



MINIMUM CLEARANCES:

ELECTRICAL CLEARANCES:
AS PER NGTS 2.1 ISSUE 7

E	PHASE TO EARTH	33kV	275kV
PH	PHASE TO PHASE	1100	2100
S	SECTION CLEARANCE (VERTICAL)	1400	2400
Sh	SECTION CLEARANCE (HORIZONTAL)	3800	4800
	MINIMUM CLEARANCE HEIGHT	2900	3900
	MINIMUM CLEARANCE HEIGHT (TO LOWER INSULATOR SHED)	2400	2400

SURGE ARRESTER CLEARANCES:
AS PER SPEN DRG. No. SP2042813

D	ARRESTER TO LIVE EQUIPMENT OF SAME PHASE	33kV	275kV
E	PHASE TO EARTH	500	2100
PH	ARRESTER TO ARRESTER, BETWEEN PHASES	500	2400

MEWP CLEARANCES:
AS PER TGN(E) 186 (RES)

DA	DESIGN CLEARANCE FOR MEWP OPERATION (HORIZONTAL)	33kV	275kV
		4300	5900

LEGEND

- CLEARANCES AND SAFETY DISTANCES
- PLANT - PROPOSED
- PLANT - EXISTING TO BE RELOCATED
- PLANT - FUTURE

NOTES

1. DIMENSIONS IN MILLIMETRES

ASSOCIATED DRAWINGS

SP20009955 - EXISTING LAYOUT OF 132/33KV SUBSTATION
 BT1733-2-87JA-DR-SPTES-2002 - 275KV COMPOUND - PLANT EQUIPMENT - ELEVATIONS
 BT1733-2-87JA-DR-SPTES-2003 - 275KV COMPOUND - PLANT EQUIPMENT - FUTURE LAYOUT
 BT1733-2-87JB-DR-SPTES-2001 - CONTROL BUILDING - PLANT EQUIPMENT - LAYOUT

OB	27/08/2024	JM			FOR INTERNAL REVIEW ONLY
DA	21/06/2024	JM			FOR INTERNAL REVIEW ONLY
Rev.	Date	Drawn	Reviewed	Approved	Reason / Description of changes
Client:	SP Energy Networks				Project: DENNY NORTH-WISHAW 400KV REINFORCEMENT (DWN0)
Contractor:	SP Energy Networks				Location: CUMBERNAULD SUBSTATION
					Drg. Title: 275 KV COMPOUND PLANT EQUIPMENT - PROPOSED LAYOUT
	Drawn	Rev'd	App'd	Drg. No.: BT1733-2-87JA-DR-SPTES-2001	Sheet: OB
				SPEN Ref. No.:	Rev: 00
					Scale: A1

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- LEGEND:**
- SGT SUPER GRID TRANSFORMER
 - SA SURGE ARRESTER
 - PI POST INSULATOR
 - DISC DISCONNECTOR
 - E/SW EARTH SWITCH
 - AUX Tx AUXILIARY TRANSFORMER
 - NER NEUTRAL EARTHING RESISTOR
 - CT CURRENT TRANSFORMER
 - CVT CAPACITOR VOLTAGE TRANSFORMER
 - MK MARSHALLING KIOSK
 - CB CIRCUIT BREAKER