

Minimum technical & operational standards under regulation 55H of the *Electricity* (General) Regulations 2012



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### **Acknowledgement of Country**

The Department for Energy and Mining acknowledges Aboriginal people as the First Nations Peoples of South Australia. We recognise and respect the cultural connections as the traditional owners and occupants of the land and waters of South Australia, and that they continue to make a unique and irreplaceable contribution to the state.

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### 1 Document approval and control

Table 1: Document control

| Version         | 1.0         |
|-----------------|-------------|
| Date            | 21 Dec 2021 |
| Status          | Approved    |
| Confidentiality | Public      |

### 2 Regulatory context

Under regulation 55H of the *Electricity (General) Regulations 2012* the Technical Regulator may prepare and publish technical and operational standards that must be applied so that electricity infrastructure and electrical installations are installed, maintained, and operated in a manner that facilitates the taking of effective emergency action.

This document constitutes emergency standards under the regulations, as applicable to the relevant entity listed in Appendix 1 of this document.

### 3 Background

South Australia continues to experience significant increases in the amount and extent of distributed energy resources being connected to the electricity system.

Unless addressed, these significant increases in distributed energy resources will result in two distinct security of supply issues (which will adversely affect the standard of delivery of services by the distribution network in South Australia).

One issue arises because of high electricity exports at low net system load times. When this occurs, distributed energy resources may need to be disconnected within a very short timeframe to maintain a minimum operational demand on the system, in order to maintain a secure system.

The second issue occurs when under frequency load shedding is required to operate in an emergency. To ensure the effective operation of under frequency load shedding, those circuits where there is a net export of power must not be disconnected in an underfrequency event.

These emergency standards impose obligations on the relevant entity to address these two issues.

### 4 Technical standard - Voltage management

The Technical Regulator requires the relevant entity to implement and maintain a scheme of last resort which enables the effective curtailment of distributed energy resources via management of distribution network voltage levels. This scheme of last resort must be available to automatically control network voltages within the electricity infrastructure and/or electrical installations listed in Appendix 2 of this document.

### 5 Technical standard – Under frequency load shedding (dynamic arming)

The Technical Regulator requires the relevant entity to amend or install relays within the electricity infrastructure and/or electrical installations listed in Appendix 3 of this document to have the following characteristics:

- The relays must be able to measure the network system frequency; and
- The relays must have the ability to measure the direction of power flow with a minimum sampling rate of not less than one measurement every 5 minutes; and
- The relays must be programmable such that they will only automatically disconnect a circuit in an under frequency event, if the circuit is a net load to the system.

# 6 Technical standard – Under frequency load shedding (inaugural installation)

The Technical Regulator requires the relevant entity to amend or install relays within the electricity infrastructure and/or electrical installations listed in Appendix 4 of this document to have the following characteristics:

- The relays must be able to measure the network system frequency; and
- The relays must disconnect feeders at such frequency as determined in consultation between the relevant entity, the Technical Regulator and the Australian Energy Market Operator.

# 7 Activities commenced or completed prior to commencement of these emergency standards

For the purposes of regulation 55H(2)(c) of the *Electricity (General) Regulations 2012*, the Technical Regulator has determined that all activities already commenced or completed by the relevant entity prior to the commencement of these emergency standards that are consistent with the requirements of Section 4 of this document and Appendix 2, or Section 5 of this document and Appendix 3, or Section 6 of this document and Appendix 4:

- Comply with these emergency standards; and
- Were undertaken solely for the purpose of compliance with these emergency standards; and
- Will be taken to have been, and will be treated as having been, undertaken after the commencement of these emergency standards.

### 8 Appendix 1 – Relevant entities

For the purpose of these emergency standards, SA Power Networks (ABN 13 332 330 749) is the relevant entity.

# 9 Appendix 2 – Network locations – Voltage management

Table 4: Substations with enhanced voltage management capabilities

| SUBSTATION           |                    |                     |
|----------------------|--------------------|---------------------|
| Aldgate              | Holden Hill        | Paralowie           |
| Aldinga              | Hope Valley        | Paringa 11kV        |
| Allendale East       | Ingle Farm         | Penfield            |
| Angaston             | Kadina             | Plympton            |
| Angle Vale           | Keith 11kV         | Port Adelaide       |
| Ascot Park           | Kent Town          | Port Adelaide North |
| Athol Park           | Keswick            | Port Augusta        |
| Berri                | Kilburn            | Port Augusta West   |
| Blackpool            | Kilburn South      | Port Lincoln City   |
| Blackwood            | Kilkenny           | Port Lincoln Marina |
| Bordertown           | Kingscote          | Port Noarlunga      |
| Burnside             | Kingswood          | Port Pirie South    |
| Campbelltown         | Langhorne Creek    | Port Stanvac        |
| Cavan                | Largs North        | Prospect            |
| Ceduna               | Linden Park        | Pyap                |
| Cheltenham           | Lobethal           | Queenstown          |
| Clare                | Loveday            | Renmark             |
| Clarence Gardens     | Lower Mitcham      | Roonka              |
| Clarendon            | Loxton             | Salisbury           |
| Clearview            | Lyrup              | Seacombe            |
| Cleve 11kV           | Maitland           | Seaford             |
| Coonawarra           | McLaren Flat       | Sheidow Park        |
| Croydon              | Meadows            | Smithfield West     |
| Croydon Park         | Milang             | Square Water Hole   |
| Cudmore Park         | Millicent          | Stirling East       |
| Direk                | Monarto South      | Stockwell           |
| Dorrien Distribution | Moonta             | Strathalbyn         |
|                      | Morphett Vale East | Streaky Bay         |

|                           | SUBSTATION                |                |
|---------------------------|---------------------------|----------------|
| Elizabeth Downs           | Morphettville             | Tea Tree Gully |
| Elizabeth Heights         | Mount Barker Distribution | Thebarton      |
| Elizabeth South           | Mount Gambier 11kV        | Tonsley Park   |
| Evanston                  | Mount Gambier North       | Two Wells      |
| Findon                    | Mount Gambier West        | Uraidla        |
| Flinders Park             | Murray Bridge North       | Victor Harbor  |
| Fulham Gardens            | Murray Bridge South       | Virginia       |
| Gawler Belt               | Myponga                   | Waikerie       |
| Glanville                 | Naracoorte                | Wallaroo       |
| Glenelg North             | New Richmond              | Whyalla City   |
| Glossop                   | Noarlunga Centre          | Whyalla Stuart |
| Golden Grove              | North Adelaide            | Willunga       |
| Goolwa                    | North Unley               | Woodforde      |
| Hackham                   | Northfield                | Woodside       |
| Hahndorf                  | Norwood                   | Woodville 11kV |
| Happy Valley Distribution | Nuriootpa                 | Yankalilla     |
| Harrow                    | Oaklands                  |                |
| Henley South              | Panorama                  |                |
| Hillcrest                 | Parafield Gardens         |                |

# 10 Appendix 3 – Network locations for dynamic under frequency load shedding

The relevant entity must amend or install relays in accordance with Section 5 of this document at the following locations:#

| SUBSTATION NAME | FEEDER NAME     | DYNAMIC ARMING LEVEL |
|-----------------|-----------------|----------------------|
| Aldinga         | Aldinga Beach   | Feeder Level         |
| Aldinga         | Maslin Beach    | Feeder Level         |
| Aldinga         | Sellicks Beach  | Feeder Level         |
| Aldinga         | Willunga West   | Feeder Level         |
| Angas Creek     | Gumeracha       | Line Level           |
| Angas Creek     | Tungkillo       | Line Level           |
| Angle Vale      | Angle Vale      | Feeder Level         |
| Angle Vale      | Curtis Road     | Feeder Level         |
| Angle Vale      | Taylors Road    | Feeder Level         |
| Angle Vale      | Virginia        | Feeder Level         |
| Angle Vale      | Virginia Blocks | Feeder Level         |
|                 |                 |                      |

| SUBSTATION NAME             | FEEDER NAME      | DYNAMIC ARMING LEVEL |
|-----------------------------|------------------|----------------------|
| Ardrossan West Distribution | Ardrossan        | Line Level           |
| Ardrossan West Distribution | Maitland         | Line Level           |
| Ardrossan West Distribution | Port Vincent     | Line Level           |
| Ascot Park                  | Edgeworth Street | Bus Level            |
| Ascot Park                  | Harcourt Gardens | Bus Level            |
| Ascot Park                  | Nilpena Avenue   | Bus Level            |
| Ascot Park                  | Parkholme        | Bus Level            |
| Ascot Park                  | Sixth Avenue     | Bus Level            |
| Ascot Park                  | Vermont          | Feeder Level         |
| Athol Park                  | Athol Park       | Feeder Level         |
| Athol Park                  | Mansfield Park   | Feeder Level         |
| Athol Park                  | Pennington       | Bus Level            |
| Athol Park                  | Wingfield        | Bus Level            |
| Baroota                     | Murraytown       | Line Level           |
| Barossa South               | Barossa South    | Feeder Level         |
| Barossa South               | Rowland Flat     | Feeder Level         |
| Berri                       | Berri            | Bus Level            |
| Berri                       | Berri Cannery    | Bus Level            |
| Berri                       | Berri East       | Bus Level            |
| Berri                       | Berri West       | Bus Level            |
| Berri                       | Glossop          | Line Level           |
| Berri                       | Loxton           | Line Level           |
| Berri                       | Renmark          | Line Level           |
| Birdwood                    | Birdwood         | Feeder Level         |
| Birdwood                    | Birdwood         | Feeder Level         |
| Blackpool                   | North Haven      | Feeder Level         |
| Blackpool                   | Osborne          | Feeder Level         |
| Blackpool                   | Pelican Point    | Feeder Level         |
| Blackpool                   | Taperoo          | Feeder Level         |
| Blackwood                   | Brighton Parade  | Feeder Level         |
| Blackwood                   | Coromandel       | Feeder Level         |
| Blackwood                   | Eden             | Feeder Level         |
| Blackwood                   | Glenalta         | Feeder Level         |
| Blackwood                   | Sun Valley       | Feeder Level         |
| Brinkworth                  | Blyth            | Bus Level            |
| Brinkworth                  | Collinsfield     | Bus Level            |
| Brinkworth                  | Gladstone        | Bus Level            |
|                             |                  |                      |

