY.

NOTES:

1. CCO BOLT AND CLAMP ATTACHMENT TO BE LOCATED ON ROAD SIDE AT ALL TIMES EXCEPT WHERE PAWA LINE HARDWARE DOES NOT ALLOW ROAD SIDE LOCATION.
2. MINIMUM CLEARANCE OF 300mm BETWEEN LV AND CCO CABLES IS TO BE MEASURED AT MAX SAG CONDITIONS. ALLOWANCES TO BE MADE FOR FUTURE LV WHEN CCO IS TO BE POSITIONED BELOW HV ONLY ARRANGEMENTS.
3. CHART A IS TO BE USED FOR POLE STRENGTH CALCULATIONS. IF MORE DETAILED CALCULATIONS ARE REQUIRED PLEASE CONTACT DRAWING SERVICES MANAGER ON 08 89245003.
4. CCO CABLES ARE TO BE TENSIONED USING ROTOR LIFT OR SIMILAR DEVICE. MOTORIZED METHODS ARE NOT TO BE USED.
5. A) 300mm MINIMUM CLEARANCE IS REQUIRED BETWEEN THE SERVICE ARM AND THE CCO BOLT AND CLAMP ATTACHMENT POINT. WHEN NON-INSULATED OR BARE CABLES AND FITTINGS ARE ATTACHED TO THE SERVICE CROSSARM OR POLE AND WORK IS TO BE PERFORMED AT OR NEAR THE CCO BOLT/CLAMP ATTACHMENT POINT, PAWA IS TO BE CONTACTED TO 'MAT UP' ALL LIVE COMPONENTS WITHIN 600mm OF THE WORK LOCATION.
B) CCO WORKS ARE NOT TO BE PERFORMED AT MID SPAN WITHOUT PRIOR NOTIFICATION OF PAWA.

NO	DESCRIPTION	DRN	DATE	CKD	APPD
3	SUPERSEDED	A.T.	DEC'12	B.C.	B.C.
2	TEXT 'CETV' CHANGED TO 'CCO'. NOTE 5 CHANGED.	RG1	FEB'97	MWB	FRR
1	NOTE 5 RE SAFETY CLEARANCES ADDED.	RG1	10/96	MWB	PJD
AMENDMENTS					

PowerWater

NORTHERN TERRITORY

DES	M. BOCK	POWER STANDARD DRAWING	
DRN	R. INNES	CCO (COMMUNICATIONS CABLE OWNER) TYPICAL CABLE CLEARANCES SAGS AND TENSIONS	
CKD	M. BOCK	A3	DRAWING NUMBER S01-02-02-23
APPD	P. DEWAR		
SCALE	AS SHOWN	DRAFTING STANDARD TO A.S.1100	
ISSUED	06/09/96	CAD PRODUCT - DO NOT AMEND MANUALLY	
ALL DIM.	IN mm	AMDT	