

Primary Substation (A)	Tap Change Control ? H = Hand Chg Spring Leave / Fix taps ?	kV	Parallel with	Action required to reduce fault level / circulating current. Where switching operations require the opening of Primary Transformer CB Tap Change Schemes shall be made Non-Auto. When opening Bus-Section CBs, then consideration shall be taken to make Tap Change Control Schemes Non-Auto.	Primary Substation B	Tap Change Control ? H = Hand Chg Spring Leave / Fix taps ?
Ashton	Y - L	6.6	Worsley Mesnes	Open Ashton AB Bus Section CB.	Y	H F
			Lamberhead	Open AB Bus Section at Lamberhead	N	- L
			Hindley Green	At Atherton TC Open AB Bus Section CB.	Y	H F
			Hill Top Section A or B	At Atherton TC Open AB Bus Section CB. At Hill Top, switch out Auto Close on BC Bus Section CB and open AB Bus Section CB.	N	H L
			Hill Top Section C	At Atherton TC Open AB Bus Section CB. At Hill Top, switch out Auto Close on BC Bus Section CB.	N	H L
			Bedford	At Atherton TC Open AB Bus Section CB.	Y	- L
			Westhoughton	At Atherton TC Open AB Bus Section CB.	N	H L
			Little Hulton	At Atherton TC Open AB Bus Section CB. At Little Hulton open T12 11kV CB.	N	- L
			Kirkhall Lane	At Atherton TC Open AB Bus Section CB. Open Kirkhall Lane AB Bus Section CB.	Y	H L
			Lostock	At Atherton TC Open AB Bus Section CB. Open Lostock T12 11kV CB.	Y	- L
Barbara St	N - L	6.6	Spa Rd	Open King St Sth CB at Spa Rd Open AA Bus Section at Spa Rd Open BB Bus Section at Spa Rd Open AB Bus Section at Barbara St.	N	- F
			Bradshawgate	Open AB Bus Section at both Primaries.	Y	- L
Bedford	Y - L	11	Hill Top Section C	At Hill Top, switch out Auto Close on BC Bus Section CB.	N	H L
			Golborne	Open T12 CB at Golborne.	Y	- L
			Leigh	None	Y	- F
			Culcheth	Control Eng to consider opening AB Bus Section at Bedford Primary taking into account % loadings at respective ends.	Y	H L
			Kirkhall Lane	Open AB Bus Section at both Primaries.	Y	H L
			Atherton TC	See Atherton TC.	Y	- L
Bradshawgate	Y - L	6.6	Union Rd	Open AB Bus Section at both Primaries.	N	- L
			Barbara St	Open AB Bus Section at both Primaries.	N	- L
			Campbell St	Open AB Bus Section at Bradshawgate. Reconfigure the neutral earthing on the 11/6.6kV Tx at Norweb Mcr Rd S/S (231868) as required.	Y	H L
			Spa Rd	Open King St Sth CB at Spa Rd Open AA Bus Section at Spa Rd Open BB Bus Section at Spa Rd Open AB Bus Section at Bradshawgate.	N	- F
Bury Town Centre	Y H L	6.6	Chamberhall	Open AB Bus Section at both Primaries.	Y	- L
			Dumers Lane	Open AB Bus Section at Bury TC. At Dumers Ln:- Open AB Bus Section and Sewage Wks CB..	Y	H L
			Heady Hill	Open AB Bus Section at both Primaries.	Y	H L
			Heap Bridge	Open AB Bus Section at Bury TC and Field Engineer to contact Pilsworth Generation requesting export reduction to 1.1mVA (if possible, this should be requested 24 hours before to allow the staff at Pilsworth to arrange on site attendance, contact details held at DSMC).	Y	- L
Campbell St	Y H L	11	Bradshawgate	See Bradshawgate	Y	- L
