

Appendix 4: List of Coordinates

Coordinates of Listed Activities - Emkhiweni Substation and 400KV Line from Emkhiweni Substation to Silimela

Activity No(s):	Provide the relevant Basic Assessment Activity(ies) as set out in Listing Notice 1 (GN R983)	Describe the portion of the proposed project to which the applicable listed activity relates.	Coordinates (degrees, minutes, seconds)
12 (ii) (a) (c)	<p>The development of— (ii) infrastructure or structures with a physical footprint of 100 square metres or more;</p> <p>where such development occurs— (a) within a watercourse. (c) if no development setback exists, within 32 metres of a watercourse, measured from the edge of a watercourse.</p>	<p>A few of the proposed tower structures will fall within watercourses and within 32m of watercourses (specifically wetlands) and they will have an overall combined footprint above 100 square metres, the exact footprint is unknown until Eskom has selected the tower type to be used.</p> <p>However, from the Wetland and Aquatic Specialist Study, there are 19 towers that fall within watercourses (within wetlands or wetland 32m buffer; no towers fall within streams). The type of towers to be used by Eskom are still to be confirmed, however, the maximum footprint of the proposed towers can be provided, based on a cross-rope suspension tower type, which has the widest span:</p> <p>➤ 80m (anchor width) x 50m (tower length) = 4000 square metres for one tower.</p> <p>Thus the maximum project footprint within watercourses (wetlands) for the 19 towers would total 76 000m² (7.6ha).</p>	<p>25°5'37.16"S 29°18'41.88"E 25°5'44.51"S 29°18'56.73"E 25°5'50.38"S 29°19'8.58"E 25°42'11.42"S 29°27'40.23"E 25°42'26.8"S 29°27'39.02"E 25°42'59.55"S 29°26'49.11"E 25°49'58.15"S 29°24'30.56"E 25°50'5.47"S 29°24'19.95"E 25°50'16.72"S 29°24'15.04"E 25°50'24.43"S 29°24'11.67"E 25°50'30.59"S 29°24'4.31"E 25°50'38.34"S 29°23'55.05"E 25°50'44.53"S 29°23'47.66"E 25°50'54.51"S 29°23'43.9"E 25°51'1.81"S 29°23'41.15"E 25°51'11.66"S 29°23'45.64"E 25°51'21.32"S 29°23'50.05"E 25°51'30.07"S 29°24'2.49"E 25°51'40.59"S 29°24'17.43"E</p> <p>(Coordinates based on tower positions located in delineated wetlands)</p> <p>25°51'40.6493"S 29°24'52.792"E Loop in line1 start 25°51'11.7612"S 29°25'10.7443"E Loop in line1 bend 25°51'8.4775"S 29°25'10.4335"E Loop in line1 end</p> <p>25°51'39.5274"S 29°24'55.792"E Loop in line2 start 25°51'17.4012"S 29°25'9.6138"E Loop in line2 end (Coordinates based on loop in line sections located within delineated watercourses or within 32m buffer)</p>
14	<p>The development and related operation of facilities or infrastructure, for the storage, or for the storage and handling, of a dangerous good, where such storage occurs in containers with a combined capacity of 80 cubic metres or more but not exceeding 500 cubic metres.</p>	<p>"Dangerous goods" that are likely to be associated with the greater project, are fuel stores during the construction phase or hazardous chemical substances at the substation during the operational phase. Threshold of 80 m³ expected to be exceeded.</p>	<p>25°52'28.73"S 29°24'1.43"E (centre point of substation)</p>
19	<p>The infilling or depositing of any material of more than 10 cubic metres into, or the</p>	<p>A few (19) of the proposed tower structures will fall within watercourses (i.e. wetlands) and will</p>	<p>25°5'37.16"S 29°18'41.88"E 25°5'44.51"S 29°18'56.73"E</p>

	<p>dredging, excavation, removal or moving of soil, sand, shells, shell grit, pebbles or rock of more than 10 cubic metres from a watercourse.</p>	<p>involve the removal of soil within a watercourse, with the combined amount removed expected to be more than 10 cubic metres.</p>	<p>25°5'50.38"S 29°19'8.58"E 25°42'11.42"S 29°27'40.23"E 25°42'26.8"S 29°27'39.02"E 25°42'59.55"S 29°26'49.11"E 25°49'58.15"S 29°24'30.56"E 25°50'5.47"S 29°24'19.95"E 25°50'16.72"S 29°24'15.04"E 25°50'24.43"S 29°24'11.67"E 25°50'30.59"S 29°24'4.31"E 25°50'38.34"S 29°23'55.05"E 25°50'44.53"S 29°23'47.66"E 25°50'54.51"S 29°23'43.9"E 25°51'1.81"S 29°23'41.15"E 25°51'11.66"S 29°23'45.64"E 25°51'21.32"S 29°23'50.05"E 25°51'30.07"S 29°24'2.49"E 25°51'40.59"S 29°24'17.43"E (Coordinates based on tower positions located in delineated wetlands)</p> <p>25°51'40.6493"S 29°24'52.792"E Loop in line1 start 25°51'11.7612"S 29°25'10.7443"E Loop in line1 bend 25°51'8.4775"S 29°25'10.4335"E Loop in line1 end</p> <p>25°51'39.5274"S 29°24'55.792"E Loop in line2 start 25°51'17.4012"S 29°25'9.6138"E Loop in line2 end (Coordinates based on loop in line sections located within delineated watercourses or within 32m buffer)</p>
<p>28 (ii)</p>	<p>Residential, mixed, retail, commercial, industrial or institutional developments where such land was used for agriculture, game farming, equestrian purposes or afforestation on or after 01 April 1998 and where such development: (ii) will occur outside an urban area, where the total land to be developed is bigger than 1 hectare</p>	<p>The footprint of project on agricultural land and game farms, outside of an urban area, will be collectively more than 1ha.</p>	<p>Emkhiweni Substation 25°52'44.77"S 29°23'41.92"E 25°52'37.48"S 29°23'54.40"E 25°52'23.33"S 29°23'44.36"E 25°52'11.05"S 29°24'5.51"E 25°52'28.87"S 29°24'18.16"E 25°52'48.32"S 29°23'42.57"E (Coordinates based on boundary fence corners)</p> <p>Loop-in Lines Loop-in Line 1 Start 25°52'25.10"S 29°24'5.55"E Loop-in Line 1 Bend 25°52'6.30"S 29°24'35.27"E Loop-in Line 1 Bend 25°51'11.79"S 29°25'10.74"E Loop-in Line 1 End 25°50'58.51"S 29°25'9.49"E Loop-in Line 2 Start 25°52'26.27"S 29°24'6.27"E Loop-in Line 2 Bend 25°52'7.68"S 29°24'36.71"E</p>

