



Part of Energy Queensland

Substation Standard

Standard for Substation Signage

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Abstract: This Substation Standard outlines the safety, operational and functional signage application standards for zone substation and switching station sites. It establishes the guidelines for the design, manufacture, and installation of operational and safety signs at Ergon Energy Corporation Zone Substation sites.

Keywords: Signage, Sign, Substation Signage, Substation, Substation Standard, SS-1-9.3.

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Standard for Substation Signage

1 Overview

1.1 Purpose

This Substation Standard outlines the safety, operational and functional signage application standards for zone substation and switching station sites. It establishes the guidelines for the design, manufacture, and installation of operational and safety signs at Ergon Energy Corporation Zone Substation sites.

It is intended to assist Designers, Technical Officers, Project Managers and Construction Staff in specifying, ordering and fitting signage.

1.2 Scope

Substation signs shall be designed and installed at Ergon Energy's Zone Substations to meet public safety and workplace safety standards in accordance with the relevant Industry Laws, Regulations and Applicable Standards. Care should be taken that signage placed conveys the message intended in a concise form.

Ergon Energy Corporation is committed to working in a way which ensures the health and safety of its employees, contractors, customers and members of the public

The document covers:

- An overview of definitions and sign classification.
- An overview of sign materials, location, sighting & maintenance.

Should there be a difference between the general wording of this document and the precise interpretation of any relevant legislation, then that legislation shall apply.

2 References

2.1 Legislation, regulations, rules, and codes

Queensland Electrical Safety Act, 2002 (Queensland Government)

Queensland Electrical Safety Regulation, 2013 (Queensland Government)

Queensland Work Health and Safety Act, 2011 (Queensland Government)

Queensland Work Health and Safety Regulation, 2011 (Queensland Government)

2.2 Ergon Energy controlled documents

[Standard for Substation Fire and Explosion Protection, STNW3035 – 3058013](#)

2.3 Other sources

(AS 1216-2006: Class labels for dangerous goods, 2006) Class labels for dangerous goods.

(AS/NZS 3000, 2007) Class labels for dangerous goods.

(AS 1742.1:2014: Manual of uniform traffic control devices - General introduction and index of signs, 2014) Class labels for dangerous goods.

(ISO 3864.3; 2012; Graphical symbols - Safety colours and safety signs - Part 3: Design principles for graphical symbols for use in safety signs, 2012) Class labels for dangerous goods.

(AS 2676.1, 1992) Class labels for dangerous goods.

(AS2676.2 - 1992, 1992) Class labels for dangerous goods.

(AS/NZS 2865:2009: Safe working in a confined space, 2009) Class labels for dangerous goods.

(AS1319, 1994) Class labels for dangerous goods.

3 Definitions, acronyms, and abbreviations

3.1 Definitions

For the purposes of this standard, the following definitions apply.

Background:	That part of a sign that is behind the legend definition of term.
Combination Sign:	A sign which combines both words and a symbol.
Composite Sign:	A sign on which the words qualify or augment the symbol.
Hybrid Sign:	A combination sign on which the words simply repeat the message given by the symbol.
Danger:	Applied in the context of safety signs to a situation which is likely to be life threatening if the message is ignored.
Legend:	The message content of a sign in words (text) or symbols, or a combination of these.
Shall:	The word shall is to be understood as mandatory.
Should:	The word should is to be understood as non-mandatory, i.e. advisory or recommended.
Symbol:	A graphic or pictorial device used to represent objects or concepts, but for purposes of this document excluding letters, numerals and punctuation symbols.
Warning:	Applied in the context of safety signs to a situation which is likely to be hazardous but not likely to be life threatening if the message is ignored.

3.2 Acronyms and abbreviations

The following acronyms and abbreviations appear in this standard.

PPE:	Personal Protective Equipment
------	-------------------------------

4 Classifications

4.1 Regulatory

Signs containing instructions with which failure to comply constitutes either an offence at law, breach of standing orders, Ergon Energy safety procedures or other directions and subdivided as follows:

- Prohibition signs – Signs that indicate that an action or activity is not permitted.
- Mandatory Signs – Signs that indicate that an instruction must be carried out.
- Limitation or Restriction Signs – Signs that place a numerical or other defined limit on an activity or use of a facility.

