

NORTHERN TERRITORY OF AUSTRALIA

**ELECTRICITY STANDARDS OF SERVICE CODE
FEEDER CATEGORY GUIDELINES**

1 December 2012

1 Introduction

1.1 Authority

- 1.1.1 This **Guideline** is made by the **Commission** under clause 1.8 of the **Code**.
- 1.1.2 The **Commission** is authorised to publish **guidelines** relating to the performance of its functions under section 7 of the **Act**.

1.2 Scope

- 1.2.1 This **guideline** deals with the following matters:
- (a) the definition and application of:
 - i. **CBD feeder, urban feeder, rural long feeder and rural short feeder,**
 - ii. **CBD area, urban area and rural area;** and
 - (b) the categorisation of individual feeders as either:
 - i. **CBD feeders;**
 - ii. **urban feeders;**
 - iii. **rural long feeders;** or
 - iv. **rural short feeders**for the purpose of:
 - v. reporting **performance indicators;** and
 - vi. establishing **target standards.**
- 1.2.2 In making this **guideline**, the **Commission** has:
- (a) sought to promote and achieve the object of the **Act**,
 - (b) sought to promote and achieve the objects of the **ERA**; and
 - (c) had regard to the matters listed in section 6(2) of the **Act**.

1.3 Date of commencement

- 1.3.1 This **guideline** takes effect on and from the date of publication.

1.4 Interpretation

1.4.1 This **guideline** will be interpreted in the same manner as the **Code** save for the following:

- (a) a reference in this **guideline** to a clause, Annexure, Appendix, Schedule or Table is a reference to a clause, Annexure, Appendix, Schedule or Table in this **guideline**; and
- (b) words appearing in bold and italics like '**this**' are defined in clause 3 of this **guideline** or in the absence of such a definition Schedule 4 of the **Code**.

1.4.2 Where this **guideline** is inconsistent with the **Code** the latter shall prevail and the former shall to the extent of the inconsistency be invalid for the purposes of the **Code**.

2 Feeder category definitions

2.1 Objective of feeder categorisation

2.1.1 The **Code** sets out a process for establishing **target standards** for (and reporting of actual performance against) each of the following **distribution network reliability performance indicators** (as identified in Table 3 of Schedule 2 of the **Code** and segmented by **feeder category**):

- a. System Average Interruption Duration Index (SAIDI); and
- b. System Average Interruption Frequency Index (SAIFI).

2.1.2 The **feeder categories** are:

- a) **CBD feeders**;
- b) **urban feeders**;
- c) **rural short feeders**; and
- d) **rural long feeders**.

2.1.3 The objective of this **guideline** is to enable relevant and meaningful comparison of the performance of the **distribution network** across comparable areas of the Northern Territory of Australia. This is achieved through categorising individual feeders into **feeder categories** for the purpose of facilitating the process stipulated in clause 2.1.1.

2.2 Categorisation of individual feeders

- 2.2.1 For the purposes of the **Code** and unless the **Commission** otherwise directs:
- a) **CBD feeder, urban feeder, rural long feeder, rural short feeder, CBD area, urban area** and **rural area** will be defined in accordance with this **guideline**. For the avoidance of doubt:
 - i. **CBD feeder, urban feeder, rural long feeder, rural short feeder, CBD area, urban area** and **rural area** will not be defined in a map published by the **network provider**;
 - ii. **CBD feeder, urban feeder, rural long feeder and rural short feeder** will not be defined by reference to a **CBD area, urban area** or **rural area**; and
 - b) **CBD feeder, urban feeder, rural long feeder** and **rural short feeder** will be defined in accordance with Table 1.1 and clause 2.3.
- 2.2.2 The **Commission** will categorise an individual feeder as one of the following **feeder categories**:
- a) **CBD feeder**;
 - b) **urban feeder**;
 - c) **rural short feeder**; or
 - d) **rural long feeder**.
- 2.2.3 For the purposes of clause 2.2.2 the **Commission** will apply the methodology set out in clause 2.2.6.
- 2.2.4 The **Commission** may consult with the **network provider** (and/or any other person the **Commission** sees fit to consult) prior to categorising or re-categorising an individual feeder into a **feeder category**.
- 2.2.5 The **network provider** must:
- a) use its **best endeavours** to identify all individual feeders that form part of the **regulated network** and supply electricity to **customers**;
 - b) categorise all individual feeders in accordance with the methodology set out in clause 2.2.6; and
 - c) on the **Commission's** reasonable request and within the timeframe specified by the **Commission** (and notified to the **network provider**) provide to the **Commission**:
 - i. its categorisation of individual feeders stipulated in clause 2.2.5 (b); and
 - ii. all relevant **data** in connection with these individual feeders,
- for the purpose of facilitating categorisation of individual feeders into **feeder categories** under clause 2.2.2.