			Loop-in Line 2 Bend	25°51'12.09"S	29°25'12.94"E
			Loop-in Line 2 Bend	25°51'9.66"S	29°25'23.41"E
			Loop-in Line 2 End	25°51'20.05"S	29°25'36.43"E

Emkhiweni-Silimela Powerline

			25°49'58.15"S	29°24'30.56"E
			25°50'5.47"S	29°24'19.95"E
			25°50'16.72"S	29°24'15.04"E
			25°50'24.43"S	29°24'11.67"E
			25°50'30.59"S	29°24'4.31"E
			25°50'38.34"S	29°23'55.05"E
			25°50'44.53"S	29°23'47.66"E
			25°50'54.51"S	29°23'43.9"E
			25°51'1.81"S	29°23'41.15"E
			25°51'11.66"S	29°23'45.64"E
			25°51'21.32"S	29°23'50.05"E
			25°51'30.07"S	29°24'2.49"E
			25°51'40.59"S	29°24'17.43"E
			25°51'50.26"S	29°24'31.18"E
			25°51'58.87"S	29°24'29.93"E
			25°52'6.4"S	29°24'28.83"E
			25°52'14.68"S	29°24'15.71"E
			25°52'21.4"S	29°24'5.07"E
			25°48'9.17"S	29°25'17"E
			25°48'17.33"S	29°25'24.69"E
			25°48'20.89"S	29°25'34.24"E
			25°48'29.14"S	29°25'38.98"E
			25°48'37.47"S	29°25'43.77"E
			25°48'47.01"S	29°25'40.92"E
			25°48'58.62"S	29°25'37.45"E
			25°44'28.02"S	29°25'0.65"E
			25°44'34.95"S	29°24'52.55"E
			25°44'43.83"S	29°24'42.15"E
			25°44'50.08"S	29°24'34.84"E
			25°44'56.1"S	29°24'27.8"E
			25°45'4.35"S	29°24'18.14"E
			25°45'12.75"S	29°24'8.3"E
			25°45'21.34"S	29°23'58.26"E
			25°45'27.8"S	29°23'50.69"E
			25°45'34.7"S	29°23'42.61"E
			25°45'43.02"S	29°23'32.87"E
			25°45'51.17"S	29°23'34.81"E
			25°45'58.6"S	29°23'36.58"E
			25°46'10.68"S	29°23'39.46"E
			25°46'21.16"S	29°23'41.96"E

			25°46'31.27"S	29°23'52.27"E
			25°5'10.98"S	29°17'55.44"E
			25°5'10.19"S	29°17'57.23"E
			25°5'6.63"S	29°18'5.2"E
			25°5'13.39"S	29°18'15.17"E
			25°5'25.21"S	29°18'17.73"E
			25°5'31.09"S	29°18'29.6"E
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			25°5'58.79"S	29°19'14.45"E
			25°6'7.07"S	29°19'20.24"E
			25°6'6.69"S	29°19'29.98"E
			25°6'6.09"S	29°19'45.2"E
			25°6'5.49"S	29°20'0.53"E
			25°6'5.13"S	29°20'9.6"E
			25°5'54.16"S	29°20'17.14"E
			25°5'53.75"S	29°20'35.07"E
			25°5'53.36"S	29°20'51.86"E
			25°5'52.95"S	29°21'9.78"E
			25°6'2.17"S	29°21'20.29"E
			25°6'11.03"S	29°21'30.4"E
			25°6'23.89"S	29°21'34.74"E
			25°6'36.89"S	29°21'39.12"E
			25°6'49.51"S	29°21'43.38"E
			25°7'3.74"S	29°21'40.55"E
			25°7'17.12"S	29°21'37.9"E
			25°7'28.45"S	29°21'35.65"E
			25°7'40"S	29°21'33.35"E
			25°7'52.54"S	29°21'30.87"E
			25°8'5.77"S	29°21'33.87"E
			25°8'18.33"S	29°21'36.72"E
			25°8'30.59"S	29°21'39.5"E
			25°8'40.29"S	29°21'41.7"E
			25°8'53.2"S	29°21'44.62"E
			25°9'4.76"S	29°21'47.25"E
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			25°11'53.05"S 29°22'34.1"E
			25°12'4.25"S 29°22'36.46"E
			25°12'15.65"S 29°22'38.86"E
			25°12'27.82"S 29°22'41.42"E
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			25°28'7.54"S	29°27'33.37"E
			25°28'12.66"S	29°27'31.6"E
			25°28'22.07"S	29°27'34.2"E
			25°28'29.9"S	29°27'36.37"E
			25°28'38.08"S	29°27'38.64"E
			25°28'45.22"S	29°27'42.91"E
			25°28'53.96"S	29°27'49.46"E
			25°29'1.55"S	29°27'55.14"E
			25°29'10.95"S	29°28'2.18"E
			25°29'18.61"S	29°28'7.91"E
			25°29'27.9"S	29°28'14.87"E
			25°29'38.63"S	29°28'22.9"E
			25°29'47.92"S	29°28'29.87"E
			25°29'56.13"S	29°28'36.01"E
			25°30'6.23"S	29°28'43.57"E
			25°30'16.2"S	29°28'51.05"E
			25°30'25.06"S	29°28'57.68"E
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			25°31'21.33"S	29°29'4.49"E
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			25°33'48.25"S	29°28'49.01"E
			25°33'59.28"S	29°28'44.96"E
			25°34'12.47"S	29°28'40.12"E

