





Context & Purpose

The Horizon Power Network Safety Objectives (2015) (Objective Statement) has been prepared for each of network safety performance incidents detailed in Regulation 30 and in accordance with the requirements set out in Regulation 31 of the Electricity (Network Safety) Regulations 2015. Regulation 31 requires Horizon Power to prepare a statement that sets out the objectives in relation to the maximum number of incidents that will occur for the current financial year and the next three financial years.

This Objective Statement covers the financial years of 2015/16 to 2018/19.

Objective Establishment

Horizon Power has applied a trend based methodology for this Objective Statement. The methodology relies on the historical performance of the network. In setting objectives, Horizon Power considers performance forecasts alongside a range of additional factors such as: external benchmarking, input from Regulators, market conditions and customer expectations.

Objective Statement

This Objective Statement provides the objectives that Horizon Power will strive to achieve in the maintenance and operation of its network.



			Incidents ³			
Network Objectives ¹	Historical Works	Planned Works	2015/16	2016/17	2017/18	2018/19
30(1)(a) Total Electric Shock	Twisty Replacement	Streetlight Program	10	10	10	10
Person – No Injury	Streetlight Copper Wire	System Hardening	10	10	10	10
Person – Injury	Replacement	Earthing Works	0	0	0	0
Person – Death	WireAlert (Esperance only)	Copper Conductor	0	0	0	0
Livestock – Death	Double Insulated Streetlight	Replacement	0	0	0	0
LiveStock - Death	Earth	 Circuit Breaker Replacement 				
30(1)(b) Total Property Damage (Not Fire)			0	0	0	0
30(1)(c) Total Property Damage (Fire) ⁷			0	0	0	0

				Incidents ³			
Distribution Network Objectives ¹		Historical Works	Planned Works	2015/16	2016/17	2017/18	2018/19
30(1)(d)	Total Pole Fire	Insulator Washing & CoatingPole Insulator Replacement	Insulator Washing & CoatingPole Insulator Replacement	9	9	9	9
30(1)(e)	Total Conductor Clashing⁵	Cross Arm ReplacementEsperance Network Rural Upgrade	Cross Arm ReplacementNetwork Hardening (Kimberley)	6	6	6	6
30(1)(f)	Total Unassisted Pole Failure	Pole Replacement &	Pole Replacement &	9	9	9	9
	Wood	Reinforcement	Reinforcement	4	4	4	4
	Steel ⁴	Pole Inspection	 Enhanced Pole Inspection 	5	5	5	5
	Other			0	0	0	0
30(1)(g)	Total Unassisted Conductor Failure	Conductor ReplacementConductor Sample Testing	Conductor ReplacementConductor Sample Testing	7	7	7	7
30(1)(h)	Total Unassisted Stay Failure ⁶	Managed with Poles	Pole InspectionStay Rod Replacement	2	2	2	2
30(1)(i)	Total Unassisted Cable Failure	Cable Replacement	Cable Replacement	4	4	4	4
31(3)	Total Unassisted Pole Failure Rate	Pole Replacement & Reinforcement	Pole Replacement & Reinforcement	1.6	1.6	1.6	1.6
	Wood x 10,000 p.a.	Pole Inspection	Pole Inspection	2.2	2.2	2.2	2.2
	Steel ⁴x 10,000 p.a.		•	1.3	1.3	1.3	1.3



				Incidents ³			
Transmission Network Objectives ²		Historical Works	Planned Works	2015/16	2016/17	2017/18	2018/19
30(1)(d)	Total Pole Fire	Pole Replacement	Pole Replacement	0	0	0	0
30(1)(e)	Total Conductor Clashing⁵		 EPIL Reliability Study 	0	0	0	0
30(1)(f)	Total Unassisted Pole Failure	Pole Replacement &	Pole Replacement &	0	0	0	0
	Wood	Reinforcement	Reinforcement	0	0	0	0
	Steel	 Pole Inspection 	 Pole Inspection 	0	0	0	0
	Other		 Tripod Review 	0	0	0	0
30(1)(g)	Total Unassisted Conductor Failure	EPIL Reliability Study	 EPIL Reliability Study 	0	0	0	0
30(1)(h)	Total Unassisted Stay Failure ⁶	EPIL Reliability Study	 EPIL Reliability Study 	0	0	0	0
30(1)(i)	Total Unassisted Cable Failure	EPIL Reliability Study	EPIL Reliability Study	0	0	0	0
31(3)	Total Unassisted Pole Failure Rate	Pole Replacement &	Pole Replacement &	0	0	0	0
	Wood x 10,000 p.a.	Reinforcement	Reinforcement	0	0	0	0
	Steel x 10,000 p.a.	 Pole Inspection 	 Pole Inspection 	0	0	0	0

Notes

- 1. The Underground Power Project is in progress this will impact all Network and Distribution Network Objectives
- 2. The Transmission Unserviceable Asset Replacement program is in progress this will impact all Transmission Objectives
- 3. A 3 year rolling average in conjunction with consideration of weather events, historical works and planned works has been used to determine the objective for each measure
- 4. Unassisted steel pole failures and failure rates include all steel poles
- 5. Unassisted conductor clashing objectives are based on reported incidents this does not capture all clashing incidents occurring on the network
- 6. Unassisted stay failure objectives are based on reported incidents this does not capture all stay failure incidents occurring on the network
- 7. Objectives for property damage due to fire, supply, impact and arcing are set at zero based on previous history of insurance claims above \$5,000



Network	Safety Performance Inciden	t Definitions		
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 dea		
		of livestock. Includes pets within the definition of livestock.		
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 wood 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		
30(1)(1)	Onassisted Fole Fallure	[i.e. excessive pole lean].		
30(1)(g)	Unassisted Conductor	An unassisted failure of an overhead conductor that is a part of the network. Includes service wires, joints and		
00(1)(9)	Failure	terminations and excludes taps and conductor accessory failures [e.g. ties, clamps].		
30(1)(h)	Unassisted Stay Failure	An unassisted failure of a stay wire that is a part of the network. Includes slack stays and failure of anchors and		
		attachment points that compromise line design integrity in a way that impacts public safety.		
30(1)(i)	Unassisted Cable Failure	An unassisted failure of an underground cable that is a part of the network. Includes failure of joints,		
		terminations and lugs in a way that impacts public safety.		
31(3)	Unassisted Pole Failure Rate	The failure rate per 10,000 poles per annum based on the 30(1)(f) and pole volumes.		
28(c)	Unassisted Failure	Unassisted failure, of a pole, overhead conductor, stay wire or underground cable, means the pole breaking or		
		collapsing, the conductor or wire breaking or the cable failing, otherwise than because of —		
		(a) a force exceeding the failure limit or design wind load specified in the applicable standard; or		
		(b) a lightning strike, earthquake, fire or flood; or		
		(c) malicious damage; or		
		(d) excavation other than by a person for whom the network operator is responsible; or		
		(e) any other similar occurrence beyond the control of the network operator.		
		A failure is unassisted if it is due incorrect network design construction or vegetation growth into the vegetation clearance zone.		