4.2 Hazard

Signs advising of hazards - subdivided as below:

- DANGER signs – Signs warning of a particular hazard or hazardous condition that is likely to be life-threatening.
- WARNING signs – Signs warning of a hazard or hazardous condition that is not likely to be life threatening.

NOTE: The term CAUTION used in earlier editions of AS1319 has now been replaced by the term WARNING. The two terms are regarded as being interchangeable.

4.3 Emergency information signs

Signs indicating the location of or directions to, emergency related facilities such as exits, safety equipment or first aid facilities.

This may include but is not limited to the following:

- Emergency telephone numbers
- First aid facilities
- Safety equipment
- Emergency assembly points
- Exits from enclosures/buildings within a substation site

NOTE: EXIT signs indicating exit points from substation buildings are part of the Substation Building requirements.

Such signs are covered, ref – AS/NZS 2293.1: -Emergency evacuation lighting for buildings, and actioned by Ergon Energy Civil and Building Group

4.4 Fire signs

Signs advising the locations of fire alarms and fire-fighting facilities.

Separate signs should be used for any associated messages.

4.5 Operational signs

Signs, other than MANDATORY signs, that are required to convey information, for safety of personnel and Electricity Network, security, data/characteristics relating to the operation of Ergon Energy Corporation Substation Plant.

The signage may contain but is not limited to the following:

- Site asset naming
- Device naming
- Substation fault level
- Telephone (internal and external) usage data
- Site entry requirements
- Radio operation and procedures
- Other non-specific data of operational nature

4.6 Information signs

These signs convey a message or instruction that does not fit into categories listed in AS1319 but do communicate information of a general nature such as Ergon Energy Corporation practices and site policies.

NOTE:

This Ergon Energy Substation standard excludes EXIT signs of the type specified in AS2293.1: 1998 for use inside buildings.

These items are covered by Ergon Energy Substation Civil Construction Standards Group as part of Building Contract.

For security signage refer to Corporate Security Manual R137 and Corporate Security Signage Guideline – Draft.

5 Signs general requirements

- All signage details relate to Ergon Energy Corporation Substation or Switchyard sites unless otherwise noted.
- Signs shall conform to the usage, details, references and all relevant documents as listed in this document.
- Signs may be listed under multiple categories for use in substations. The usage that alerts personnel to the greatest site danger to safety shall be the preferred use

5.1 Sign materials

- Signage shall not be painted directly on to any existing surface.
- Sign materials shall be as shown on associated/referenced drawings

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5.2 Project safety barriers & signage

- The form of any temporary safety barrier e.g. vinyl tapes, netting, solid barriers or steel fence panels, shall be considered when placing any sign.
- The safety barrier must be capable of supporting a sign in such a manner as to be legible at all times, under adverse conditions, from all points of approach for the duration of project.
- Should a signed area be accessible to the general public, signs shall be placed to ensure site is signposted according to Ergon Energy Substation Standards for the full duration of the project.
- A risk assessment of such project should allow for the visibility and placement of signage for the full duration of a project.

5.3 Invalid sign removal

- All signs should be removed immediately if the information or condition listed thereon is no longer relevant.
- Such signs should be replaced with a sign outlining updated information where conditions on project have changed.
- Particular importance should be placed upon the prompt removal of temporary hazard or safety exclusion zone signs when that hazard or danger ceases to exist.
- All sites should be restored to pre-signed status after removal of signs.

5.4 Safety conditions

All signage must be placed in such a manner that at a point face to face with a sign, the sign placement shall cause no breach of any safe working approach limits.

5.5 Sign modification and changes

Any request for addition to, deletion from or changes to this suite of Substation signs shall be made through the Substation Design Standards Team to the Engineering Manager Substation Standards for processing, approval and ratification before enactment of changes.