| SUBSTATION NAME | FEEDER NAME                       | DYNAMIC ARMING LEVEL |
|-----------------|-----------------------------------|----------------------|
| Bungama         | Gladstone                         | Line Level           |
| Bungama         | Murraytown                        | Line Level           |
| Bungama         | Port Broughton - Crystal<br>Brook | Line Level           |
| Burnside        | Burnside                          | Feeder Level         |
| Burnside        | Erindale                          | Feeder Level         |
| Burnside        | Hazelwood Park                    | Feeder Level         |
| Burnside        | Stonyfell                         | Feeder Level         |
| Cadell          | Cadell                            | Feeder Level         |
| Campbelltown    | Athelstone                        | Feeder Level         |
| Campbelltown    | Clairville                        | Feeder Level         |
| Campbelltown    | Darley Road                       | Feeder Level         |
| Campbelltown    | Felixstow                         | Feeder Level         |
| Campbelltown    | Fourth Creek                      | Feeder Level         |
| Campbelltown    | Montacute                         | Feeder Level         |
| Campbelltown    | Newton                            | Feeder Level         |
| Campbelltown    | Paradise                          | Feeder Level         |
| Cape Jervis     | Penneshaw                         | Line Level           |
| Cavan           | Cavan                             | Feeder Level         |
| Cavan           | Churchill                         | Feeder Level         |
| Cavan           | Goldsborough                      | Feeder Level         |
| Cavan           | Market                            | Feeder Level         |
| Cavan           | Mawson Lakes                      | Feeder Level         |
| Cavan           | Mawson Lakes West                 | Feeder Level         |
| Cavan           | Parkway                           | Feeder Level         |
| Cavan           | Pooraka South                     | Feeder Level         |
| Cavan           | Technology Park                   | Feeder Level         |
| Ceduna          | Ceduna                            | Feeder Level         |
| Ceduna          | Kongwirra                         | Feeder Level         |
| Ceduna          | Thevenard                         | Feeder Level         |
| Cheltenham      | Addison Rd                        | Feeder Level         |
| Cheltenham      | St Clair                          | Feeder Level         |
| Cheltenham      | Torrens Road                      | Feeder Level         |
| Clare           | Burra                             | Line Level           |
| Clare           | Clare                             | Bus Level            |
| Clare           | Farrell Flat                      | Bus Level            |
| Clare           | North Clare                       | Bus Level            |

| SUBSTATION NAME      | FEEDER NAME      | DYNAMIC ARMING LEVEL |
|----------------------|------------------|----------------------|
| Clare                | Penwortham       | Bus Level            |
| Clarence Gardens     | Blackforest      | Feeder Level         |
| Clarence Gardens     | Cabra            | Feeder Level         |
| Clarence Gardens     | Edwardstown      | Feeder Level         |
| Clarence Gardens     | Hammersmith      | Feeder Level         |
| Clarence Gardens     | Hills Industries | Feeder Level         |
| Clarendon            | Clarendon North  | Bus Level            |
| Clarendon            | Kangarilla       | Bus Level            |
| Clearview            | Blair Athol      | Feeder Level         |
| Clearview            | Clearview        | Feeder Level         |
| Clearview            | Enfield          | Feeder Level         |
| Clearview            | Greenacres       | Feeder Level         |
| Cleve                | Cowell           | Line Level           |
| Cleve                | Ticklebelly Hill | Feeder Level         |
| Croydon Park         | Challa Gardens   | Bus Level            |
| Croydon Park         | Days Road        | Feeder Level         |
| Croydon Park         | Devon Park       | Feeder Level         |
| Croydon Park         | Ferryden Park    | Feeder Level         |
| Croydon Park         | Gelland          | Bus Level            |
| Crystal Brook        | Crystal Brook    | Feeder Level         |
| Cudmore Park         | Ackland Gardens  | Bus Level            |
| Cudmore Park         | Bridgestone      | Bus Level            |
| Cudmore Park         | Daw Park         | Bus Level            |
| Cudmore Park         | St Marys         | Feeder Level         |
| Cudmore Park         | Woodlands Park   | Feeder Level         |
| Dalrymple            | Marion Bay       | Line Level           |
| Dalrymple            | Stansbury        | Line Level           |
| Davenport West       | Quorn            | Line Level           |
| Direk                | Coles Myer       | Feeder Level         |
| Direk                | Diment           | Feeder Level         |
| Direk                | Inghams No 1     | Feeder Level         |
| Direk                | Inghams No 2     | Feeder Level         |
| Direk                | Sturton North    | Feeder Level         |
| Direk                | Sturton South    | Feeder Level         |
| Direk                | Vicinity         | Feeder Level         |
| Direk                | Wyatt            | Feeder Level         |
| Dorrien Distribution | Barossa South    | Line Level           |
|                      |                  |                      |

| SUBSTATION NAME      | FEEDER NAME           | DYNAMIC ARMING LEVEL |
|----------------------|-----------------------|----------------------|
| Dorrien Distribution | Langmeil              | Feeder Level         |
| Dorrien Distribution | Nuriootpa             | Line Level           |
| Dorrien Distribution | Seppeltsfield         | Feeder Level         |
| Dorrien Distribution | Stonewell             | Feeder Level         |
| Edinburgh            | DSTO                  | Bus Level            |
| Edinburgh            | Edinburgh Parks North | Bus Level            |
| Edinburgh            | GMH H14               | Bus Level            |
| Edinburgh            | Nurlutta              | Bus Level            |
| Edinburgh            | Sturton South         | Bus Level            |
| Elizabeth Downs      | Anderson Walk         | Feeder Level         |
| Elizabeth Downs      | Blakes Crossing       | Feeder Level         |
| Elizabeth Downs      | Blakeview             | Feeder Level         |
| Elizabeth Downs      | JK Cable              | Feeder Level         |
| Elizabeth Downs      | L Cable               | Feeder Level         |
| Elizabeth Downs      | M Cable               | Feeder Level         |
| Elizabeth Downs      | N Cable               | Feeder Level         |
| Elizabeth Downs      | Smithfield            | Feeder Level         |
| Elizabeth Downs      | Uley Road             | Feeder Level         |
| Elizabeth Heights    | Adams Road            | Feeder Level         |
| Elizabeth Heights    | Elizabeth East        | Feeder Level         |
| Elizabeth Heights    | P Cable               | Feeder Level         |
| Elizabeth Heights    | Q Cable               | Feeder Level         |
| Elizabeth Heights    | R Cable               | Feeder Level         |
| Elizabeth South      | A Cable               | Feeder Level         |
| Elizabeth South      | B Cable               | Feeder Level         |
| Elizabeth South      | C Cable               | Feeder Level         |
| Elizabeth South      | E Cable               | Feeder Level         |
| Elizabeth South      | F Cable               | Feeder Level         |
| Elizabeth South      | G Cable               | Feeder Level         |
| Evanston             | Dalkeith              | Feeder Level         |
| Evanston             | Evanston              | Feeder Level         |
| Evanston             | Evanston South        | Feeder Level         |
| Evanston             | Gawler East           | Feeder Level         |
| Evanston             | Gawler North          | Feeder Level         |
| Evanston             | Gawler West           | Feeder Level         |
| Evanston             | Willaston             | Feeder Level         |
| Flinders Park        | Angley Avenue         | Feeder Level         |
|                      |                       |                      |

| SUBSTATION NAME | FEEDER NAME        | DYNAMIC ARMING LEVEL |
|-----------------|--------------------|----------------------|
| Flinders Park   | Flinders Park      | Feeder Level         |
| Flinders Park   | Kidman Park        | Feeder Level         |
| Flinders Park   | Lockleys           | Feeder Level         |
| Fulham Gardens  | Frederick          | Feeder Level         |
| Fulham Gardens  | Fulham             | Feeder Level         |
| Fulham Gardens  | Grange             | Feeder Level         |
| Fulham Gardens  | Henley             | Feeder Level         |
| Fulham Gardens  | Marlborough        | Feeder Level         |
| Fulham Gardens  | West Lakes         | Feeder Level         |
| Glanville       | Ethelton           | Bus Level            |
| Glanville       | Glanville          | Bus Level            |
| Glanville       | Mellor Park        | Bus Level            |
| Glanville       | Semaphore          | Bus Level            |
| Glanville       | Swan Tce           | Bus Level            |
| Glenelg North   | Graymore           | Feeder Level         |
| Glenelg North   | Lightburn          | Feeder Level         |
| Glenelg North   | Mattner Avenue     | Feeder Level         |
| Glenelg North   | Novar Gardens      | Feeder Level         |
| Glenelg North   | St Leonards        | Feeder Level         |
| Glenelg North   | Wigley             | Feeder Level         |
| Glossop         | Berri Estates      | Bus Level            |
| Glossop         | Berri Fruit Juices | Bus Level            |
| Glossop         | Glossop            | Bus Level            |
| Glossop         | Monash             | Bus Level            |
| Glossop         | Winkie             | Bus Level            |
| Golden Grove    | Fairview Park      | Feeder Level         |
| Golden Grove    | Golden Grove North | Feeder Level         |
| Golden Grove    | Golden Grove West  | Feeder Level         |
| Golden Grove    | Greenwith          | Feeder Level         |
| Golden Grove    | Rifle Range        | Feeder Level         |
| Golden Grove    | Wynn Vale South    | Feeder Level         |
| Golden Grove    | Wynn Vale West     | Feeder Level         |
| Golden Grove    | Yatala Vale        | Feeder Level         |
| Goolwa          | Currency Creek     | Bus Level            |
| Goolwa          | Goolwa             | Bus Level            |
| Goolwa          | Hindmarsh Island   | Bus Level            |
| Goolwa          | Middleton          | Bus Level            |
|                 |                    |                      |