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			25°34'36.79"S 29°28'31.19"E
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			25°38'57.25"S 29°27'50.36"E
			25°39'7.45"S 29°27'54.43"E
			25°39'17.94"S 29°27'54.11"E
			25°39'29.9"S 29°27'53.74"E
			25°39'40.54"S 29°27'53.42"E
			25°39'53.58"S 29°27'56"E
			25°40'5.65"S 29°27'58.39"E
			25°40'15.96"S 29°27'56.83"E
			25°40'25.57"S 29°27'55.38"E
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			25°40'54.98"S 29°27'47.57"E
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			25°41'32.72"S 29°27'43.28"E
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			25°41'55.25"S 29°27'41.5"E
			25°42'11.42"S 29°27'40.23"E
			25°42'26.8"S 29°27'39.02"E
			25°42'32.72"S 29°27'29.99"E

			25°42'39.47"S 29°27'19.71"E 25°42'46.58"S 29°27'8.88"E 25°42'53.79"S 29°26'57.89"E 25°42'59.55"S 29°26'49.11"E 25°43'7.31"S 29°26'37.27"E 25°43'13.48"S 29°26'27.86"E 25°43'19.24"S 29°26'21.13"E 25°43'25.24"S 29°26'14.1"E 25°43'34.17"S 29°26'3.67"E 25°43'42.08"S 29°25'54.41"E 25°43'49.57"S 29°25'45.64"E (Coordinates based on tower positions)
Activity No(s):	Provide the relevant Scoping and EIR Activity(ies) as set out in Listing Notice 2 (GN R984)	Describe the portion of the proposed project to which the applicable listed activity relates.	
9	The development of facilities or infrastructure for the transmission and distribution of electricity with a capacity of 275 kilovolts or more, outside an urban area or industrial complex	The project involves the proposed construction of a 400kV powerline (outside the urban edge) of approximately 110km, including a substation and loop-in lines.	Emkhiweni-Silimela Powerline 25°5'10.98"S 29°17'55.44"E 25°52'22.81"S 29°24'2.85"E (Coordinates based on 400kV line start and end point) Substation midpoint 25°52'28.73"S 29°24'1.43"E Loop-in Lines Loop-in Line 1 Start 25°52'25.10"S 29°24'5.55"E Loop-in Line 1 End 25°50'58.51"S 29°25'9.49"E Loop-in Line 2 Start 25°52'26.27"S 29°24'6.27"E Loop-in Line 2 End 25°51'20.05"S 29°25'36.43"E
15	The clearance of an area of 20 hectares or more of indigenous vegetation.	Clearance of vegetation for the construction of the substation and associated infrastructure is expected to amount to 36ha. Although the footprint includes cultivated agricultural land, more than 20ha has not been cultivated.	Emkhiweni Substation (Boundary fence coordinates) 25°52'44.77"S 29°23'41.92"E 25°52'37.48"S 29°23'54.40"E 25°52'23.33"S 29°23'44.36"E 25°52'11.05"S 29°24'5.51"E 25°52'28.87"S 29°24'18.16"E 25°52'48.32"S 29°23'42.57"E (Coordinates based on boundary fence corners)
Activity No(s):	Provide the relevant Basic Assessment Activity(ies) as set out in Listing Notice 3 (GN R985)	Describe the portion of the proposed project to which the applicable listed activity relates.	
12 (e) (ii) and (f) (ii)	The clearance of an area of 300 square metres or more of indigenous vegetation	The proposed development will require the clearance of more than 300 square metres	Rand Highveld Grassland Threatened Ecosystem <u>Emkhiweni Substation</u>

