

# Quarterly Network Safety Performance Report

Reporting Period: July - September 2020 (FY20/21 Q1)

| Network Performance |                                  | Objectives | Incidents |              |
|---------------------|----------------------------------|------------|-----------|--------------|
|                     |                                  | 2020/21    | Quarter   | Year-to-Date |
| 30(1)(a)            | Total Electric Shock             | 0          | 0         | 0            |
|                     | <i>Person – No Injury</i>        | 0          | 0         | 0            |
|                     | <i>Person – Injury</i>           | 0          | 0         | 0            |
|                     | <i>Person – Death</i>            | 0          | 0         | 0            |
|                     | <i>Livestock – Death</i>         | 0          | 0         | 0            |
| 30(1)(b)            | Total Property Damage (Not Fire) | 0          | 0         | 0            |
| 30(1)(c)            | Total Property Damage (Fire)     | 0          | 0         | 0            |

| Distribution Network Performance |                                    | Objectives | Incidents |              |
|----------------------------------|------------------------------------|------------|-----------|--------------|
|                                  |                                    | 2020/21    | Quarter   | Year-to-Date |
| 30(1)(d)                         | Total Network Pole Fire            | 9          | 1         | 1            |
| 30(1)(e)                         | Total Conductor Clashing           | 4          | 0         | 0            |
| 30(1)(f)                         | Total Unassisted Pole Failure      | 7          | 0         | 0            |
|                                  | <i>Wood (Population: 15,259)</i>   | 2          | 0         | 0            |
|                                  | <i>Steel (Population: 40,437)</i>  | 5          | 0         | 0            |
|                                  | <i>Concrete (Population: 336)</i>  | 0          | 0         | 0            |
|                                  | <i>Fibreglass (Population: 1)</i>  | 0          | 0         | 0            |
|                                  | <i>Other (Population: 43)</i>      | 0          | 0         | 0            |
| 30(1)(g)                         | Total Unassisted Conductor Failure | 10         | 1         | 1            |
| 30(1)(h)                         | Total Unassisted Stay Wire Failure | 8          | 0         | 0            |
| 30(1)(i)                         | Total Unassisted Cable Failure     | 20         | 1         | 1            |

| Distribution Network Performance |                                    | Objectives | Pole Failure Rate       |
|----------------------------------|------------------------------------|------------|-------------------------|
|                                  |                                    | 2020/21    | 3 year rolling average* |
| 31(3)                            | Total Unassisted Pole Failure Rate | 1.25       | 0.654                   |
|                                  | <i>Wood x 10,000 p.a.</i>          | 1.25       | 1.092                   |
|                                  | <i>Steel x 10,000 p.a.</i>         | 1.3        | 0.495                   |

| Transmission Network Performance |                                    | Objectives | Incidents |              |
|----------------------------------|------------------------------------|------------|-----------|--------------|
|                                  |                                    | 2020/21    | Quarter   | Year-to-Date |
| 30(1)(d)                         | Total Network Pole Fire            | 0          | 0         | 0            |
| 30(1)(e)                         | Total Conductor Clashing           | 0          | 0         | 0            |
| 30(1)(f)                         | Total Unassisted Pole Failure      | 0          | 0         | 0            |
| 30(1)(g)                         | Total Unassisted Conductor Failure | 0          | 0         | 0            |
| 30(1)(h)                         | Total Unassisted Stay Wire Failure | 0          | 0         | 0            |
| 30(1)(i)                         | Total Unassisted Cable Failure     | 0          | 0         | 0            |

\* The unassisted pole failure rate is expressed as a three year rolling average per 10,000 poles

## Network Safety Performance Incident Definitions

These definitions are based on the Electricity (Network Safety) Regulations 2015

|          |                              |   |
|----------|------------------------------|---|
| 30(1)(a) | Electric Shock               | A discharge of electricity from the network that causes the electric shock, injury or death of a person or the death of livestock (excluding pets).   |
| 30(1)(b) | Property Damage (Not Fire)   | An incident caused by the network, other than a fire, that causes damage to property other than to the network. Includes supply, impact and arcing damage. Value of damage must exceed \$5,000.                               |
| 30(1)(c) | Property Damage (Fire)       | A fire caused by the network that causes damage to property other than to the network. Includes smoke and heat damage. Value of damage must exceed \$5,000.   |
| 30(1)(d) | Pole Fire                    | A fire, on a pole that is a part of the network, that originated on the pole. Includes burnt cross arms.  |
| 30(1)(e) | Conductor Clashing           | The contacting of 2 or more conductors of the network, of different phases, caused by temperature variations or wind. Includes clashing due to pole lean and phase to earth clashing. Excludes assisted failures [see 28(c)]. |
| 30(1)(f) | Unassisted Pole Failure      | An unassisted failure of a pole that is a part of the network. Includes suspended failures and foundation failure [i.e. excessive pole lean].   |
| 30(1)(g) | Unassisted Conductor Failure | An unassisted failure of an overhead conductor that is a part of the network.<br>Includes: service wires, joints. Excludes: termination points, taps, conductor accessory & line hardware failures [e.g. ties, clamps].       |
| 30(1)(h) | Unassisted Stay Wire Failure | An unassisted failure of a stay wire that is a part of the network.   |
| 30(1)(i) | Unassisted Cable Failure     | An unassisted failure of an underground cable that is a part of the network.<br>Includes: joints, termination kits. Excludes: termination points, lugs & cable accessories [e.g. clamps].                                     |
| 31(3)    | Unassisted Pole Failure Rate | The failure rate per 10,000 poles per annum based on the 30(1)(f) and pole volumes.   |