| SUBSTATION NAME           | FEEDER NAME        | DYNAMIC ARMING LEVEL |
|---------------------------|--------------------|----------------------|
| Hackham                   | Hackham East       | Feeder Level         |
| Hackham                   | Hackham West       | Feeder Level         |
| Hackham                   | Huntfield Heights  | Feeder Level         |
| Hahndorf                  | Biggs Flat         | Feeder Level         |
| Hahndorf                  | Hahndorf           | Feeder Level         |
| Happy Valley Distribution | Aberfoyle          | Feeder Level         |
| Happy Valley Distribution | Chandlers Hill     | Feeder Level         |
| Happy Valley Distribution | Craigburn          | Feeder Level         |
| Happy Valley Distribution | Flagstaff Road     | Feeder Level         |
| Happy Valley Distribution | Oakridge           | Feeder Level         |
| Happy Valley Distribution | Tapleys Hill       | Feeder Level         |
| Harrow                    | Walkerville        | Feeder Level         |
| Henley South              | Cudmore Terrace    | Feeder Level         |
| Henley South              | Everest Street     | Feeder Level         |
| Henley South              | Fawnbrake Crescent | Feeder Level         |
| Henley South              | Harbourtown        | Feeder Level         |
| Henley South              | Kooyonga           | Feeder Level         |
| Henley South              | Reedbeds           | Feeder Level         |
| Henley South              | Seaview Road       | Feeder Level         |
| Henley South              | West Beach         | Feeder Level         |
| Hillcrest                 | Fosters            | Feeder Level         |
| Hillcrest                 | Hillcrest          | Feeder Level         |
| Hillcrest                 | Klemzig            | Feeder Level         |
| Hillcrest                 | Ross Smith         | Feeder Level         |
| Hillcrest                 | Strathmont         | Feeder Level         |
| Hillcrest                 | Windsor Gardens    | Feeder Level         |
| Holden Hill               | Clovercrest        | Feeder Level         |
| Holden Hill               | Highbury           | Feeder Level         |
| Holden Hill               | Holden Hill        | Feeder Level         |
| Holden Hill               | Modbury            | Feeder Level         |
| Holden Hill               | Para Vista         | Feeder Level         |
| Hope Valley               | Barracks           | Feeder Level         |
| Hope Valley               | St Agnes           | Feeder Level         |
| Hope Valley               | Valley             | Feeder Level         |
| Houghton                  | Houghton           | Feeder Level         |
| Houghton                  | Inglewood          | Feeder Level         |
| Hummocks Distribution     | Ardrossan          | Line Level           |
|                           |                    |                      |

| SUBSTATION NAME          | FEEDER NAME     | DYNAMIC ARMING LEVEL |
|--------------------------|-----------------|----------------------|
| Hummocks Distribution    | Balaklava       | Line Level           |
| Hummocks Distribution    | Ninnes          | Line Level           |
| Hummocks Distribution    | Port Wakefield  | Line Level           |
| Ingle Farm               | Ingle Farm      | Feeder Level         |
| Ingle Farm               | Montague Farm   | Feeder Level         |
| Ingle Farm               | Nelson Road     | Feeder Level         |
| Ingle Farm               | Para Hills      | Feeder Level         |
| Ingle Farm               | Pooraka         | Feeder Level         |
| Ingle Farm               | Rialto          | Feeder Level         |
| Ingle Farm               | The Levels      | Feeder Level         |
| Jervois                  | Jervois         | Feeder Level         |
| Jervois                  | Wellington      | Feeder Level         |
| Jervois Flat 1           | Jervois Flat 1  | Feeder Level         |
| Jervois Flat 2           | Jervois Flat 2  | Feeder Level         |
| Kadina                   | Alford          | Bus Level            |
| Kadina                   | Kadina          | Bus Level            |
| Kadina                   | Wallaroo Mines  | Bus Level            |
| Kadina East Distribution | Kadina          | Line Level           |
| Kadina East Distribution | Moonta          | Line Level           |
| Kadina East Distribution | Paskeville      | Line Level           |
| Kadina East Distribution | Wallaroo        | Line Level           |
| Kilburn South            | Denver Terrace  | Feeder Level         |
| Kilburn South            | Kilburn South   | Feeder Level         |
| Kilburn South            | Kilburn West    | Feeder Level         |
| Kilburn South            | TMA No 2        | Feeder Level         |
| Kilkenny                 | ACI No 3        | Bus Level            |
| Kilkenny                 | ACI No 4        | Bus Level            |
| Kilkenny                 | Allenby Gardens | Bus Level            |
| Kilkenny                 | Aroona Road     | Bus Level            |
| Kilkenny                 | David Terrace   | Bus Level            |
| Kilkenny                 | Kilkenny        | Bus Level            |
| Kincraig                 | Lucindale       | Line Level           |
| Kincraig                 | Naracoorte      | Line Level           |
| Kingswood                | Fullarton       | Feeder Level         |
| Kingswood                | Highgate        | Feeder Level         |
| Kingswood                | Malvern         | Feeder Level         |
| Kingswood                | Mitcham         | Feeder Level         |
|                          |                 |                      |

| SUBSTATION NAME | FEEDER NAME            | DYNAMIC ARMING LEVEL |
|-----------------|------------------------|----------------------|
| Kingswood       | Myrtle Bank            | Feeder Level         |
| Kingswood       | Springfield 1          | Feeder Level         |
| Kingswood       | Springfield 2          | Feeder Level         |
| Kingswood       | Unley Park             | Feeder Level         |
| Langhorne Creek | Angas Plains           | Bus Level            |
| Langhorne Creek | Hartley                | Bus Level            |
| Langhorne Creek | Langhorne Creek        | Bus Level            |
| Langhorne Creek | Mulgundawa             | Bus Level            |
| Largs North     | Birkenhead             | Feeder Level         |
| Largs North     | Largs North            | Feeder Level         |
| Largs North     | Mildred                | Feeder Level         |
| Largs North     | Military Road          | Feeder Level         |
| Largs North     | Peterhead              | Feeder Level         |
| Linden Park     | Beaumont               | Feeder Level         |
| Linden Park     | Glen Osmond            | Feeder Level         |
| Linden Park     | Glenside               | Feeder Level         |
| Linden Park     | Glenunga               | Feeder Level         |
| Linden Park     | St Georges             | Feeder Level         |
| Linden Park     | Sydney                 | Feeder Level         |
| Linden Park     | Tusmore                | Feeder Level         |
| Lobethal        | Cudlee Creek           | Feeder Level         |
| Lobethal        | Kenton Valley          | Feeder Level         |
| Lobethal        | Lobethal               | Feeder Level         |
| Loveday         | Barmera                | Bus Level            |
| Loveday         | Cobdogla               | Bus Level            |
| Loveday         | Loveday                | Bus Level            |
| Loveday         | Loveday Pump           | Bus Level            |
| Loveday         | Moorook                | Bus Level            |
| Lower Mitcham   | Cumberland Park        | Feeder Level         |
| Lower Mitcham   | Hawthorn               | Feeder Level         |
| Lower Mitcham   | Wattlebury Road        | Feeder Level         |
| Lower Mitcham   | Westbourne Park        | Feeder Level         |
| Loxton          | Loxton                 | Bus Level            |
| Loxton          | Loxton East            | Bus Level            |
| Loxton          | Loxton North           | Bus Level            |
| Loxton          | Loxton Pumping Station | Bus Level            |
| Lyndoch         | Dorrien                | Bus Level            |
|                 |                        |                      |