			Farnworth	None	Y	- L
			Little Hulton	Open AB Bus Section at Campbell St	N	- L
			Spa Rd	Open King St Sth CB at Spa Rd Open AA Bus Section at Spa Rd Open BB Bus Section at Spa Rd Open AB Bus Section at Campbell St. Reconfigure the neutral earthing on the 11/6.6kV Tx at Norweb Mcr Rd S/S (231868) as required.	N	- F

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Carr Street	N	H	L	11	Swinton	Open AB Bus Section at both Primaries.		Y	-	L
					Clifton Junction	Open AB Bus Section at Carr St.		N	H	L
					Hill Top	At Hill Top, switch out Auto Close on BC Bus Section CB.		N	H	L
Chorley South (Preston Zone)	Y	-	L	11	Crown Lane	At Chorley South Open T11 or T12 11kV CB		Y	-	L
					Lostock	None.		Y	-	L
Chamberhall	Y	-	L	6.6	Bury Town Centre	Open AB Bus Section at both Primaries.		Y	H	L
					Dumers Lane	Open AB Bus Section at Chamberhall. At Dumers Ln:- Open AB Bus Section and Sewage Wks CB..		Y	H	L
					Heap Bridge	Open AB Bus Section at Chamberhall and Field Engineer to contact Pilsworth Generation requesting export reduction to 1.1mVA (if possible, this should be requested 24 hours before to allow the staff at Pilsworth to arrange on site attendance, contact details held at DSMC).		Y	-	L
					Heady Hill	Open AB Bus Section at Heady Hill.		Y	H	L
					Heywood	Open AB Bus Section at Heywood.		Y	-	L
Clifton Junction	N	H	L	6.6	Swinton	None		Y	-	L
					Carr St	See Carr St		N	H	L
					Radcliffe	None		Y	-	F
Cox Green	N	H	F	11	Harwood	None		Y	H	L
					Holt St	None		Y	H	L
					Lostock	None.		Y	-	L
Crown Lane	Y	-	L	11	Lostock	Open AB Bus Section at Crown Lane.		Y	-	L
					Chorley South (Preston Zone)	See Chorley South		Y	-	L
					Wrightington (Preston Zone)	At Wrightington , Open T11 or T12 11kV CB		Y	H	L
					Westhoughton	None.		N	H	L
					Cox Green	None.		N	H	F
Culcheth	Y	H	L	11	Risley	Implement Generation Procedure N18 (CP 608 S6) Field Engineer to contact Silver Lane Generation 24 hours before to arrange reduction in export (contact details held at DSMC).		Y	H	L
					Bedford	See Bedford		Y	-	L
Cutacre	Y	-	F	11	Little Hulton	At Cutacre :- Open T12 11kV CB. At Little Hulton, Open AB Bus Section CB.		N	-	L
					Westhoughton	At Cutacre :- Open T12 11kV CB. At Westhoughton , Open AB Bus Section CB.		N	H	L
Dumers Lane	Y	H	L	11	Moss Lane	At Dumers Ln:- Open Bury ETW/Melton Dr/N Pilsworth Rd CB and A-B Bus Sect CB. For parallels via Bradley Dr S/S -Remove trip links on the Bury Sen Sch Parr Ln OCB at Bradley Drive		Y	H	L
					Bury Town Centre	See Bury Town Centre		Y	H	L
					Chamberhall	See Chamberhall		Y	-	L
					Radcliffe	At Dumers Ln:- Open AB Bus Section and Sewage Wks CB		Y	-	F
Farnworth	Y	-	L	11	Campbell St	See Campbell St		Y	H	L
					Hill Top Section A/B	Open AB Bus Section at both Primaries. At Hill Top switch out Auto Close on BC Bus Section CB.		N	H	L
					Little Hulton	Open AB Bus Section at Farnworth.		N	-	L
					Ringley	Open AB Bus Section at Ringley.		Y	-	L
Gidlow	N	H	L	6.6	Standish	Open AB Bus Section at Gidlow		Y	H	L
