

Standard

Asset Nomenclature Standard

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Responsibilities

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Please contact the Asset Strategy Team with any queries or suggestions.

Implementation All TasNetworks staff and contractors.

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Record of Revisions

Version	Description	Date
4.0	Table 18. Jumper (ZAM_450) added.	24/03/2022
	Table 20. LV pillar and Cabinet (ZAM-510), Turret (ZAM-855 revised and Service Post (ZAM-695). Pit (ZAM_860) added.	
	Table 5. Pit changed from ZAM_860 to ZAM_935 to prevent confusion with Dist underground details in table 20.	
	Section 4.6 Circuit Function numbers and Tables 30 (comms sites) and 31 (Gen sites) removed	
	Table 23 for transmission sites updated	
	Added definition of the requirements for the naming of transmission line insulators, section 2 including Appendix A: Explanatory notes for naming of Transline Insulators	
3.0	Document rewritten in its entirety to align with SAP terminology.	10/05/2020

	Table 22 Transmission sites names updated.					
2.0	Revised format and additional distribution assets added	27/06/2018				
1.0	Reece Switching Station added. Tables 22, 23, 24 and 25 updated	23/03/2017				

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1. General

1.1 Scope

This Standard defines the naming format to be used for all TasNetworks network assets when they are being registered in TasNetworks' asset management systems, primarily SAP.

All assets registered in systems must be fully compliant with the requirements of this standard.

TasNetworks will update this standard periodically. It is the responsibility of users of this standard to ensure that they are using the latest version of this standard.

1.2 Policy

Standardisation of equipment identification is critical for asset management related activities, especially where an interface is SAP is required. Standardisation of names also ensures both managements systems and field devices are in alignment, which aids to the efficient and safe operation of the network.

1.3 Device Identifiers

This standard does not define the terms to be used for identification of equipment on the network i.e. Device Ids and labelling of field equipment. Device identifiers are defined in their respective standard. Device Ids must be compliant with their respective standard for the equipment.

The standard provides the naming convention for registration of equipment in management systems, with the device id sometimes only comprising only one component of the name.

1.4 Definition of Terms

Table 1 provides a definition of the terms and syntax used in this standard.

Table 1: Definition of Terms

Term	Definition
Device Id	Unique term for a specific item of equipment
FLOC	Functional Location. The location of an installation.
Equipment	All network assets are defined as 'Equipment' in SAP
Site Id	Unique term for a specific site, typically a substation
Bold Text	Literal text.
Italic Text	Text to be substituted with the meaning listed in this table.
{ text in curly braces }	Optional text.
[option 1 option 2 option 3]	Choose one of the options inside the square brackets.
[sp]	Substitute a space: ' '
[dash]	Substitute a dash: '-'
[slash]	Substitute a forward slash: '/'

1.5 Referenced Standards

The standards listed in Table 2 contains the standards for the Equipment Id for the Equip. Classes that they cover.

Table 2: Related Standards

Title	Network	Document Number
TasNetworks Asset Breakdown Structure		R1250997
Ground Mounted Substations Nomenclature Standard	Distribution	R1453223
Metering Technical Specification	Distribution	R249345
Substation General Requirements Standard	Transmission	R562687
Secondary Systems General Requirements Standard	Transmission	R246444

2. Naming Convention

2.1 Format

The format for the naming of the insulators are shown in Table 3.

Table 3: Breakdown of Name Format

	Transmission Line	Support Structure	Tower Number	Tower Side	Tower Position	Position Location	Insulator type (opt.)
Description	Identifier of the transmission line	T – Tower P – Pole	ldentifier of the tower/pole	L/R	A/B/C	1, 2, 3,	String/post insulator
Example	TL437	Т	41	L	А	1	String Insulator

2.2 SAP ID

In SAP, the above insulator would be designated 437-T41-LA1

2.3 Definitions

Tower Side: Facing down the line (ascending order), the left or right side of the tower centreline. Not applicable for flat spaced towers.

Tower Position: Facing down the line (ascending order), positions are A-C from top to bottom of the tower. Includes arms currently not in use. For flat spaced towers, A-C is left to right.

Position Location: Beginning at the front of the tower (facing down the line), location increases moving towards the back of the tower, then from top to bottom.

3. Transmission

3.1 Transmission Substations

The naming format for the site name, site equipment and primary equipment in Transmission Substations is defined in tables Table 4, Table 5 and Table 6 respectively.

Table 4: Transmission Substation FLOC

FLOC Type	OC Type Class Description		Sample Description	Comments
Site Network	ZAM_710_01	SubstationName	Chapel Street Substation	

Table 5: Transmission Substations – Site Equipment

Equipment Type	Class	Sort Field	Sample Sort Field	Description Rule	Sample Description	Comment
	7414 105	Device Id	122			
Access	ZAM_105		123	Sort Field [sp] Equipment Class	123 Access	
AC Supply	ZAM_100	Device Id	123		123 AC Supply	
Building	ZAM_150	Device Id [sp] Building Name	257456 Control Room		257456 Control Room Building	
Automatic door	ZAM_300_02	Device Id	123		123 Automatic door	
Building Water Supply	ZAM_900_01	Device Id	123		123 Building Water Supply	
Climate Control	ZAM_205	Device Id	123		123 Climate Control	
Crane	ZAM_245	Device Id [1 2]	1		1 Crane	
Door	ZAM_300	Device Id [Location]	123 Front Entry		123 Front Entry Door	
Drainage	ZAM_305	Device Id	123		123 Drainage	
Earth Wire	ZAM_230_04	Device Id	123		123 Earth Wire	
Earthing System	ZAM_315	Device Id	123		123 Earthing System	
Fence	ZAM_350	Device Id	123		123 Fence	
Fire System	ZAM_375	Device Id	123		123 Fire System	
Fire Detection Sys	ZAM_360	Device Id	123		123 Fire Detection Sys	
Fire Detection - Facilities	ZAM_360_02	Device Id	123		123 Fire Detection - Facilities	
Fire Prevention Sys	ZAM_365	Device Id	123		123 Fire Prevention Sys	
Fire Suppression Sys	ZAM_370	Device Id	123		123 Fire Suppression Sys	
Fire Door	ZAM_300_01	Device Id [Location]	123 Front Entry		123 Front Entry Fire Door	
Gate	ZAM_405	Device Id [Location]	123 East]	123 East Gate	
Lighting - External	ZAM_445	Device Id	123		123 Lighting - External	

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Equipment Type	Class	Sort Field	Sample Sort Field	Description Rule	Sample Description
Lighting - Internal	ZAM_335	Device Id	123	Sort Field [sp] Equipment Class	123 Lighting - Internal
Lighting - Emergency	ZAM_325	Device Id	123		123 Lighting - Emergency
Lightning Protection	ZAM_485	Device Id	123		123 Lightning Protection
Lock	ZAM_505	Device Id	123		123 Lock
Oil Containment	ZAM_540	Device Id	123		123 Oil Containment
Pit	ZAM_935	Device Id	123		123 Pit
Rectifier	ZAM_635	Device Id	123		123 Rectifier
Road	ZAM_655	Device Id [Location]	123 Eastern		123 Eastern Road
Security System	ZAM_675	Device Id	123		123 Security System
Sewerage	ZAM_705	Device Id	123		123 Sewerage
Surge Suppressor	ZAM_765	Device Id	123		123 Surge Suppressor
Track	ZAM_825	Device Id	123		123 Track
Water Supply	ZAM_900	Device Id	123		123 Water Supply
Yard	ZAM_930	Substation Abbreviation	BW]	BW Yard
Yard Water Supply	ZAM_900_02	Device Id	123		123 Yard Water Supply

Table 6: Transmission substation – Primary equipment

Description Equip. Class	Class	Sort Field	Sample Sort Field	Description Rule	Sample Description	Comments
Air Break Switch	ZAM_770_07	Device id	C123456	Sort Field [sp] Equip. Class	C123456 Air Break Switch	
Battery	ZAM_125	Device id [A B]	A		A Battery	
Battery Charger	ZAM_130	Device id [A B]	В		A Battery Charger	
Вау	ZAM_135	Bayldentifier	H1		H1 Bay	
Bay Conductor	ZAM_140	Bayldentifier	H1		H1 Bay Conductor	
Overhead Busbar	ZAM_555	Device id	B 110		B 110 Overhead Busbar	
Bushing	ZAM_155	Device id [sp] Phase [R W B]	A5BS R		A5BS R Bushing	
Cabling	ZAM_175	BayIdentifier PowerCableLocation	A5		A5 Cabling	
Capacitor Bank	ZAM_180	Device id	C2		C2 Capacitor Bank	
Circuit Breaker	ZAM_195	Device id	A252	-	A252 Circuit Breaker	
Circuit Breaker Compressor	ZAM_225_03	Device id [sp] Phase [R W B]	A152 R		A152 R Circuit Breaker Compressor	
Combined CTVT	ZAM_210	Device id	B196/97		B196/97 Combined CTVT	

Comment

Description Equip. Class	Class	Sort Field	Sample Sort Field	Description Rule	Sample Description	Comments
Combined CTVT Phase	ZAM_215	Device id [sp] Phase [R W B]	B196/97 R	Sort Field [sp] Equip. Class	B196/197 R Combined CTVT	
Compressor	ZAM_225	Device id		-		
Coupling Capacitor	ZAM_240	Device id [sp] Phase [R W B]	T1CC R		T1CC R Coupling Capacitor	
CT Phase	ZAM_260	Device id [sp] Phase [R W B]	A896B W		A896B W CT Phase	
Current Transformer	ZAM_255	Device id	C196	-	C196 Current Transformer	
DC Supply	ZAM_270	Device Id	123456	-	123456 DC Supply	
Disconnector	ZAM_770_01	Device id	A429A	-	A429A Disconnector	
Earth Switch	ZAM_770_02	Device id	A231		A231 Earth Switch	
Facilities Compressor	ZAM_225_01	Device id	00141	-	00141 Facilities Compressor	
Fleet Compressor	ZAM_225_02	Device id	735205		735205 Fleet Compressor	
Fuse	ZAM_400	Device id	T620288	-	T620288 Fuse	
HV Switchboard	ZAM_775_01	Bus id [sp] Bus	A Bus		A Bus HV Switchboard	
Instrument Transformer	ZAM_435	Device id				
LV Switch	ZAM_770_06	Device id				
LV Switchboard	ZAM_775_02	Device id or Light and Power	A Light and Power		A LV Switchboard Light and Power LV Switchboard	
Network Transformer	ZAM_840_03	Device id	T1	-	T1 Network Transformer	
Reactor	ZAM_625	Device id	DEDR L1		DEDR L1 Reactor	
Resistor	ZAM_650	Device id		-		
Stn Service Transformer	ZAM_730	Device Id	ST1	-	ST1 Stn Service Transfmr	
Supply Transformer	ZAM_840_04	Device id	T1	-	T1 Supply Transformer	
Surge Diverter	ZAM_755	Device id	E4SD		E4SD Surge Diverter	
Surge Diverter Phase	ZAM_760	Device id [sp] [R W B]	E4SD R	-	E4SD R Surge Diverter Phase	
Switch	ZAM_770	Device id	C620288		C620288 Switch	
Tapchanger	ZAM_780	Device id	T1		T1 Tapchanger	
VT Phase	ZAM_895	Device id [sp] [R W B]	A897 R	1	A897 R VT Phase	
Voltage Transformer	ZAM_890	Device id	B897]	B897 Voltage Transformer	
Wave Trap	ZAM_910	Bay id [sp] [R W B]	A1 R		A1 R Wave Trap	

3.2 Secondary systems

The naming format for secondary protection schemes and equipment in transmission substations is defined in Table 7,

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Table 8, and Table 9 respectively.