| Lyndoch Lyndoch Bus Level Lyndoch Transformer No3 33/11kV Bus Level Lyrup Gurra Feeder Level Lyrup Lyrup South Feeder Level Lyrup Pike River Feeder Level Magill Woodforde 2 Line Level Magill Woodforde 3 Line Level Maitland Arthurton Bus Level Maitland Maitland Bus Level Maitland South Maitland Bus Level Mannum Mannum Town Line Level Mannum Walker Flat Line Level McLaren Flat Blewitt Springs Feeder Level McLaren Flat McLaren Flat Feeder Level McLaren Vale McLaren Vale Bus Level McLaren Vale McLaren Vale Bus Level McLaren Vale McLaren Vale Feeder Level Meadows Bull Creek Feeder Level Meadows Bull Creek Feeder Level Meadows Macclesfield Feeder Level Meadows Macclesfield Feeder Level Meadows Meadows Feeder Level Milang Bagley Bridge Bus Level Milang Bus Level Milang Bus Level Mobilong Distribution Monarto Line Level Monarto South Monarto South Feeder Level Monarto South Monarto South Feeder Level Monarto South Monarto Feeder Level Monarto South Monarto Feeder Level Monarto South Monarto Line Level Monarto South Monarto Feeder Level Monoritabie Poochera Feeder Level | SUBSTATION NAME       | FEEDER NAME             | DYNAMIC ARMING LEVEL |
|---|-----------------------|-------------------------|----------------------|
| Lyrup Gurra Feeder Level  Lyrup Pike River Feeder Level  Lyrup Pike River Feeder Level  Magill Woodforde 2 Line Level  Magill Woodforde 3 Line Level  Maitland Arthurton Bus Level  Maitland Maitland Bus Level  Mannum Mannum Town Line Level  Mannum Palmer Line Level  Mannum Walker Flat Line Level  McLaren Flat Blewitt Springs Feeder Level  McLaren Flat McLaren Vale Feeder Level  McLaren Vale McLaren Vale Bus Level  Meadows Bull Creek Feeder Level  Meadows Bull Creek Feeder Level  Meadows Meadows Feeder Level  Milang Bagley Bridge Bus Level  Milang Milang Bus Level  Milang Milang Bus Level  Mobilong Distribution Muray Bridge South Line Level  Monarto South Maitland Bus Level  Monarto South Macharen Vale Feeder Level  Meadows Feeder Level  Meadows Headows Feeder Level  Meadows Headows Feeder Level  Milang Bus Level  Mobilong Distribution Monarto Line Level  Monarto South Monarto South Feeder Level  Monarto South Monarto Feeder Level  Moonta Moonta Feeder Level  | Lyndoch               | Lyndoch                 | Bus Level            |
| Lyrup Lyrup South Feeder Level  Lyrup Pike River Feeder Level  Magill Woodforde 2 Line Level  Magill Woodforde 3 Line Level  Maitland Arthurton Bus Level  Maitland Maitland Bus Level  Maitland South Maitland Bus Level  Mannum Mannum Town Line Level  Mannum Palmer Line Level  Mannum Walker Flat Line Level  McLaren Flat Blewitt Springs Feeder Level  McLaren Flat McLaren Flat Feeder Level  McLaren Vale Feeder Level  McLaren Vale Bus Level  McLaren Vale Willunga Bus Level  McLaren Vale Willunga Bus Level  Meadows Bull Creek Feeder Level  Meadows Feeder Level  Meadows Macolesfield Feeder Level  Milang Bagley Bridge Bus Level  Milang Bay Bus Level  Milang Bay Bus Level  Milang Bay Bus Level  Mobilong Distribution Mypolonga Line Level  Monarto South Monat Feeder Level  Monarto South Monata Feeder Level  Monarto South Monata Feeder Level  Moonta Moonta Feeder Level   | Lyndoch               | Transformer No3 33/11kV | Bus Level            |
| Lyrup Pike River Feeder Level  Magill Woodforde 2 Line Level  Magill Woodforde 3 Line Level  Maitland Arthurton Bus Level  Maitland Maitland Bus Level  Maitland Bus Level  Maitland Bus Level  Mannum Mannum Town Line Level  Mannum Palmer Line Level  Mannum Walker Flat Line Level  McLaren Flat Blewitt Springs Feeder Level  McLaren Flat McLaren Flat Feeder Level  McLaren Vale Bus Level  McLaren Vale Bus Level  McLaren Vale Bus Level  McLaren Vale Bus Level  McLaren Vale Feeder Level  McLaren Vale Feeder Level  McLaren Vale Bus Level  McLaren Vale Feeder Level  McLaren Vale Feeder Level  McLaren Vale Feeder Level  McLaren Vale Bus Level  McLaren Vale Feeder Level  Meadows Bull Creek Feeder Level  Meadows Echunga Feeder Level  Meadows Macclesfield Feeder Level  Meadows Meadows Feeder Level  Milang Bagley Bridge Bus Level  Milang Bus Level  Milang Bus Level  Milang Bus Level  Mobilong Distribution Monarto  Mobilong Distribution Mypolonga Line Level  Monarto South Monarto South Feeder Level  Monarto South White Hill Feeder Level  Moonta Moonta Feeder Level  Moonta Moonta Feeder Level   | Lyrup                 | Gurra                   | Feeder Level         |
| Magill         Woodforde 2         Line Level           Magill         Woodforde 3         Line Level           Maitland         Arthurton         Bus Level           Maitland         Bus Level           Maitland         Bus Level           Mannum         Maitland         Bus Level           Mannum         Mannum Town         Line Level           Mannum         Palmer         Line Level           Mannum         Walker Flat         Line Level           McLaren Flat         Blewitt Springs         Feeder Level           McLaren Flat         McLaren Flat         Feeder Level           McLaren Flat         McLaren Vale         Feeder Level           McLaren Vale         McLaren Vale         Bus Level           McLaren Vale         McLaren Vale         Bus Level           McLaren Vale         Willunga         Bus Level           Meadows         Bull Creek         Feeder Level           Meadows         Bull Creek         Feeder Level           Meadows         Meadows         Feeder Level           Milang         Bus Level           Milang         Bus Level           Milang         Bus Level           Milang         Bus Leve   | Lyrup                 | Lyrup South             | Feeder Level         |
| Magill Woodforde 3 Line Level  Maitland Arthurton Bus Level  Maitland Maitland Bus Level  Maitland Bus Level  Mannum Mannum Town Line Level  Mannum Palmer Line Level  Mannum Walker Flat Line Level  McLaren Flat Blewitt Springs Feeder Level  McLaren Flat McLaren Flat Feeder Level  McLaren Flat McLaren Vale Feeder Level  McLaren Vale McLaren Vale Bus Level  McLaren Vale Willunga Bus Level  Meadows Bull Creek Feeder Level  Meadows Feeder Level  Meadows Macclesfield Feeder Level  Milang Bagley Bridge Bus Level  Milang Bus Level  Mobilong Distribution Murray Bridge South Line Level  Monarto Central Ferries McDonald Rd Feeder Level  Monarto South White Hill Feeder Level  Monarto South Moonta Bay Feeder Level  Moonta Moorkitabie Poochera Feeder Level   | Lyrup                 | Pike River              | Feeder Level         |
| Maitland Arthurton Bus Level  Maitland Bus Level  Maitland Bus Level  Mannum Mannum Town Line Level  Mannum Palmer Line Level  Mannum Walker Flat Line Level  Mannum Walker Flat Line Level  McLaren Flat Blewitt Springs Feeder Level  McLaren Flat McLaren Flat Feeder Level  McLaren Flat McLaren Vale Feeder Level  McLaren Vale McLaren Vale Bus Level  McLaren Vale Willunga Bus Level  McLaren Vale Willunga Bus Level  Meadows Bull Creek Feeder Level  Meadows Feeder Level  Meadows Macclesfield Feeder Level  Milang Bayley Bridge Bus Level  Milang Bus Level  Milang Bus Level  Milang Bus Level  Milang Bus Level  Mobilong Distribution Monarto  Monarto Central Ferries McDonald Rd Feeder Level  Monarto South Monata Feeder Level  Moonta Moonta Bay Feeder Level  Moontia Moonta Feeder Level  Moontia Moonta Feeder Level   | Magill                | Woodforde 2             | Line Level           |
| Maitland       Bus Level         Maitland       South Maitland       Bus Level         Mannum       Mannum Town       Line Level         Mannum       Palmer       Line Level         Mannum       Walker Flat       Line Level         McLaren Flat       Blewitt Springs       Feeder Level         McLaren Flat       McLaren Flat       Feeder Level         McLaren Flat       McLaren Vale       Feeder Level         McLaren Vale       McLaren Vale       Bus Level         McLaren Vale       Willunga       Bus Level         McLaren Vale       Willunga       Bus Level         Meadows       Bull Creek       Feeder Level         Meadows       Bull Creek       Feeder Level         Meadows       Macclesfield       Feeder Level         Meadows       Meadows       Feeder Level         Milang       Bus Level         Milang       Bus Level         Milang       Bus Level         Milang       Bus Level         Mobilong Distribution       Monarto       Line Level         Mobilong Distribution       Monarto       Line Level         Monito Central       Ferries McDonald Rd       Feeder Level <td< td=""><td>Magill</td><td>Woodforde 3</td><td>Line Level</td></td<>  | Magill                | Woodforde 3             | Line Level           |
| Maitland       South Maitland       Bus Level         Mannum       Mannum Town       Line Level         Mannum       Palmer       Line Level         Mannum       Walker Flat       Line Level         McLaren Flat       Blewitt Springs       Feeder Level         McLaren Flat       McLaren Flat       Feeder Level         McLaren Flat       McLaren Vale       Feeder Level         McLaren Vale       McLaren Vale       Bus Level         McLaren Vale       Willunga       Bus Level         Meadows       Bull Creek       Feeder Level         Meadows       Bull Creek       Feeder Level         Meadows       Macclesfield       Feeder Level         Meadows       Meadows       Feeder Level         Milang       Bus Level         Milang       Bus Level         Milang       Bus Level         Milang       Bus Level         Mololong Distribution       Monarto       Line Level         Mobilong Distribution       Monarto       Line Level         Mobilong Distribution       Murray Bridge South       Line Level         Monarto Central       Ferries McDonald Rd       Feeder Level         Monarto South       Monarto South <td>Maitland</td> <td>Arthurton</td> <td>Bus Level</td>   | Maitland              | Arthurton               | Bus Level            |
| Mannum       Mannum Town       Line Level         Mannum       Palmer       Line Level         Mannum       Walker Flat       Line Level         McLaren Flat       Blewitt Springs       Feeder Level         McLaren Flat       McLaren Flat       Feeder Level         McLaren Flat       McLaren Vale       Feeder Level         McLaren Vale       McLaren Vale       Bus Level         McLaren Vale       Willunga       Bus Level         Meadows       Bull Creek       Feeder Level         Meadows       Bull Creek       Feeder Level         Meadows       Macclesfield       Feeder Level         Meadows       Meadows       Feeder Level         Milang       Bus Level         Milang       Bus Level         Milang       Bus Level         Milang       Bus Level         Morray Bridge North and       Monarto         Mobilong Distribution       Monarto       Line Level         Mobilong Distribution       Murray Bridge South       Line Level         Mobilong Distribution       Mypolonga       Line Level         Monarto Central       Ferries McDonald Rd       Feeder Level         Monarto South       Monarto South       Fe  | Maitland              | Maitland                | Bus Level            |
| Mannum       Palmer       Line Level         Mannum       Walker Flat       Line Level         McLaren Flat       Blewitt Springs       Feeder Level         McLaren Flat       McLaren Flat       Feeder Level         McLaren Flat       McLaren Vale       Feeder Level         McLaren Vale       McLaren Vale       Bus Level         McLaren Vale       Willunga       Bus Level         McLaren Vale       Willunga       Bus Level         Meadows       Bull Creek       Feeder Level         Meadows       Bull Creek       Feeder Level         Meadows       Macclesfield       Feeder Level         Meadows       Meadows       Feeder Level         Milang       Bus Level         Milang       Bus Level         Milang       Bus Level         Milang       Bus Level         Moliong Distribution       Monarto       Line Level         Mobilong Distribution       Monarto       Line Level         Mobilong Distribution       Mypolonga       Line Level         Monarto Central       Ferries McDonald Rd       Feeder Level         Monarto South       Monarto South       Feeder Level         Moonta       Moonta       Fee   | Maitland              | South Maitland          | Bus Level            |
| MannumWalker FlatLine LevelMcLaren FlatBlewitt SpringsFeeder LevelMcLaren FlatMcLaren FlatFeeder LevelMcLaren FlatMcLaren ValeFeeder LevelMcLaren ValeMcLaren ValeBus LevelMcLaren ValeTatachillaBus LevelMcLaren ValeWillungaBus LevelMeadowsBull CreekFeeder LevelMeadowsEchungaFeeder LevelMeadowsMacclesfieldFeeder LevelMeadowsMeadowsFeeder LevelMilangBagley BridgeBus LevelMilangMilangBus LevelMilangPoint SturtBus LevelMobilong DistributionMonartoLine LevelMobilong DistributionMurray Bridge SouthLine LevelMobilong DistributionMypolongaLine LevelMoharto CentralFerries McDonald RdFeeder LevelMonarto SouthMonarto SouthFeeder LevelMonarto SouthWhite HillFeeder LevelMoontaMoontaFeeder LevelMoontaMoonta BayFeeder LevelMoorkitabiePoocheraFeeder Level  | Mannum                | Mannum Town             | Line Level           |
| McLaren Flat Blewitt Springs Feeder Level McLaren Flat McLaren Flat Feeder Level McLaren Flat McLaren Vale Feeder Level McLaren Vale McLaren Vale Bus Level McLaren Vale Tatachilla Bus Level McLaren Vale Willunga Bus Level McLaren Vale Willunga Bus Level Meadows Bull Creek Feeder Level Meadows Echunga Feeder Level Meadows Macclesfield Feeder Level Meadows Meadows Feeder Level Milang Bagley Bridge Bus Level Milang Feeder Level Milang Bus Level Milang Bus Level Milang Feeder Level Milang Feeder Level Milang Feeder Level Mobilong Distribution Monarto Line Level Mobilong Distribution Murray Bridge South Line Level Mobilong Distribution Mypolonga Line Level Monarto Central Ferries McDonald Rd Feeder Level Monarto South Monarto South Feeder Level Monarto South White Hill Feeder Level Moonta Moonta Feeder Level Moonta Moonta Feeder Level Moorkitabie Poochera Feeder Level   | Mannum                | Palmer                  | Line Level           |
| McLaren Flat McLaren Flat Feeder Level  McLaren Flat McLaren Vale Feeder Level  McLaren Vale McLaren Vale Bus Level  McLaren Vale Tatachilla Bus Level  McLaren Vale Willunga Bus Level  Meadows Bull Creek Feeder Level  Meadows Echunga Feeder Level  Meadows Macclesfield Feeder Level  Meadows Meadows Feeder Level  Milang Bagley Bridge Bus Level  Milang Milang Bus Level  Milang Mobilong Distribution Monarto Line Level  Monarto South Monarto South Feeder Level  Monarto South White Hill Feeder Level  Monarto South Monarto Feeder Level  Monarto South Monarto Feeder Level  Monarto South White Hill Feeder Level  Monarto South Monarto South Feeder Level  Monarto South Monarto Feeder Level  Monarto Monarto Monarto Feeder Level  Monarto Monarto Monarto Feeder Level  Monarto Feeder Level  Monarto Monarto Monarto Feeder Level   | Mannum                | Walker Flat             | Line Level           |
| McLaren FlatMcLaren ValeFeeder LevelMcLaren ValeMcLaren ValeBus LevelMcLaren ValeTatachillaBus LevelMcLaren ValeWillungaBus LevelMeadowsBull CreekFeeder LevelMeadowsEchungaFeeder LevelMeadowsMacclesfieldFeeder LevelMeadowsMeadowsFeeder LevelMilangBagley BridgeBus LevelMilangMilangBus LevelMilangPoint SturtBus LevelMobilong DistributionMonartoLine LevelMobilong DistributionMurray Bridge SouthLine LevelMobilong DistributionMypolongaLine LevelMonarto CentralFerries McDonald RdFeeder LevelMonarto SouthMonarto SouthFeeder LevelMonarto SouthWhite HillFeeder LevelMoontaMoontaFeeder LevelMoontaMoonta BayFeeder LevelMoorkitabiePoocheraFeeder Level  | McLaren Flat          | Blewitt Springs         | Feeder Level         |
| McLaren Vale McLaren Vale Bus Level  McLaren Vale Tatachilla Bus Level  McLaren Vale Willunga Bus Level  Meadows Bull Creek Feeder Level  Meadows Echunga Feeder Level  Meadows Macclesfield Feeder Level  Meadows Meadows Feeder Level  Milang Bagley Bridge Bus Level  Milang Milang Bus Level  Milang Point Sturt Bus Level  Mobilong Distribution Monarto Line Level  Mobilong Distribution Mypolonga Line Level  Monarto Central Ferries McDonald Rd Feeder Level  Monarto South White Hill Feeder Level  Moonta Moonta Bay Feeder Level  Moonta Moonta Bay Feeder Level  Moorkitabie Poochera Feeder Level  | McLaren Flat          | McLaren Flat            | Feeder Level         |
| McLaren ValeTatachillaBus LevelMcLaren ValeWillungaBus LevelMeadowsBull CreekFeeder LevelMeadowsEchungaFeeder LevelMeadowsMacclesfieldFeeder LevelMeadowsMeadowsFeeder LevelMilangBagley BridgeBus LevelMilangMilangBus LevelMilangPoint SturtBus LevelMobilongMorray Bridge North andMobilong DistributionMobilong DistributionMonartoLine LevelMobilong DistributionMypolongaLine LevelMonarto CentralFerries McDonald RdFeeder LevelMonarto SouthMonarto SouthFeeder LevelMonarto SouthWhite HillFeeder LevelMoontaMoontaFeeder LevelMoontaMoontaFeeder LevelMoontaMoontaFeeder LevelMoorkitabiePoocheraFeeder Level   | McLaren Flat          | McLaren Vale            | Feeder Level         |
| McLaren ValeWillungaBus LevelMeadowsBull CreekFeeder LevelMeadowsEchungaFeeder LevelMeadowsMacclesfieldFeeder LevelMeadowsMeadowsFeeder LevelMilangBagley BridgeBus LevelMilangMilangBus LevelMilangPoint SturtBus LevelMobilong DistributionMonartoLine LevelMobilong DistributionMurray Bridge SouthLine LevelMobilong DistributionMypolongaLine LevelMonarto CentralFerries McDonald RdFeeder LevelMonarto SouthMonarto SouthFeeder LevelMonarto SouthWhite HillFeeder LevelMoontaMoontaFeeder LevelMoontaMoontaFeeder LevelMoontaMoonta BayFeeder LevelMoorkitabiePoocheraFeeder Level  | McLaren Vale          | McLaren Vale            | Bus Level            |
| Meadows Bull Creek Feeder Level  Meadows Echunga Feeder Level  Meadows Macclesfield Feeder Level  Meadows Meadows Feeder Level  Milang Bagley Bridge Bus Level  Milang Milang Bus Level  Milang Point Sturt Bus Level  Mobilong Distribution Monarto Line Level  Mobilong Distribution Mypolonga Line Level  Monarto Central Ferries McDonald Rd Feeder Level  Monarto South White Hill Feeder Level  Moonta Moonta Feeder Level  Moonta Moonta Feeder Level  Moonta Moonta Feeder Level  Moonta Moonta Feeder Level  Moorkitabie Poochera Feeder Level   | McLaren Vale          | Tatachilla              | Bus Level            |
| MeadowsEchungaFeeder LevelMeadowsMacclesfieldFeeder LevelMeadowsFeeder LevelMilangBagley BridgeBus LevelMilangMilangBus LevelMilangPoint SturtBus LevelMobilong DistributionMonartoLine LevelMobilong DistributionMurray Bridge North and<br>MonartoLine LevelMobilong DistributionMurray Bridge SouthLine LevelMobilong DistributionMypolongaLine LevelMonarto CentralFerries McDonald RdFeeder LevelMonarto SouthMonarto SouthFeeder LevelMonarto SouthWhite HillFeeder LevelMoontaMoontaFeeder LevelMoontaMoontaFeeder LevelMoortaMoonta BayFeeder LevelMoorkitabiePoocheraFeeder Level  | McLaren Vale          | Willunga                | Bus Level            |
| MeadowsMacclesfieldFeeder LevelMeadowsFeeder LevelMilangBagley BridgeBus LevelMilangMilangBus LevelMilangPoint SturtBus LevelMobilong DistributionMonartoLine LevelMobilong DistributionMurray Bridge SouthLine LevelMobilong DistributionMypolongaLine LevelMonarto CentralFerries McDonald RdFeeder LevelMonarto SouthMonarto SouthFeeder LevelMonarto SouthWhite HillFeeder LevelMoontaMoontaFeeder LevelMoontaMoontaFeeder LevelMoortaMoonta BayFeeder LevelMoorkitabiePoocheraFeeder Level   | Meadows               | Bull Creek              | Feeder Level         |
| MeadowsFeeder LevelMilangBagley BridgeBus LevelMilangMilangBus LevelMilangPoint SturtBus LevelMobilong DistributionMonartoLine LevelMobilong DistributionMurray Bridge SouthLine LevelMobilong DistributionMypolongaLine LevelMonarto CentralFerries McDonald RdFeeder LevelMonarto SouthMonarto SouthFeeder LevelMonarto SouthWhite HillFeeder LevelMoontaMoontaFeeder LevelMoontaMoontaFeeder LevelMoontaMoonta BayFeeder LevelMoorkitabiePoocheraFeeder Level  | Meadows               | Echunga                 | Feeder Level         |
| Milang Milang Bus Level  Milang Milang Bus Level  Milang Point Sturt Bus Level  Murray Bridge North and  Mobilong Distribution Monarto Line Level  Mobilong Distribution Mypolonga Line Level  Moharto Central Ferries McDonald Rd Feeder Level  Monarto South Monarto South Feeder Level  Monarto South White Hill Feeder Level  Moonta Moonta Feeder Level  Moonta Moonta Feeder Level  Moorkitabie Poochera Feeder Level   | Meadows               | Macclesfield            | Feeder Level         |
| Milang Milang Bus Level  Milang Point Sturt Bus Level  Murray Bridge North and  Mobilong Distribution Monarto Line Level  Mobilong Distribution Murray Bridge South Line Level  Mobilong Distribution Mypolonga Line Level  Monarto Central Ferries McDonald Rd Feeder Level  Monarto South Monarto South Feeder Level  Monarto South White Hill Feeder Level  Moonta Moonta Feeder Level  Moonta Moonta Feeder Level  Moorkitabie Poochera Feeder Level  | Meadows               | Meadows                 | Feeder Level         |
| Milang Point Sturt Bus Level  Murray Bridge North and Mobilong Distribution Monarto Line Level  Mobilong Distribution Murray Bridge South Line Level  Mobilong Distribution Mypolonga Line Level  Monarto Central Ferries McDonald Rd Feeder Level  Monarto South Monarto South Feeder Level  Monarto South White Hill Feeder Level  Moonta Moonta Feeder Level  Moonta Moonta Feeder Level  Moorkitabie Poochera Feeder Level  | Milang                | Bagley Bridge           | Bus Level            |
| Murray Bridge North and Mobilong Distribution Monarto Line Level  Mobilong Distribution Murray Bridge South Line Level  Mobilong Distribution Mypolonga Line Level  Monarto Central Ferries McDonald Rd Feeder Level  Monarto South Monarto South Feeder Level  Monarto South White Hill Feeder Level  Moonta Moonta Feeder Level  Moonta Moonta Feeder Level  Moorkitabie Poochera Feeder Level  | Milang                | Milang                  | Bus Level            |
| Mobilong DistributionMonartoLine LevelMobilong DistributionMurray Bridge SouthLine LevelMobilong DistributionMypolongaLine LevelMonarto CentralFerries McDonald RdFeeder LevelMonarto SouthMonarto SouthFeeder LevelMonarto SouthWhite HillFeeder LevelMoontaMoontaFeeder LevelMoontaMoonta BayFeeder LevelMoorkitabiePoocheraFeeder Level  | Milang                | Point Sturt             | Bus Level            |
| Mobilong DistributionMypolongaLine LevelMonarto CentralFerries McDonald RdFeeder LevelMonarto SouthMonarto SouthFeeder LevelMonarto SouthWhite HillFeeder LevelMoontaMoontaFeeder LevelMoontaMoonta BayFeeder LevelMoorkitabiePoocheraFeeder Level  | Mobilong Distribution |                         | Line Level           |
| Mobilong DistributionMypolongaLine LevelMonarto CentralFerries McDonald RdFeeder LevelMonarto SouthMonarto SouthFeeder LevelMonarto SouthWhite HillFeeder LevelMoontaMoontaFeeder LevelMoontaMoonta BayFeeder LevelMoorkitabiePoocheraFeeder Level  | Mobilong Distribution | Murray Bridge South     | Line Level           |
| Monarto SouthMonarto SouthFeeder LevelMonarto SouthWhite HillFeeder LevelMoontaMoontaFeeder LevelMoontaMoonta BayFeeder LevelMoorkitabiePoocheraFeeder Level  | Mobilong Distribution | <del>-</del>            | Line Level           |
| Monarto SouthWhite HillFeeder LevelMoontaMoontaFeeder LevelMoontaMoonta BayFeeder LevelMoorkitabiePoocheraFeeder Level  | Monarto Central       | Ferries McDonald Rd     | Feeder Level         |
| MoontaMoontaFeeder LevelMoontaMoonta BayFeeder LevelMoorkitabiePoocheraFeeder Level   | Monarto South         | Monarto South           | Feeder Level         |
| MoontaMoonta BayFeeder LevelMoorkitabiePoocheraFeeder Level   | Monarto South         | White Hill              | Feeder Level         |
| Moorkitabie Poochera Feeder Level   | Moonta                | Moonta                  | Feeder Level         |
| Moorkitabie Poochera Feeder Level   | Moonta                | Moonta Bay              | Feeder Level         |
| Moorkitabie Venus Bav Feeder Level  | Moorkitabie           | Poochera                | Feeder Level         |
|   | Moorkitabie           | Venus Bay               | Feeder Level         |

