

DISTRIBUTION LOSS FACTORS FOR THE 2016 / 2017 FINANCIAL YEAR

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| 1.0 | 31/03/2016 | Posted on the AEMO website in accordance with clause 3.6.3(i) of the National Electricity Rules. |
| 2.0 | 18/05/2016 | Updated to include SAPN's DLF values. |
| 3.0 | 13/12/2016 | Updated to include second generator for Moranbah North Coal Mine Network's Embedded Generation and two new generators for ActewAGL. |

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Rules Requirements

As specified in the National Electricity Rules, distribution loss factors:

- Notionally describe the average electrical energy losses for electricity transmitted on a distribution network between a distribution network connection point and a transmission network connection point or virtual transmission node for the financial year in which they apply;
- Will either be a site specific distribution loss factor, as defined in clause 3.6.3(b)(2)(i), or derived from the volume weighted average of the average electrical energy loss in the distribution network, as defined in clause 3.6.3(b)(2)(ii); and
- Are to be used in the settlement process as a notional adjustment to the electrical energy flowing at a distribution network connection point in a trading interval to determine the adjusted gross energy amount for that connection point in that trading interval, in accordance with clause 3.15.4.

Clause 3.6.3(i) requires that each year the Distribution Network Service Provider must determine the distribution loss factors to apply in the next financial year in accordance with clause 3.6.3(g) and provide these to AEMO for publication by 1 April. Before providing the distribution loss factors to AEMO for publication, the Distribution Network Service Provider must obtain the approval of the AER for the distribution loss factors it has determined for the next financial year.

Distribution Loss Factors for 2016/17

The Queensland DLFs for the 2016/17 financial year are tabulated in Appendix A.

The Victorian DLFs for the 2016/17 financial year are tabulated in Appendix B.

The NSW DLFs for the 2016/17 financial year are tabulated in Appendix C.

The ACT DLFs for the 2016/17 financial year are tabulated in Appendix D.

The South Australian DLFs for the 2016/17 financial year are tabulated in Appendix E.

The Tasmanian DLFs for the 2016/17 financial year are tabulated in Appendix F.

Appendix G contains a contact for each Distribution Network Service Provider (DNSP). Any questions regarding distribution connection points and DLFs should be referred to the relevant DNSP and their listed contact.

Appendix A: Queensland Distribution Loss Factors for 2016/17

Table A1: Energex's Average DLFs

| NETWORK LEVEL | DLF CODE | DLF APPLIED IN 2015/16 | DLF TO APPLY IN 2016/17 |
|----------------------|----------|---------------------------|----------------------------|
| 110 kV connected | FSSS | 1.0037 | 1.0040 |
| 33 kV connected | F3CL | 1.0107 | 1.0098 |
| 11 kV bus connected | F1ZH | 1.0151 | 1.0142 |
| 11 kV line connected | F1CH | 1.0210 | 1.0215 |
| LV bus connected | F1CL | 1.0403 | 1.0419 |
| LV line connected | FLCL | 1.0585 | 1.0578 |

Table A2: Energex's DLFs for Individually Calculated Customers/Generators

| NMI | DLF CODE | DLF APPLIED IN 2015/16 | DLF TO APPLY IN 2016/17 |
|------------|----------|---------------------------|----------------------------|
| 3120081063 | FALK | 1.00637 | 1.01004 |
| QB13708848 | FBEP | 1.01586 | 1.01270 |
| QB13786415 | FBOC | 1.01430 | 1.01138 |
| QB03188493 | FBRR | 1.01945 | 1.00858 |
| QB07156049 | FBAC | 1.01699 | 1.01682 |
| 3116941403 | FAPB | 1.01707 | 1.01672 |
| 3120007259 | FLMD | 1.01656 | 1.01439 |
| QB03674681 | FCAL | 1.00943 | 1.00982 |
| QB03187888 | FQCL | 1.03732 | 1.02819 |
| 3120032960 | FCLT | 1.03264 | 1.00579 |
| 3120033076 | FCST | 1.00457 | 1.00454 |
| QB00011835 | FCRL | 1.02804 | 1.00909 |
| 3120167431 | FEAN | 1.01378 | 1.00832 |
| 3120167432 | FEAS | 1.01141 | 1.00831 |
| 3117267111 | FTD | 1.00807 | 1.00800 |
| 3120001083 | FRAF | 1.01665 | 1.01497 |
| QB03017958 | FQUE | 1.00897 | 1.00806 |
| 3117524016 | FGBI | 1.00337 | 1.00487 |
| 3120048897 | FGHP | 1.00753 | 1.00761 |
| QB08899177 | FHYS | 1.05662 | 1.04609 |
| QB03675327 | FICT | 1.00913 | 1.00776 |
| QB00702307 | FSFT | 1.03729 | 1.03694 |
| QB08144664 | FACI | 1.06493 | 1.05881 |
| 3120085619 | FLWH | 1.03608 | 1.00592 |
| 3120085617 | FLWT | 1.00149 | 1.00075 |
| 3117238161 | FLGP | 1.01054 | 1.01290 |
| 3120081891 | FNBW | 1.11155 | 1.11507 |
| QB03674177 | FQG | 1.01453 | 1.01647 |
| QB05747155 | FPCF | 1.01571 | 1.01684 |
| QB09709916 | FQBH | 1.00060 | 1.00030 |

