

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 ?
AMBLESIDE	N	H	L	11	Coniston	No Action		N	H	F
					Haverthwaite	No Action		N	-	F
					Windermere	No Action		N	-	L
ARNSIDE	Y	-	L	11	Bolton Le Sands	No Action		N	-	L
					Kirkby Lonsdale	No Action		N	-	L
					Whasset	No Action		Y	-	L
					Yealand	No Action		N	-	F
ASKAM / DALTON (Check 11kV Interconnection)	Y	H	F	11	Barrow Devonshire Rd	Open Barrow Devonshire Rd T12 11kV CB.		Y	-	L
					Bowaters	Open Askam T11 11kV CB.		N	H	F
					Carleton	No Action		Y	-	F
					Coniston	No Action		N	H	F
					Dalton	No Action		Y	H	F
					Grange	No Action		N	H	F
					Kirkby Moor	No Action		Y	-	L
					Ulverston	No Action		N	-	L
					Sandgate	No Action		Y	-	L
BARROW – DEVONSHIRE RD	Y	-	L	11	Askam	See Askam/Dalton		Y	H	F
					Bowaters	Open Barrow Devonshire Rd T12 11kV CB		N	H	F
					Chatsworth St	Open Barrow Devonshire Rd T12 11kV CB Open Chatsworth St 11kV AB Bus Section CB.		N	-	L
					Dalton	Open Barrow Devonshire Rd T12 11kV CB.		Y	H	F
					Sandgate	Open Barrow Devonshire Rd T12 11kV CB.		Y	-	L
BENTHAM	N	H	F	11	Flat Lane	No Action		N	-	F
					Helwith Bridge	No Action		Y	-	F
					Ingleton	No Action		Y	-	F
					Settle	No Action		N	-	F
BOLTON LE SANDS	N	-	L	11	Arnside	See Arnside		Y	-	L
					Kirkby Lonsdale	No Action		N	-	L
					Lancaster	No Action		Y	-	L
					Whasset	No Action		Y	-	L
					Yealand	No Action		N	-	F
BOWATERS	N	H	F	11	Askam/Dalton	See Askam/Dalton		Y	H	F
					Barrow Devonshire Rd	Open Barrow Devonshire Rd T12 11kV CB.		Y	-	L
BROADWAY	N	-	L	6.6	Westgate	Open Broadway AB 6.6kV Bus section CB , Open Westgate 6.6kV Bus Section CB and Fanny House Sw Stn Feeder B 6.6kV CB		N	-	L
					Woodhill Lane	No Action		N	H	F
BURROW BECK	N	-	L	11	Garstang	Via auto transformer.		Y	-	L
					Lancaster	No Action		Y	-	L
					Spring Garden St	No Action		N	H	L
CARLETON (N Lakes)	Y	-	F	11	Askam/Dalton	See Askam/Dalton		Y	H	F
CATTERALL WW	Y	H	F	6.6	Garstang	No Action		N	-	F
					Moorside	Open Moorside 6.6kV AB Bus section cb		Y	H	L
CHATSWORTH ST	N	-	L	6.6	Barrow Devonshire Rd	See Barrow Devonshire Rd		Y	-	L
					Sandgate	Open Chatsworth St 11kV Bus section cb.		H	-	L
CLAUGHTON	Y	-	F	11	Kirkby Lonsdale	No Action		N	-	L
					Lancaster	No Action		Y	-	L
					Melling	No Action		Y	-	F
CONISTON	N	H	F	11	Ambleside	See Ambleside		N	H	L
					Askam / Dalton	See Askam/Dalton		Y	H	F
					Haverthwaite	No Action		N	-	F
					Kirkby Moor	No Action		Y	-	L
					Windermere	No Action		N	-	L

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DALTON / ASKAM (Check 11kV Interconnection)	Y	H	F	11	Askam	See Askam		Y	H	F
					Barrow Devonshire Rd	See Barrow Devonshire Rd		Y	-	L
					Bowaters	See Bowaters		N	H	F
					Carleton (N Lakes)	See Askam/Dalton		Y	-	F
					Coniston	See Askam/Dalton		N	H	F
					Grange	No Action		N	H	F
					Kirkby Moor	No Action		Y	-	L
					Ulverston	No Action		N	-	L
					Sandgate	No Action		Y	-	L
FLAT LANE	N	-	F	11	Bentham	See Bentham		N	H	F
					Settle	No Action		N	-	F
GARSTANG	Y	-	F	6.6	Burrowbeck	See Burrowbeck		N	-	L
					Catterall WW	See Catterall WW		Y	H	F
					Moorside	Open Moorside 6.6kV AB bus section cb		Y	-	L
					Preesall	auto transformer		Y	-	L
GLAXO	N	H	F	11	Ulverston	No Action		N	-	L
GRANGE	N	H	F	11	Askam	See Askam		Y	H	F
					Haverthwaite	No Action		N	-	F
					Ulverston	No Action		N	-	L
					Whasset	No Action		Y	-	L
					Windermere	No Action		N	-	L
HAVERTHWAITE	N	-	F	11	Ambleside	See Ambleside		N	H	L
					Coniston	See Coniston		N	H	F
					Grange	See Grange		N	H	F
					Windermere	No Action		N	-	L
					Ulverston	No Action		N	-	L
HELWITH BRIDGE	Y	-	F	11	Bentham	No Action		N	H	F
					Ingleton	No Action		Y	-	F
					Settle	No Action		N	-	F
INGLETON	Y	-	F	11	Bentham	No Action		Y	-	F
					Helwith Bridge	See Helwith Bridge		Y	-	F
KENDAL – PARKSIDE RD	N	H	L	11	Kirkby Lonsdale	Open Kendal Parkside Rd T11 11kV CB		N	-	L
					Mintsfeet	Open Parkside Rd AB Bus Section 11kV CB , Open Mintsfeet T12 11kV CB (Refer to DSM02). Note When parallel is made via either Hollin Bank ABS or Bulman Strands ABS no action is required.		Y	H	L
					Sedbergh	No Action		N	-	F
					Whasset	No Action		Y	-	L
					Windermere	No Action		N	-	L
KIRKBY LONSDALE	N	-	L	11	Arnside	See Arnside		Y	-	L
					Bolton Le Sands	No Action		N	-	L
					Cloughton	See Cloughton		Y	-	F
					Kendal Parkside Rd	See Kendal Parkside Rd		N	H	L
					Lancaster	No Action		Y	H	L
					Melling	No Action		Y	-	F
					Sedbergh	No Action		N	-	F
					Whasset	No Action		Y	-	L
					Yealand	No Action		N	-	F
KIRKBY MOOR	Y	-	L	11	Askam	See Askam		Y	H	F
					Coniston	See Coniston		N	H	F
					Ulverston	No Action		N	-	L
KIRKBY STEPHEN (North Lakes)	Y	-	L	11	Sedbergh	No Action		Y	-	F
LANCASTER	Y	H	L	11	Bolton Le Sands	See Bolton Le Sands		N	-	L
					Burrowbeck	See Burrowbeck		N	-	L
					Cloughton	See Cloughton		Y	-	F
					Kirkby Lonsdale	See Kirkby Lonsdale		N	-	L
					Melling	No Action		Y	-	F
					Spring Garden St	No Action		N	-	L
MELLING	Y	-	F	11	Cloughton	See Cloughton		Y	-	F
					Kirkby Lonsdale	Kirkby Lonsdale		N	-	L
					Lancaster	See Lancaster		Y	-	L