| SUBSTATION NAME                 | FEEDER NAME                 | DYNAMIC ARMING LEVEL |
|---------------------------------|-----------------------------|----------------------|
| Morphett Vale East              | Bains Road                  | Feeder Level         |
| Morphett Vale East              | Clarendon                   | Feeder Level         |
| Morphett Vale East              | Emmerson Drive              | Feeder Level         |
| Morphett Vale East              | Hackham                     | Feeder Level         |
| Morphett Vale East              | Reynella                    | Feeder Level         |
| Morphett Vale East              | Woodcroft                   | Feeder Level         |
| Morphettville                   | Glenelg                     | Feeder Level         |
| Morphettville                   | Glenelg East                | Feeder Level         |
| Morphettville                   | Glenelg South               | Feeder Level         |
| Morphettville                   | Somerton Park               | Feeder Level         |
| Mount Barker Distribution       | Balhannah                   | Line Level           |
| Mount Barker Distribution       | Bugle Ranges                | Feeder Level         |
| Mount Barker Distribution       | Flaxley                     | Feeder Level         |
| Mount Barker Distribution       | Hahndorf                    | Line Level           |
| Mount Barker Distribution       | Mount Barker                | Feeder Level         |
| Mount Barker Distribution       | Mount Barker CBD            | Feeder Level         |
| Mount Barker Distribution       | Mount Barker Central        | Feeder Level         |
| Mount Barker Distribution       | Windmill                    | Feeder Level         |
| Mount Barker South              |                             |                      |
| Distribution                    | Meadows                     | Line Level           |
| Mount Barker South Distribution | Ctrathalbun                 | Line Level           |
| Mount Pleasant                  | Strathalbyn  Mount Pleasant |                      |
|                                 |                             | Feeder Level         |
| Murray Bridge North             | Meatworks                   | Bus Level            |
| Murray Bridge North             | Northern Heights            | Bus Level            |
| Murray Bridge North             | Thomas Street               | Bus Level            |
| Murray Bridge North             | Waratah Avenue              | Bus Level Bus Level  |
| Murray Bridge South             | Hill Street                 |                      |
| Murray Bridge South             | Marketplace                 | Bus Level            |
| Murray Bridge South             | Murray Gardens              | Bus Level            |
| Murray Bridge South             | Riverview                   | Bus Level            |
| Murray Bridge South             | Swanport                    | Bus Level            |
| Mypolonga                       | Mypolonga                   | Feeder Level         |
| Mypolonga                       | Sunnyside                   | Feeder Level         |
| Myponga                         | Blockers Road               | Feeder Level         |
| Myponga                         | Hindmarsh Tiers             | Feeder Level         |
| Myponga                         | Myponga                     | Feeder Level         |
| Myponga                         | Sellicks Hill               | Feeder Level         |