Table 7: Secondary Systems – Schemes

Scheme Type	Class	Sort Field Rule	Sample Sort Field	Description Rule	Sample Description	Comments									
Bus Cplr Prot Schm	ZAM_665_01	Bayldentifier	A7	Sort Field [sp] Equip. Class	A7 Bus Cplr Prot Schm	E.g. Chapel Street Substation A7 Bus Coupler Protection Scheme									
Bus Zone Prot Schm	ZAM_665_02	BusVoltage	220											220 Bus Zone Prot Schm	E.g. Palmerston Substation 220 kV Bus Zone Protection Scheme
Cap Bank Prot Schm	ZAM_665_03	Bayldentifier	A6		A6 Cap Bank Prot Schm	E.g. Chapel Street Substation A6 Capacitor Bank Protection Scheme									
Control Schm	ZAM_665_04	Bayldentifier	A8		A8 Control Schm	E.g. Hadspen Substation A8 Control Scheme									
HV Feeder Prot Schm	ZAM_665_05	If bay exists: Bayldentifier If no bay exists e.g. pole mounted switchgear: Superior equipment Sort Field Id	D2 C750197		D2 HV Feeder Prot Schm C750197 HV Feeder Prot Schm	E.g. Chapel Street Substation D2 HV Feeder Protection Scheme E.g. Pole mounted recloser C750197 HV Feeder Protection Scheme									
Metering Schm	ZAM_665_06	Bayldentifier	F5		F5 Metering Schm	E.g. Chapel Street Substation F5 Metering Scheme									
Monitoring Schm	ZAM_665_07	If bay specific monitoring scheme: Bayldentifier	D1		D1 Monitoring Schm	E.g. Derby Substation D1 Monitoring Scheme									
		If station-wide monitoring scheme: SubstationAbbreviation	GT		GT Monitoring Schm	E.g. George Town Substation Monitoring Scheme									
SCADA Schm	ZAM_665_08	SubstationAbbreviation	AV		AV SCADA Schm	E.g. Avoca Substation SCADA Scheme									
SS Transfrm Prot Schm	ZAM_665_09	StationServiceIdentifier	ST2	_	ST2 SS Transfrm Prot Schm	E.g. Creek Road Substation Station Services Transformer Protection Scheme									
System Prot Schm	ZAM_665_10	Refer Table 8													
Transfrm Prot Schm	ZAM_665_11	Transformerldentifier	T2		T2 Transfrm Prot Schm	E.g. Risdon Substation T2 Transformer Protection Scheme									
Transline Prot Schm	ZAM_665_12	Bayldentifier	B1		B1 Transline Prot Schm	E.g. Electrona Substation B1 Transmission Line Protection Scheme									

Table 8: Secondary Sy	ystems – System	Protection Schemes
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SPS Type	Description	Sort Field Rule	Sample Sort Field	Description Rule	Sample Description	С
FCSPS and/or NCSPS	Frequency Control and/or Network Control System Protection Scheme	SubstationAbbreviation [sp] SPS	CO SPS	Sort Field [sp] Equip. Class	CO SPS System Prot Schm	E. So
NCSPS	Backup Network Control System Protection Scheme	SubstationAbbreviation [sp] NCSPS	LI NCSPS		LI NCSPS System Prot Schm	E. Pi
OFGS	Over Frequency Generator Shedding Scheme	SubstationAbbreviation [sp] OFGS	FA OFGS		FA OFGS System Prot Schm	E.
UFLS	Under Frequency Load Shedding Scheme	SubstationAbbreviation [sp] UFLS	RI UFLS		RI UFLS System Prot Schm	E.
OLLS	Overload Load Shedding Scheme	If bay specific overload scheme: Bayldentifier [sp] OLLS If transformer specific overload scheme:	N1 OLLS		N1 OLLS System Prot Schm T2 OLLS System Prot Schm	E. Ci E.
		TransformerIdentifier [sp] OLLS	12 OLLS			pi
UVLS	Under Voltage Load Shedding Scheme	SubstationAbbreviation [sp] UVLS	RI UVLS		RI UVLS System Prot Schm	E. Sa
RCS	Runback Control Scheme	SubstationAbbreviation [sp] RCS	ST RCS		ST RCS System Prot Schm	E. So
AIS	Anti-Islanding Scheme	SubstationAbbreviation [sp] AIS	DE AIS		DE AIS System Prot Schm	Ε.

Table 9: Secondary Systems – Equipment

Description Equip. Class	Class	Sort Field Rule	Sample Sort Field	Description Rule	Sample Description	Comment
Data Comms Device	ZAM_660_01	DeviceId	34ES1	Sort Field [sp] Equip. Class	34ES1 Data Comms Device	E.g. Chapel Street Substation SCADA system Ethernet Switch 1
Human Machine Intfce	ZAM_660_02	DeviceId	34PC1		34PC1 Human Machine Intfce	E.g. Chapel Street Substation SCADA system Human Machine Interface 1
Modem	ZAM_660_03	DeviceId	34MD1		34MD1 Modem	E.g. Triabunna Substation Modem 1
Phasor Meas Unit	ZAM_660_04	DeviceId	34PMU		34PMU Phasor Meas Unit	E.g. Chapel Street Substation SCADA system Phasor Measurement Unit

Comments

.g. Comalco Substation SPS System Protection cheme

g. Liapootah Substation Backup NCSPS System Protection Scheme

.g. Farrell Substation OFGS System Protection Scheme

.g. Risdon Substation UFLS System Protection Scheme

.g. Risdon Substation CS-CR-RI 110 kV Transmission Trcuit OLLS System Protection Scheme

.g. Risdon Substation Transformer T2 OLLS system rotection scheme

.g. Risdon Substation UVLS System Protection cheme

.g. Smithton Substation RCS System Protection cheme

.g. Derby Substation AIS System Protection Scheme

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Description Equip. Class	Class	Sort Field Rule	Sample Sort Field	Description Rule	Sample Description	Comment
Power Quality Meter	ZAM_660_05	DeviceId	G1PQM	Sort Field [sp] Equip. Class	G1PQM Power Quality Meter	E.g. George Town Substation bay G1 Power Quality Meter
Protection Relay	ZAM_660_06	DeviceId	A487B		A487B Protection Relay	E.g. Chapel Street Substation transformer T1 differential Protection Relay B
Remote Terminal Unit	ZAM_660_07	DeviceId	34GWA	-	34GWA Remote Terminal Unit	E.g. Chapel Street Substation SCADA system Gateway Remote Terminal Unit A
Controller	ZAM_660_08	DeviceId	A590	-	A590 Controller	E.g. Chapel Street Substation transformer T1 AVR Controller
UPS	ZAM_870	SubstationAbbreviation [sp] DeviceId	CS 123456		CS 123456 UPS	

3.3 Lines

The naming format for the site name equipment transmission lines is defined in tables Table 10 and Table 11 respectively.

Table 10: Transmission Line FLOCS

FLOC Type	Class	Description	Sample Description	Comments
Transmission Line	ZAM_490	TL SequentialNumber3Digit [sp] Source [sp][-][sp] Destination	TL429 Palmerston – Avoca	Refer to Sect Lines and Cal
Transmission Line Structure	ZAM_560	SS TransmissionLineIdentifier [dash] SequentialNumber3Digit [sp] TransmissionLineIdentifier SupportStructureIdentifier [sp] [Lattice S/S Structure/Tower P/S Structure/Tower Tee Structure/Tower Single Pole Steel Pole Wood Pole] [sp] OHST	SS429-005 429T5 Lattice OHST	Refer to Sect Lines and Cat
Transmission Line Section	ZAM_670	TransmissionLineIdentifier SupportStructureIdentifier [sp] [dash] [sp] TransmissionLineIdentifier SupportStructureIdentifier [sp] [COND ADSS OPGW]	429T24 - 429T25 COND TL Sec	Refer to Sect Lines and Cal
Transmission Line Span	ZAM_725	TransmissionLineIdentifier SupportStructureIdentifier [sp] [dash] [sp] TransmissionLineIdentifier SupportStructureIdentifier [sp] [SPAN]	429T24 - 429T25 Span	Refer to Sect Lines and Cal

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Table 11: Transmission Line Equipment