6 Location & maintenance of signs

6.1 Siting of signs

- Signs shall be prominently placed as close as practicable to an observer's line of sight in a vertical plane.
- For a standing adult this will be approximately 1500 mm above ground or floor level in front of the observer to the horizontal centre line of sign.
- A sign should be located so that an observer has time to read it (or at least extract the information essential to them) before reaching a point of hazard or decision.
- Signs which are free standing or mounted overhead shall be placed so that they are not a hazard to persons approaching to or working on site.
- Placement of signs should not compromise any safe approach limits.

- Signs should not be placed where the possibility of becoming obscured exists.
- Materials should not be placed or stacked in a position that may obscure any signs.
- All signs should be mounted so that no visibility, safety or operational hazards are created by their placement.
- Signs should not be erected in contravention of any relevant laws or regulations or operational procedures.

6.2 Visibility of signs

Incorrect positioning of a sign can reduce its visibility and impact and may render it illegible. In selecting the most effective position for a sign the following needs to be considered.

- Visual obstructions between the sign and all locations from which it is intended to be read should be avoided. This includes temporary obstructions such as an open door, grass or tree growth.
- Signs should not be located against visually cluttered or confusing background, Shift position of sign or rearrange area to ensure sign is conspicuous.
- Signs should be located where the messages are visible and attract the attention of any person approaching or working at substation site.
- A contrasting colour surround may be used to enhance visibility of a sign where the predominant sign colour may blend in with that of immediate background colour.
- Where signs 'weathered beyond readability' are reported during substation inspections or audits, urgent replacement should be arranged.

6.3 Signs on movable objects

Signs should not be mounted on moveable items, such as doors or windows, where a change in position of an object would void the intended purpose of sign or cause it to be out of sight. This does not apply to signs intended to have a portable or moveable application.

When a portable sign is moved, the new position should comply with all visibility and safety requirements for a fixed position sign.

6.4 Regulatory & hazard signs

- Regulatory and Hazard signs should be sited in relation to the particular hazard to allow a person ample time after first viewing the sign to heed the posted warning. The positioning of signs will vary according to the application of sign.
- Signs warning against the touching of switches or other electrical equipment in operational areas should be placed close to the equipment.

6.5 Illumination of signs

- Where natural lighting does not provide adequate illumination of signs, additional sources of illumination must be considered.
- Attention should be addressed to signs subject to some forms of artificial light which cause a change in the perception of colours and reduced sign visibility.

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6.6 Number of signs

Care should be taken in the placement of signs close together at the one position. The result of a congested placement may be that little information is absorbed or the visual impact may be confusing.

The total sign information should be easily read and understood.

7 Substation commissioning

- A pre-commissioning inspection shall be made to ensure that all signs required by this standard are made available in time for commissioning.
- Ensure all signs are legible, unambiguous, provide correct information, be placed in appropriate positions and securely fixed in place for commissioning.

8 Sign maintenance

For maximum effectiveness, signs should be maintained for good readability, they should be kept clean, and replacement of faded/unreadable/damaged signs should be actioned where necessary.

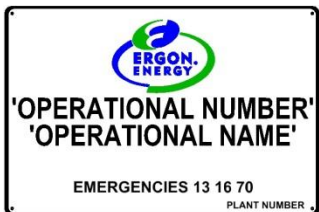
Ensure when inspecting/installing signs that they are legible, and in the correct location for the sign message to be understood.

9 Sign placement icons, drawing details, ergon energy stock code numbers

For standard sign design production details refer to listed Ergon Energy drawings as detailed in the following sub sections. Where multiple versions (sizes) of the sign type are available the preferred option should be selected provided that it meets the requirements of the preceding sections.