| SUBSTATION NAME  | FEEDER NAME           | DYNAMIC ARMING LEVEL |
|------------------|-----------------------|----------------------|
| Naracoorte       | Hynam                 | Feeder Level         |
| Naracoorte       | McIntosh              | Feeder Level         |
| Naracoorte       | Naracoorte            | Feeder Level         |
| Naracoorte       | Wrattonbully          | Feeder Level         |
| Naracoorte East  | Cadgee                | Bus Level            |
| Naracoorte East  | Carters Road          | Bus Level            |
| Naracoorte East  | Kybybolite            | Bus Level            |
| Noarlunga Centre | Beach Road            | Feeder Level         |
| Noarlunga Centre | Burgess Drive         | Feeder Level         |
| Noarlunga Centre | Christies Beach South | Bus Level            |
| Noarlunga Centre | Colonnades            | Bus Level            |
| Noarlunga Centre | Noarlunga Downs       | Feeder Level         |
| North West Bend  | Swan Reach            | Line Level           |
| North West Bend  | Waikerie              | Line Level           |
| Northfield       | Northfield            | Feeder Level         |
| Northfield       | Northgate             | Feeder Level         |
| Northfield       | Valley View           | Feeder Level         |
| Norwood          | Beulah Park           | Feeder Level         |
| Norwood          | Evandale              | Feeder Level         |
| Norwood          | Firle                 | Feeder Level         |
| Norwood          | Kensington            | Feeder Level         |
| Norwood          | Leabrook              | Feeder Level         |
| Norwood          | Maylands              | Feeder Level         |
| Norwood          | Norwood               | Feeder Level         |
| Norwood          | Payneham              | Feeder Level         |
| Norwood          | St Peters             | Feeder Level         |
| Norwood          | Stepney               | Feeder Level         |
| Nuriootpa        | Nuriootpa East        | Feeder Level         |
| Nuriootpa        | Nuriootpa West        | Feeder Level         |
| Oaklands         | Barry Road            | Feeder Level         |
| Oaklands         | Diagonal Road         | Feeder Level         |
| Oaklands         | Dwyer Road            | Feeder Level         |
| Oaklands         | Lascelles Avenue      | Feeder Level         |
| Oaklands         | Osborne Street        | Feeder Level         |
| Oaklands         | Warradale             | Feeder Level         |
| Oaklands         | Westminster           | Feeder Level         |
| Panorama         | Brownhill             | Feeder Level         |
|                  |                       |                      |