<p>e) Limpopo ii. Within critical biodiversity areas identified in bioregional plans; or</p> <p>f) Mpumalanga ii. Within critical biodiversity areas identified in bioregional plans; or</p>	<p>cumulatively within sensitive areas such as CBAs, and ESAs (Limpopo and Mpumalanga).</p> <p>The following areas to be cleared within for the proposed development include: <u>1) Tower Footprints:</u> The type of towers to be used by Eskom are still to be confirmed, however, the maximum footprint of the proposed towers can be provided, based on a cross-rope suspension tower type, which has the widest span:</p> <ul style="list-style-type: none"> ➤ 80m (anchor width) x 50m (tower length) = 4000m² for one tower. ➤ For a 110km powerline, there would be approximately 250 to 400 towers. It is estimated that 184 of the proposed towers fall within CBAs and ESAs. ➤ Thus the total project footprint for all towers would be between 1 000 000 to 1 600 000 square metres, and the footprint for the 184 towers which fall within CBAs and ESAs totals 736 000m². <p><u>2) Powerline Footprint:</u></p> <p>The Maximum Vegetation Clearance for 220 to 765kV (in this case 400kV) is between 22m to 40m (this includes clearance from the centre of the powerline up to the outer conductor, plus an additional 10m on either side). Therefore a maximum of 40m x 110 000m = 4 400 000 square metres is expected, with 2 426 160m² within both CBAs and ESAs (1 135 840m² within CBAs alone).</p>	<p>25°52'28.73"S 29°24'1.43"E (Coordinate substation midpoint)</p> <p><u>Loop-in Lines</u></p> <table border="0"> <tr><td>Loop-in Line 1 Start</td><td>25°52'25.10"S</td><td>29°24'5.55"E</td></tr> <tr><td>Loop-in Line 1 Bend</td><td>25°52'6.30"S</td><td>29°24'35.27"E</td></tr> <tr><td>Loop-in Line 1 Bend</td><td>25°51'11.79"S</td><td>29°25'10.74"E</td></tr> <tr><td>Loop-in Line 1 End</td><td>25°50'58.51"S</td><td>29°25'9.49"E</td></tr> <tr><td>Loop-in Line 2 Start</td><td>25°52'26.27"S</td><td>29°24'6.27"E</td></tr> <tr><td>Loop-in Line 2 Bend</td><td>25°52'7.68"S</td><td>29°24'36.71"E</td></tr> <tr><td>Loop-in Line 2 Bend</td><td>25°51'12.09"S</td><td>29°25'12.94"E</td></tr> <tr><td>Loop-in Line 2 Bend</td><td>25°51'9.66"S</td><td>29°25'23.41"E</td></tr> <tr><td>Loop-in Line 2 End</td><td>25°51'20.05"S</td><td>29°25'36.43"E</td></tr> </table> <p><u>Emkhiweni-Silimela Powerline</u></p> <table border="0"> <tr><td>start</td><td>25°52'22.81"S</td><td>29°24'2.85"E</td></tr> <tr><td>end</td><td>25°44'15.5953"S</td><td>29°25'15.2042"E</td></tr> <tr><td>start</td><td>25°44'11.0471"S</td><td>29°25'20.4238"E</td></tr> <tr><td>end</td><td>25°43'46.9108"S</td><td>29°25'48.7489"E</td></tr> <tr><td>start</td><td>25°43'29.5217"S</td><td>29°26'9.0716"E</td></tr> <tr><td>end</td><td>25°43'25.3432"S</td><td>29°26'13.963"E</td></tr> <tr><td>start</td><td>25°43'19.7366"S</td><td>29°26'20.5401"E</td></tr> <tr><td>end</td><td>25°32'26.5251"S</td><td>29°29'12.3893"E</td></tr> </table> <p>(Coordinates based on powerline start and end intersection points with Threatened Ecosystem)</p> <p>MBSP2 CBA optimal</p> <table border="0"> <tr><td>start</td><td>25°43'29.5257"S</td><td>29°26'9.0778"E</td></tr> <tr><td>end</td><td>25°43'25.351"S</td><td>29°26'13.9717"E</td></tr> <tr><td>start</td><td>25°43'19.7389"S</td><td>29°26'20.5399"E</td></tr> <tr><td>end</td><td>25°43'10.1567"S</td><td>29°26'32.9382"E</td></tr> <tr><td>start</td><td>25°43'3.0639"S</td><td>29°26'43.735"E</td></tr> <tr><td>end</td><td>25°41'10.5012"S</td><td>29°27'45.031"E</td></tr> <tr><td>start</td><td>25°38'37.15"S</td><td>29°27'41.7757"E</td></tr> <tr><td>end</td><td>25°37'47.9809"S</td><td>29°27'31.5917"E</td></tr> <tr><td>start</td><td>25°33'37.7808"S</td><td>29°28'52.7478"E</td></tr> <tr><td>end</td><td>25°32'26.9288"S</td><td>29°29'12.2698"E</td></tr> <tr><td>start</td><td>25°31'41.342"S</td><td>29°29'6.8865"E</td></tr> <tr><td>end</td><td>25°31'39.4977"S</td><td>29°29'6.6873"E</td></tr> <tr><td>start</td><td>25°31'35.4678"S</td><td>29°29'6.2019"E</td></tr> <tr><td>end</td><td>25°31'33.9307"S</td><td>29°29'6.0172"E</td></tr> </table> <p>(Coordinates based on powerline start and end intersection points with CBA)</p> <p>MBSP2 CBA Irreplaceable</p>	Loop-in Line 1 Start	25°52'25.10"S	29°24'5.55"E	Loop-in Line 1 Bend	25°52'6.30"S	29°24'35.27"E	Loop-in Line 1 Bend	25°51'11.79"S	29°25'10.74"E	Loop-in Line 1 End	25°50'58.51"S	29°25'9.49"E	Loop-in Line 2 Start	25°52'26.27"S	29°24'6.27"E	Loop-in Line 2 Bend	25°52'7.68"S	29°24'36.71"E	Loop-in Line 2 Bend	25°51'12.09"S	29°25'12.94"E	Loop-in Line 2 Bend	25°51'9.66"S	29°25'23.41"E	Loop-in Line 2 End	25°51'20.05"S	29°25'36.43"E	start	25°52'22.81"S	29°24'2.85"E	end	25°44'15.5953"S	29°25'15.2042"E	start	25°44'11.0471"S	29°25'20.4238"E	end	25°43'46.9108"S	29°25'48.7489"E	start	25°43'29.5217"S	29°26'9.0716"E	end	25°43'25.3432"S	29°26'13.963"E	start	25°43'19.7366"S	29°26'20.5401"E	end	25°32'26.5251"S	29°29'12.3893"E	start	25°43'29.5257"S	29°26'9.0778"E	end	25°43'25.351"S	29°26'13.9717"E	start	25°43'19.7389"S	29°26'20.5399"E	end	25°43'10.1567"S	29°26'32.9382"E	start	25°43'3.0639"S	29°26'43.735"E	end	25°41'10.5012"S	29°27'45.031"E	start	25°38'37.15"S	29°27'41.7757"E	end	25°37'47.9809"S	29°27'31.5917"E	start	25°33'37.7808"S	29°28'52.7478"E	end	25°32'26.9288"S	29°29'12.2698"E	start	25°31'41.342"S	29°29'6.8865"E	end	25°31'39.4977"S	29°29'6.6873"E	start	25°31'35.4678"S	29°29'6.2019"E	end	25°31'33.9307"S	29°29'6.0172"E
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start	25°44'15.5308"S	29°25'15.2257"E
end	25°44'11.0844"S	29°25'20.4541"E
start	25°43'46.8977"S	29°25'48.7569"E
end	25°43'29.5326"S	29°26'9.0793"E
start	25°43'25.3511"S	29°26'13.9723"E
end	25°43'19.7392"S	29°26'20.5396"E
start	25°28'30.2108"S	29°27'36.4396"E
end	25°28'12.3005"S	29°27'31.7232"E
start	25°28'2.4875"S	29°27'35.1264"E
end	25°26'37.0236"S	29°28'12.7391"E
start	25°26'1.2326"S	29°28'24.8072"E
end	25°26'0.7178"S	29°28'24.9808"E
(Coordinates based on powerline start and end intersection points with CBA)		
Limpopo C Plan CBA 2		
start	25°25'20.2618"S	29°28'41.6763"E
end	25°23'0.6247"S	29°26'33.6958"E
start	25°22'56.6156"S	29°26'6.9832"E
end	25°21'39.6985"S	29°25'10.3676"E
start	25°20'6.5589"S	29°25'0.6047"E
end	25°19'45.8022"S	29°24'52.6828"E
start	25°18'29.8306"S	29°24'22.8517"E
end	25°18'11.2519"S	29°24'13.8095"E
start	25°5'50.6277"S	29°19'8.7705"E
end	25°5'10.9507"S	29°17'55.4759"E
(Coordinates based on powerline start and end intersection points with CBA)		
Limpopo C Plan CBA 1		
start	25°17'32.3564"S	29°23'57.1741"E
end	25°16'40.1976"S	29°23'34.8661"E
start	25°15'49.5054"S	29°23'23.8891"E
end	25°15'48.9227"S	29°23'23.7665"E
start	25°15'38.4368"S	29°23'21.5589"E
end	25°15'17.2586"S	29°23'17.1004"E
(Coordinates based on powerline start and end intersection points with CBA)		
MBSP2 ESA local corridor		
start	25°31'38.7544"S	29°29'6.6014"E
end	25°31'35.4697"S	29°29'6.2039"E
start	25°31'33.9306"S	29°29'6.0176"E
end	25°29'7.0849"S	29°27'59.2903"E
start	25°28'50.9831"S	29°27'47.233"E