2.2.6 The methodology for determining an individual feeder's **feeder category** is as follows:

- a) **CBD feeders** will include those individual feeders that are not **urban feeders, mixed feeders, rural short feeders, or rural long feeders** that predominately supply commercial, high rise buildings through an underground **distribution network** containing significant interconnection and redundancy compared with **urban areas**.
- b) **Urban feeders** will include those individual feeders that are not **CBD feeders, mixed feeders, rural short feeder, or rural long feeder** with actual maximum demand over the **reporting period** per total feeder route length greater than 0.12 megavolt amperes per kilometre.
- c) **Rural short feeders** will include those individual feeders that are not **CBD feeders, urban feeders, mixed feeders or rural long feeders** with a total feeder route length of less than 200 kilometres.
- d) **Rural long feeders** will include those individual feeders that are not **CBD feeders, urban feeders, rural short feeders or mixed feeders** with a total feeder route length of greater than 200 kilometres.
- e) **Mixed feeders** will include those individual feeders determined by the **Commission** as being 'Mixed' and categorised into a **feeder category** in accordance with clause 2.3.

2.2.7 Table 1.1 sets out:

- a) the technical name of the individual feeder; and
- b) The **Commission's** determination of:
 - i. an individual feeder's **feeder category**; or
 - ii. whether an individual feeder is a **mixed feeder**,

in accordance with the methodology set out in clause 2.2.6.

2.2.8 The **network provider** must, in accordance with **good electricity industry practice** periodically collect and maintain such data (in connection with the categorisation of individual feeders into **feeder categories**) as is reasonable sufficient for the purpose of complying with its obligations under this **guideline** and the **Code** and enabling the **Commission** to perform its functions under this **guideline** and the **Code**.

2.2.9 Nothing in Table 1.1 derogates from any obligation imposed upon the **network provider** under this **guideline** (including clause 2.2.5), the **Code** or any other **applicable regulatory instrument**.

Table 1.1

Individual feeder	Feeder Categorisation
11AK03 AUSTIN LANE	CBD
11BE01 LEANYER	Urban
11BE03 TDZ	Urban
11BE04 MCMILLANS	Urban
11BE06 KARAMA 1	Urban
11BE07 NAVY	Urban
11BE08 BEZSS BUSTIE 1/2	Urban

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11BE09 JAIL	Urban
11BE10 KARAMA 2	Urban
11BE11 BEZSS CAP BANK	Urban
11BE13 KORMILDA	Urban
11BE14 ROBINSON	Urban
11BE16 ANULA	Urban
11BE17 BEZSS BUSTIE 2/3	Urban
11BE18 PORT	Urban
11BE21 BEZSS BUSTIE 3/4	Urban
11CA00 NIGHTCLIFF 1	Urban
11CA01 CA CAP NO 1	Urban
11CA01 CAZSS CAP BANK No 1	Urban
11CA03 BRADSHAW	Urban
11CA04 NTU	Urban
11CA06 FAC- LYONS	Urban
11CA07 JINGILI	Urban
11CA08 NORTH LAKES	Urban
11CA09 CAZSS BUSTIE 1/2	Urban
11CA10 MILLNER	Urban
11CA11 CAZSS CAP BANK No 2	Urban
11CA12 MARRARA	Urban
11CA13 WANGURI	Mixed (categorisation subject to clause 2.3)
11CA15 HOSPITAL	Urban
11CA16 NAKARA	Urban
11CA17 CAS SQUARE	Urban
11CA18 CAZSS BUSTIE 2/3	Urban
11CA19 CAS VILLAGE	Urban
11CA21 NIGHTCLIFF 2	Urban
11CA23 MOIL	Urban
11CA24 CAZSS BUSTIE 3/4	Urban
11CA25 BRINKIN	Urban
11CAZSS BUS 1	Urban
11CAZSS BUS 3	Urban
11CP4306 WAGAIT	Rural Short
11CP4307 BELYUEN	Rural Short
11CZ01 CZZSS CAP BANK No 2	CBD
11CZ02 WEST BENNETT 1	CBD
11CZ03 AUSTIN KNUCKEY 1	CBD
11CZ05 WOODS ST 1	CBD
11CZ06 MOTT ST 1	CBD
11CZ07 STUART PARK	Urban
11CZ08 CZZSS BUSTIE 1/2	CBD
11CZ09 AUSTIN KNUCKEY 2	CBD
11CZ10 MITCHELL ST 1	CBD
11CZ12 MOTT STREET 2	CBD
11CZ13 WEST BENNETT 2	CBD
11CZ14 GARDENS	Urban
11CZ16 WOODS ST 2	CBD
11CZ17 MITCHELL ST 2	CBD