| NMI | DLF CODE | DLF APPLIED IN 2015/16 | DLF TO APPLY IN 2016/17 |
|------------|----------|---------------------------|----------------------------|
| QB09750568 | FQB | 1.00413 | 1.00007 |
| QB05850851 | FQBW | 1.00101 | 1.00173 |
| QB07417373 | FQCB | 1.00517 | 1.00682 |
| QB03187390 | FQC | 1.00061 | 1.00001 |
| QB07480580 | FQL | 1.00056 | 1.00067 |
| 3120253094 | FQP | 1.01337 | 1.00773 |
| QB12757888 | FQR | 1.00186 | 1.00048 |
| 3120090363 | FQRS | 1.00111 | 1.00033 |
| 3120253056 | FQRW | 1.00692 | 1.00589 |
| QB08485399 | FQT | 1.00424 | 1.00205 |
| 3117476607 | FQW | 1.00126 | 1.00147 |
| QB03675025 | FPAH | 1.01175 | 1.00869 |
| 3120134803 | FQCH | 1.00430 | 1.00727 |
| QB03674151 | FRBH | 1.00786 | 1.00851 |
| QB00703630 | FBCC | 1.01420 | 1.01307 |
| QB02572559 | FNPD | 1.02687 | 1.03241 |
| QMRGW00156 | FSWP | 1.00574 | 1.00668 |
| QB00547778 | FSBB | N/A | 1.03116 |
| 3120152640 | FSUH | N/A | 1.00942 |
| QB07047011 | FSTC | 1.00992 | 1.01272 |
| 3116852575 | FUQ1 | 1.01556 | 1.01530 |
| 3116852583 | FUQ2 | 1.01273 | 1.01262 |
| QB12021814 | FVP | 1.00801 | 1.00864 |
| QB09455507 | FSC | 1.00780 | 1.00764 |
| QB03188523 | FWGC | 1.00514 | 1.00584 |
| 3116578384 | FEIB | 1.04776 | 1.01653 |
| QB14097800 | FRPT | 1.00251 | 0.99919 |
| 3117546923 | FTTB | 1.03327 | 1.03037 |
| 3114538695 | FWHG | 1.05847 | 1.05742 |

Table A3: Ergon Energy's Tariff Class DLFs

| NETWORK LEVEL | DLF APPLIED IN 2015/16 | | | DLF TO APPLY IN 2016/17 | | |
|-----------------|---------------------------|-------|-------|----------------------------|-------|-------|
| | East | West | MI | East | West | MI |
| Sub-Trans. Bus | 1.005 | 1.041 | 1.001 | 1.006 | 1.028 | 1.001 |
| Sub-Trans. Line | 1.011 | 1.071 | 1.005 | 1.011 | 1.062 | 1.006 |
| 22/11kV Bus | 1.015 | 1.078 | 1.008 | 1.015 | 1.068 | 1.008 |
| 22/11kV Line | 1.028 | 1.109 | 1.036 | 1.028 | 1.100 | 1.036 |
| LV Bus | 1.073 | 1.152 | 1.058 | 1.074 | 1.154 | 1.065 |
| LV Line | 1.083 | 1.182 | 1.096 | 1.095 | 1.185 | 1.069 |

| NETWORK LEVEL | DLF CODES | | |
|-----------------|-----------|------|------|
| | East | West | MI |
| Sub-Trans. Bus | GESB | GWSB | GMSB |
| Sub-Trans. Line | GESL | GWSL | GMSL |
| 22/11kV Bus | GEHB | GWHB | GMHB |
| 22/11kV Line | GEHL | GWHL | GMHL |
| LV Bus | GELB | GWLB | GMLB |
| LV Line | GELL | GWLL | GMLL |

Table A4: Ergon Energy's Site Specific DLFs

| NMI | DLF CODE | DLF APPLIED IN 2015/16 | DLF TO APPLY IN 2016/17 |
|------------|----------|---------------------------|----------------------------|
| QDDD000005 | GBSB | 1.000 | 1.000 |
| QAAALV0001 | GBSB | 1.000 | 1.000 |
| QAAAMR0000 | GBSB | 1.000 | 1.000 |
| 3051745071 | GS22 | 1.001 | 1.001 |
| QAAABW0000 | GBSB | 1.000 | 1.000 |
| QAAABW0002 | GS02 | 1.007 | 1.006 |
| 3051526867 | GBSB | 1.000 | 1.000 |
| 3051526859 | GBSB | 1.000 | 1.000 |
| 3051526841 | GBSB | 1.000 | 1.000 |
| 3051526883 | GBSB | 1.000 | 1.000 |
| 3051526891 | GBSB | 1.000 | 1.000 |
| QDDD003345 | GS77 | 1.004 | 1.006 |
| QCCC000004 | GS19 | 1.039 | 1.039 |
| QCCC000014 | GS73 | 1.001 | 1.001 |
| QCCC000002 | GS18 | 1.003 | 1.003 |
| QWAGW00066 | GS65 | 1.010 | 1.010 |
| QAAABW0001 | GS51 | 1.005 | 1.004 |
| QDDD000003 | GS21 | 1.002 | 1.002 |
| QAAALV0000 | GBSB | 1.000 | 1.000 |
| QGGG000394 | GS40 | 1.098 | 1.095 |
| QAAABX0014 | GS69 | 1.008 | 1.006 |
| QEMS000001 | GS64 | 1.010 | 1.010 |
| QAAALV0002 | GBSB | 1.000 | 1.000 |
| QCCC000003 | GBSB | 1.000 | 1.000 |
| QCCC000012 | GS85 | 1.061 | 1.056 |
| QAAALV0004 | GBSB | 1.000 | 1.000 |
| QAAABX0012 | GS70 | 1.000 | 1.001 |
| 3051111985 | GS06 | 1.007 | 1.006 |
| QAAARG0000 | GS14 | 1.004 | 1.004 |
| QAAAMR0001 | GS13 | 1.002 | 1.004 |
| QAAABW0041 | GS62 | 1.015 | 1.021 |
| QAAALX0000 | GS12 | 1.017 | 1.017 |
| QAAABL0000 | GBSB | 1.000 | 1.000 |
| 3051844184 | GS84 | 1.000 | 1.000 |
| 3051467399 | GS86 | 1.009 | 1.010 |
| QDDD000028 | GS87 | 1.002 | 1.000 |
| QDDD003342 | GS88 | 1.011 | 1.014 |
| 3051492237 | GS89 | 1.001 | 1.000 |
| 3051988348 | GS90 | NEW | 1.002 |
| QCCC000020 | GS82 | 1.011 | 1.010 |
| QCCC000018 | GS83 | 1.006 | 1.006 |