9.1 Main entry gate or adjacent fence line

Table 1: Main entry gate or adjacent fence line

Main Entry Gate or Adjacent Fence Line	Drawing No (Dimensions mm)	Stock Code (if applicable)
Ergon Energy Corporation – Site Identification 	EESS-10181-01 (450 x 300)	Order as required
	EESS-10181-02 (600 x 450) - Preferred	Order as required
	EESS-10181-03 (1200 x1200)	Order as required
Personal Protective Equipment (PPE) -required for substation site entry.	EESS-10181-04 (900 x 600) - Preferred	002423028

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Main Entry Gate or Adjacent Fence Line	Drawing No (Dimensions mm)	Stock Code (if applicable)
4 Unit combination sign (head, protective clothing, footwear & eye protection) 	EESS-10181-48 (450 x 300)	Order as required
	EESS-10181-49 (300 x 225)	Order as required
Ergon Energy – Site entry conditions Check requirements for Sub Station Site before ordering. Note: For joint sites each party may place unique: - company sign company conditions for entry company contact details 	EESS-10181-12 (300 x 450)	002423044
Danger – High Voltage 	EESS-10181-10 (450 x 300) - Preferred	002423036
	EESS-10181-11 (600 x 450)	Order as required
	EESS-10181-67 (250 x 180)	Order as required
Non-ionising Radiation-Warning 	EESS-10181-13 (300 x 450)	002423051

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Main Entry Gate or Adjacent Fence Line	Drawing No (Dimensions mm)	Stock Code (if applicable)
Hazchem 	EESS-10181-15 (600 x 125)	002423069
Combustible Liquid 	EESS-10181-14 (1500 x 150)	002423077
Authorised Persons Only 	EESS-10181-16 (300 x 450) - Preferred	002423085
Authorised Persons Only 	EESS-10181-17 (450 x 300)	Order as required
Substation Road Traffic Advisory – Speed Advice – Symbolic 10km/h: 	EESS-10181-18 (300 x 450)	Order as required
	EESS-10181-19 (450 x 600) - Preferred	002423093

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Main Entry Gate or Adjacent Fence Line	Drawing No (Dimensions mm)	Stock Code (if applicable)
Network Access Restriction Applies at this Site Used only when an access restriction for safety reasons applies to some item of plant. Must be removed when safety exclusion no longer applies. NOTE: Item - drawing EESS-10181-58 may also be required in conjunction with the use of item below 	EESS-10181-20 (450 x 300)	002438042
Danger - Network Access Restriction Exists Tag Applies to Plant Item NOTE: This item may also be required in conjunction with the use of item above EESS-10181-20 	EESS-10181-58 (80 x 80)	002438059
Electric security fence warning Where electric security protection fence is fitted at this site this sign should be placed in conjunction with a 'DANGER HIGH VOLTAGE' sign. 	EESS-10181-21 (300 x 225)	N/A

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9.2 Alternative to main entry gate or adjacent fence line

Table 2: Alternative to main entry gate or adjacent fence line

Alternative to Main Entry Gate or Adjacent Fence Line	Drawing No (Dimensions mm)	Stock Code (if applicable)
Ergon Energy Corporation – Site Identification 	EESS-10181-01 (450 x 300)	Order as required
	EESS-10181-02 (600 x 450) - Preferred	Order as required
	EESS-10181-03 (1200 x 1200)	Order as required
Ergon Energy – Site entry conditions <i>Note: For joint sites each party may place unique: - company logo sign company conditions for entry company contact details</i> 	EESS-10181-12 (300 x 450)	002423044
Personal Protective Equipment (PPE) - required for substation site entry. 4 Unit combination sign (head, protective clothing, footwear & eye protection). 	EESS-10181-04 (900 x 600) - Preferred	002423028
	EESS-10181-48 (450 x 300)	Order as required
	EESS-10181-49 (300 x 225)	Order as required
Danger –High Voltage	EESS-10181-10 (450 x 300) - Preferred	002423036
	EESS-10181-11 (600 x 450)	Order as required

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Alternative to Main Entry Gate or Adjacent Fence Line	Drawing No (Dimensions mm)	Stock Code (if applicable)
	EESS-10181-67 (250 x 180)	Order as required
Non-ionising Radiation-Warning 	EESS-10181-13 (300 x 450)	002423051
Hazchem 	EESS-10181-15 (600 x 125)	002423069
Combustible Liquid 	EESS-10181-14 (1500 x 150)	002423077
Authorised Persons Only 	EESS-901978-16 (300 x 450) - Preferred	002423085
Authorised Persons Only 	EESS-10181-17 (450 x 300)	Order as required
Substation Road Traffic Advisory – Speed Advice – Symbolic 10km/h	EESS-10181-18 (300 x 450)	Order as required