					Green St Section A	See Green St Section A		Y	-	L
					Green St Section B or C	Open AB Bus Section at Gidlow		Y	-	L
Golborne	Y	-	L	11	Kirkhall Lane	Open AB Bus Section at both Primaries.		Y	H	L
					Bedford	See Bedford		Y	-	L
					Haydock	None.		Y	-	L
					Hindley Green	None.		Y	H	F
					Newton Le Willows	None.		N	H	L
Green St Section A (Actions to be determined by Control Engineer at time of parallel, primary transformer loadings may require amends to sw prog)	Y	-	L	6.6	Gidlow	At Green St:-switch out auto close on AB Bus Section CB, At Gidlow Open AB Bus Section CB.		N	H	L
					Kitt Green	At Green St:-switch out auto close on AB Bus Section CB, At Kitt Green Open T11 6.6kV CB.		N	H	L
					Worsley Mesnes	At Green St Pry:- Switch out auto close on AB Bus Section 6.6kV CB, At Worsley Mesnes: Open T12 6.6kV CB.		Y	H	F
					Lamberhead	At Green St Pry:-switch out auto close on AB Bus Section CB, At Lamberhead Open AB Bus Section CB.		N	-	L
					Green St Section B	At Green St:-switch out auto close on AB Bus Section CB, Open BC Bus Section CB.		Y	-	L
					Green St Section C	At Green St:-switch out auto close on AB Bus Section CB, Open BC Bus Section CB		Y	-	L
Green St Section B/C	Y	-	L	6.6	Lamberhead	Open AB Bus Section at Lamberhead.		N	-	L
					Gidlow	Open AB Bus Section at Gidlow.		N	H	L
					Worsley Mesnes	Open AB Bus Section at Worsley Mesnes.		Y	H	F

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Harwood	Y	H	L	11	Holt St	Open AB Bus Section at both Primaries	Y	H	L
					Woolfold	Open AB Bus Section at Woolfold. Open AB Bus Section at Harwood	Y	-	L
					Cox Green	See Cox Green	N	H	F
					Radcliffe	None	Y	-	F
Haydock	Y	-	L	11	Golborne	See Golborne	Y	-	L
					Newton Le Willows	Field Engineer to contact Lyme Wood Generation requesting shutdown of generators at Lyme Wood Generation S/S and Lyme Wood Generation No.3 S/S for duration of parallel (if possible, this should be requested 24 hours before to allow the staff at Lyme Wood to arrange on site attendance, contact details held at DSMC).	N	H	L
Heady Hill	Y	H	L	6.6	Bury Town Centre	See Bury Town Centre	Y	H	L
					Heywood	Open AB Bus Section at both Primaries.	Y	-	L
					Chamberhall	See Chamberhall	Y	-	L
					Heap Bridge	Open AB Bus Section at Heady Hill and Field Engineer to contact Pilsworth Generation requesting export reduction to 1.1mVA (if possible, this should be requested 24 hours before to allow the staff at Pilsworth to arrange on site attendance, contact details held at DSMC).	Y	-	L
Heap Bridge	Y	-	L	6.6	Bury Town Centre	See Bury Town Centre	Y	H	L
					Chamberhall	See Chamberhall	Y	-	L
					Heady Hill	See Heady Hill	Y	H	L
					Heywood	At Heywood Pry Open T11 CB. Field Engineer to contact Pilsworth Generation requesting export reduction to 1.1mVA (if possible, this should be requested 24 hours before to allow the staff at Pilsworth to arrange on site attendance, contact details held at DSMC).	Y	-	L
Heywood	Y	-	L	6.6	Heady Hill	See Heady Hill	Y	H	L
					Heap Bridge	See Heap Bridge	Y	-	L
