

Profile Description:

This profile is derived from the use of LiDAR data and shows the position and status of the power line at the time of survey. Please note that ground levels may have changed since the survey date.

As the amount of power increases in the lines the conductors heat up and become longer, creating greater sag. A computer model has been applied to show the conductor at the maximum rated temperature. Please note that on an average day the conductors may not be at rated temperature and their height above ground is likely to change.

The profile states the lines current voltage. Any construction under the lines should allow for the likely possibility of upgrading of the line from 132kV to 275kV or 275kV to 400kV. Any permanent structures should adhere to the increased clearances

It remains the responsibility of the third party to ensure the safety clearances are met by their proposed operations by using the bottom conductor attachment points as reference benchmarks.

Drawing Key:

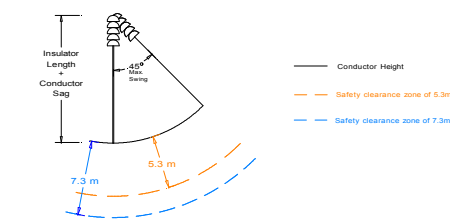
The following clearances are derived from the Energy Networks Association Technical Specification 43-8.

Feature Description	
	Tower Base
	Ground / Model Key Points
	Parallel Power Lines
	River Navigable
	Lake Navigable
	Pond Non Navigable
	Swimming Pool
	Stream Non-Navigable
	Roads
	Bridges
	Footpath/Sidewalk/Track
	Motorways
	Railways
	Fence
	Wall
	Building
	Vegetation
	Power Line Crossings Wires
	Street Furniture
	Power Line Crossing Structures
	Leisure Area
	Processing Plant / Industrial
	Substation
	Temporary Object
	Interpolated Ground Points

Item	Description of Clearance	Minimum Clearance at 400kV
1	To Ground	7.3
2	To Normal Road Surface	8.1
3	To road surface of designated '6.1 metres high load' routes	9.2
4	To motorway or other road surface where 'slayrads' can be used	10.5
5	To motorway road surface where scaffolding is to be used on: (i) Normal 3 lane motorways (ii) Elevated 2 lane motorways	16.3 13.3
6	To any object/building on which a person may stand, including ladders, access platform, etc.	5.3
7	To any object to which access is not required on which a person cannot stand or lean a ladder	3.1
8	To trees under or adjacent to line and: (i) Unable to support ladder/climber (ii) Capable of supporting ladder/climber (iii) Trees falling towards line with conductors hanging vertically only	3.1 5.3 3.1
9	To trees in orchards and hop gardens	5.3
10	To irrigators, slurry guns and high pressure hoses	30.0
11	To street lighting standards with: (i) Standard in normal upright position (ii) Standard falling towards line with conductors hanging vertically only (iii) Standard falling vertically only	4.0 4.0 1.9

Swing Clearances:

The conductors may swing (blow-out) to a maximum of 45 Degrees during very strong winds, clearances need to be maintained for this situation.

[illegible]

ISSUE	A
DRAWN	TJ 08/06/16
CHECKED	GP 10/06/16
APPROVED	
	As Surveyed

nationalgrid

5.0 m Horiz. Scale

2.0 m Vert. Scale

National Grid plc		UK Transmission	
Warwick Technology Park, Galloway Hill, Warwick, CV34 6DA			
Title 4YC Nursing - Lovedean Towers 4YC044 to 4YC045 Chainage 14296 to 14579 Left - A84E Right - A839			
Date Nursing - Lovedean		A0 CAD	
Originator Drawing Number 4YC001-108_08516_A		ISSUE	
WG Drawing Number 28_NG_0204_1		Sheet No 44	No. of Sheets 84
SCALE: 1:		NG Project No.	