Table A5: Ergon Energy's DLFs Embedded Generators

| NMI | DLF CODE | DLF APPLIED IN 2015/16 | DLF TO APPLY IN 2016/17 |
|------------|----------|------------------------|-------------------------|
| QEEE000547 | GS26 | 0.991 | 0.992 |
| QEEE000026 | GS55 | 0.977 | 0.976 |
| QCQPW00076 | GS49 | 0.942 | 0.970 |
| QFFF000010 | GS29 | 0.984 | 0.983 |
| QFFF00000Z | GS30 | 0.984 | 0.983 |
| QCCC001041 | GS67 | 0.967 | 0.973 |
| QDDD003206 | GS71 | 0.998 | 0.999 |
| 3052323901 | GBSB | 1.000 | 1.000 |
| QCCC001036 | GS56 | 0.992 | 0.992 |
| QMKYW00147 | GBSB | 1.000 | 1.000 |
| QGGG000418 | GS74 | 1.001 | 1.001 |
| 3051393689 | GS76 | 0.952 | 0.949 |
| QEEE000050 | GS79 | 0.978 | 0.976 |
| 3051745577 | GS80 | 0.982 | 0.994 |
| 3051532166 | GS81 | 0.986 | 0.987 |

Table A6: Oaky Creek Coal Network's Embedded Generation DLF

| NMI | DLF CODE | DLF APPLIED IN 2015/16 | DLF TO APPLY IN 2016/17 |
|------------|----------|------------------------|-------------------------|
| 7102000028 | XOCN | 0.9905 | 0.9762 |
| 7102000029 | XOC2 | N/A | 0.9735 |

Table A7: Capcoal Network's Embedded Generation DLF

| NMI | DLF CODE | DLF APPLIED IN 2015/16 | DLF TO APPLY IN 2016/17 |
|------------|----------|------------------------|-------------------------|
| 7102000033 | XCCN | 0.9952 | 0.9981 |

Table A8: Moranbah North Coal Mine Network's Embedded Generation DLF

| NMI | DLF CODE | DLF APPLIED IN 2015/16 | DLF TO APPLY IN 2016/17 |
|------------|----------|------------------------|-------------------------|
| 7102000038 | XMCN | 0.9865 | 0.9974 |
| 7102000039 | XMGR | N/A | 0.9962 |

Appendix B: Victoria Distribution Loss Factors for 2016/17

Table B1: Approved Network Average DLFs

| DISTRIBUTORS | DISTRIBUTION LOSS FACTORS | | | | | |
|-----------------|---------------------------|--------|--------|--------|--------|--------|
| | Type | DLF A | DLF B | DLF C | DLF D | DLF E |
| Jemena | Short Sub-transmission | 1.0045 | 1.0098 | 1.0225 | 1.0383 | 1.0449 |
| | Long Sub-transmission | 1.0237 | 1.0289 | 1.0417 | 1.0574 | 1.0640 |
| CitiPower | Short sub-transmission | 1.0035 | 1.0108 | 1.0131 | 1.0348 | 1.0400 |
| Powercor | Short sub-transmission | 1.0041 | 1.0098 | 1.0351 | 1.0611 | 1.0698 |
| | Long sub-transmission | 1.0339 | 1.0396 | 1.0649 | 1.0909 | 1.0996 |
| AusNet Services | Short sub-transmission | 1.0045 | 1.0135 | 1.0328 | 1.0592 | 1.0689 |
| | Long sub-transmission | 1.0248 | 1.0338 | 1.0531 | 1.0795 | 1.0892 |
| United Energy | Short sub-transmission | 1.0047 | 1.0111 | 1.0178 | 1.0397 | 1.0544 |
| | Long sub-transmission | 1.0202 | 1.0266 | 1.0333 | 1.0552 | 1.0699 |

| DISTRIBUTORS | DISTRIBUTION LOSS FACTOR CODES | | | | | |
|-----------------|--------------------------------|-------|-------|-------|-------|-------|
| | TYPE | DLF A | DLF B | DLF C | DLF D | DLF E |
| Jemena | Short sub-transmission | CSAS | CHBS | CHCS | CLDS | CLES |
| | Long sub-transmission | CSAL | CHBL | CHCL | CLDL | CLEL |
| CitiPower | Short sub-transmission | ESTA | EZSB | EHVC | EDSD | ELVE |
| Powercor | Short sub-transmission | KAS | KBS | KCS | KDS | KES |
| | Long sub-transmission | KAL | KBL | KCL | KDL | KEL |
| AusNet Services | Short sub-transmission | LASS | LBSS | LCHS | LDLS | LELS |
| | Long sub-transmission | LASL | LBSL | LCHL | LDLL | LELL |
| United Energy | Short sub-transmission | MSAS | MHBS | MHCS | MLDS | MLES |
| | Long sub-transmission | MSAL | MHBL | MHCL | MLDL | MLEL |

Notes:

- DLF- A is the distribution loss factor to be applied to a second tier customer or market customer connected to a sub-transmission line at 66 kV or 22 kV.
- DLF- B is the distribution loss factor to be applied to a second tier customer or market customer connected to the lower voltage side of a zone substation at 22 kV, 11 kV or 6.6 kV.
- DLF- C is the distribution loss factor to be applied to a second tier customer or market customer connected to a distribution line from a zone substation at voltage of 22 kV, 11 kV or 6.6 kV.
- DLF- D is the distribution loss factor to be applied to a second tier customer or market customer connected to the lower voltage terminals of a distribution transformer at 240/415 V.
- DLF- E is the distribution loss factor to be applied to a second tier customer or market customer connected to a low voltage line at 240/415 V.
- Separate DLFs are also calculated for each DLF category A to E depending on whether the length of the sub-transmission line supplying the customer upstream of the customer's connection point is 'short' or 'long'.

A short sub-transmission line is defined as:

- A radial sub-transmission line where the route length of the line is less than 20 km, or
- A sub-transmission line in a loop where the total route length of all lines in the loop is less than 40 km.

All other sub-transmission lines are defined as 'long sub-transmission'.