| SUBSTATION NAME          | FEEDER NAME       | DYNAMIC ARMING LEVEL |
|--------------------------|-------------------|----------------------|
| Panorama                 | Clapham           | Feeder Level         |
| Panorama                 | Gloucester        | Feeder Level         |
| Panorama                 | Shepherds Hill    | Feeder Level         |
| Panorama                 | Winston Avenue    | Feeder Level         |
| Parafield Gardens        | Downs             | Feeder Level         |
| Parafield Gardens        | Gardens           | Feeder Level         |
| Parafield Gardens        | Greenfields       | Feeder Level         |
| Parafield Gardens        | Pines             | Feeder Level         |
| Parafield Gardens        | Salt Pans         | Feeder Level         |
| Paralowie                | Bolivar           | Feeder Level         |
| Paralowie                | Burton            | Feeder Level         |
| Paralowie                | Inghams No 3      | Feeder Level         |
| Paralowie                | Paralowie         | Feeder Level         |
| Penola West Distribution | Penola            | Line Level           |
| Penola West Distribution | Safries           | Line Level           |
| Plympton                 | Birkalla          | Feeder Level         |
| Plympton                 | Camden Park       | Feeder Level         |
| Plympton                 | Glenelg WWTP      | Feeder Level         |
| Plympton                 | Kurralta Park     | Feeder Level         |
| Plympton                 | Netley            | Feeder Level         |
| Plympton                 | North Plympton    | Feeder Level         |
| Polda                    | Elliston          | Feeder Level         |
| Port Adelaide            | Alberton          | Feeder Level         |
| Port Adelaide            | Kingston          | Feeder Level         |
| Port Adelaide            | Nile Street       | Feeder Level         |
| Port Adelaide            | Portland          | Feeder Level         |
| Port Adelaide            | Rosewater         | Feeder Level         |
| Port Adelaide            | St Vincent Street | Feeder Level         |
| Port Adelaide North      | Adelaide Wallaroo | Feeder Level         |
| Port Adelaide North      | Bedford           | Feeder Level         |
| Port Adelaide North      | Docks             | Feeder Level         |
| Port Adelaide North      | Gillman           | Feeder Level         |
| Port Adelaide North      | Sims Metal        | Feeder Level         |
| Port Adelaide North      | Torrens Island    | Feeder Level         |
| Port Broughton           | Mundoora          | Bus Level            |
| Port Broughton           | Port Broughton    | Bus Level            |
| Port Lincoln City        | Central           | Feeder Level         |
|                          |                   |                      |

| SUBSTATION NAME       | FEEDER NAME              | DYNAMIC ARMING LEVEL |
|-----------------------|--------------------------|----------------------|
| Port Lincoln City     | Industrial               | Feeder Level         |
| Port Lincoln City     | North                    | Feeder Level         |
| Port Lincoln Docks    | Commercial               | Feeder Level         |
| Port Lincoln Docks    | Kirton                   | Feeder Level         |
| Port Lincoln Docks    | Wharf                    | Feeder Level         |
| Port Lincoln Marina   | Porter                   | Feeder Level         |
| Port Lincoln Marina   | Ravendale                | Feeder Level         |
| Port Lincoln Terminal | Pt Lincoln City          | Feeder Level         |
| Port Lincoln Terminal | Pt Lincoln Docks         | Feeder Level         |
| Port Lincoln Terminal | Tod River                | Feeder Level         |
| Port Lincoln Terminal | Uley                     | Line Level           |
| Port Noarlunga        | Dyson Road               | Feeder Level         |
| Port Noarlunga        | Moana                    | Feeder Level         |
| Port Noarlunga        | Onkaparinga              | Feeder Level         |
| Port Noarlunga        | Seaford Meadows          | Feeder Level         |
| Port Noarlunga        | Southport                | Feeder Level         |
| Port Pirie South      | Pirie North              | Feeder Level         |
| Port Pirie South      | Pirie South              | Feeder Level         |
| Port Pirie South      | Pirie Town               | Feeder Level         |
| Port Pirie South      | Pirie West               | Feeder Level         |
| Port Pirie South      | Risdon Park              | Feeder Level         |
| Port Stanvac          | Aldenhoven               | Bus Level            |
| Port Stanvac          | Christies Beach          | Feeder Level         |
| Port Stanvac          | Christies Beach WWTP     | Feeder Level         |
| Port Stanvac          | Mitsubishi No 1          | Bus Level            |
| Port Stanvac          | Mitsubishi No 2          | Bus Level            |
| Port Stanvac          | Old Reynella             | Feeder Level         |
| Port Stanvac          | Pimpala                  | Bus Level            |
| Port Stanvac          | Port Noarlunga           | Feeder Level         |
| Port Stanvac          | Refinery Road            | Feeder Level         |
| Port Stanvac          | Sherriffs Road           | Feeder Level         |
| Prospect              | Dudley Park              | Feeder Level         |
| Prospect              | Fitzroy                  | Feeder Level         |
| Prospect              | Government Laundry       | Feeder Level         |
| Prospect              | Islington Workshops No 2 | Feeder Level         |
| Prospect              | Nailsworth               | Feeder Level         |
| Prospect              | Oxenham Street           | Feeder Level         |
|                       |                          |                      |

| SUBSTATION NAME | FEEDER NAME      | DYNAMIC ARMING LEVEL |
|-----------------|------------------|----------------------|
| Prospect        | Prospect         | Feeder Level         |
| Pyap            | Loxton West      | Bus Level            |
| Pyap            | Mindarie         | Line Level           |
| Pyap            | New Residence    | Bus Level            |
| Pyap            | Pata             | Bus Level            |
| Qualco          | Qualco           | Feeder Level         |
| Queenstown      | Carnegie Park    | Feeder Level         |
| Queenstown      | Hendon           | Feeder Level         |
| Queenstown      | Queenstown       | Feeder Level         |
| Queenstown      | Royal Park       | Feeder Level         |
| Ramco           | Golden Heights   | Feeder Level         |
| Ramco           | Taylorville      | Feeder Level         |
| Ramco           | Toolunka         | Feeder Level         |
| Salisbury       | Brahma Lodge     | Feeder Level         |
| Salisbury       | Bridgestone 1    | Feeder Level         |
| Salisbury       | Bridgestone 2    | Feeder Level         |
| Salisbury       | Chidda           | Feeder Level         |
| Salisbury       | Highway          | Feeder Level         |
| Salisbury       | River            | Feeder Level         |
| Salisbury       | Salisbury East   | Feeder Level         |
| Salisbury       | Salisbury North  | Feeder Level         |
| Salisbury       | Salisbury Plains | Feeder Level         |
| Salisbury       | Salisbury South  | Feeder Level         |
| Seacombe        | Dover Gardens    | Feeder Level         |
| Seacombe        | Marino           | Feeder Level         |
| Seacombe        | O'Halloran Hill  | Feeder Level         |
| Seacombe        | Seacliff         | Feeder Level         |
| Seacombe        | Seacombe Gardens | Feeder Level         |
| Seacombe        | Seaview Downs    | Feeder Level         |
| Seaford         | Ochre            | Feeder Level         |
| Seaford         | Pedler           | Feeder Level         |
| Sheidow Park    | Hallett Cove     | Feeder Level         |
| Sheidow Park    | Karrara          | Feeder Level         |
| Sheidow Park    | Patpa Drive      | Feeder Level         |
| Sheidow Park    | Sheidow Park     | Feeder Level         |
| Sheidow Park    | Trott Park       | Feeder Level         |
| Smithfield West | Andrews Farm     | Feeder Level         |
|                 |                  |                      |