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Alternative to Main Entry Gate or Adjacent Fence Line	Drawing No (Dimensions mm)	Stock Code (if applicable)
	EESS-10181-19 (450 x 600) - Preferred	002423093
Network Access Restriction Applies at this Site Used only when an access restriction for safety reasons applies to some item of plant. Must be removed according to safety exclusion status. NOTE: Tag item EESS-10181-58 may also be required in conjunction with the use of item below. 	EESS-10181-20 (450 x 300)	002438042
Danger - Network Access Restriction Exists Tag Applies to Plant Item NOTE: This item may also be required in conjunction with the use of item above EESS-10181-20. 	EESS-10181-58 (80 x 80)	002438059

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Alternative to Main Entry Gate or Adjacent Fence Line	Drawing No (Dimensions mm)	Stock Code (if applicable)
Electric security fence warning Where electric security protection fence is fitted at this site this sign should be placed in conjunction with a 'DANGER HIGH VOLTAGE' sign. 	EESS-10181-21 (300 x 225)	N/A

9.3 Direct entry personnel door/gate from public area to substation site

Table 3: Direct entry personnel door/gate from public area to substation site

Direct Entry Personnel Door/Gate from Public Area to Substation Site	Drawing No (Dimensions mm)	Stock Code (if applicable)
Ergon Energy Corporation – Site Identification 	EESS-10181-01 (450 x 300)	Order as required
	EESS-10181-02 (600 x 450) - Preferred	Order as required
Personal Protective Equipment (PPE)-required for substation site entry- 4 Unit combination sign (head, protective clothing, footwear & eye protection) 	EESS-10181-04 (900 x 600) - Preferred	002423028
	EESS-10181-48 (450 x 300)	Order as required
	EESS-10181-49 (300 x 225)	Order as required
Danger High Voltage	EESS-10181-10 (450 x 300) - Preferred	002423036
	EESS-10181-11 (600 x 450)	Order as required

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Direct Entry Personnel Door/Gate from Public Area to Substation Site	Drawing No (Dimensions mm)	Stock Code (if applicable)
	EESS-10181-67 (250 x 180)	Order as required
Ergon Energy – Site entry conditions Note: For joint sites each party may place unique: - company logo sign companies agreed conditions for entry companies contact details 	EESS-10181-12 (300x450)	002423044
Non-ionising Radiation-Warning 	EESS-10181-13 (300 x 450)	002423051
Authorized Persons only 	EESS-10181-16 (300 x 450) - Preferred	002423085

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Direct Entry Personnel Door/Gate from Public Area to Substation Site	Drawing No (Dimensions mm)	Stock Code (if applicable)
Authorized Persons only 	EESS-10181-17 (450 x 300)	Order as required
Network Access Restriction Applies at this Site Used only when an access restriction for safety reasons applies to some item of plant. Must be removed according to safety exclusion status. NOTE: Tag item EESS-10181-58 may also be required in conjunction with the use of item below 	EESS-10181-20 (450 x 300)	002438042
Danger - Network Access Restriction Exists Tag Applies to Plant Item – NOTE: This item may also be required in conjunction with the use of item above EESS-10181-20 	EESS-10181-58 (80 x 80)	002438059
Hazchem 	EESS-10181-15 (600 x 125)	002423069

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Direct Entry Personnel Door/Gate from Public Area to Substation Site	Drawing No (Dimensions mm)	Stock Code (if applicable)
Combustible Liquid 	EESS-10181-14 (1500 x 150)	002423077

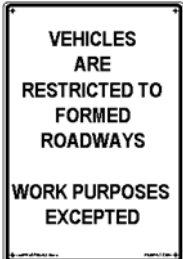
9.4 External face of substation / asset site perimeter fence