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MINTSFEEET	Y	H	L	11	Kendal Parkside Rd	See Kendal Parkside Rd		N	H	L
					Sedbergh	No Action		N	-	F
					Windermere	No Action		N	-	L
MOORSIDE	Y	-	L	7	Catterall WW	See Catterall WW		Y	H	F
					Garstang	See Garstang		Y	-	F
					Preesall	Open Moorside AB 6.6kV Bus section CB		Y	-	L
NEWBIGGIN ON LUNE (N Lakes)	Y	-	L	11	Sedbergh	No Action		N	-	F
PREESALL	Y	-	L	11	Garstang	See Garstang		Y	-	F
					Moorside	See Moorside		Y	-	L
SANDGATE	Y	-	L	11	Barrow Devonshire Rd	See Barrow Devonshire Rd		Y	-	L
					Chatsworth St	See Chatsworth St		N	-	L
					Dalton	See Dalton		Y	H	F
SEDBERGH	N	-	F	11	Kendal Parkside Rd	See Kendal Parkside Rd		N	H	L
					Kirkby Stephen (N Lakes)	See Kirkby Stephen		Y	-	L
					Kirkby Lonsdale	See Kirkby Lonsdale		N	-	L
					Mintsfeet	See Mintsfeet		Y	H	L
					New Biggin on Lune (N Lakes)	See New Biggin on Lune		Y	-	F
					Selsmere	No Action		Y	H	L
					Shap	No Action		Y	H	F
					Whasset	No Action		Y	-	L
					Windermere	No Action		N	-	L
SETTLE	N	-	F	11	Bentham	See Bentham		N	H	F
					Flat Lane	See Flat Lane		N	-	F
					Helwith Bridge	See Helwith Bridge		Y	-	F
SPRING GARDEN ST	Y	-	L	11	Burrowbeck	See Burrowbeck		N	-	F
					Lancaster	See Lancaster		Y	H	L
					Spring Garden St 6.6	Via auto transformer.		H	H	L
TRIMPELL 132kV	N	-	F	132	Westgate	Will not parallel 60 degree shift Refer to Operational Procedure No 37 and Operational limitation No N7		N	-	L
ULVERSTON	N	-	L	11	Askam	See Askam		Y	H	F
					Dalton	See Dalton		Y	H	F
					Glaxo	See Glaxo		N	H	F
					Grange	See Grange		N	H	F
					Haverthwaite	See Haverthwaite		N	-	F
					Kirkby Moor	See Kirkby Moor		Y	-	L
WESTGATE	N	-	L	6.6	Broadway	Open Broadway AB 6.6kV Bus section CB , Open Westgate 6.6kV Bus Section CB and Fanny House Sw Stn Feeder B 6.6kV CB		N	-	L
					Trimpell	See Trimpell		N	-	F
					Woodhill Ln	No Action		N	-	F
WHASSET	Y	-	L	11	Arnside	See Arnside		Y	-	L
					Bolton Le Sands	See Bolton Le Sands		N	-	L
					Grange	See Grange		N	H	F
					Kendal Parkside Rd	See Kendal Parkside Rd		N	H	L
					Kirkby Lonsdale	See Kirkby Lonsdale		N	-	L
					Yealand	No Action		N	-	F
WINDERMERE	N	-	L	11	Ambleside	See Ambleside		N	H	L
					Coniston	See Coniston		N	H	F
					Grange	See Grange		N	H	F
					Haverthwaite	See Haverthwaite		N	-	F
					Kendal Parkside Rd	See Kendal Parkside Rd		N	H	L
					Mintsfeet	See Mintsfeet		Y	H	L
WOODHILL LN	N	H	F	11	Broadway	See Broadway		N	-	L
					Westgate	See Westgate		N	-	L
YEALAND	N	-	F	11	Arnside	See Arnside		N	-	L
					Bolton Le Sands	See Bolton Le Sands		N	-	L
					Kirkby Lonsdale	See Kirkby Lonsdale		N	-	L