Table B2: Approved site-specific DLFs for large load customers

| DISTRIBUTOR | CUSTOMER NMI | DLF CODES | DLF TO APPLY IN 2016/17 |
|-----------------|--------------|-----------|----------------------------|
| Jemena | VDDD000495 | CVPC | 1.0095 |
| | 6001280255 | CAPA | 1.0058 |
| | VDDD000244 | CFMC | 1.0107 |
| | VDDD000134 | CAGP | 1.0125 |
| | 6001001784 | CAHH | 1.0147 |
| CitiPower | VAAA000673 | ESS4 | 1.0170 |
| Powercor | VCCCAF0002 | KAF1 | 1.0008 |
| | VCCCAF0001 | KAF | 1.0066 |
| | VCCDA0031 | KDA2 | 1.0017 |
| | VCCCGD0001 | KGD | 1.0010 |
| | VCCCGJ0001 | KGJ | 1.0020 |
| | VCCDA0022 | KAS | DLF A Short (KAS) |
| | VCCCRD0007 | KRD | 1.0074 |
| | VCCDA0025 | KDA1 | 1.0086 |
| | VCCCAD0001 | KAD | 1.0119 |
| | VCCSE0004 | KSE | 1.0545 |
| | VCCGE0019 | KGE | 1.0091 |
| | VCCBC0025 | KBC | 1.0314 |
| | VCCCTE0002 | KTE | 1.0489 |
| | VCCSB0012 | KSB | 1.0600 |
| | 6203803617 | KBN | 1.0077 |
| | VCCCLD0024 | KLD | 1.0088 |
| AusNet Services | VBBB000073 | LL02 | 1.0036 |
| | VBBB000161 | LL05 | 1.0044 |
| | VBBB000058 | LL01 | 1.0233 |
| | VBBB000096 | LL03 | 1.0343 |
| United Energy | VEEE0PD8AD | MC05 | 1.0113 |
| | VEEE0TF39Q | MC06 | 1.0132 |
| | VEEE0BG4Q3 | MC02 | 1.0173 |
| | VEEE0NDNEX | MC04 | 1.0256 |
| | 6407799056 | MC08 | 1.0189 |
| | VEEE08KH3V | MC01 | 1.0098 |
| | VEEE0C8AW1 | MC03 | 1.0077 |
| | VEEE0ATYTH | MC07 | 1.0204 |

Table B3: Approved DLFs for large embedded generators

| DISTRIBUTOR | NMI | DLF CODES | DLF TO APPLY IN 2016/17 |
|--------------------|------------|------------------|--------------------------------|
| Jemena | 6001264751 | CSOG | 0.9888 |
| Powercor | 6203661632 | KCH | 0.9643 |
| | 6203008782 | KCF | 1.0246 |
| | 6203690629 | KYW | 1.0246 |
| | 6203811032 | KOH | 0.9047 |
| | 6203829699 | KML | 0.9191 |
| | 6203879058 | KCB | 1.0295 |
| AusNet Services | 6305010110 | LG03 | 1.0441 |
| | 6305651897 | LG03 | 1.0441 |
| | 6305656070 | LG02 | 1.0412 |
| | 6305721689 | LG07 | 1.0504 |
| | VBBB002342 | LG04 | 1.0266 |
| | VMBTWZCLPS | LG05 | 0.9968 |
| | VTTSWZRUBX | LG06 | 1.0142 |
| | 6305908426 | LG08 | 1.0258 |
| | 6305940506 | LG09 | 1.0314 |
| | 6305941257 | LG09 | 1.0314 |
| United Energy | 6407649172 | MG01 | 1.0111 |

Appendix C: NSW Distribution Loss Factors for 2016/17

Table C1: Endeavour Energy's DLFs for Tariff Classes

| TARIFF CLASS | DLF CODE | DLF APPLIED IN 2015/16 | DLF TO APPLY IN 2016/17 |
|-----------------------------------|----------|------------------------|-------------------------|
| 132 kV Network | HNVL | 1.0034 | 1.0031 |
| Transmission Substation | HSTS | 1.0078 | 1.0071 |
| Subtransmission Network | HSTL | 1.0109 | 1.0101 |
| Zone Substation | HHVT | 1.0115 | 1.0108 |
| High Voltage Distribution Network | HHVL | 1.0185 | 1.0173 |
| Distribution Substation | HLVT | 1.0485 | 1.0460 |
| Low Voltage Network | HLVL | 1.0682 | 1.0673 |

Table C2: Endeavour Energy's DLFs for Embedded Generators

| NMI | DLF CODE | DLF APPLIED IN 2015/16 | DLF TO APPLY IN 2016/17 |
|------------|----------|------------------------|-------------------------|
| NEEE000748 | HTX2 | 1.0025 | 0.9980 |
| NEEE000749 | HTX3 | 1.0115 | 1.0099 |
| NEEE000750 | HTX4 | 1.0051 | 1.0125 |
| 4310951391 | HNC1 | 0.9994 | 0.9990 |

Table C3: Endeavour Energy's DLFs for CRNP Customers

| NMI | DLF CODE | DLF APPLIED IN 2015/16 | DLF TO APPLY IN 2016/17 |
|------------|----------|------------------------|-------------------------|
| NEEE000003 | HTX6 | 1.0148 | 1.0088 |
| NEEE000005 | HHY1 | 1.0152 | 1.0104 |
| NEEE000006 | HTY5 | 1.0310 | 1.0220 |
| NEEE000014 | HTY7 | 1.0061 | 1.0050 |
| NEEE000032 | HSTS | 1.0078 | 1.0071 |
| NEEE000046 | HTV2 | 1.0019 | 1.0023 |
| NEEE000049 | HHV1 | 1.0123 | 1.0075 |
| NEEE000066 | HTY4 | 1.0310 | 1.0355 |
| NEEE000506 | HHY4 | 1.0134 | 1.0129 |
| NEEE000707 | HHY5 | 1.0265 | 1.0231 |