Equipment Type	Description Equipment Class	Class	Sort Field	Sample Sort Field	Description Rule	Sample Description	Comments
Conductor Section	ADSS Section (Not tied to a substation)	ZAM_230_02	SEC TransmissionLineIdentifier SupportStructureIdentifier [sp] [dash] [sp] TransmissionLineIdentifier SupportStructureIdentifier [sp]	SEC419T1 – 419T5	Sort Field [sp] Equip. Class	SEC419T1 – 419T5 ADSS	Choose ADSS or
	ADSS Section (Tied to a substation)	ZAM_230_02	SEC LocationName [sp] Structure/Tower [sp] [dash] [sp] TransmissionLineIdentifier SupportStructureIdentifier	SECWaddamana Structure/Tower – 400T1		SECWaddamana Structure/Tower – 400T1 ADSS	OPGW depending on cable type
	OHEW Section (Not tied to a substation)	ZAM_230_04	SEC TransmissionLineIdentifier SupportStructureIdentifier [sp] [dash] [sp] TransmissionLineIdentifier SupportStructureIdentifier [sp] OHEW	SEC419T1 – 419T5		SEC419T1 – 419T5 OHEW Earth Wire	
	OHEW Section (Tied to a substation)	ZAM_230_04	SEC LocationName [sp] Structure/Tower [sp] [dash] [sp] TransmissionLineIdentifier SupportStructureIdentifier OHEW	SECWaddamana Structure/Tower – 400T1 OHEW		SECWaddamana Structure/Tower – 400T1 OHEW Earth Wire	
	UGEW Section (Not tied to a substation)	ZAM_230_04	SEC TransmissionLineIdentifier SupportStructureIdentifier [sp] [dash] [sp] TransmissionLineIdentifier SupportStructureIdentifier [sp] UGEW	SEC419T1 – 419T5 UGEW		SEC419T1 – 419T5 UGEW Earth Wire	
	UGEW Section (Tied to a substation)	ZAM_230_04	SEC LocationName [sp] Structure/Tower [sp] [dash] [sp] TransmissionLineIdentifier SupportStructureIdentifier UGEW	SECWaddamana Structure/Tower – 400T1 UGEW		SECWaddamana Structure/Tower – 400T1 UGEW Earth Wire	
	OPGW Section (Not tied to a substation)	ZAM_230_05	SEC TransmissionLineIdentifier SupportStructureIdentifier [sp] [dash] [sp] TransmissionLineIdentifier SupportStructureIdentifier [sp]	SEC419T1 – 419T5		SEC419T1 – 419T5 Optical Ground Wire	
	OPGW Section (Tied to a substation)	ZAM_230_05	SEC LocationName [sp] Structure/Tower [sp] [dash] [sp] TransmissionLineIdentifier SupportStructureIdentifier	SECWaddamana Structure/Tower – 400T1		SECWaddamana Structure/Tower – 400T1 Optical Ground Wire	
	Bare Conductor Section (Not tied to a substation)	ZAM_230_07	SEC TransmissionLineIdentifier SupportStructureIdentifier [sp] [dash] [sp] TransmissionLineIdentifier SupportStructureIdentifier [sp]	SEC419T1 – 419T5		SEC419T1 – 419T5 Bare Conductor	

Equipment Type	Description Equipment Class	Class	Sort Field		Sample Sort Field	Description Rule	Sample Description	Comments
	Bare Conductor Section (Tied to a substation)	ZAM_230_07	SEC LocationName [sp] Struct [sp] [dash] [sp] TransmissionLineIdentifier Su	t ure/Tower	SECWaddamana Structure/Tower – 400T1		SECWaddamana Structure/Tower – 400T1 Bare Conductor	
Span (Rolled up Support Structure)	Span (Not tied to a substation)	ZAM_725_03	SPN <i>TransmissionLineldentifier</i> [dash] <i>SequentialNumber3Digit</i>	SPN TransmissionLineldentifier SupportStructureldentifier [sp] [dash] [sp] TransmissionLineldentifier SupportStructureldentifier	SPN419-001	Sort Field [sp] Equip. Class	SPN419T1 – 419T2	
	Span (Tied to a substation)	ZAM_725_03		SPN LocationName [sp] Structure/Tower [sp] [dash] [sp] TransmissionLineIdentifier SupportStructureIdentifier [sp]	SPN419-003		Waddamana Structure/Tower - 400T1 Span	
Support	Concrete Pole	ZAM_750_01	SS TransmissionLineIdentifier	[dash] 3DigitSupportStructureIdentifier	SS419-004		SS419-004 Concrete Pole	
-	H-Pole	ZAM_750_02	SS TransmissionLineIdentifier	SS419-099		SS419-099 H-Pole		
	Tower	ZAM_750_03	SS TransmissionLineIdentifier	SS419-456		SS419-456 Tower		
	Steel Structure	ZAM_750_04	SS TransmissionLineIdentifier	SS419-456		SS419-456 Steel Structure		
	Stobie Pole	ZAM_750_05	SS TransmissionLineIdentifier	[dash] 3DigitSupportStructureIdentifier	SS419-099	-	SS419-099 Stobie Pole	
	Wood Pole	ZAM_750_06	SS TransmissionLineIdentifier	[dash] 3DigitSupportStructureIdentifier	SS419-001		SS419-001 Wood Pole	
Insulator Assembly	Post Insulator	ZAM_440_01	[Transmission Line] – [Suppor Side] – [Tower Position] – [Po [Identifier of the transmission the tower/pole] – [L/R] – [A/E	Transmission Line] – [Support Structure] – [Tower Number] – [Tower Side] – [Tower Position] – [Position Location] – [Insulator Type (opt.)] [Identifier of the transmission line] – [T-Tower/P-Pole] – [Identifier of the tower/pole] – [L/R] – [A/B/C] – [1,2,3,] – [String/post insulator]			437-T41-LA1 Post Insulator	Refer Appendix A for explanatory notes
	String Insulator ZAM_440_02 [Transmission Line] – [Support Structure] – [Tower Number] – [Tower Side] – [Tower Position] – [Position Location] – [Insulator Type (opt.)] [Identifier of the transmission line] – [T-Tower/P-Pole] – [Identifier of the tower/pole] – [L/R] – [A/B/C] – [1,2,3,] – [String/post insulator]		437-T41-LA1		437-T41-LA1 String Insulator	Refer Appendix A: Explanatory notes for naming of Transline Insulators		
In Span Fittings	Aircraft Warning Device	ZAM_430_01	Device Id [sp] <i>TransmissionLir</i> [sp] [dash] [sp] <i>TransmissionLineIdentifier Su</i>	Device Id [sp] TransmissionLineIdentifier SupportStructureIdentifier sp] [dash] [sp] TransmissionLineIdentifier SupportStructureIdentifier [sp]			258784 429T166-429T167 Aircraft Warning Device	
	Bird Diverter	ZAM_430_02	Device Id [sp] <i>TransmissionLir</i> [sp] [dash] [sp] <i>TransmissionLineIdentifier Su</i>	neldentifier SupportStructureldentifier	258784 429T166- 429T167		258784 429T166-429T167 Bird Warning Marker	

Equipment Type	Description Equipment Class	Class	Sort Field	Sample Sort Field	Description Rule	Sample Description	Comments
	Dampers	ZAM_430_03	Device Id [sp] TransmissionLineIdentifier SupportStructureIdentifier [sp] [dash] [sp] TransmissionLineIdentifier SupportStructureIdentifier [sp]	258784 429T166- 429T167		258784 429T166-429T167 Damper	
	Midspan Joint	ZAM_430_04	Device Id [sp] TransmissionLineIdentifier SupportStructureIdentifier [sp] [dash] [sp] TransmissionLineIdentifier SupportStructureIdentifier [sp]	258784 429T166- 429T167	Sort Field [sp] Equip. Class	258784 429T166-429T167 Midspan Joint	
	Midspan Repair Fitting	ZAM_430_05	Device Id [sp] TransmissionLineIdentifier SupportStructureIdentifier [sp] [dash] [sp] TransmissionLineIdentifier SupportStructureIdentifier [sp]	258784 429T166- 429T167		258784 429T166-429T167 Midspan Repair Fit	
	Strain Loop Joint		Device Id [sp] TransmissionLineIdentifier SupportStructureIdentifier [sp] [dash] [sp] TransmissionLineIdentifier SupportStructureIdentifier [sp]	63122 419T1 – 419T2		419T1 – 419T2 Strain Loop Joint	
Leg & Foundation	Pole Foundation	ZAM_460_01	FND TransmissionLineIdentifier [dash] SupportStructureIdentifier3Digit[dash] F LegNumber	FND419-001-F1		FND419-001-F1 Pole Foundation	
	Tower Leg and Foundation	ZAM_460_02	FND TransmissionLineldentifier [dash] SupportStructureldentifier3Digit[dash] F LegNumber	FND419-001-F1		FND419-001-F1 Tower Leg and Foundation	
	Anode	ZAM_1150	Device Id [-] TransmissionLineIdentifier SupportStructureIdentifier [sp] [dash] [sp] L LegNumber [sp] Anode [sp] AnodeNumber	103946-500T2 – L1 Anode 1		103946-500T2 – L1 Anode 1 Anode	

3.4 Underground Cables

The naming format for the site name equipment transmission cables is defined in tables Table 10 and Table 11 respectively.

Table 12: Underground Cable FLOCS

FLOC Type	Class	Description	Sample Description	Comments
Cable (Outside substation)	ZAM_160	SourceSubstationAbbreviation [-] TC TransmissionLineIdentifier Circuit]	CR-TC476b CR-NH No2 Transmission Cable	
		[sp]		
		SourceSubstationAbbreviation [-] DestinationSubstationAbbreviation Transmission cable		
Cable (Inside substation)	ZAM_160	SubstationAbbreviation [-] Bay Id PC [sp] Transformer Id Power cable	KI-B5PC T2 Power cable	