			<p>end 25°28'37.8301"S 29°27'38.5501"E start 25°26'37.0236"S 29°28'12.7391"E end 25°26'27.6316"S 29°28'15.9059"E start 25°26'4.8973"S 29°28'23.5716"E end 25°24'52.9255"S 29°28'53.9459"E (Coordinates based on powerline start and end intersection points with ESA)</p> <p>Limpopo C Plan ESA1</p> <p>start 25°36'42.3803"S 29°27'45.038"E end 25°25'20.2617"S 29°28'41.6762"E start 25°21'39.6984"S 29°25'10.3676"E end 25°21'3.858"S 29°25'13.5104"E start 25°20'44.6835"S 29°25'15.1551"E end 25°20'39.081"S 29°25'13.0169"E start 25°13'6.8"S 29°22'49.6355"E end 25°12'52.977"S 29°22'46.7254"E start 25°8'56.2549"S 29°21'45.3202"E end 25°6'5.1431"S 29°20'9.2738"E start 25°6'6.9293"S 29°19'25.4014"E end 25°6'6.9165"S 29°19'20.0546"E start 25°5'59.0254"S 29°19'14.588"E end 25°5'50.6277"S 29°19'8.7705"E (Coordinates based on powerline start and end intersection points with ESA)</p> <p>Limpopo C Plan ESA2</p> <p>start 25°23'0.6247"S 29°26'33.6957"E end 25°22'56.6156"S 29°26'6.9833"E start 25°21'3.858"S 29°25'13.5104"E end 25°20'46.7285"S 29°25'15.0125"E start 25°20'39.0809"S 29°25'13.0169"E end 25°20'6.5589"S 29°25'0.6047"E start 25°19'45.8022"S 29°24'52.6828"E end 25°19'6.2494"S 29°24'37.5873"E start 25°6'5.1431"S 29°20'9.2738"E end 25°5'59.0254"S 29°19'14.588"E (Coordinates based on powerline start and end intersection points with ESA)</p>
14 (ii)(a)(c)e. and f.	The development of— (ii) infrastructure or structures with a physical footprint of 10 square metres or more;	The proposed development may involve tower structures within the regulated area of watercourses, outside urban areas, which fall within or near sensitive areas such as a threatened ecosystem (Rand Highveld	<p>Overhead Powerline Stream Crossings</p> <p>25°51'37.3292"S 29°24'12.8039"E 25°43'29.7377"S 29°26'8.839"E 25°42'6.6448"S 29°27'40.6046"E 25°31'39.6307"S 29°29'6.7075"E</p>

	<p>where such development occurs—</p> <p>(a) within a watercourse;</p> <p>(c) if no development setback has been adopted, within 32m of a watercourse, measured from the edge of a watercourse,</p> <p>e) Limpopo</p> <p>i. Outside urban areas:</p> <p>(ff) Critical biodiversity areas or ecosystem service areas as identified in systematic biodiversity plans adopted by the competent authority or in bioregional plans;</p> <p>f) Mpumalanga</p> <p>i. Outside urban areas:</p> <p>(ff) Critical biodiversity areas or ecosystem service areas as identified in systematic biodiversity plans adopted by the competent authority or in bioregional plans.</p>	<p>Grassland Threatened Ecosystem (Mpumalanga) - Vulnerable), CBAs, and ESAs (Limpopo and Mpumalanga).</p> <p>The proposed development falls within 10km, but more than 6km, of two Protected Areas in terms of NEMPAA - the Loskop Dam Nature Reserve, and the Witbank Nature Reserve.</p> <p>The type of towers to be used by Eskom are still to be confirmed, however, the maximum footprint of the proposed towers can be provided, based on a cross-rope suspension tower type, which has the widest span:</p> <ul style="list-style-type: none"> ➤ 80m (anchor width) x 50m (tower length) = 4000 square metres for one tower. ➤ For a 110km powerline, there would be approximately 250 to 400 towers. It is estimated that 184 of the proposed towers fall within CBAs and ESAs. ➤ Thus the total project footprint for all towers would be between 1 000 000 to 1 600 000m², and the footprint for the 184 towers which fall within CBAs and ESAs totals 736 000m². 	<p>25°28'51.6884"S 29°27'47.7612"E 25°26'5.6648"S 29°28'23.3128"E 25°23'3.0894"S 29°26'50.1176"E 25°22'52.0139"S 29°25'53.2828"E 25°20'3.3115"S 29°24'59.3653"E 25°6'7.0402"S 29°19'22.6768"E (Coordinates based on midpoint)</p> <p>Tower positions falling within delineated wetlands</p> <p>25°5'37.16"S 29°18'41.88"E 25°5'44.51"S 29°18'56.73"E 25°5'50.38"S 29°19'8.58"E 25°42'11.42"S 29°27'40.23"E 25°42'26.8"S 29°27'39.02"E 25°42'59.55"S 29°26'49.11"E 25°49'58.15"S 29°24'30.56"E 25°50'5.47"S 29°24'19.95"E 25°50'16.72"S 29°24'15.04"E 25°50'24.43"S 29°24'11.67"E 25°50'30.59"S 29°24'4.31"E 25°50'38.34"S 29°23'55.05"E 25°50'44.53"S 29°23'47.66"E 25°50'54.51"S 29°23'43.9"E 25°51'1.81"S 29°23'41.15"E 25°51'11.66"S 29°23'45.64"E 25°51'21.32"S 29°23'50.05"E 25°51'30.07"S 29°24'2.49"E 25°51'40.59"S 29°24'17.43"E (Coordinates based on tower positions)</p>
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Tower Positions