Table 4: External face of substation / asset site perimeter fence

External Face of Substation / Asset Site Perimeter Fence	Drawing No (Dimensions mm)	Stock Code (if applicable)
Danger – High Voltage: For long sided perimeter fences a sign should be placed at a distance no greater than 30 metres from a sign at main entrance or alternative entrance gate and then at 30 metre intervals along fence line. Additional signs shall be placed on fence at each change of direction of fence line. 	EESS-10181-10 (450 x 300) - Preferred	002423036
	EESS-10181-11 (600 x 450)	Order as required
	EESS-10181-67 (250 x 180)	Order as required

9.5 Internal to substation/asset site perimeter fence

Table 5: Internal to substation/asset site perimeter fence

Internal to Substation / Asset Site Perimeter Fence	Drawing No (Dimensions mm)	Stock Code (if applicable)
Vehicles are restricted to formed roadways. 	EESS-10181-22 (300 x 450)	002423101

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Internal to Substation / Asset Site Perimeter Fence	Drawing No (Dimensions mm)	Stock Code (if applicable)
Vehicles not to drive across cable ducts. 	EESS-10181-23 (300 x 450)	002423119

9.6 Capacitor bank enclosure

Table 6: Capacitor bank enclosure

Capacitor Bank Enclosure	Drawing No (Dimensions mm)	Stock Code (if applicable)
Danger – High Voltage. 	EESS-10181-10 (450 x 300) - Preferred	002423036
	EESS-10181-11 (600 x 450)	Order as required
	EESS-10181-67 (250 x 180)	Order as required
Danger - High Voltage at Ground Level For HV equipment mounted at ground level. 	EESS-10181-88 (600 x 450)	002472348

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Capacitor Bank Enclosure	Drawing No (Dimensions mm)	Stock Code (if applicable)
Capacitor can preparation for safe working: Note: Capacitor discharge time may vary with supplier/manufacturer. Check operating manual for required discharge time of capacitor cans prior to ordering sign. WORKING ON CAPACITOR BANK • ISOLATE CAPACITOR BANK • WAIT 10 MINUTES • PROVE DE-ENERGISED AND EARTH LINE SIDE OF CAPACITOR BANK • RECEIVE ACCESS OR TEST PERMIT • PLACE A CAPACITOR SHORTING/EARTH TO THE STAR POINT OF BANK, OR SHORT EACH CAPACITOR CAN • IF A CAPACITOR CAN IS TO BE REMOVED, THE CAN MUST BE SHORTED AT ALL TIMES.	EESS-10181-89 (300 x 350)	002472355

9.7 Reactor / other HV equipment enclosure

Table 7: Reactor / other HV equipment enclosure

Reactor/Other HV Equipment Enclosure	Drawing No (Dimensions mm)	Stock Code (if applicable)
Danger – High Voltage. 	EESS-10181-10 (450 x 300) - Preferred	002423036
	EESS-10181-11 (600 x 450)	Order as required
	EESS-10181-67 (250 x 180)	Order as required

Standard for Substation Signage

Reactor/Other HV Equipment Enclosure	Drawing No (Dimensions mm)	Stock Code (if applicable)
Danger - High Voltage at Ground Level For HV equipment mounted at ground level. 	EESS-10181-88 (600 x 450)	002472348
Conditions for entry to Reactor/Other Equipment Enclosure. 	EESS-10181-25 (600 x 450)	Order as required

9.8 Control / Switchroom building entrance door

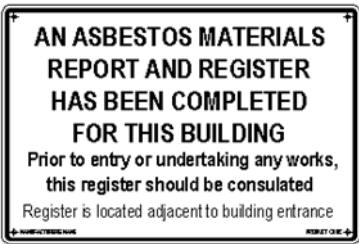
Table 8: Control / Switchroom building entrance door

Control / Switchroom Building Entrance Door	Drawing No (Dimensions mm)	Stock Code (if applicable)
Danger – High Voltage. 	EESS-10181-10 (450 x 300) - Preferred	002423036
	EESS-10181-11 (600 x 450)	Order as required
	EESS-10181-67 (250 x 180)	Order as required