Table 13: Underground Cable Equipment

Description Equipment Type	Class	Sort Field	Sample Sort Field	Description Rule	Sample Description	Comments
Cable Section (Outside substation)	ZAM_865	SourceSubstationAbbreviation [-] TC TransmissionLineIdentifier [A B] [sp] UG	CR-TC476B UG SECT	Sort Field [sp] Equipment Class	CR-TC476B UG SECT Underground Section	
Cable Section (Inside substation)	ZAM_865					
EarthScreen Link Box	ZAM_310	SourceSubstationAbbreviation {-} DeviceId [ESLB]	CR-TCD4ESLB		CR-TCD4ESLB EarthScreen Link Box	
MnStn-Oil fill cable	ZAM_525	Device Id	F11023A		F11023A MnStn-Oil fill cable	
Warning Sign	ZAM_898	Device Id				

s		

3.5 Circuit data

Table 14: Common Data

Asset Category	Circuit Type	Asset Identification Rule	Asset Description Rule	Sample ID	Sample Description
Circuit			SubstationAbbreviation [sp]		
Circuit types	Bus	E FourDigitNumber	CircuitVoltage [sp] kV [sp]	E0051	CS 110 kV B Bus
not			Busldentifier [sp] Bus		
as separate			SubstationAbbreviation [sp]		
specifications	Bus Coupler*	E FourDigitNumber	CircuitVoltage [sp] kV [sp]	E0042	CS 220 kV A7 Bus Coupler Circuit
			BusIdentifier [sp] Bus Coupler Circuit		
	Capacitor*	E FourDigitNumber	SubstationAbbreviation [sp]	E0050	CS 110 kV C2 Capacitor Circuit
			CircuitVoltage [sp] kV [sp]		
			ShuntCapacitorIdentifier [sp]		
			Capacitor Circuit		
	Circuit Breaker*	E FourDigitNumber	SubstationAbbreviation [sp]	E0092	NH 11 kV D5 Circuit Breaker
			CircuitVoltage [sp] kV [sp]		
			Bayldentifier [sp] Circuit Breaker		
	Feeder*	E FourDigitNumber	SubstationAbbreviation [sp]	E0070	CR 22 kV A2 Feeder Circuit
			CircuitVoltage [sp] kV [sp]		
			Bayldentifier [sp] Feeder Circuit		
	Station Service Transformer*	E FourDigitNumber	SubstationAbbreviation [sp]	E1234	BW 11 kV ST1 Station Service Transformer Circu
			CircuitVoltage [sp] kV [sp]		
			StationServiceTransformerIdentifier[s p]		
			Station Service Transformer Circui		
	Transfer	E FourDigitNumber	SubstationAbbreviation [sp]	E0045	CS 110/11 kV T5 Transformer Circuit
	Disconnector*		CircuitVoltage [sp] kV [sp]		
			DisconnectorIdentifier [sp]		
			Transfer Disconnector		
	Transformer*	E FourDigitNumber	SubstationAbbreviation [sp]	E0045	CS 110/11 kV T5 Transformer Circuit
			CircuitVoltage [sp] kV [sp]		
			TransformerIdentifier [sp]		
			Transformer Circuit		

	Comment
	Refer to Section 4 for transmission circuit name abbreviations.
ircuit	

Asset Category	Circuit Type	Asset Identification Rule	Asset Description Rule	Sample ID	Sample Description
	Transmission*	E FourDigitNumber	SubstationAbbreviation [sp] [dash] [sp]	E1635	NW-SD-DE 110 kV Transmission Circuit
			{SubstationAbbreviation [sp] [dash] [sp]} SubstationAbbreviation [sp]		
			CircuitVoltage [sp] kV [sp]		
			Transmission Circuit		
	Withdrawable Link*	E FourDigitNumber	SubstationAbbreviation [sp]	E0562	EB 11 kV A829 Withdrawable Link
			CircuitVoltage [sp] kV [sp]		
			DisconnectorIdentifier [sp]		
			Withdrawable Link		
	ADSS - Eng	ADSS WASPKey	ADSSName	ADSS123456	ADSS123
	Conductor - Eng	COND SequentialNumber3Digit	ConductorName	COND001	HYDROGEN
	OPGW – Eng	OPGW SequentialNumber3Digit	OPGWName	OPGW001	OPGW48
	Overhead Earthwire - Eng	OHEW WASPKey	EarthwireName	OHEW234567	Super Sultana
Engineering		For single rating conductors:	Conductor Name [dash]		
Data	Rating Conductor	COND ConductorIdentifier [dash] DesignTemperature	DesignTemperature °C	COND003-70	KRYPTON-70°C
		For twin rating conductors:	TIMUN [an] ConductorNamo [dash]		TWIN 19/.083-46°C
		COND ConductorIdentifier [dash] DesignTemperature -2	DesignTemperature °C	COND047-46-2	
	Underground Earthwire - Eng	UGEW WASPKey	EarthwireName	UGEW345678	Copper
Outage Group		OG SequentialNumber4Digit	Description derived from the description of the main circuit in the Outage Group	OG0006	CS 11 kV D Bus
		SM [dash] SubstationAbbreviation [dash]	If Solar Monitor is located at a substation:	SM-CS-01	SM Chapel Street
		SequentialNumber2Digit	SM [sp] LocationName		
Solar Monitor		SM [dash]	If Solar Monitor is located on a Transmission Line Support Structure:	SNA 4027120	SN4 4027120
		SupportStructureIdentifier	SM [sp] TransmissionLineIdentifier SupportStructureIdentifier	51V1-4021150	JIVI 4021130
Temperature Monitor		TEMP [dash] SubstationAbbreviation [dash] SequentialNumber2Digit	If Temperature Monitor is located at a substation: TEMP [sp] <i>LocationName</i>	TEMP-CS-01	TEMP Chapel Street

Comment
 The reference number will be a sequential number, for the number of entries in the OPGW – Eng list. For example the first entry will have the number '001', the second '002' etc.

Asset Category	Circuit Type	Asset Identification Rule	Asset Description Rule	Sample ID	Sample Description
		TEMP [dash] TransmissionLineIdentifier SupportStructureIdentifier	If Temperature Monitor is located on a Transmission Line Support Structure: TEMP [sp] <i>TransmissionLineIdentifier</i> <i>SupportStructureIdentifier</i>	TEMP-402T130	TEMP 402T130
Tension Monitor		TENM [dash] TransmissionLineldentifier SupportStructureldentifier	TransmissionLineldentifier SupportStructureldentifier [sp] Tension Monitor	TENM-419T1	419T1 Tension Monitor
Test Result Limits		TRLI WaspKey	TestResultTemplate Limit	TRLI239921	Oil Test Limit
Weather Station		WS [dash] SubstationAbbreviation [dash] SequentialNumber2Digit	If Weather Station is located at a substation: WS [sp] <i>LocationName</i>	WS-CS-01	WS Chapel Street
		WS [dash] TransmissionLineIdentifier SupportStructureIdentifier	If Weather Station is located on a Transmission Line Support Structure: WS [sp] <i>TransmissionLineIdentifier</i> <i>SupportStructureIdentifier</i>	WS-402T130	WS 402T130
		WM [dash] SubstationAbbreviation [dash] SequentialNumber2Digit	If Wind Monitor is located at a substation: WM [sp] LocationName	WM-CS-01	WM Chapel Street
Wind Monitor		WM [dash] TransmissionLineIdentifier SupportStructureIdentifier	If Wind Monitor is located on a Transmission Line Support Structure: WM [sp] <i>TransmissionLineIdentifier</i> <i>SupportStructureIdentifier</i>	WM-402T130	WM 402T130

Comment
01 indicates first WS at this substation. The Unique Sequential Identifier is required so as to differentiate between WSs, particularly if there is more than one WS at a substation. Where there is a second WS the sequential number will be 02.

4. Distribution

4.1 Distribution Substations

The format for the site name and equipment in Distribution Ground Mounted Substations is defined in tables 14 and 15 respectively.

Table 15: Distribution Substation FLOC

FLOC Type	Class	Description	Sample Sort Field	Sample Description	Comments
Site GMS	ZAM_710_02	Site Id {sp} Name {sp} Address	T100746	T100746 MLC Murray St	Name only applied where present.
					Truncation of address is acceptable bec address field.

Table 16: Distribution substations equipment

Equipment Type	Class	Sort Field Rule	Sample Sort Field	Description Rule	Sample Description	Comments
HV Switchboard	ZAM_775_01	Site Id	T123456	Sort Field [sp] Equip. Class	T123456 HV Switchboard	Where multiple switchboards exist they shall be prefixed with the letter 'A', B' or 'C'. e.g. T123456 A HV switchboard
Distribution Transformer	ZAM_840_01	Site Id [sp] Device Id [TF1 TF2 TF3] TransformerRating kVA	T123456 TF1 500kVA		T123456 TF1 500kVA Distribution Transformer	Transformer Device Ids shall be TF1, TF2 or TF3
LV Switchboard	ZAM_775_02	Site Id	T123456		T123456 LV Switchboard	
Bay ¹	ZAM_135	Device Id [A B C D E]	А		А Вау	Device Ids A, B, C, D etc.
Bus riser	ZAM_153	Device Id [A B C D E]	A		A Bus Riser	Usually incoming or outgoing cable connection on switchboard.
Circuit Breaker	ZAM_195	Device Id [A B C D E]	В		B Circuit Breaker	Device Ids A, B, C, D etc.
Earth Switch	ZAM_770_02	Device Id [A B C D E]	С		C Earth Switch	Device Ids A, B, C, D etc.
Fuse Switch	ZAM_770_04	Device Id [A B C D E]	В		B Fuse Switch	Device Ids A, B, C, D etc.
Line Switch	ZAM_770_03	Device Id [A B C D E]	А		A Line Switch	Device Ids A, B, C, D etc.
Metering	ZAM_515	Device Id [A B C D E]	В		B Meter	Device Ids B, C, D etc
HV Feeder Prot Scheme	ZAM_665_05	Bayld [A B C D E]	A		A HV Feeder Prot Schm	Superior equipment Bay
Transformer Prot Scheme	ZAM_665_11	TransformerId [TF1 TF2 TF3]	TF1		TF1 Transformer Prot Schm	Superior equipment Transformer
Metering Schm ²	ZAM_665_06	Bayld [A B C D E]	A		A Metering Schm	Superior equipment Bay
Monitoring Schm ²	ZAM_665_07	Bayld [A B C D E]	A		A Monitoring Schm	Superior equipment Bay
SCADA Schm ²	ZAM_665_08	Site Id	T123456		T123456 SCADA Schm	
Protection Relay	ZAM_660_06	Device Id [sp] Function [A B C D E] [Feeder Transformer]	A Feeder		A Feeder Protection Relay	

cause full address is stored in the

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Equipment Type	Class	Sort Field Rule	Sample Sort Field	Description Rule	Sample Description	Comments
Battery	ZAM_125	Bat	Bat		Bat Battery	
Battery Charger	ZAM_130	Bat Char	Bat Char		Bat Char Battery charger	
Light and power switchboard	ZAM_775_02	Light and Power	Light and Power		Light and Power LV Switchboard	
Fire System	ZAM_375	FS	FS		FS Fire System	
Fire Door	ZAM_300_01	Main or Emergency Exit	Main		Main Fire Door	
Pump	ZAM_423_10	Sump	Sump	Sort Field [sp] Equip. Class	Sump Pump	
Fan	ZAM_340	Ventilation system	Ventilation system		Ventilation System Fan	

Note: 1 - Bays shall only be created in Building Substations where the HV switchboard contains protection relays e.g. Schneider SM6 and Reyrolle LMT switchboards.

2 – For equipment types residing under SCADA schemes, refer Section 2.2, Table 8.

4.2 Overhead Network

The format for the site name and equipment installed on the Distribution Overhead network is defined in tables Table 17 and Table 18 respectively.