| NMI | DLF CODE | DLF APPLIED IN 2015/16 | DLF TO APPLY IN 2016/17 |
|--|----------|------------------------|-------------------------|
| NEEE000758 NEEE000759 | HIC1 | 1.0385 | 1.0312 |
| NEEE000760 NEEE000762 NEEE000764 NEEE000766 NEEE000768 | HTV4 | 1.0035 | 1.0042 |
| 4311061116 4311061119 | HTY3 | 1.0069 | 1.0060 |
| NEEE001591 | HTX5 | 1.0081 | 1.0078 |
| 4311028276 4311028297 | HHY3 | 1.0135 | 1.0100 |
| NEEE001656 | HTV1 | 1.0055 | 1.0043 |
| NEEE001892 | HTX1 | 1.0087 | 1.0094 |
| NEEEW00001 NEEEW00002 | HTF1 | 1.0010 | 1.0002 |
| NEEEW04150 NEEEW04151 NEEEW04152 NEEEW04153 NEEEW04154 | HTF2 | 1.0078 | 1.0077 |
| NEEE005219 | HTX8 | 1.0082 | 1.0071 |
| 4311206443 | HTX9 | 1.0047 | 1.0039 |
| NEEE000013 | HSTL | 1.0109 | 1.0101 |
| 4311019016 4311044309 | HSTL | 1.0109 | 1.0101 |
| NEEE004639 | HHVT | 1.0086 | 1.0108 |
| 4310857952 | HTYA | 1.0109 | 1.0122 |

Table C4: Essential Energy's Site Specific DLFs

| NMI | DLF CODE | DLF APPLIED IN 2015/16 | DLF TO APPLY IN 2016/17 |
|------------|----------|------------------------|-------------------------|
| 4001193201 | BS02 | 0.9769 | 0.9515 |
| 4001185251 | BS03 | 1.0032 | 1.0109 |
| 4001161869 | BS32 | 1.1644 | 1.1278 |
| NAAA00AC11 | BS33 | 1.1176 | 1.1083 |
| 4001224331 | BS35 | 1.0120 | 1.0137 |
| NTTTW0RU20 | BS37 | 1.0000 | 1.0000 |
| NAAANRAB50 | BS38 | 1.0199 | 1.0169 |
| NAAA00AC21 | BS39 | 1.0224 | 1.0202 |
| NAAA00AB64 | BS40 | 1.1151 | 1.1135 |
| NAAANRAA01 | BS41 | 1.1213 | 1.1263 |
| 4001151659 | BS43 | 1.0010 | 0.9963 |
| 4001231299 | BS43 | N/A | 0.9963 |
| NFFFNRKU39 | BS44 | 0.9964 | 0.9962 |
| 4001175717 | BS45 | 1.0458 | 1.0469 |
| 4508034707 | BS46 | 1.0490 | 1.0554 |
| 4001210762 | BS48 | 0.9873 | 0.9893 |
| 4001231908 | BS50 | 0.9868 | 0.9786 |
| NAAANRAA02 | BS51 | 1.0048 | 1.0092 |
| 4001223403 | BS52 | 1.0549 | 1.0466 |
| 4001242173 | BS53 | 1.0065 | 1.0065 |
| 4001251721 | BS54 | 0.9878 | 0.9855 |
| 4001246761 | BS55 | 0.9923 | 0.9958 |
| 4001227465 | BS56 | 1.0130 | 1.0137 |
| 4001258249 | BS57 | 0.9955 | 0.9960 |
| 4001241798 | BS58 | 0.9944 | 0.9940 |
| 4001202550 | BS60 | N/A | 1.0095 |
| NTTTW0W110 | UNIT | 1.0000 | 1.0000 |

Table C5: Essential Energy's General DLFs

| CLASS | DLF CODE | DLF APPLIED IN 2015/16 | DLF TO APPLY IN 2016/17 |
|-------------------------|------------------------------------|------------------------|-------------------------|
| Low Voltage | BL0A, DLDL, DLD2, DLD6, DLGB, DLGD | 1.0869 | 1.0815 |
| LV & Metered at CE | BL5A | 1.0558 | 1.0585 |
| High Voltage Line | BH0A | 1.0336 | 1.0388 |
| High Voltage Substation | BH5A | 1.0180 | 1.0183 |
| Sub-transmission | BS0A | 1.0111 | 1.0100 |

Table C6: Ausgrid's DLFs for Tariff Classes

| TARIFF CODE | TARIFF CLASS | LOCATION | DLF APPLIED IN 2015/16 | DLF TO APPLY IN 2016/17 | DLF Code |
|-------------|-------------------------------------|---------------|------------------------|-------------------------|----------|
| EA010 | Residential Inclining Block | LV system | 1.0637 | 1.0581 | JLDL |
| EA025 | Residential ToU | LV system | 1.0554 | 1.0516 | JL40 |
| EA030 | Controlled Load 1 | LV system | 1.0637 | 1.0581 | JL1L |
| EA040 | Controlled Load 2 | LV system | 1.0637 | 1.0581 | JL2L |
| EA050 | Small Business Inclining Block | LV system | 1.0558 | 1.0513 | JLSL |
| EA225 | Small Business ToU | LV system | 1.0558 | 1.0513 | JLSL |
| EA301 | LV 40-160 MWh (Transition - Closed) | LV system | 1.0558 | 1.0513 | JLSL |
| EA302 | LV 40-160 MWh (System) | LV system | 1.0558 | 1.0513 | JLSL |
| EA305 | LV 160-750 MWh (System) | LV system | 1.0558 | 1.0513 | JLSL |
| EA310 | LV >750 MWh (System) | LV system | 1.0558 | 1.0513 | JLSL |
| EA325 | LV Connection (Standby Tariff) | LV system | 1.0558 | 1.0513 | JLSL |
| EA360 | HV Connection (Standby Tariff) | HV system | 1.0177 | 1.0154 | JHSH |
| EA370 | HV Connection (System) | HV system | 1.0177 | 1.0154 | JHSH |
| EA380 | HV Connection (Substation) | HV substation | 1.0123 | 1.0123 | JHBH |
| EA390 | ST Connection | ST System | 1.0061 | 1.0064 | JSSS |
| EA391 | ST Connection (Substation) | ST substation | N/A | 1.0064 | JSBS |
| EA401 | Public Lighting | LV system | 1.0817 | 1.0660 | JLSP |
| EA402 | Constant Unmetered | LV system | 1.0608 | 1.0556 | JLSU |
| EA403 | Energy Light | LV system | 1.0817 | 1.0660 | JLSP |
| EA501 | Transmission Connection | Transmission | N/A | 1.0000 | JTRN |