Standard for Substation Signage

Control / Switchroom Building Entrance Door	Drawing No (Dimensions mm)	Stock Code (if applicable)
Mobile phones and radio transceivers. Use for operational and/or other authorised purposes in substation excepted. 	EESS-10181-26 (300 x 450)	002423135
Authorized Persons only. 	EESS-10181-16 (300 x 450) - Preferred	002423085
Authorized Persons only. 	EESS-10181-17 450 x 300	Order as required
No smoking in this area. 	EESS-10181-27 (300 x 450)	002423143

Standard for Substation Signage

Control / Switchroom Building Entrance Door	Drawing No (Dimensions mm)	Stock Code (if applicable)
Asbestos materials advice – Asbestos Warning Sign / Warning Sticker.  Register and site details / execution administered by Energy Network Services	EESS-10181-65 (175 x 200)	Order as required
Asbestos materials advice – Asbestos Warning Sign / Warning Sticker Asbestos Sticker Sign.  Register and site details / execution administered by Energy Network Services	EESS-10181-66 (120 x 50)	Order as required
Asbestos materials advice This is an existing sign at some Ergon Energy sites.  Register and site details / execution administered by Energy Network Services	901978-41- Archived (450 x 300) <u>Information Only</u> Not to be adopted as a replacement sign.	N/A

Standard for Substation Signage

9.9 Control / Switchroom building – emergency exit doors

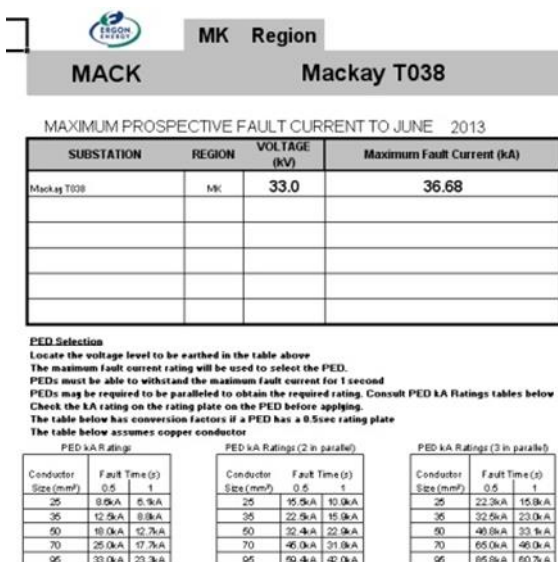
Table 9: Control / Switchroom building – emergency exit doors

Control/Switchroom Building – Emergency Exit Doors	Drawing No (Dimensions mm)	Stock Code (if applicable)
EMERGENCY EXIT – ALARM WILL SOUND NOTE: Applicable only where a Substation Security System is in place. Sign to be mounted on inside face of Alarmed Door. Procurement/Application by Operations Service Delivery Group 	No drawing available. (450 x 180)	Order as required
EMERGENCY EXIT Not part of this suite of Signs. Part of Substation Building Construction Procurement/Application by Operations Service Delivery Group 	No drawing available.	Order as required

Standard for Substation Signage

9.10 Portable earth device (PED) storage racks at substation site substation prospective fault level signage

Table 10: Portable earth device (PED) storage racks at substation site substation prospective fault level signage

Portable Earth Device (PED) Storage Racks at Substation Site Sub Station Prospective Fault Level Signage	Drawing No (Dimensions mm)	Stock Code (if applicable)
Zone Substation Prospective Fault Current Auto - generate System for Required Sign Shown for MACK –Mackay T038 Substation SAMPLE ONLY: The auto-generate spreadsheet (xls) for this application is maintained by Substation Standards Group PED Rating Details: kA/time-single app kA/time-dual app kA/time-triple app 	No drawing available	Create as required via dedicated spreadsheet template Spreadsheet is managed by Power System Management

9.11 Battery rooms, battery enclosures and mounting racks – secondary batteries – vented cells

These signs shall be in accordance with the requirement under the Australian Standards for Guidance for the installation, maintenance, testing and replacement of secondary batteries in buildings – Vented Cells (AS 2676.1, 1992). To meet the requirements Safety Signs shall be designed and constructed to (AS1319, 1994) and should be permanently displayed in prominent positions.