Table 17: Distribution Overhead Network FLOC

FLOC Type	Class	Description	Sample Description
Overhead Structure	ZAM_560	Device Id {sp} OHST-Tag No	390074 OHST-Tag No

Table 18: Distribution Overhead Network Equipment

Equipment Category	Equipment Type	Class	Sort Field Rule	Sample Sort Field	Description Rule	Sample Description	Comments
Conductor	Aerial Bundled Cable	ZAM_230_01	Device Id		Sort Field [sp] Equip.		
	ADSS	ZAM_230_02	Device Id		Class		
	Covered Conductor	ZAM_230_03	Device Id				
	Earth Wire	ZAM_230_04	Device Id				
	Optical Ground Wire	ZAM_230_05	Device Id				
	Pilot Cable	ZAM_230_06	Substation 1-Substation 2	T170806-T171252		T170806-T171252 Pilot Cable	
	Bare Conductor ZAM_230_07 Device		Device Id	5000580		5000580 Bare Conductor	
Support Structure	Concrete Pole	ZAM_750_01	Device Id {sp} [Tag No]	235021 Tag No		390074 TAG NO Concrete Pole	
	H-Pole	ZAM_750_02	Device Id Pole 1 {-} Device Id Pole 2	507905-507906		507905-507906 H Pole	
	Tower	ZAM_750_03	Device Id {sp} [Tag No]				
	Steel Structure	ZAM_750_04	Device Id	390074 Tag No		390074 TAG NO Steel Structure	
	Stobie Pole	ZAM_750_05	Device Id {sp} [Tag No]	390074 Tag No		390074 TAG NO Stobie Pole	
						P1	
	Wood Pole	ZAM_750_06	Device Id {sp} [Tag No]	390074 Tag No		390074 TAG NO Wood Pole	

Comments

Equipment Category	Equipment Type	Class	Sort Field Rule	Sample Sort Field	Description Rule	Sample Description
	Fibre Reinforced Pole	ZAM_750_07	Device Id {sp} [Tag No]	390074 Tag No		390074 TAG NO Fibre
	Telco Tower	ZAM_750_09	Device Id		-	
Insulator Assembly	Post Insulator	ZAM_440_01	Device Id		-	
	String Insulator	ZAM_440_02	Device Id			
In Span Fitting	Aircraft Warn Device	ZAM_430_01	Device Id			
	Bird Diverter	ZAM_430_02	Device Id			
	Dampers	ZAM_430_03	Device Id			
	Midspan Joint	ZAM_430_04	Device Id			
	Midspan Repair Fit	ZAM_430_05	Device Id		Sort Field [sp] Equip.	
	Spreaders	ZAM_430_06	Device Id		Class	
Other	Anode	ZAM_115	Device Id		-	
	Air Break Switch	ZAM_770_07	Device Id	C580279	-	C580279 Air Break Sw
	Distribution Transformer	ZAM_840_01	Site Id {sp} Rating kVA	T160166 300kVA	-	T160166 300kVA Distr Transformer
	Fault Indicator	ZAM_345	Device Id			
	Fuse Saver	ZAM_770_08	Site Id {F}	T160166 F		T160166 F Fuse
	Gas Switch	ZAM_770_05	Device Id			
	Jumper	ZAM_450	Device Id			
	Junction Box	ZAM_455	Device Id			
	Leg and Foundation	ZAM_460	Device Id			
	Line	ZAM_490	Device Id		-	
	Link	ZAM_500	Device Id			
	Pole Earth	ZAM_580	Device Id		-	
	Pole Foundation	ZAM_460_01	Device Id		-	
	Public Lighting	ZAM_615	Device Id		-	
	Recloser	ZAM_630	Device Id		-	
	HV Feeder Prot Scheme	ZAM_665_05	For field based equipment e.g. Reclosers:	C750197	-	C750197 HV Feeder Prot
			Superior equipment Sort Field Id			
	Section/Segment	ZAM_670	Device Id			
	Service Connector	ZAM_6880	Device Id			C580279 Recloser
	Service Fuse	ZAM_690	Device Id			
	Service Wire	ZAM_700	Device Id			
	Solar Monitor	ZAM_720	Device Id			

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Equipment Category	Equipment Type	Class	Sort Field Rule	Sample Sort Field	Description Rule	Sample Description	Comments
	Span	ZAM_725	Device Id				
	String Insulator	ZAM_440_02	Device Id				
	Support Structure	ZAM_750	Device Id				
	Temperature Monitor	ZAM_805	Device Id				
	Tension monitor	ZAM_810	Device Id				
	Tower	ZAM_750_03	Device Id	390074 Tag No		390074 TAG NO Tower	
	Tower Leg and Foundation	ZAM_460_02	Device Id				
	Weather Station	ZAM_915	Device Id				
	Wind Monitor	ZAM_925	Device Id		Sort Field [sp] Equip. Class		

4.3 Underground Network

Table 19: Distribution Underground Network FLOC

FLOC Type	Class	Description	Sample Sort Field	Sample Description	Comments
Cable	ZAM_160	Device Id {sp} [LV HV]	6016233	6016233 HV Cable	
Cable Accessory	ZAM_163	Device Id	5187468	5187468 Cable Accessory	

Table 20: Distribution Underground network FLOCs and Equipment

Equipment Type	Class	Sort Field Rule	Sample Sort Field	Description Rule	Sample Description	Comments
Underground Section	ZAM_865	Device Id [sp] [LV UG Cable] Device Id [sp] [HV UG Cable]	6016233 HV Cable 5005371 LV Cable	Sort Field [sp] Equip. Class	6016233 HV CABLE Underground Section 5005371 LV CABLE Underground Section	Labelling to be physically affixed to cable ends detailing where other end of cable connects to.
Cable Joint	ZAM_165	Distribution - Device Id {sp} [LV HV] Transmission - SourceSubstation {-} TC TransmmisionLineSequentialNumber3Digit Joint	Z-5003827 LV GT-TC470 Joint		Z-5003827 LV Cable Joint GT-TC470 Joint Cable Joint	
Cable Termination	ZAM_170	Device Id				
HV Pillar	ZAM_425	Device Id	T350150		T350150 HV Pillar	
Link Junction Box	ZAM_495	Device Id	5182417		Link_Junction Box	
LV Pillar and Cabinet	ZAM_510	Device Id {sp} [Tag No]	900000 Tag No. Cabinet 900000 Tag No Pillar		900000 CABINET C3 LV Pillar and Cabinet 900000 SWITCH CABINET SC1 LV Pillar and Cabinet 900000 PILLAR P1 LV Pillar and Cabinet	In field assets to have a unique 6 digit number added to existing Tag ID. Cabinet to be C# Switch cabinet SC# Pillar P#

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Equipment Type	Class	Sort Field Rule	Sample Sort Field	Description Rule	Sample Description	Comments
MnStn-Oil fill cable	ZAM_525	Device Id	F11023A		F11023A MnStn-Oil fill cable	
Service Post	ZAM_695	Device Id {sp} [Tag No]	900000 Tag No. Service Post		900000 SP1 Service Post	In field assets to have a unique 6 digit number added to existing Tag ID. Assume Service Post same as wide base pole.
Turret	ZAM_855	Device Id {sp} [Tag No]	900000		900000 T6 Turret	In field turret to have a unique 6 digit number added to existing device ID T#
Pit	ZAM_860	Device Id {sp} [Tag No]	900000		900000 P6 Pit	In field Pit to have a unique 6 digit number added to existing device ID P# Road Light Pit or similar.
Warning Sign	ZAM_898	Device Id	F2188229 Submarine		F2188229 SUBMARINE Warning Sign	

4.4 HV Regulators

Table 21: Distribution HV Regulator FLOC

FLOC Type	Class	Description	Sample Sort Field	Sample Description	Comments
Site GMS	ZAM_710_02	Site Id {sp} Name {sp} Address	T283042	T283042 Sandford South Arm Hwy	Truncation of address stored in the address

Table 22: Distribution HV Regulator Equipment

Equipment Type	Class	Sort Field Rule	Sample Sort Field	Description Rule	Sample Description	Comments
Fence	ZAM_350	Site Id		Sort Field [sp] Equip. Class	T283042 Fence	
Gate	ZAM_405	Site Id			T283042 Gate	
Oil Containment	ZAM_540	Site Id			T283042 Oil Containment	
Air break switch	ZAM_770_07	Device Id				
Cable Installation	ZAM_865_01	Device Id [sp] [HV Cable]	6016233 HV		6016233 HV Cable Section	
H-Pole	ZAM_750_02	Device Id Pole 1 {-} Device Id Pole 2	507905-507906		507905-507906 H Pole	
Regulator Tank	ZAM_645	Site Id {sp} RTF [1 2 3]	T283042 RTF1		T283042 RTF1 Regulator Tank	
Wood Pole	ZAM_750_06	Device Id {sp} [Tag No]	390074 Tag No		390074 TAG NO wood Pole	
Voltage Regulator	ZAM_885	Site Id {sp} RTF [1 2 3]	T283042 RTF1		T283042 RTF1 Voltage Regulator	

s is acceptable because full address is field.

4.5 Metering

Distribution Metering is specifically excluded from this standard. Refer to <u>Metering Technical</u> <u>Specification R0000249345</u> for Distribution Metering nomenclature standards.

4.6 Zone Substations

The naming convention for zone substations shall follow the format for Transmission Substations, refer section 3.1.

5. Existing Site Names and Abbreviations

Tables 22 and 23 and 24 list the existing substation site and transmission lines names respectively.

These existing sites names and two letter abbreviations must be applied.

5.1 Guidelines for site names, asset numbers and abbreviations

Site names, asset numbers and abbreviations identification must conform to the following guidelines:

- New site names, asset numbers and abbreviations shall only be developed and issued by the Network Planning Team Leader, with prior consultation with the Substation Asset Strategy Team Leader. This is done to reach agreement and avoid naming conflict whilst achieving consistency with site names, asset numbers and abbreviations.
- New site names for power stations or TasNetworks customer sites shall be as designated by the respective site owner. Abbreviations shall only be developed and issued by the Asset Strategy and Planning Team.
- All new sites shall have a unique two-letter abbreviation. Zone substations shall have a two-letter abbreviation with a 'Z' suffix.
- Electrical unit abbreviations, such as 'MW', or the letters 'I' and 'O' should not be used in any new site name abbreviations.
- The site name abbreviation shall be a logical abbreviation for the site name.
- Only power stations that connect to, or have an impact on the power system, and customer substations directly connected to TasNetworks' network are included Table 23.
- New site names, asset numbers and abbreviations for projects under investigation shall be included in the standard when the project has been approved.
- The practice of using a temporary alternative site name during redevelopment projects for a location already containing an approved site name is to be avoided.
- New site names should not be named after companies.