Table C7: Ausgrid's DLFs for CRNP Customers

| NMI | LOCATION | DLF APPLIED IN 2015/16 | DLF TO APPLY IN 2016/17 | DLF CODE |
|-------------|-----------------------|------------------------|-------------------------|----------|
| 4103736926 | 33 kV system | 1.0016 | 1.0024 | J550 |
| 4103736927 | 33 kV system | 1.0016 | 1.0024 | J550 |
| NCCCNREA06 | 33/11 kV substations | 1.0090 | 1.0097 | J660 |
| 4103748279 | 132 kV system | 1.0000 | 1.0000 | J885 |
| 4103507254 | 33 kV system | 1.0023 | 1.0028 | JGLB |
| 4103507266 | 33 kV system | 1.0023 | 1.0028 | JGLB |
| 4103841748 | 33 kV system | 1.0023 | 1.0028 | JGLB |
| NCCCNRNP40 | 132 kV transmission | 1.0000 | 1.0000 | JCAP |
| NCCCNRNP50 | 132 kV transmission | 1.0000 | 1.0000 | JCAP |
| NCCCW RNP60 | 132 kV transmission | 1.0000 | 1.0000 | JCAP |
| NCCCZ01251 | 33 kV system | 1.0010 | 1.0022 | J881 |
| 4102016227 | 33 kV transmission | 1.0005 | 1.0005 | JTOL |
| 4102016252 | 33 kV transmission | 1.0005 | 1.0005 | JTOL |
| 4103770084 | 132 kV transmission | 1.0011 | 1.0018 | J887 |
| 4103770085 | 132 kV transmission | 1.0011 | 1.0018 | J886 |
| NCCCZ01381 | 33 kV transmission | 1.0009 | 1.0009 | J800 |
| 4103769153 | 33 kV system | 1.0030 | 1.0045 | J700 |
| 4103769154 | 33 kV system | 1.0030 | 1.0045 | J700 |
| NCCCNRZ1BK | 132/33 kV substations | 1.0201 | 1.0026 | J635 |
| 4103686298 | 66 kV system | 1.0061 | 1.0064 | JSSS |
| NCCCX00745 | 33 kV transmission | 1.0002 | 1.0003 | J640 |
| NCCCX00746 | 33 kV transmission | 1.0002 | 1.0003 | J640 |
| NCCCX00747 | 33 kV transmission | 1.0002 | 1.0003 | J640 |
| 4103507347 | 132/33 kV substations | 1.0048 | 1.0149 | J601 |
| NCCCNRZ1BM | 132 kV system | 1.0035 | 1.0063 | J580 |
| NCCCX00332 | 132/66 kV substations | 1.0001 | 1.0002 | J590 |
| NCCCNRZZB0 | 132/33 kV substations | 1.0046 | 1.0060 | J610 |
| NCCCX00750 | 33 kV transmission | 1.0009 | 1.0008 | J620 |
| NCCCX00751 | 33 kV transmission | 1.0009 | 1.0008 | J620 |
| NCCCX00752 | 33 kV transmission | 1.0009 | 1.0008 | J620 |
| NCCCX00753 | 33 kV transmission | 1.0009 | 1.0008 | J620 |
| NCCC007211 | 33 kV system | 1.0100 | 1.0075 | J605 |
| NCCCNRZ1BQ | 33 kV transmission | 1.0006 | 1.0055 | J655 |
| NCCCX00283 | 132/33 kV substations | 1.0029 | 1.0036 | J630 |
| NCCCX00284 | 132/33 kV substations | 1.0029 | 1.0036 | J630 |
| NCCCX00748 | 132/33 kV substations | 1.0079 | 1.0062 | J615 |
| NCCCX00749 | 132/33 kV substations | 1.0079 | 1.0062 | J615 |
| NCCCNRZ1BT | 132/33 kV substations | 1.0007 | 1.0063 | J645 |
| NCCCX00293 | 132/33 kV substations | 1.0099 | 1.0070 | J600 |
| NCCCX00294 | 132/33 kV substations | 1.0099 | 1.0070 | J600 |
| NCCC002902 | 66 kV system | 1.0050 | 1.0066 | JK23 |
| NCCC002221 | 66 kV system | 1.0124 | 1.0078 | J500 |
| NCCCZ01275 | 132/33 kV substations | 1.0010 | 1.0045 | J560 |
| NCCCNREEK2 | 33 kV system | 1.0087 | 1.0081 | J541 |

| NMI | LOCATION | DLF APPLIED IN 2015/16 | DLF TO APPLY IN 2016/17 | DLF CODE |
|------------|-----------------------|------------------------|-------------------------|----------|
| 4102030738 | 33 kV system | 1.0070 | 1.0069 | J543 |
| 4103628537 | 33 kV system | 1.0070 | 1.0069 | J543 |
| NCCCNRCS90 | HV system | 1.0111 | 1.0125 | J670 |
| NCCCNRZ1XJ | 66 kV system | 1.0138 | 1.0147 | J680 |
| NCCCNREA14 | 132/11 kV substations | 1.0158 | 1.0103 | J770 |
| 4103798233 | 66 kV system | 1.0150 | 1.0072 | J771 |
| NCCCNREB57 | 33/11 kV substations | 1.0160 | 1.0153 | J772 |
| NCCCNREB24 | 132/11 kV substations | 1.0302 | 1.0301 | J773 |
| 4103598315 | 132/66 kV substations | 1.0123 | 1.0065 | J774 |
| NCCCNREE73 | 33 kV system | 1.0163 | 1.0151 | J775 |
| NCCCNREB49 | 132/66 kV substations | 1.0103 | 1.0061 | J777 |
| 4103632682 | 33 kV system | 1.0163 | 1.0175 | J778 |
| 4103529698 | 66 kV system | 1.0202 | 1.0106 | J779 |
| NCCCNRENB7 | 132/66 kV substations | 1.0161 | 1.0193 | J780 |
| 4103768912 | 132/33 kV substations | 1.0048 | 1.0063 | J781 |
| 4103768913 | 132/33 kV substations | 1.0048 | 1.0063 | J782 |
| 4103831536 | 132/11 kV substations | 1.0031 | 1.0026 | J783 |