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11CZ19 CITY VALLEY	Urban
11CZ20 DINAH BEACH	Urban
11CZ21 CZZSS CAP BANK No 1	Urban
11CZZSS BUS 1	CBD
11CZZSS BUS 2	CBD
11CZZSS BUS 3	CBD
11FB09 WATERFRONT	Urban
11LG06 BRADSHAW	Urban
11LG07 ARALUEN	Urban
11LG13 ELDER	Urban
11LG15 LARAPINTA	Urban
11LG16 BRAITLING	Urban
11ML09 DALY	CBD
11PA01 PAZSS BUSTIE 1/2	Urban
11PA02 WALER	Urban
11PA03 PALM SHOPS	Urban
11PA04 BAKEWELL	Urban
11PA06 PAZSS CAP BANK No 2	Urban
11PA07 GRAY	Urban
11PA08 GUNN	Urban
11PA09 TF T1	Urban
11PA10 DRIVER	Mixed (categorisation subject to clause 2.3)
11PA11 FARRAR	Urban
11PA12 PAZSS AUX TF 1	Urban
11PA13 PAZSS BUSTIE 2/3	Urban
11PA14 PAZSS AUX TF 2	Urban
11PA15 MOULDEN	Urban
11PA16 PAZSS CAP BANK No 1	Urban
11PA17 THORNGATE	Urban
11PA18 WOODROFFE	Urban
11PA19 DURACK	Urban
11PA21 YARRAWONGA	Urban
11PA22 PALM CIVIC	Urban
11PA23 GEORGINA	Urban
11RG01 GAP	Urban
11RG02 GOLF COURSE	Urban
11RG06 SADADEEN	Urban
11RG07 HOSPITAL	Urban
11RG08 CBD	Urban
11RG19 NTHSTUHWY	Urban
11RG20 WILLS	Urban
11RG21 GILLEN	Urban
11SN01 FANNIE BAY	Urban
11SN02 BAGOT	Urban
11SN04 SNZSS CAP BANK No 2	Urban
11SN05 MARANGA	Urban
11SN07 BAYVIEW	Urban
11SN10 GOYDER	Urban
11SN13 BISHOP	Urban

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11SN14 COONAWARRA	Urban
11SN16 PARAP	Urban
11SN17 RAAF	Urban
11SN19 LUDMILLA	Urban
11SN20 SNZSS CAP BANK No 1	Urban
11WB01 PARLIAMENT	CBD
11WB08 WHARF PRECINCT	Urban
11WS03 DASHWOOD	CBD
11WS08 CULLEN	Urban
11WS11 KITCHENER	CBD
11YU04 No.1 FEEDER	Rural Short
11YU10 No.2 FEEDER	Rural Short
11YU17 No.3 FEEDER	Rural Short
22BR102 BOREFIELDS	Mixed
22HD402 LAMBELLS	Rural Short
22HD403 MIDDLE POINT	Rural Short
22KP01 AUX TF 1	Rural Short
22KP03 TINDAL 2	Mixed (categorisation subject to clause 2.3)
22KP04 KATH EAST	Urban
22KP06 PINE CREEK	Rural Short
22KP07 MATARANKA	Rural Long
22KP11 OPS TIE	Rural Short
22KP12 FLORINA	Rural Short
22KP14 GORGE	Rural Short
22KP15 TINDAL 1	Rural Short
22KP17 AUX TF 2	Rural Short
22KP19 KATHERINE TOWN	Urban
22MA02 BATCHELOR	Rural Short
22MA03 ADELAIDE RIVER	Rural Short
22MA04 NTP	Rural Short
22MA05 LAKE BENNETT	Rural Short
22MA07 ACACIA	Rural Short
22MM02 MMZSS CAP BANK	Rural Short
22MM05 HERBERT	Rural Short
22MM06 STRANGWAYS	Rural Short
22MM07 NOONAMAH	Rural Short
22MM09 MCMINNS PUMPS	Mixed (categorisation subject to clause 2.3)
22MM10 VIRGINIA	Rural Short
22MM11 DARWIN RIVER	Rural Short
22MM13 DUNDEE	Rural Short
22MR103 MT BUNDY	Rural Short
22MR303 TOMS GULLY	Rural Short
22PA101 HOWARD SPRINGS	Rural Short
22PC306 MOLINE	Rural Short
22PC308 PCK TOWNSHIP	Rural Short
22RG04 BREWER 2	Rural Short
22RG09 FARMS	Mixed (categorisation subject to clause 2.3)
22RG13 BREWER 1	Mixed (categorisation subject to clause 2.3)
22TC202 FEEDER 2	Rural Short