5.2 Transmission Sites

Table 23: Standard site names, numbers and abbreviations

Site Name	Asset Number	Current Abbreviation	Class	ificatior	1	_	Remarks	Previous Abbreviation
			Substation	Switching Station	Power Station	Direct Connect Customer		
Arthurs Lake	003	AL	•				Shared Hydro Tasmania site (pumping station)	AL
Avoca	300	AV	•					AVO
Basslink	-	BL	*				Noting that BL is typically used in reference to Basslink	
Bastyan	152	BA			*			-
Bell Bay	281	BB					Redundant power station	BB
Bluff Point	285	BP			*		Wind farm	-
Bothwell	303	BH					Redundant substation	-
Boyer	359	BY	•					BOY
Boyer Tee	304	BO					Tee structure remote from New Norfolk Substation	
Bridgewater	305	BW	•					BW
Broadlands	372	BR		#			Proposed switching station. Off North Bunkers Hill Rd. (North West renewables connection)	
Burnie	306	BU	•					BUR
Butlers Gorge	036	BG			*		Includes Nieterana (NR) Mini-hydro Power Station	BG
Butlers Gorge Tee	382	BT		•				BG
Castle Forbes Bay Tee	386	CF		•				-
Catagunya	100	CA			*			CAT
Cethana	126	CE			*			CET
Chapel Street	307	CS	•					СНЅ
Cluny	111	CL			*		TasNetworks assets (for revenue metering) located at Cluny Tee Switchyard	CLU

Site Name	Asset Number	Current Abbreviation	Class	ificatior	ı		Remarks	Previous Abbreviation
			Substation	Switching Station	Power Station	Direct Connect Customer		
Comalco	309	CO				•	Aluminium smelter (Rio Tinto)	СОМ
Copper Mines Tasmania	360	СМ				*	Copper mine	-
Creek Road	310	CR	•					CRK
Derby	312	DE	•					DBY
Derwent Bridge	362	DB	•					DB
Devils Gate	123	DG			*			DG
Devonport	313	DP	•					DEV
East Cam (convertor station)	-	EC	*#				Proposed Tasmanian HVDC to HVAC convertor station	
East Cam (switching station)	390	ES		#			Proposed switching station (North West renewables connection)	
Electrona	318	EL	•					ELE
Emu Bay	319	EB	•					EB
Emu Bay Paper	-	EP				*	Paper Mill (connected via Emu Bay)	-
Farrell	155	FA	•				Shared Hydro Tasmania Site (Bastyan Power Station)	FAR
Fisher	127	FI			*			FIS
George Town	321	GT	•				Includes transition station on TL470	GT
George Town Converter	-	GC	*				Tasmanian converter station 220 kV ac to 400 kV dc	-
Gordon	145	GO	•		*		Shared Hydro Tasmania site	GOR
Granville Harbour	214	GH			*		Wind farm	
Hadspen	358	НА	•					HAD
Hampshire	361	НМ		•		•	Shared customer site	НАМ

Site Name	Asset Number	Current Abbreviation	Class	ificatior	1		Remarks	Previous Abbreviation
			Substation	Switching Station	Power Station	Direct Connect Customer		
Hampshire Hills	392	нн		#			Proposed switching station (North West renewables connection)	
Heybridge convertor station		НС	*#				Proposed Tasmanian HVDC to HVAC convertor station	
Heybridge switching station	393	HS		#			Proposed switching station (North West renewables connection)	
Huon River	364	HR	•					-
Jims Plains	211	JP			*#		Proposed wind farm	-
John Butters	196	JB			*			JB
Kermandie	325	KE	•					KER
Kingston	324	КІ	•					кѕт
Knights Road	326	KR	•					KNR
Lake Echo	071	LE			*			LE
Lake Echo Tee	387	LT					Tee structure within a fenced area remote from the power station	
Lake Margaret	190	LA			*		Connected via Copper Mines Tasmania	-
Lemonthyme	122	LM			*			LEM
Liapootah	090	LI		•	*		Shared Hydro Tasmania site	LIA
Lindisfarne	327	LF	•					LIN
Long Reach		LR				#	Substation at proposed Gunns pulp mill site.	-
Longford	391	LD					Spares Store (Decommissioned substation)	-
Loy Yang Converter	-	LC	*				Victorian converter station 500 kV ac to 400 kV dc	-

Site Name	Asset Number	Current Abbreviation	Classification			Remarks	Previous Abbreviation	
			Substation	Switching Station	Power Station	Direct Connect Customer		
Mackintosh	151	MA			*			MAC
Maria Street	608	MS					Office	-
Meadowbank	329	MB	•		*		Shared Hydro Tasmania site	МВК
Mornington	369	MT	•					-
Mount Lindsay	373	ML	#				Proposed substation	-
Mount Nelson	365	MN	#				Land for future proposed substation	-
Mowbray	330	MY	•					-
Musselroe	288	MR			*			MU
Network Control Centre (Creek Road)	855	СС					Control Centre and Office	-
New Norfolk	331	NN	•					NN
Newton	175	NT	•				Shared Hydro Tasmania site (pumping station)	NTN
North Hobart	333	NH	•					NH
Norwood	334	NW	•					NOR
Palmerston	025	PM	•					PMN
Paloona	125	PA			*			PAL
Penguin	367	PE	#				Proposed substation	
Pieman Switching Station	389	PN		•			Connection to Granville Harbour	
Poatina	014	PO			*			POA
Port Latta	337	PL	•					PL
Port Latta Plant	-	РР				*	Processing Plant (connected via Port Latta Switching Station)	-

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Site Name	Asset Number	Current Abbreviation	Classification			Remarks	Previous Abbreviation	
			Substation	Switching Station	Power Station	Direct Connect Customer		
Que	338	QU	•					QUE
Que Mill	-	QM				*	Que Reprocessing Site (connected via Que Substation)	-
Queenstown	339	QT	•					QT
Railton	340	RA	•					RTN
Reece	153	RC		•	*		Shared Hydro Tasmania site	RCE
Renison	341	RN				*	Mine site (connected via Rosebery)	
Repulse	112	RE			*			REP
Risdon	342	RI	•					RIS
Robbins Island	210	RS			*#		Proposed wind farm	-
Rokeby	343	RK	•				Includes transition station on TC477 and TC478 to TL454	ROK
Rosebery	344	RB	•					ROS
Rowallan	121	RO			*		Connected via Fisher (FI)	-
Savage River	346	SR	•					
Savage River Mine	-	SN				*	Iron Ore Mine (connected via Savage River)	SV
Scottsdale	347	SD	•					SD
Sheffield	131	SH	•					SHF
Smithton	348	ST	•					SMI
Sorell	349	SO	•					SOR
St Leonards	366	SL	•					-
St Marys	350	SM	•					STM

Site Name	Asset Number	Current Abbreviation	Classification			Remarks	Previous Abbreviation	
			Substation	Switching Station	Power Station	Direct Connect Customer		
Starwood	363	SW				•	Medium density fibreboard plant	SWD
Staverton	394	SV		#			Proposed switching station (North West renewables connection)	
Studland Bay	287	SB			*		Windfarm	-
Tamar Valley	212	TV			*		Dual Power Stations (site with 220 kV and 110 kV switchyards)	-
Tarraleah	037	ТА			*			TAR
Temco	351	TE				•	Shared customer site	TEM
							Ferro-Manganese smelter	
Tods Corner	013	тс			*		Connected via Arthurs Lake (AL)	-
Trial Harbour	388	ТН					Distribution level substation (connected via Rosebery)	
Trevallyn	061	TR	•		*		Shared Hydro Tasmania site	TRV
Triabunna	352	ТВ	•					TRIA
Tribute	170	ТІ			*			TRIB
Tungatinah	051	TU	•		*		Shared Hydro Tasmania site	TUN
Ulverstone	353	UL	•					ULV
Waddamana	012	WA	•					WAD
Waratah Tee	380	WT		•				-
Wayatinah	081	WH			*			-
Wayatinah Tee	080	WY		•				-
Wesley Vale	354	WV	•					WV
Wesley Vale Paper	-	WP				*	Paper Mill (connected via Wesley Vale)	-

Site Name	Asset Number	Current Abbreviation	Classification			Remarks	Previous Abbreviation	
			Substation	Switching Station	Power Station	Direct Connect Customer		
Wild Cattle Hill	213	WC			*		Wind farm	СН
Wilmot	124	WI			*			WIL
Woolnorth	285	WN			*		Collective name for Bluff Point and Studland Bay Wind farms	-
Wynyard	368	WD	#				Proposed substation	
Zinc Mine	-	ZM				*	Zinc Mine (connected via Rosebery)	-
Zinc Smelter	-	ZS				*	Zinc Smelter (connected via Risdon)	-

Note that:

- The 'Remarks' column is used when none of the other categories apply and there is an additional identifiable role;
- The previous site name abbreviations (from a previous standard) have been included for reference purposes. Current signage that refers to the previous abbreviations will be replaced with the new abbreviation;
- Sites marked with an asterisk (*) in the classification column do not have TasNetworks Assets at the site. These are normally radial Power Stations or Direct Connect Customers; and
- Site names marked with a hash (#) in the classification column are proposed sites.
- Asset numbering in the past (from Hydro days) was tied to regions of the state or purpose of asset. In recent years this trend has ceased and numbers are to be sequential with latest number being 394.