No.	South	East
1	25°5'10.98"S	29°17'55.44"E
2	25°5'10.19"S	29°17'57.23"E
3	25°5'6.63"S	29°18'5.2"E
4	25°5'13.39"S	29°18'15.17"E
5	25°5'25.21"S	29°18'17.73"E
6	25°5'31.09"S	29°18'29.6"E
7	25°5'37.16"S	29°18'41.88"E
8	25°5'44.51"S	29°18'56.73"E
9	25°5'50.38"S	29°19'8.58"E
10	25°5'58.79"S	29°19'14.45"E
11	25°6'7.07"S	29°19'20.24"E
12	25°6'6.69"S	29°19'29.98"E
13	25°6'6.09"S	29°19'45.2"E
14	25°6'5.49"S	29°20'0.53"E
15	25°6'5.13"S	29°20'9.6"E
16	25°5'54.16"S	29°20'17.14"E
17	25°5'53.75"S	29°20'35.07"E
18	25°5'53.36"S	29°20'51.86"E
19	25°5'52.95"S	29°21'9.78"E
20	25°6'2.17"S	29°21'20.29"E
21	25°6'11.03"S	29°21'30.4"E
22	25°6'23.89"S	29°21'34.74"E
23	25°6'36.89"S	29°21'39.12"E
24	25°6'49.51"S	29°21'43.38"E
25	25°7'3.74"S	29°21'40.55"E
26	25°7'17.12"S	29°21'37.9"E
27	25°7'28.45"S	29°21'35.65"E
28	25°7'40"S	29°21'33.35"E
29	25°7'52.54"S	29°21'30.87"E
30	25°8'5.77"S	29°21'33.87"E
31	25°8'18.33"S	29°21'36.72"E
32	25°8'30.59"S	29°21'39.5"E
33	25°8'40.29"S	29°21'41.7"E
34	25°8'53.2"S	29°21'44.62"E
35	25°9'4.76"S	29°21'47.25"E
36	25°9'17.07"S	29°21'50.04"E
37	25°9'29.57"S	29°21'52.88"E
38	25°9'42.36"S	29°21'55.78"E
39	25°9'56.69"S	29°21'59.03"E
40	25°10'7.5"S	29°22'3.23"E
41	25°10'19.78"S	29°22'8.01"E
42	25°10'31.35"S	29°22'12.5"E
43	25°10'43.81"S	29°22'17.35"E
44	25°10'56.06"S	29°22'22.11"E
45	25°11'6.91"S	29°22'24.39"E
46	25°11'18.68"S	29°22'26.87"E
47	25°11'31.09"S	29°22'29.48"E
48	25°11'43.06"S	29°22'32"E

No.	South	East
49	25°11'53.05"S	29°22'34.1"E
50	25°12'4.25"S	29°22'36.46"E
51	25°12'15.65"S	29°22'38.86"E
52	25°12'27.82"S	29°22'41.42"E
53	25°12'38.92"S	29°22'43.75"E
54	25°12'50.99"S	29°22'46.29"E
55	25°13'2.13"S	29°22'48.64"E
56	25°13'13.23"S	29°22'50.98"E
57	25°13'25.9"S	29°22'53.64"E
58	25°13'37.71"S	29°22'56.13"E
59	25°13'50.48"S	29°22'58.82"E
60	25°14'2.8"S	29°23'1.41"E
61	25°14'14.64"S	29°23'3.9"E
62	25°14'27.47"S	29°23'6.6"E
63	25°14'39.34"S	29°23'9.1"E
64	25°14'50.29"S	29°23'11.41"E
65	25°15'0.5"S	29°23'13.56"E
66	25°15'13.26"S	29°23'16.25"E
67	25°15'25.53"S	29°23'18.83"E
68	25°15'38.05"S	29°23'21.47"E
69	25°15'50.98"S	29°23'24.19"E
70	25°16'2.65"S	29°23'26.65"E
71	25°16'15"S	29°23'29.25"E
72	25°16'27.7"S	29°23'31.93"E
73	25°16'38.79"S	29°23'34.27"E
74	25°16'48.49"S	29°23'38.41"E
75	25°17'4.84"S	29°23'45.4"E
76	25°17'11.15"S	29°23'48.1"E
77	25°17'34.16"S	29°23'57.94"E
78	25°17'45.8"S	29°24'2.92"E
79	25°17'59.26"S	29°24'8.68"E
80	25°18'12.7"S	29°24'14.43"E
81	25°18'25.53"S	29°24'19.92"E
82	25°18'32.61"S	29°24'24.75"E
83	25°18'43.05"S	29°24'28.73"E
84	25°18'53.27"S	29°24'32.63"E
85	25°19'3.95"S	29°24'36.71"E
86	25°19'14.4"S	29°24'40.69"E
87	25°19'27.01"S	29°24'45.51"E
88	25°19'42.27"S	29°24'51.33"E
89	25°19'58.77"S	29°24'57.63"E
90	25°20'12.61"S	29°25'2.91"E
91	25°20'27.22"S	29°25'8.49"E
92	25°20'44.76"S	29°25'15.18"E
93	25°21'0.32"S	29°25'13.82"E
94	25°21'15.96"S	29°25'12.45"E
95	25°21'29.96"S	29°25'11.22"E
96	25°21'44.47"S	29°25'9.95"E
97	25°21'57.72"S	29°25'8.79"E

