

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.

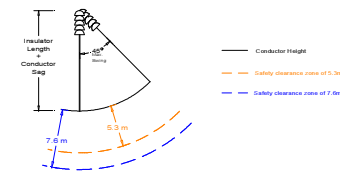
The profile states the lines current voltage. Any construction under the lines should allow for the likely possibility of upgrading of the line from 132kV to 275kV or 275kV to 400kV. Any permanent structures should adhere to the increased clearances.

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 Site  General House Key Points  Potential Power Line  River Navigable  Late Navigable  Found Non Navigable  Swimming Pool  Suction Net Navigable  Road  Driveway  Footpath/Cycleway/Track  Motorway  Railway  Fence  Wall  Building  Vegetation  Power Line Crossings Wires  Street Furniture  Power Line Crossing Structures  Lateral Aisle  Processing Plant / Industrial  Substation  Temporary Obstacle  Interpretable Ground Points	
Item	Description of Clearance	Minimum Clearance (metres) at 400Kv
1	To Ground	7.0
2	To Normal Road Surface	6.1
3	To road surface of designated "5.1 metres high load" roads	9.2
4	To motorway or other road surface where "alcantara" 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 AND 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 line 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 line conductors hanging vertically only (iii) Standard falling towards line	4.0 1.0 4.0

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.



4TB052 - 4TB062, 400kV, 400mm ² ACSR - Zebra, bundle of 4, Displayed Rated Temp 75 Creep FE	
4TB052 - 4TB062, 400kV, 400mm ² ACSR - Zebra, bundle of 4, Displayed Rated Temp 75 Creep FE	
4TB052 - 4TB062, 400kV, 400mm ² ACSR - Zebra, bundle of 4, Displayed Rated Temp 75 Creep FE	
4TB052 - 4TB062, 400kV, 400mm ² ACSR - Zebra, bundle of 4, Displayed Rated Temp 75 Creep FE	
4TB052 - 4TB062, 400kV, 400mm ² ACSR - Zebra, bundle of 4, Displayed Rated Temp 75 Creep FE	
4TB052 - 4TB062, 400kV, 400mm ² ACSR - Zebra, bundle of 4, Displayed Rated Temp 75 Creep FE	
4TB052 - 4TB062, 400kV, 400mm ² ACSR - Zebra, bundle of 4, Displayed Rated Temp 75 Creep FE	
4TB052 - 4TB062, 40kV, 175mm ² ACSR - Lynx, Displayed Survey 21 Creep FE	

Clearance at 400KV Displayed

[illegible]

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6.0 m Horiz. Scale

2.5 m Vert. Scale

National Grid plc Warwick Technology Park, Galloway Hill, Warwick, CV34 6DA		UK Transmission	
Title Towers 4TB055 to 4TB056 Left - A603 Right - A602 Chainage 21017 to 21415 Survey Date: 17/05/14			
Site 4TB Pelham - Wymondley Main		A0	
Originator Drawing Number 28_NG_0170		CAD	
NGT Drawing Number 4TB001A-074_13714_A		Sheet No 56	No. of Sheets 74
SCALE -		NGT Project No A	