5.3 Existing Transmission Circuit Names

Table 24: 220 kV transmission circuit name abbreviations

Transmission Circuit Name	Current Abbreviation	Previous Abbreviation
Farrell–John Butters	FA–JB	FAR–JB
Farrell–Reece-Pieman No. 1	FA-RC-PN1	FA–RC 1
Farrell–Reece-Pieman No. 2	FA-RC-PN2	FA–RC 2
Farrell–Tribute	FA-TI	FAR-TRIB
George Town–Comalco No. 4	GT–CO 4	GT–COM L4
George Town–Comalco No. 5	GT–CO 5	GT–COM L5
George Town–George Town Converter ¹	GT–GC	
George Town–Long Reach ²	GT–LR	
George Town–Tamar Valley No. 3	GT–TV 3	
Gordon–Chapel Street No. 1	GO–CS 1	GOR–CHS L1
Gordon–Chapel Street No. 2	GO–CS 2	GOR–CHS L2
Hadspen–George Town No. 1	HA–GT 1	HAD-GT L1
Hadspen–George Town No. 2	HA–GT 2	HAD–GT L2
Liapootah–Chapel Street No. 2	LI–CS 2	LIA–CHS L2
Liapootah–Cluny–Repulse–Chapel Street No. 1	LI-CL-RE-CS 1	LIA-CLU-REP-CHS L1
Liapootah–Waddamana–Palmerston No. 1	LI-WA-PM 1	LI–PM 1
Liapootah–Waddamana–Palmerston No. 2	LI-WA-PM 2	LI–PM 2
Liapootah–Wayatinah	LI–WY	LIA–WAY
Palmerston–Hadspen No. 1	PM–HA 1	PMN-HAD L1
Palmerston–Hadspen No. 2	PM–HA 2	PMN–HAD L2
Palmerston–Sheffield	PM–SH	PMN–SHF
Pieman-Granville Harbour	PN-GH	
Poatina–Palmerston No. 3	PO-PM 3	POA–PMN L3
Poatina–Palmerston No. 4	PO-PM 4	POA–PMN L4
Poatina–Palmerston No. 5	PO–PM 5	POA–PMN L5
Poatina–Palmerston No. 6	PO-PM 6	POA–PMN L6
Sheffield–Burnie No. 1	SH-BU 1	SHF-BUR L1
Sheffield–Cethana	SH–CE	SHF-CET

¹ Circuit owned and operated by Basslink Pty Ltd, and included in this standard for reference purposes.

² New circuit name associated with proposed Gunns Pulp Mill project.

Transmission Circuit Name	Current Abbreviation	Previous Abbreviation
Sheffield–Farrell No. 1	SH-FA 1	SHF–FAR L1
Sheffield–Farrell No. 2	SH–FA 2	SHF-FAR L2
Sheffield–Fisher	SH-FI	SHF-FIS
Sheffield–George Town No. 1	SH–GT 1	SHF-GT L1
Sheffield–George Town No. 2	SH–GT 2	SHF–GT L2
Sheffield–Lemonthyme	SH–LM	SHF-LEM
Sheffield–Wilmot	SH–WI	SHF-WIL
Waddamana–Lindisfarne No. 1	WA-LF 1	
Waddamana–Lindisfarne No. 2	WA–LF 2	
Waddamana-Wild Cattle Hill	WA-WC	
Wayatinah–Catagunya	WY–CA	WAY–CAT

Table 25: Standard 110 kV transmission circuit name abbreviations

Transmission Circuit Name	Current Abbreviation	Previous Abbreviation
Avoca–St Marys	AV–SM	AVO-STM
Bluff Point–Studland Bay–Smithton	BP–SB–ST	
Bridgewater–Lindisfarne	BW–LF	
Bridgewater–Lindisfarne No. 2	BW-LF 2	
Burnie–Emu Bay	BU–EB	BUR-EB
Burnie–Hampshire	BU–HM	BUR-HAM
Burnie–Port Latta	BU–PL	BUR-PL
Burnie–Smithton	BU–ST	
Chapel Street–Creek Road No. 1	CS–CR 1	CHS-CRK L1
Chapel Street–Creek Road No. 2	CS–CR 2	CHS–CRK L2
Chapel Street–Creek Road No. 3	CS–CR 3	
Chapel Street–Kingston–Electrona	CS–KI–EL	
Chapel Street–Kingston–Knights Road	CS–KI–KR	CHS-KST-KNR
Chapel Street–Risdon	CS–RI	CHS-RIS
Creek Road–North Hobart No. 1	CR–NH 1	CRK–NH L1
Creek Road–North Hobart No. 2	CR–NH 2	CRK–NH L2
Creek Road–Risdon No.1	CR-RI 1	
Devonport–Wesley Vale	DP-WV	DEV–WV
Farrell–Mackintosh	FA-MA	FAR-MAC
Farrell–Que–Savage River–Hampshire	FA-QU-SR-HM	FAR-QUE-SR-HAM
Farrell–Rosebery	FA-RB	FAR-ROS

Transmission Circuit Name	Current Abbreviation	Previous Abbreviation
Farrell–Rosebery–Newton-Queenstown	FA-RB-NT-QT	FA–RB–QT
George Town–Starwood	GT–SW	GT–SWD
George Town–Tamar Valley-Bell Bay No. 1	GT–TV-BB 1	GT –TV 1
George Town–Tamar Valley No. 2	GT–TV 2	BB–BE–GT 2
George Town–Temco No. 1	GT–TE 1	GT–TEM L1
George Town–Temco No. 2	GT–TE 2	GT–TEM L2
Hadspen–Norwood No. 1	HA–NW 1	HAD–NOR L1
Hadspen–Norwood No. 2	HA–NW 2	HAD–NOR L2
Hadspen–Trevallyn No. 1	HA-TR 1	HAD–TRV L1
Hadspen–Trevallyn No. 2	HA–TR 2	HAD–TRV L2
Knights Road–Electrona	KR-EL	KNR-ELE
Knights Road–Huon River–Kermandie	KR-HR-KE	
Lindisfarne–Risdon No. 1	LF-RI 1	
Lindisfarne–Risdon No. 2	LF–RI 2	
Lindisfarne–Mornington–Rokeby No. 1	LF-MT-RK 1	
Lindisfarne–Mornington–Rokeby No. 2	LF–MT–RK 2	
Lindisfarne–Sorell	LF–SO	LF-RK 2-SO
Lindisfarne–Sorell–Triabunna	LF–SO–TB	LIN–SOR–TRIA
Meadowbank–New Norfolk	MB-NN	MBK–NN
Musselroe–Derby ³	MR–DE	
New Norfolk–Boyer No. 1	NN-BY 1	NN-BOY L1
New Norfolk–Boyer No. 2	NN–BY 2	NN–BOY L2
New Norfolk–Chapel Street	NN–CS	NN–CHS
New Norfolk–Creek Road	NN–CR	
Norwood–St Leonards	NW–SL	
Norwood–Scottsdale	NW–SD	
Norwood–Scottsdale–Derby	NW–SD–DE	
Palmerston–Arthurs Lake	PM–AL	
Palmerston–Avoca	PM-AV	PMN-AVO
Palmerston–Hadspen No. 3	PM–HA 3	PMN-HAD L3
Palmerston–Hadspen No. 4	PM–HA 4	PMN-HAD L4
Poatina–Palmerston No. 1	PO-PM 1	POA–PMN L1

³ Circuit operated by Hydro Tasmania, and included in this standard for reference purposes.

Transmission Circuit Name	Current Abbreviation	Previous Abbreviation
Poatina–Palmerston No. 2	PO-PM 2	POA–PMN L2
Port Latta–Smithton	PL-ST	
Queenstown–Newton	QT-NT	QT–NTN
St Leonards–Mowbray	SL–MY	
Sheffield–Burnie No. 2	SH–BU 2	SHF–BUR L2
Sheffield–Devils Gate	SH-DG	SHF-DG
Sheffield–Devonport	SH-DP	SHF-DEV
Sheffield–Paloona–Ulverstone	SH-PA-UL	
Sheffield–Railton No. 1	SH-RA 1	SHF-RTN L1
Sheffield–Railton No. 2	SH-RA 2	SHF–RTN L2
Sheffield–Wesley Vale	SH–WV	SHF–WV
Tarraleah–New Norfolk No. 2	TA-NN 2	TAR–NN L2
Tarraleah–Tungatinah No. 1	TA-TU 1	TAR-TUN L1
Tarraleah–Tungatinah No. 2	TA–TU 2	TAR-TUN L2
Trevallyn–Mowbray	TR-MY	
Tungatinah–Butlers Gorge–Derwent Bridge	TU–BG–DB	TUN-BG-DB
Tungatinah–Lake Echo–Waddamana No. 1	TU–LE–WA 1	TUN-LE-WAD L1
Tungatinah–Meadowbank ⁴	TU–MB	
Tungatinah–Meadowbank–New Norfolk No. 1 ⁵	TU–MB–NN 1	
Tungatinah–Meadowbank–New Norfolk No. 26	TU–MB–NN 2	
Tungatinah–New Norfolk No. 1 ⁷	TU–NN 1	
Tungatinah–New Norfolk No. 2 ⁸	TU–NN 2	
Tungatinah–New Norfolk No. 3 ⁹	TU–NN 3	
Tungatinah–Waddamana No. 2	TU–WA 2	
Ulverstone–Emu Bay	UL-EB	ULV-EB
Waddamana–Palmerston No. 2	WA-PM 2	WAD–PMN L2

⁴ Temporary project name, to be replaced by TU–MB–NN 2,

⁵ Proposed circuit name.

⁶ Proposed circuit name.

⁷ Temporary project name, to be replaced by TU–MB–NN 1.

⁸ Proposed circuit name, to be replaced by TU–MB–NN 2.

⁹ Proposed circuit name.