22TC302 FEEDER 3	Urban
22TC402 FEEDER 4	Urban
22TC502 FEEDER 5	Mixed
22TC602 FEEDER 6	Rural Long
CZ-CP	Rural Short
LOVEGROVE EXPRESS FDR 1	Urban
LOVEGROVE EXPRESS FDR 2	Mixed
PINE CK - COSMO HOWLEY	Rural Short

2.3 Treatment of mixed feeders

2.3.1 The **network provider** must on the **Commission's** reasonable request and within the timeframe specified by the Commission (and notified to the **network provider**) submit to the **Commission** its proposed categorisation of **mixed feeders** into **feeder categories**, which must include:

- a) reasons for the proposed categorisation;
- b) sufficient information and supporting documentation to support the proposed categorisation; and
- c) statements that demonstrate that the **network provider** has had regard to:
 - i. the matters listed in section 6 (2) of the **Act**;
 - ii. the objectives of the **Code** and this **guideline**; and
 - iii. whether the proposed categorisation is consistent with **good electricity industry practice**.

2.3.2 If in the **Commission's** reasonable opinion the **network provider** has failed to sufficiently address the matters set out in clause 2.3.1, all **mixed feeders** will be categorised as **urban feeders**.

2.3.3 If clause 2.3.2 does not apply, the **network provider's** proposed categorisation of **mixed feeders** into **feeder categories** will be considered by the **Commission** in consultation with the **network provider** and/or any other person the **Commission** sees fit to consult.

2.3.4 If in the **Commission's** reasonable opinion the **network provider's** proposed categorisation of **mixed feeders** into **feeder categories** is consistent with:

- a) the object of the **Act**;
- b) the objectives of the **Code**; and
- c) the objective of this **guideline**,

the **Commission** will (subject to the consultation requirements stipulated in clause 2.3.3) adopt the **network provider's** proposed feeder categorisation in accordance with this **guideline**.

2.4 Amending the guideline

2.4.1 An **electricity entity** may request the **Commission** to vary or revoke any part of this **guideline**.

2.4.2 The **Commission** may accept or reject a request under clause 2.4.1 in its absolute discretion.

2.4.3 If the **Commission** accepts a request under clause 2.4.1:

a) the **Commission** may consult with the **network provider** (and/or any other person the **Commission** sees fit to consult); and

b) the **Commission** will have regard to:

- i. the objectives of the **Code**;
- ii. the objective of this **guideline**, and
- iii. the matters listed in section 6(2) of the **Act**.

prior to varying or revoking this **guideline** or any part of this **guideline**.

2.4.4 A varied **guideline** will take effect on and from the date of publication.

3 Definitions

“CBD feeder” means the individual feeder identified as being ‘CBD’ in accordance with Table 1.1 and includes an individual feeder categorised in accordance with clause 2.3.

“mixed feeder” means an individual feeder identified as being a ‘Mixed’ in accordance with Table 1.1.

“rural short feeder” means the individual feeder identified as being a ‘Rural Short’ in accordance with Table 1.1 and includes an individual feeder categorised in accordance with clause 2.3.

“rural long feeder” means the individual feeder identified as being a ‘Rural Long’ in accordance with Table 1.1 and includes an individual feeder categorised in accordance with clause 2.3.

“urban feeder” means the individual feeder identified as being a ‘Urban’ in accordance with Table 1.1 and includes an individual feeder categorised in accordance with clause 2.3.