Table C8: Ausgrid's DLF's for Embedded Generators

| NMI | LOCATION | DLF APPLIED IN 2015/16 | DLF TO APPLY IN 2016/17 | DLF CODE |
|------------|---------------|------------------------|-------------------------|----------|
| NCCC007498 | 33 kV system | 1.0063 | 1.0061 | JGEN |
| NCCCNRGB10 | HV system | 1.0183 | 1.0149 | JK24 |
| NCCCNRME11 | 33 kV system | 1.0063 | 1.0061 | JGEN |
| NCCCNRME10 | 33 kV system | 1.0063 | 1.0061 | JGEN |
| NCCC007441 | 132 kV system | 1.0012 | 1.0008 | JRED |

Table C9: One Steel's Embedded Network DLFs

| NMI | LOCATION | DLF APPLIED IN 2015/16 | DLF TO APPLY IN 2016/17 | DLF CODE |
|------------------------------------|----------|------------------------|-------------------------|----------|
| 7102000008, 7102000009, 7102000010 | 11 kV | 1.0504 | 1.0725 | XON2 |

Appendix D: ACT Distribution Loss Factors for 2016/17

Table D1: ActewAGL's Distribution's DLFs

| CONNECTION | DLF CODE | DLF APPLIED IN 2015/16 | DLF TO APPLY IN 2016/17 |
|--------------|----------|---------------------------|----------------------------|
| High Voltage | AH00 | 1.0139 | 1.0190 |
| Low Voltage | AL00 | 1.0456 | 1.0508 |

Table D2: ActewAGL's Site Specific DLFs

| NMI | DLF CODE | DLF APPLIED IN 2015/16 | DLF TO APPLY IN 2016/17 |
|------------|----------|---------------------------|----------------------------|
| NGGG000294 | AS01 | 1.0084 | 1.0089 |
| NGGG000269 | AS02 | 1.0080 | 1.0084 |
| 7001197618 | AS04 | 0.9999 | 0.9997 |
| 7001317224 | AS06 | N/A | 0.9997 |
| 7001319704 | AS07 | N/A | 0.9997 |

Appendix E: South Australia Distribution Loss Factors for 2016/17

Table E1: SA Power Network's Distribution Connection Point Class DLFs

| CLASS | TARIFF | DLF CODE | DLF APPLIED IN 2015/16 | DLF TO APPLY IN 2016/17 |
|-----------------------------|---------------------------------|----------|------------------------|-------------------------|
| Low Voltage Small Customers | Unmetered | NLV2 | 1.0790 | 1.0980 |
| | Residential | NLV2 | 1.0790 | 1.0980 |
| | Controlled Load (HW) | NLV2 | 1.0790 | 1.0980 |
| | Small Business Single Rate | NLV2 | 1.0790 | 1.0980 |
| | Small Business Two Rate | NLV2 | 1.0790 | 1.0980 |
| | Small Business Demand | NLV2 | | 1.0980 |
| | PV cells and microgeneration | NLV2 | | 1.0980 |
| LV Large Business | Large LV Business Demand | NLV1 | 1.0631 | 1.0780 |
| HV Business | HV Demand Two Rate | NHV1 | 1.0377 | 1.0470 |
| Major Business | Substation Non Locational | NZS1 | 1.0174 | 1.0220 |
| | Sub-transmission Non Locational | NZS1 | 1.0174 | 1.0220 |

Table E2: SA Power Network's Site Specific DLFs

| NMI | DLF CODE | DLF APPLIED IN 2015/16 | DLF TO APPLY IN 2016/17 |
|------------|----------|------------------------|-------------------------|
| 2001000378 | NBA1 | 1.0010 | 1.0010 |
| 2001000608 | NAC2 | 1.0100 | 1.0120 |
| 2002112609 | NKC4 | 1.0100 | 1.0100 |
| 2002133131 | NGM2 | 1.0070 | 1.0070 |
| 2002213788 | NHN1 | 1.0020 | 1.0020 |
| 2002213796 | NHN2 | 1.0020 | 1.0020 |
| 2002216840 | NDS1 | 1.0080 | 1.0130 |
| 2002276228 | NRA1 | | 1.0070 |
| 2002276230 | NRA2 | | 1.0110 |
| 2002280161 | NDS2 | 1.0080 | 1.0130 |
| 2002257162 | NRT1 | 1.0040 | 1.0030 |
| 2002257164 | NRT1 | 1.0040 | 1.0030 |
| SAAAAAA018 | NPS1 | 1.0000 | 1.0000 |

| NMI | DLF CODE | DLF APPLIED IN 2015/16 | DLF TO APPLY IN 2016/17 |
|------------|----------|---------------------------|----------------------------|
| SAAAAAA021 | NPS3 | 1.0070 | 1.0070 |
| SAAAAAA022 | NGM1 | 1.0090 | 1.0090 |
| SAAAAAA024 | NAB1 | 1.0070 | 1.0070 |
| SAAAAAA035 | NGT1 | 1.0060 | 1.0060 |
| SAAAAAA084 | NOS1 | 1.0010 | 1.0010 |
| SAAAAAA438 | NIF1 | 1.0110 | 1.0110 |
| SAAAAAB557 | NOS2 | 1.0000 | 1.0000 |

Table E3: SA Power Network's Embedded Generator DLFs

| NMI | DLF CODE | DLF APPLIED IN 2015/16 | DLF TO APPLY IN 2016/17 |
|------------|----------|---------------------------|----------------------------|
| 2001000639 | NCL1 | 1.0090 | 1.0090 |
| 2001000640 | NCL1 | 1.0090 | 1.0090 |
| 2001000734 | NSHW | 1.0090 | 1.0090 |
| 2002108658 | NCDW | 0.9730 | 0.9730 |
| 2002108660 | NAS1 | 0.9970 | 0.9970 |
| 2002108661 | NAS2 | 0.9970 | 0.9970 |
| 2002220776 | NSP1 | 1.0040 | 1.0040 |
| 2002221495 | NSP2 | 1.0040 | 1.0040 |

Appendix F: Tasmania Distribution Loss Factors for 2016/17

The AER has approved the following distribution loss factors for Tasmania for the 2016/17 financial year.