5.4 Transmission Lines and Cables

Table 26: 110 kV transmission	line and cable	asset names and	numbers
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Asset Number	Transmission Line Name	Notes	Asset Number	Transmission Cable Name	Notes
TL400	Waddamana–Bridgewater Junction (west)		TC400		
TL401	Bridgewater–Lindisfarne		TC401		
TL402	Waddamana–Bridgewater Junction (east)	Dismantled	TC402		
TL403	Lindisfarne–Risdon		TC403		
TL404	Creek Road–Risdon		TC404		
TL405	Butlers Gorge–Queenstown	Dismantled	TC405		
TL406	Queenstown–Rosebery	Part dismantled	TC406		
TL407	Butlers Gorge–Derwent Bridge		TC407		
TL408	Tungatinah–Butlers Gorge Tee		TC408		
TL409	Waddamana–Parknook		TC409		
TL410	Waddamana–Palmerston	Part dismantled	TC410		
TL411	Arthurs Lake Spur		TC411		
TL412	Poatina–Palmerston		TC412		
TL413	Palmerston–Trevallyn		TC413		
TL414	Hadspen–Norwood		TC414		
TL415	Burnie–Smithton		TC415		
TL416	Port Latta Spur		TC416		
TL417	Tarraleah–New Norfolk (east)		TC417		
TL418	Tarraleah–New Norfolk (west)		TC418		
TL419	Meadowbank Spur		TC419		
TL420	Meadowbank Power Station– Meadowbank	Hydro Tasmania line	TC420		
TL421	Boyer Tee–Boyer (north)	Dismantled	TC421		
TL422	Boyer Tee–Boyer (south)	Dismantled	TC422		
TL423	Tarraleah–Tungatinah (east)	Currently in service, to be dismantled. Replaced by TL492.	TC423		
TL424	Tarraleah–Tungatinah (west)	Currently in service, to be dismantled.	TC424		

Asset Number	Transmission Line Name	Notes	Asset Number	Transmission Cable Name	Notes
		Replaced by TL491.			
TL425	Waddamana–Tungatinah (north)		TC425		
TL426	Waddamana–Tungatinah (south)		TC426		
TL427	Lake Echo Spur (east)	Decommissioned	TC427		
TL428	Lake Echo Spur (west)		TC428		
TL429	Palmerston–Avoca		TC429		
TL430	Chapel Street–Creek Road (east)		TC430		
TL431	Chapel Street–Creek Road (west)		TC431	Creek Road Substation, Device E152 to E129, Chapel Street–Creek Road No. 2	
TL432	Chapel Street–Knights Road		TC432		
TL433	Kingston Spur		TC433		
TL434	Mount Nelson Spur	Proposed	TC434		
TL435	Knights Road–Huonville	Now TL594	TC435		
TL436	Knights Road–Kermandie		TC436		
TL437	Sheffield–Devonport		TC437		
TL438	Railton Spur (double circuit)	Dismantled	TC438		
TL439	Railton Spur (single circuit)	Dismantled	TC439		
TL440	Wesley Vale Spur		TC440		
TL441	Sheffield–Burnie		TC441		
TL442	Paloona Spur		TC442		
TL443	Ulverstone Spur		TC443		
TL444	Emu Bay Spur		TC444		
TL445	Burnie–Waratah		TC445		
TL446	Waratah–Savage River		TC446		
TL447	George Town–Temco		TC447		
TL448	George Town–Comalco		TC448		
TL449	Bell Bay–George Town		TC449		
TL450	Sheffield–Devils Gate		TC450		
TL451	Farrell–Rosebery		TC451		
TL452	Farrell–Waratah		TC452		

Asset Number	Transmission Line Name	Notes	Asset Number	Transmission Cable Name	Notes
TL453	Mackintosh Spur		TC453		
TL454	Lindisfarne–Rokeby Transition	Relates to TC477 and TC478	TC454		
TL455	Lindisfarne–Sorell		TC455		
TL456	Triabunna Spur		TC456		
TL457	Avoca–St Marys		TC457		
TL458	Railton–Deloraine	Proposed	TC458		
TL459	Norwood–Mowbray	Dismantled. Replaced by TC487 & TC488	TC459		
TL460	Newton Pump Spur	Decommissioned	TC460		
TL461	Sheffield–Railton		TC461		
TL462	New Norfolk–Chapel Street Junction		TC462		
TL463	New Norfolk–Creek Road		TC463		
TL464	New Norfolk–Boyer		TC464		
TL465	Wesley Vale–Export Pulp Mill	Proposed	TC465		
TL466	Creek Road–Risdon Compact	Proposed	TC466		
TL467	Claremont Spur	Proposed	TC467		
TL468	Electrona–Knights Road	Was TL582. Dismantled. Replaced by TL486.	TC468		
TL469	Electrona Spur	Was part TL581	TC469		
TL470	George Town Transition–Starwood		TC470	George Town–George Town Transition	
TL471	Hadspen–Trevallyn No. 2		TC471		
TL472	Trevallyn–Mowbray		TC472	Trevallyn– Mowbray	
TL473	Bluff Point–Smithton	Operated by Hydro Tasmania	TC473	Woolnorth Transition Structure– Smithton	Operat ed by Hydro Tasman ia
TL474	Studland Bay Spur	Operated by Hydro Tasmania			

Asset Number	Transmission Line Name	Notes	Asset Number	Transmission Cable Name	Notes
TL475			TC475	Creek Road– North Hobart No. 1	
TL476			TC476	Creek Road– North Hobart No. 2	
TL477			TC477	Rokeby Transition Station– Rokeby No. 1	
TL478			TC478	Rokeby Transition Station– Rokeby No. 2	
TL479	Norwood–Scottsdale		TC479		
TL480	Derby Spur		TC480		
TL481	Chapel Street–Chapel Street Junction		TC481		
TL482	Burnie–Smithton No. 2	Proposed	TC482		
TL483	Bell Bay Three Spur		TC483		
TL484	Huon River Spur		TC484		
TL485	Musselroe Bay–Derby	Operated by Hydro Tasmania	TC485		
TL486	Knights Road–Electrona		TC486		
TL487			TC487	Norwood–St Leonards	
TL488			TC488	St Leonards– Mowbray	
TL489	Mornington Spur		TC489		
TL490	Tungatinah–Tarraleah (west)		TC490		
TL491	Tungatinah–Tarraleah (centre)		TC491		
TL492	Tungatinah–Tarraleah (east)		TC492		
TL493	George Town-TEMCO	Proposed			

Asset Number	Transmission Line Name	Notes	Asset Number	Transmission Cable Name	Notes
TL500	Liapootah–Chapel Street		TC500		
TL501	Repulse–Cluny Spur		TC501		
TL502	Liapootah–Palmerston No. 1		TC502		
TL503	Palmerston–Sheffield		TC503		
TL504	Sheffield–Burnie		TC504		
TL505	Poatina–Palmerston (north)		TC505		
TL506	Poatina–Palmerston (south)		TC506		
TL507	Liapootah–Wayatinah		TC507		
TL508	Wayatinah–Catagunya		TC508		
TL509	Palmerston–George Town		TC509		
TL510	Sheffield–George Town		TC510		
TL511	George Town–Comalco		TC511		
TL512	Sheffield–Fisher		TC512		
TL513	Lemonthyme Spur		TC513		
TL514	Sheffield–Wilmot		TC514		
TL515	Cethana Spur		TC515		
TL516	Gordon–Chapel Street		TC516		
TL517	Farrell–Bastyan	Hydro Tasmania Line	TC517		
TL518	Sheffield–Farrell		TC518		
TL519	Farrell–Reece		TC519		
TL520	Waddamana–Lindisfarne		TC520		
TL521	New Norfolk–Lindisfarne	Proposed	TC521		
TL522	Pieman Spur	Under construction	TC522		
TL523	Farrell–John Butters		TC523		
TL524	Tribute Spur		TC524		
TL525	Farrell–Burnie	Proposed	TC525		
TL526	Liapootah–Lyell	Proposed	TC526		
TL527	Liapootah–Palmerston No. 2		TC527		

Table 27: 220 kV transmission line and cable asset names and numbers

Asset Number	Transmission Line Name	Notes	Asset Number	Transmission Cable Name	Notes
TL528	DC Bass Strait Cable	Proposed	TC528		
TL529	George Town–Long Reach Junction		TC529		
TL530	Tamar Valley Spur		TC530		
TL531	Long Reach Spur	Proposed	TC531		
TL532	Waddamana – Wild Cattle Hill		TC532		
TL533	George Town-Comalco	Under construction	TC533		
TL534	Pieman-Granville Harbour		TC534		
TL535	Palmerston-Sheffield No. 2	Proposed	TC535		
TL536	Sheffield-Staverton	Proposed	TC536		
TL537	Staverton-Hampshire Hills	Proposed	TC537		
TL538	Sheffield-Heybridge	Proposed	TC538		
TL539	Heybridge-Burnie	Proposed	TC539		
TL540	Burnie-East Cam	Proposed	TC540		
TL541	East Cam-Hampshire Hills	Proposed	TC541		

Table 28: Miscellaneous transmission line and cable asset names and numbers

Asset Number	Transmission Line Name	Notes	Asset Number	Transmission Cable Name	Notes
TL580	Waddamana–Bothwell 88 kV	Dismantled	TC580		
TL581	Creek Road–Electrona 88 kV	Part dismantled, part now TL469	TC581		
TL582	Electrona–Knights Road 88 kV	Dismantled. Now TL468 and replaced by TL486	TC582		
TL583	Norwood–Derby 88 kV	Dismantled. Now TL479 and TL480	TC583		
TL584	Scottsdale Spur 88 kV	Dismantled	TC584		
TL585	Tods Corner–Arthurs Lake 6.6 kV	Distribution Line	TC585		
TL586	Rowallan–Fisher 22 kV	Hydro Tasmania Line	TC586		
TL587	Bell Bay–George Town 22 kV	Distribution Line	TC587		
TL588	Waddamana–Railton 22 kV	Distribution Line	TC588		
TL589	Trevallyn–Bell Bay 22 kV	Distribution Line	TC589		
TL590	Trevallyn–Prospect 22 kV	Distribution Line	TC590		
TL591	Boyer–Black Hills 22 kV	Distribution Line	TC591		

Asset Number	Transmission Line Name	Notes	Asset Number	Transmission Cable Name	Notes
TL592	Chapel Street–Bridgewater 22 kV	Distribution Line	TC592		
TL593	Que–Hellyer 22 kV	Distribution Line	TC593		
TL594	Knights Road–Huonville 11 kV	Distribution Line	TC594		
TL595	Scottsdale Spur 88 kV	Dismantled. Now TL479 and TL480	TC595		

5.5 Zone Substations

Table 29: Zone substation sites

Site Id	Name	Abbreviation
27	Bellerive Zone	BEZ
29	Cambridge Zone	CAZ
21	Claremont Zone	CLZ
17	Derwent Park Zone	DPZ
14	East Hobart Zone	EHZ
26	Geilston Bay Zone	GBZ
37	Gretna Zone	GTZ
22	Howrah Zone	HOZ
16	New Town Zone	NTZ
40	Richmond Zone	RMZ
23	Rosny Park Zone	RPZ
12	Sandy Bay Zone	SBZ
49	Tods Corner	TCZ
99	Trial Harbour Zone	THZ
49	Wayatinah Zone	WYZ
13	West Hobart Zone	WHZ

6. Appendix A: Explanatory notes for naming of Transline Insulators

6.1 Standard Towers

6.1.1 **Dual Circuit Towers**



Front View

TL516T256 (Gordon-Chapel St)





6.1.2 Flat Spaced Towers



6.1.3 Triangular Spaced Towers



6.1.4 Dual Circuit Towers – Single Circuit



6.2 Unique/Atypical Towers

TL437T41 (Sheffield – Devonport)





TL451T15 (Farrell – Roseberry)





TL414T23 (Hadspen – Norwood)