					Chamberhall	See Chamberhall	Y	-	L
					Rochdale Central	Open AB Bus Section at Heywood.	Y	H	F
Hill Top Section A/B	N	H	L	11	Little Hulton	At Little Hulton, open AB Bus Section. At Hill Top, open AB Bus Section and switch out Auto Close on BC Bus Section CB.	N	-	L
					Atherton TC	See Atherton TC	Y	-	L
					Carr St	See Carr St	N	H	L
					Farnworth	See Farnworth	Y	-	L
					Swinton	At Hill Top, Open AB Bus Section CB and switch out Auto Close on BC Bus Section CB. At Swinton, Open AB Bus Section CB.	Y	-	L
					Hill Top Section C	At Hill Top, switch out Auto Close on BC Bus Section CB.	N	H	L
Hill Top Section C	N	H	L	11	Bedford	See Bedford	Y	-	L
					Atherton TC	See Atherton Town Centre	Y	-	L
					Hill Top Section A/B	See Hill Top Section A/B	N	H	L
					Little Hulton	At Little Hulton, open AB Bus Section. At Hill Top switch out Auto Close on BC Bus Section CB. For further Operations refer to COP606 Proc S44.	N	-	L
Hindley Green	Y	H	F	11	Kirkhall Lane	Open AB Bus Section at Hindley Green, Open AB Bus Section at Kirkhall Lane. .	Y	H	L
					Atherton TC	See Atherton TC	Y	-	L
					Golborne	See Golborne	Y	-	L
					Westhoughton	None.	N	H	L
Holt St	Y	H	L	11	Stubbins	Open AB Bus Section at Holt St. caution required when Grid system abnormal 2x Switchers required (May be worth Opening 11kV B/S cb to equalise % TX loading).	Y	H	L
					Harwood	Open AB Bus Section at both Primaries	Y	H	L
					Woolfold	Open AB Bus Section at Woolfold. Open AB Bus Section at Holt St	Y	-	L
					Cox Green	None	N	H	F
Kirkhall Lane	Y	H	L	11	Atherton TC	See Atherton TC	Y	-	L
					Bedford	See Bedford	Y	-	L
					Golborne	See Golborne	Y	-	L
					Hindley Green	See Hindley Green	Y	H	F
					Leigh	None.	Y	-	L
Kitt Green	N	H	L	6.6	Green St Section A	See Green St Section A	Y	-	L
					Lamberhead	Open T11 6.6kV CB at both Primaries.	N	-	L

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Lamberhead	N	-	L	6.6	Kitt Green	See Kitt Green		N	H	L
					Green St Section A	See Green St Section A		Y		L
					Green St Sections B/C	See Green St Section B/C		Y		L
					Worsley Mesnes	Open T12 6.6kV CB at Worsley Mesnes.		Y	H	F
					Ashton	See Ashton		Y		L
Leigh	Y	-	F	11	Bedford	None.		Y		L
					Kirkhall Lane	See Kirkhall Ln		Y	H	L
Little Hulton	N	-	L	11	Campbell St	See Campbell St		Y	H	L
					Cutacre	See Cutacre		Y	-	F
					Atherton TC	See Atherton TC		Y	-	L
					Farnworth	See Farnworth		Y	-	L
					Hill Top Section A/B	See Hill Top Section A/B		N	H	L
					Hill Top Section C	See Hill Top Section C		N	H	L
Westhoughton	Open T11 CB at Little Hulton	N	H	L						
Lostock	Y	-	L	11	Chorley South	See Chorley South		Y	-	L
					Crown Lane	See Crown Lane		Y	-	F
					Westhoughton	None		N	H	L
					Cox Green	See Cox Green		N	H	F
Moss Lane	Y	H	L	11	Dumers Lane	See Dumers Lane.		Y	H	L
Musgrave Rd	Y	-	L	6.6	Radcliffe	None		Y	-	F
					Spa Rd	Open King St Sth CB at Spa Rd		N	-	F
						Open AA Bus Section at Spa Rd				
						Open BB Bus Section at Spa Rd				
						Open AB Bus Section at Musgrave Rd.				