| SUBSTATION NAME   | FEEDER NAME            | DYNAMIC ARMING LEVEL |
|-------------------|------------------------|----------------------|
| Smithfield West   | Munno Para             | Feeder Level         |
| Smithfield West   | Munno Para West        | Feeder Level         |
| Smithfield West   | Smithfield Plains      | Feeder Level         |
| Snuggery          | Canunda Wind Gen No. 1 | Line Level           |
| Snuggery          | Canunda Wind Gen No. 2 | Line Level           |
| Snuggery          | Hatherleigh            | Line Level           |
| Snuggery          | Kalangadoo             | Line Level           |
| Snuggery          | KCA No. 1              | Line Level           |
| Snuggery          | KCA No. 2              | Line Level           |
| Snuggery          | KCA No. 3              | Line Level           |
| Square Water Hole | Flagstaff Hill         | Feeder Level         |
| Square Water Hole | Mount Compass          | Feeder Level         |
| Square Water Hole | Pambula                | Feeder Level         |
| Square Water Hole | Tooperang              | Feeder Level         |
| Stockwell         | Truro                  | Feeder Level         |
| Stockwell         | Willows                | Feeder Level         |
| Strathalbyn       | Belvidere              | Bus Level            |
| Strathalbyn       | Strathalbyn East       | Bus Level            |
| Strathalbyn       | Strathalbyn West       | Bus Level            |
| Streaky Bay       | Flinders               | Feeder Level         |
| Streaky Bay       | Streaky Bay            | Feeder Level         |
| Tailem Bend       | Coonalpyn              | Feeder Level         |
| Tailem Bend       | Sherlock               | Feeder Level         |
| Tailem Bend       | Woods Point            | Feeder Level         |
| Tailem Bend Town  | Tailem Bend East       | Bus Level            |
| Tailem Bend Town  | Tailem Bend West       | Bus Level            |
| Tarlton           | Wirrulla               | Feeder Level         |
| Tarpeena South    | Tarpeena               | Feeder Level         |
| Tarpeena South    | Timberlink 1           | Feeder Level         |
| Tarpeena South    | Timberlink 2           | Feeder Level         |
| Tea Tree Gully    | Banksia Park           | Feeder Level         |
| Tea Tree Gully    | Redwood Park           | Feeder Level         |
| Tea Tree Gully    | Ridgehaven             | Feeder Level         |
| Tea Tree Gully    | Surrey Downs           | Feeder Level         |
| Tea Tree Gully    | Tea Tree Gully         | Feeder Level         |
| Tea Tree Gully    | Vista                  | Feeder Level         |
| Tonsley Park      | Burbank                | Bus Level            |
|                   |                        |                      |

| SUBSTATION NAME              | FEEDER NAME             | DYNAMIC ARMING LEVEL |
|------------------------------|-------------------------|----------------------|
| Tonsley Park                 | Marion                  | Bus Level            |
| Tonsley Park                 | Mitchell Park           | Bus Level            |
| Two Wells                    | Korunye Glasshouse      | Feeder Level         |
| Two Wells                    | Two Wells Township      | Feeder Level         |
| Victor Harbor                | Encounter Bay           | Feeder Level         |
| Victor Harbor                | Inman Valley            | Feeder Level         |
| Victor Harbor                | Town Centre             | Feeder Level         |
| Victor Harbor                | Urimbirra               | Feeder Level         |
| Victor Harbor                | Victor Harbor East      | Feeder Level         |
| Victor Harbor                | Victor Harbor West      | Feeder Level         |
| Virginia                     | Old Port Wakefield Road | Feeder Level         |
| Virginia                     | Port Gawler             | Feeder Level         |
| Virginia                     | Supple Road             | Feeder Level         |
| Waikerie                     | Lowbank                 | Bus Level            |
| Waikerie                     | Waikerie South          | Bus Level            |
| Waikerie                     | Waikerie West           | Bus Level            |
| Wallaroo                     | Wallaroo East           | Bus Level            |
| Wallaroo                     | Wallaroo West           | Bus Level            |
| Waterloo Distribution        | Auburn                  | Line Level           |
| Waterloo Distribution        | Clare                   | Line Level           |
| Waterloo Distribution        | Marrabel                | Line Level           |
| Waterloo Distribution        | Robertstown             | Line Level           |
| White Sands                  | Flagstaff               | Feeder Level         |
| Whyalla Central Distribution | Whyalla City 1          | Line Level           |
| Whyalla Central Distribution | Whyalla City 2          | Line Level           |
| Whyalla Central Distribution | Whyalla North           | Line Level           |
| Whyalla Central Distribution | Whyalla Stuart          | Line Level           |
| Whyalla City                 | Broadbent Terrace       | Feeder Level         |
| Whyalla City                 | George Avenue           | Feeder Level         |
| Whyalla City                 | Hospital                | Feeder Level         |
| Whyalla City                 | Hummock Hill            | Feeder Level         |
| Whyalla City                 | Jacobs Street           | Feeder Level         |
| Whyalla City                 | Russell Street          | Feeder Level         |
| Whyalla City                 | Viscount Slim           | Feeder Level         |
| Whyalla North                | Betatene                | Feeder Level         |
| Whyalla North                | West                    | Feeder Level         |
| Whyalla Stuart               | Flinders Avenue         | Feeder Level         |
|                              |                         |                      |

| SUBSTATION NAME      | FEEDER NAME       | DYNAMIC ARMING LEVEL |
|----------------------|-------------------|----------------------|
| Whyalla Stuart       | Middleback        | Feeder Level         |
| Whyalla Stuart       | Opie Street       | Feeder Level         |
| Whyalla Stuart       | Westland          | Feeder Level         |
| Whyalla Stuart       | Whyalla Jenkins   | Feeder Level         |
| Williamstown         | Mt Crawford       | Feeder Level         |
| Williamstown South   | Williamstown      | Feeder Level         |
| Willunga             | McLaren Vale      | Line Level           |
| Willunga             | Square Water Hole | Line Level           |
| Willunga             | Willunga          | Feeder Level         |
|                      | Willunga North /  |                      |
| Willunga             | Dingabledinga     | Feeder Level         |
| Woods Point          | Brinkley East     | Bus Level            |
| Woods Point          | Monteith          | Bus Level            |
| Woods Point          | Woods Point       | Bus Level            |
| Woodville            | Albert Park       | Bus Level            |
| Woodville            | Cheltenham        | Bus Level            |
| Woodville            | Woodville         | Feeder Level         |
| Woodville            | Woodville South   | Bus Level            |
| Woolpunda            | Devlins Pound     | Bus Level            |
| Woolpunda            | Woolpunda         | Bus Level            |
| Woolpunda            | Woolpunda East    | Bus Level            |
| Wudinna Distribution | Moorkitabie       | Line Level           |
| Wudinna Distribution | Polda             | Feeder Level         |
| Wudinna              | Minnipa           | Bus Level            |
| Wudinna              | Warramboo         | Bus Level            |
| Yankalilla           | Bald Hills        | Feeder Level         |
| Yankalilla           | Normanville       | Feeder Level         |
| Yankalilla           | Wattle Flat       | Feeder Level         |

# 11 Appendix 4 – Network locations for inaugural installation of under frequency load shedding capability (non-dynamic)

The relevant entity must amend or install relays in accordance with Section 6 of this document at the following locations:#

| SUBSTATION NAME  | FEEDER NAME | UNDER FREQUENCY LEVEL |
|------------------|-------------|-----------------------|
| Cleve            | Boothby     | Bus Level             |
| Cleve            | Cleve       | Bus Level             |
| Coromandel Place | AO2 & GC4   | Bus Level             |
| Coromandel Place | CH2 & UN2   | Bus Level             |
| Coromandel Place | CKT         | Bus Level             |
| Coromandel Place | FGP & HS2   | Bus Level             |
| Coromandel Place | GC4 & GFP   | Bus Level             |
| Coromandel Place | GFP & HS1   | Bus Level             |
| Coromandel Place | GHM         | Bus Level             |
| Coromandel Place | GPW         | Bus Level             |
| Coromandel Place | HS3 & UN3   | Bus Level             |
| Coromandel Place | NT4         | Bus Level             |
| Coromandel Place | PW3         | Bus Level             |
| Coromandel Place | PW4         | Bus Level             |
| Coromandel Place | PW5         | Bus Level             |
| Coromandel Place | PW6 & GPN   | Bus Level             |
| Coromandel Place | RAH1        | Bus Level             |
| Coromandel Place | RGP         | Bus Level             |
| Coromandel Place | RGP & CH1   | Bus Level             |
| Coromandel Place | TORRENS     | Bus Level             |
| Coromandel Place | TP1         | Bus Level             |
| Coromandel Place | UN4 & GPW   | Bus Level             |
| East Terrace     | FF3 & GGP   | Bus Level             |
| East Terrace     | FGP & FF2   | Bus Level             |
| East Terrace     | GA1         | Bus Level             |
| East Terrace     | GC3 & RH1   | Bus Level             |
| East Terrace     | GC4 & PW2   | Bus Level             |
| East Terrace     | GG2         | Bus Level             |
| East Terrace     | GGP         | Bus Level             |
| East Terrace     | GHP         | Bus Level             |
| East Terrace     | GHP         | Bus Level             |
| East Terrace     | GW2 & UH3   | Bus Level             |
| East Terrace     | H1 & GW1    | Bus Level             |
| East Terrace     | H2          | Bus Level             |
| East Terrace     | NT3         | Bus Level             |
| East Terrace     | TG1 & TF1   | Bus Level             |
| East Terrace     | UH2         | Bus Level             |
|                  |             |                       |

| SUBSTATION NAME    | FEEDER NAME      | UNDER FREQUENCY LEVEL |
|--------------------|------------------|-----------------------|
| East Terrace       | UH4              | Bus Level             |
| East Terrace       | UH5              | Bus Level             |
| East Terrace       | UH6 & FGP        | Bus Level             |
| East Terrace       | UH7              | Bus Level             |
| East Terrace       | UN1              | Bus Level             |
| Elizabeth South    | Elizabeth Vale D | Feeder Level          |
| Elizabeth South    | GMH H3 & H10     | Feeder Level          |
| Elizabeth South    | GMH H8 & H9      | Feeder Level          |
| Flinders Park      | Sungard 1        | Feeder Level          |
| Flinders Park      | Sungard 2        | Feeder Level          |
| Kent Town          | Dulwich          | Feeder Level          |
| Kent Town          | Rose Park        | Feeder Level          |
| Keswick            | Ashford          | Bus Level             |
| Keswick            | Glandore         | Bus Level             |
| Keswick            | Showground       | Bus Level             |
| Kincraig           | Inverness        | Bus Level             |
| Morphett Vale East | Morphett Vale    | Feeder Level          |
| Panorama           | Reade Park       | Feeder Level          |
| Port Stanvac       | Mitsubishi No3   | Bus Level             |
| Port Stanvac       | Mitsubishi No4   | Bus Level             |
| Whyalla Terminal   | Onesteel LMF     | Line Level            |

### Further information

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