TasNetworks has grouped transmission connection sites into seven regions. The DLFs are grouped into each of these seven regions as follows:
Hobart (Table F1), Tamar (Table F2), East Coast (Table F3), North West (Table F4), Derwent (Table F5), Southern (Table F6), and West Coast (Table F7).

Table F1: TasNetworks' Hobart Region DLFs

| Distribution Network Level | Region | DLF Code | Cumulative DLF |
|----------------------------|--------|----------|----------------|
| Subtransmission Network | Hobart | PHST | 1.0056 |
| Zone Substation | Hobart | PHZN | 1.0079 |
| HV Distribution Network | Hobart | PHHV | 1.0128 |
| Distribution Substation | Hobart | PHDS | 1.0265 |
| LV Distribution Network | Hobart | PHLV | 1.0335 |

Table F2: TasNetworks' Tamar Region (incorporating Launceston) DLFs

| Distribution Network Level | Region | DLF Code | Cumulative DLF |
|----------------------------|--------|----------|----------------|
| Subtransmission Network | Tamar | PTST | 1.0000 |
| Zone Substation | Tamar | PTZN | 1.0000 |
| HV Distribution Network | Tamar | PTHV | 1.0086 |
| Distribution Substation | Tamar | PTDS | 1.0288 |
| LV Distribution Network | Tamar | PTLV | 1.0454 |

Table F3: TasNetworks' East Coast Region DLFs

| Distribution Network Level | Region | DLF Code | Cumulative DLF |
|----------------------------|------------|----------|----------------|
| Subtransmission Network | East Coast | PEST | 1.0000 |
| Zone Substation | East Coast | PEZN | 1.0000 |
| HV Distribution Network | East Coast | PEHV | 1.0236 |
| Distribution Substation | East Coast | PEDS | 1.0601 |
| LV Distribution Network | East Coast | PELV | 1.0869 |

Table F4: TasNetworks' North West Region DLFs

| Distribution Network Level | Region | DLF Code | Cumulative DLF |
|----------------------------|------------|----------|----------------|
| Subtransmission Network | North West | PNST | 1.0000 |
| Zone Substation | North West | PNZN | 1.0000 |
| HV Distribution Network | North West | PNHV | 1.0095 |
| Distribution Substation | North West | PNDS | 1.0320 |
| LV Distribution Network | North West | PNLV | 1.0581 |

Table F5: TasNetworks' Derwent Region DLFs

| Distribution Network Level | Region | DLF Code | Cumulative DLF |
|----------------------------|---------|----------|----------------|
| Subtransmission Network | Derwent | PDST | 1.0000 |
| Zone Substation | Derwent | PDZN | 1.0000 |
| HV Distribution Network | Derwent | PDHV | 1.0113 |
| Distribution Substation | Derwent | PDDS | 1.0409 |
| LV Distribution Network | Derwent | PDLV | 1.0698 |

Table F6: TasNetworks' Southern Region DLFs

| Distribution Network Level | Region | DLF Code | Cumulative DLF |
|----------------------------|----------|----------|----------------|
| Subtransmission Network | Southern | PSST | 1.0000 |
| Zone Substation | Southern | PSZN | 1.0003 |
| HV Distribution Network | Southern | PSHV | 1.0120 |
| Distribution Substation | Southern | PSDS | 1.0365 |
| LV Distribution Network | Southern | PSLV | 1.0575 |

Table F7: TasNetworks' West Coast Region DLFs

| Distribution Network Level | Region | DLF Code | Cumulative DLF |
|----------------------------|------------|----------|----------------|
| Subtransmission Network | West Coast | PWST | 1.0042 |
| Zone Substation | West Coast | PWZN | 1.0082 |
| HV Distribution Network | West Coast | PWHV | 1.0167 |
| Distribution Substation | West Coast | PWDS | 1.0428 |
| LV Distribution Network | West Coast | PWLV | 1.0495 |

Table F8: TasNetworks' Site Specific DLFs

| NMI | Region | DLF Code | DLF |
|------------|------------|----------|--------|
| 8000000656 | North West | PSPU | 1.0034 |
| 8000003578 | West Coast | PBSM | 1.0102 |
| 8000003585 | North West | PACH | 1.0000 |
| 8000003868 | West Coast | PHGM | 1.0000 |
| 8000295294 | East Coast | PEMW | 1.0000 |

Appendix G: Distribution Loss Factor - Contacts

Questions regarding the Distribution Loss Factors contained in this document should, in the first instance, be directed to the appropriate person listed below:

Distribution Network Service Provider

| | | |
|--|--|--------------|
| ActewAGL Distribution | Janusz Worony, Manager Technical Regulation and Standards | 02 6293 5871 |
| Ausgrid | Brian Newman, Strategic Pricing Analyst | 02 9269 2866 |
| Endeavour Energy | Jon Hocking, Manager Network Regulation | 02 9853 4386 |
| Energex | Leigh Henderson, Acting Network Regulation Manager | 07 3664 9811 |
| Ergon Energy Corporation Limited | Manager Regulatory Determination and Pricing | 13 74 66 |
| Essential Energy | Catherine Waddell, Group Manager Regulated Pricing and Analysis | 02 6338 3553 |
| Jemena | Matthew Serpell, Manager Asset Regulation and Strategy | 03 9173 7000 |
| Powercor Australia Ltd and CitiPower Pty | Neil Gascoigne, Manager Planning Policy and Transmission Interface | 03 9683 4472 |
| SA Power Networks | James Bennett, Manager Regulation | 08 8404 5261 |
| AusNet Services | Kate Jdanova, Senior Regulatory Analyst | 03 9695 6630 |
| TasNetworks | Kristan Wilding, Leader Regulation | 03 6271 6696 |
| United Energy Distribution | Rodney Bray, Network Planning Manager | 03 8846 9745 |