No.	South	East
98	25°22'6.82"S	29°25'16.25"E
99	25°22'16.57"S	29°25'24.24"E
100	25°22'27.3"S	29°25'33.03"E
101	25°22'33.38"S	29°25'38.01"E
102	25°22'47.87"S	29°25'49.89"E
103	25°22'54.92"S	29°25'55.66"E
104	25°22'56.78"S	29°26'8.06"E
105	25°22'58.47"S	29°26'19.33"E
106	25°23'0.17"S	29°26'30.65"E
107	25°23'2.26"S	29°26'44.59"E
108	25°23'4.45"S	29°26'59.13"E
109	25°23'6.92"S	29°27'15.64"E
110	25°23'9.4"S	29°27'32.12"E
111	25°23'11.49"S	29°27'46.1"E
112	25°23'13.74"S	29°27'48.08"E
113	25°23'25.98"S	29°27'58.85"E
114	25°23'36.03"S	29°28'7.7"E
115	25°23'46.46"S	29°28'16.88"E
116	25°23'55.64"S	29°28'24.96"E
117	25°24'4.69"S	29°28'32.93"E
118	25°24'14.36"S	29°28'41.44"E
119	25°24'17.36"S	29°28'44.08"E
120	25°24'29.31"S	29°28'47.75"E
121	25°24'36.57"S	29°28'49.98"E
122	25°24'49.09"S	29°28'53.83"E
123	25°24'51.52"S	29°28'54.58"E
124	25°25'2.77"S	29°28'49.53"E
125	25°25'10.22"S	29°28'46.18"E
126	25°25'19.53"S	29°28'42.01"E
127	25°25'31.01"S	29°28'36.85"E
128	25°25'42.2"S	29°28'31.83"E
129	25°25'47.62"S	29°28'29.4"E
130	25°25'54.4"S	29°28'27.11"E
131	25°26'2.46"S	29°28'24.39"E
132	25°26'17.19"S	29°28'19.43"E
133	25°26'26.87"S	29°28'16.16"E
134	25°26'38.45"S	29°28'12.26"E
135	25°26'44.95"S	29°28'8.32"E
136	25°26'51.11"S	29°28'4.6"E
137	25°26'56.06"S	29°28'1.6"E
138	25°27'9.35"S	29°27'53.55"E
139	25°27'17.46"S	29°27'50.74"E
140	25°27'29.12"S	29°27'46.7"E
141	25°27'49.52"S	29°27'39.62"E
142	25°27'55.24"S	29°27'37.64"E
143	25°28'7.54"S	29°27'33.37"E
144	25°28'12.66"S	29°27'31.6"E
145	25°28'22.07"S	29°27'34.2"E
146	25°28'29.9"S	29°27'36.37"E

No.	South	East
147	25°28'38.08"S	29°27'38.64"E
148	25°28'45.22"S	29°27'42.91"E
149	25°28'53.96"S	29°27'49.46"E
150	25°29'1.55"S	29°27'55.14"E
151	25°29'10.95"S	29°28'2.18"E
152	25°29'18.61"S	29°28'7.91"E
153	25°29'27.9"S	29°28'14.87"E
154	25°29'38.63"S	29°28'22.9"E
155	25°29'47.92"S	29°28'29.87"E
156	25°29'56.13"S	29°28'36.01"E
157	25°30'6.23"S	29°28'43.57"E
158	25°30'16.2"S	29°28'51.05"E
159	25°30'25.06"S	29°28'57.68"E
160	25°30'36.47"S	29°28'59.06"E
161	25°30'46.99"S	29°29'0.34"E
162	25°30'57.53"S	29°29'1.61"E
163	25°31'9.06"S	29°29'3.01"E
164	25°31'21.33"S	29°29'4.49"E
165	25°31'32.32"S	29°29'5.82"E
166	25°31'45.24"S	29°29'7.38"E
167	25°31'57.16"S	29°29'8.83"E
168	25°32'9.42"S	29°29'10.31"E
169	25°32'21.06"S	29°29'11.72"E
170	25°32'33.92"S	29°29'13.28"E
171	25°32'40.11"S	29°29'14.03"E
172	25°32'49.77"S	29°29'10.48"E
173	25°33'0.9"S	29°29'6.4"E
174	25°33'13.04"S	29°29'1.94"E
175	25°33'24.22"S	29°28'57.84"E
176	25°33'36.45"S	29°28'53.35"E
177	25°33'48.25"S	29°28'49.01"E
178	25°33'59.28"S	29°28'44.96"E
179	25°34'12.47"S	29°28'40.12"E
180	25°34'22.71"S	29°28'36.36"E
181	25°34'36.79"S	29°28'31.19"E
182	25°34'50.09"S	29°28'26.3"E
183	25°34'60"S	29°28'22.66"E
184	25°35'10.89"S	29°28'18.66"E
185	25°35'21.8"S	29°28'14.65"E
186	25°35'31.78"S	29°28'10.99"E
187	25°35'43.83"S	29°28'6.56"E
188	25°35'56.23"S	29°28'2.01"E
189	25°36'7.33"S	29°27'57.93"E
190	25°36'18.43"S	29°27'53.85"E
191	25°36'26.06"S	29°27'51.04"E
192	25°36'39.84"S	29°27'45.98"E
193	25°36'54.06"S	29°27'40.75"E
194	25°37'6.4"S	29°27'36.22"E
195	25°37'17.49"S	29°27'32.14"E