Wordsworth St	Open AB Bus Section at both Primaries.		N	-	L					
Newton Le Willows	N	H	L	11	Golborne	See Golborne		Y	-	L
					Haydock	See Haydock		Y	-	L
Pimbo	Y	H	L	11	Upholland	Open AB Bus Section at Upholland		Y	H	L
					Skelmersdale	Open AB Bus Section at Skelmersdale. Open T11 11kV CB at Pimbo.		Y	H	L
					Willow Hey	Open T11 11kV CB at Pimbo		N	H	L
Radcliffe	Y	-	F	11	Clifton Junction	See Clifton Junction		N	H	L
					Dumers Lane	See Dumers Lane.		Y	H	L
					Moss Lane	See Moss Lane		Y	H	L
					Ringley	None		Y	-	L
					Woolfold	None		Y	-	L
					Harwood	See Harwood		Y	H	L
Ringley	Y	-	L	11	Farnworth	See Farnworth		Y	-	L
					Radcliffe	See Radcliffe		Y	-	F
Risley	Y	H	L	11	Culcheth	See Culcheth		Y	H	L
Skelmersdale	Y	H	L	11	Willow Hey	None		N	H	L
					Pimbo	See Pimbo		Y	H	L
					Ormskirk	None		Y	-	L
					Burscough Bridge	None		Y	H	L
					Wrightington	None		Y	H	L
Spa Road	N	-	F	6.6	Barbara St	See Barbara St		N	-	L
					Bradshawgate	See Bradshawgate		Y	-	L
					Campbell St	See Campbell St		Y	H	L
					Musgrave Rd	See Musgrave Rd		Y	-	L
	N	-	F	6.6	Union Rd	Open King St Sth CB at Spa Rd		N	-	L
						Open AA Bus Section at Spa Rd				
						Open BB Bus Section at Spa Rd				
						Open AB Bus Section at Union Rd.				
					Wordsworth St	Open King St Sth CB at Spa Rd				
	Open AA Bus Section at Spa Rd									
	Open BB Bus Section at Spa Rd									
	Open AB Bus Section at Wordsworth St.									
Standish	Y	H	L	11	Upholland	None		Y	H	L
					Wrightington	None		Y	H	L
					Gidlow	Open AB Bus Section at Gidlow		N	H	L

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Stubbins	Y	H	L	11	Holt St	See Holt St		Y	H	L
Swinton	Y	-	L	11	Carr St	Open AB Bus Section at both Primaries		N	H	L
					Clifton Junction	See Clifton Junction		N	H	L
					Hill Top Section A	See Hill Top Section AB		N	H	L
Union Rd	N	-	L	6.6	Bradshawgate	See Bradshawgate		Y	-	L
					Spa Rd	See Spa Rd		N	-	F
					Wordsworth St	Open AB Bus Section at both Primaries.		N	-	L
Upholland	Y	H	L	11	Pimbo	Open AB Bus Section at Upholland		Y	H	L
					Wrightington	Open AB Bus Section at both Primaries.		Y	H	L
					Standish	See Standish		Y	H	L
Westhoughton	N	H	L	11	Atherton TC	See Atherton TC		Y	-	L
					Crown Lane	See Crown Lane		Y	-	F
					Cutacre	See Cutacre		N	-	F
					Hindley Green	See Hindley Green		Y	H	F
					Little Hulton	See Little Hulton		N	-	L
					Lostock	See Lostock		Y	-	L
Willow Hey	N	H	L	11	Pimbo	See Pimbo		Y	H	L
					Skelmersdale	See Skelmersdale		Y	H	L
					Ormskirk	See Ormskirk		Y	-	L
Woolfold	Y	-	L	11	Harwood	See Harwood		Y	H	L
					Holt St	See Holt Street		Y	H	L
					Radcliffe	See Radcliffe		Y	-	F
Wordsworth St	N	-	L	6.6	Union Rd	See Union Rd		N	-	L
					Musgrave Rd	See Musgrave Rd		Y	-	L
					Spa Rd	See Spa Rd		N	-	F
Worsley Mesnes	Y	H	F	6.6	Green St Section A	See Green St Section A		Y	-	L
					Green St Section B/C	See Green St Section B/C		Y	-	L
					Lamberhead	See Lamberhead		N	-	L
					Ashton	See Ashton		Y	-	L
Wrightington (Preston Zone)	Y	H	L	11	Crown Lane	See Crown Lane		Y	-	L
					Upholland	See Upholland		N	H	L
					Standish	See Standish		Y	H	L