No.	South	East
196	25°37'27.39"S	29°27'28.5"E
197	25°37'38.71"S	29°27'30.21"E
198	25°37'51.98"S	29°27'32.21"E
199	25°38'5.32"S	29°27'34.22"E
200	25°38'17.51"S	29°27'36.06"E
201	25°38'28.85"S	29°27'37.77"E
202	25°38'43.26"S	29°27'44.79"E
203	25°38'57.25"S	29°27'50.36"E
204	25°39'7.45"S	29°27'54.43"E
205	25°39'17.94"S	29°27'54.11"E
206	25°39'29.9"S	29°27'53.74"E
207	25°39'40.54"S	29°27'53.42"E
208	25°39'53.58"S	29°27'56"E
209	25°40'5.65"S	29°27'58.39"E
210	25°40'15.96"S	29°27'56.83"E
211	25°40'25.57"S	29°27'55.38"E
212	25°40'34.79"S	29°27'53.99"E
213	25°40'41.47"S	29°27'51.87"E
214	25°40'49.01"S	29°27'49.47"E
215	25°40'54.98"S	29°27'47.57"E
216	25°41'0.48"S	29°27'45.82"E
217	25°41'12.4"S	29°27'44.88"E
218	25°41'22.58"S	29°27'44.08"E
219	25°41'32.72"S	29°27'43.28"E
220	25°41'44.57"S	29°27'42.35"E
221	25°41'55.25"S	29°27'41.5"E
222	25°42'11.42"S	29°27'40.23"E
223	25°42'26.8"S	29°27'39.02"E
224	25°42'32.72"S	29°27'29.99"E
225	25°42'39.47"S	29°27'19.71"E
226	25°42'46.58"S	29°27'8.88"E
227	25°42'53.79"S	29°26'57.89"E
228	25°42'59.55"S	29°26'49.11"E
229	25°43'7.31"S	29°26'37.27"E
230	25°43'13.48"S	29°26'27.86"E
231	25°43'19.24"S	29°26'21.13"E
232	25°43'25.24"S	29°26'14.1"E
233	25°43'34.17"S	29°26'3.67"E
234	25°43'42.08"S	29°25'54.41"E
235	25°43'49.57"S	29°25'45.64"E
236	25°43'56.56"S	29°25'37.47"E
237	25°44'4.41"S	29°25'28.29"E
238	25°44'12.51"S	29°25'18.81"E
239	25°44'21.09"S	29°25'8.77"E
240	25°44'28.02"S	29°25'0.65"E
241	25°44'34.95"S	29°24'52.55"E
242	25°44'43.83"S	29°24'42.15"E
243	25°44'50.08"S	29°24'34.84"E
244	25°44'56.1"S	29°24'27.8"E

No.	South	East
245	25°45'4.35"S	29°24'18.14"E
246	25°45'12.75"S	29°24'8.3"E
247	25°45'21.34"S	29°23'58.26"E
248	25°45'27.8"S	29°23'50.69"E
249	25°45'34.7"S	29°23'42.61"E
250	25°45'43.02"S	29°23'32.87"E
251	25°45'51.17"S	29°23'34.81"E
252	25°45'58.6"S	29°23'36.58"E
253	25°46'10.68"S	29°23'39.46"E
254	25°46'21.16"S	29°23'41.96"E
255	25°46'31.27"S	29°23'52.27"E
256	25°46'35.85"S	29°24'1.81"E
257	25°46'39.56"S	29°24'9.55"E
258	25°46'40.94"S	29°24'25.65"E
259	25°46'42.37"S	29°24'42.35"E
260	25°46'46.14"S	29°24'54.73"E
261	25°46'55.55"S	29°24'59.9"E
262	25°46'59.14"S	29°25'11.2"E
263	25°47'9.91"S	29°25'12.09"E
264	25°47'21.65"S	29°25'13.07"E
265	25°47'30.99"S	29°25'13.84"E
266	25°47'39.42"S	29°25'14.54"E
267	25°47'51.93"S	29°25'15.57"E
268	25°48'0.64"S	29°25'16.3"E
269	25°48'9.17"S	29°25'17"E
270	25°48'17.33"S	29°25'24.69"E
271	25°48'20.89"S	29°25'34.24"E
272	25°48'29.14"S	29°25'38.98"E
273	25°48'37.47"S	29°25'43.77"E
274	25°48'47.01"S	29°25'40.92"E
275	25°48'58.62"S	29°25'37.45"E
276	25°49'7.15"S	29°25'38.05"E
277	25°49'15.67"S	29°25'38.64"E
278	25°49'21.21"S	29°25'35.69"E
279	25°49'33.49"S	29°25'29.13"E
280	25°49'45.77"S	29°25'22.57"E
281	25°49'47.36"S	29°25'8.42"E
282	25°49'48.85"S	29°24'55.23"E
283	25°49'50.36"S	29°24'41.82"E
284	25°49'58.15"S	29°24'30.56"E
285	25°50'5.47"S	29°24'19.95"E
286	25°50'16.72"S	29°24'15.04"E
287	25°50'24.43"S	29°24'11.67"E
288	25°50'30.59"S	29°24'4.31"E
289	25°50'38.34"S	29°23'55.05"E
290	25°50'44.53"S	29°23'47.66"E
291	25°50'54.51"S	29°23'43.9"E
292	25°51'1.81"S	29°23'41.15"E
293	25°51'11.66"S	29°23'45.64"E

No.	South	East
294	25°51'21.32"S	29°23'50.05"E
295	25°51'30.07"S	29°24'2.49"E
296	25°51'40.59"S	29°24'17.43"E
297	25°51'50.26"S	29°24'31.18"E
298	25°51'58.87"S	29°24'29.93"E
299	25°52'6.4"S	29°24'28.83"E
300	25°52'14.68"S	29°24'15.71"E
301	25°52'21.4"S	29°24'5.07"E
302	25°52'22.81"S	29°24'2.85"E