Standard for Substation Signage

- a) The signs are of the following three types:
- b) Restricted Access & Regulatory
- c) WARNING signs
- d) Emergency related information signs

Restricted Access, Regulatory & Warning signs should be placed on every door giving access to a battery room or enclosure and in a prominent position on a wall within a Battery Room.

Emergency related information signs should be placed in a prominent position within a battery room and on the inside of the door on a battery enclosure.

The following sub sections detail the signs for use in applications containing vented battery cells in the context of Battery Rooms, Batter Enclosures and Mounting Racks – Secondary Cells

9.11.1 Vented cells - site access

Table 11: Vented cells - site access

Vented Cells - Site Access	Drawing No (Dimensions mm)	Stock Code (if applicable)
Authorized Persons only. 	EESS-10181-16 (300 x 450) - Preferred	002423085
Authorized Persons only. 	EESS-10181-17 (450 x 300)	Order as required
Fire, naked flame and smoking prohibited. 	EESS-10181-28 (300 x 450)	002423150

Standard for Substation Signage

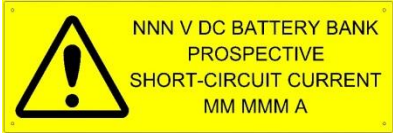
Vented Cells - Site Access	Drawing No (Dimensions mm)	Stock Code (if applicable)
Mobile telephone and radio transceivers prohibited  MOBILE TELEPHONES AND RADIO TRANSCIVERS PROHIBITED	EESS-10181-74 (300 x 450)	Order as required

9.11.2 Vented cells - PPE and warnings

Table 12: Vented cells - PPE and warnings

Vented Cells – PPE and Warnings	Drawing No (Dimensions mm)	Stock Code (if applicable)
Hand protection must be worn.  HAND PROTECTION MUST BE WORN IN THIS AREA	EESS-10181-29 (180 x 250)	Order as required
	EESS-10181-30 (300 x 450)	Order as required
Safety goggles must be worn in this area.  SAFETY GOGGLES MUST BE WORN IN THIS AREA	EESS-10181-06 (300 x 450)	Order as required

Standard for Substation Signage

Vented Cells – PPE and Warnings	Drawing No (Dimensions mm)	Stock Code (if applicable)
Protective Clothing must be worn in this area. 	EESS-10181-08 (300 x 450)	Order as required
Battery Bank Voltage and Fault Current Warning Fit sign as close as practicable to battery set/cubicle. Confirm battery bank voltage and short circuit current details before ordering sign. 	EESS-10181-44 (450 x 150)	Order as required
Battery Bank (cubicle-based bank) Specific PPE/Access conditions in addition to standard field requirements may be required. 	EESS-10181-45 (380 x 180)	Order as required

9.11.3 Vented cells – emergency related information

To meet the relevant Australian Standards for Guidance for the installation, maintenance, testing and replacement of secondary batteries in buildings – Vented Cells (Standards Australia, 1992) the following should be used.

The specific direction from 'AS 2676.1 SAFETY' is as follows:

'Emergency Related Information Signs (ERIS) should give instructions for dealing with Electrolyte burns.

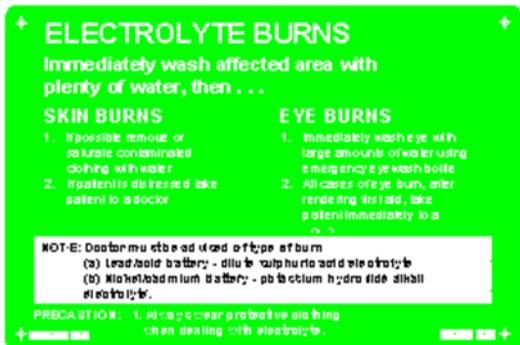
A permanently installed fresh water supply should be provided for all battery rooms.

Where water supply for flushing is not provided disposable sterile eye irrigators or saline solution should be provided at each battery room/set. Care should be taken to ensure the sterile solutions are changed on a regular basis in accordance with manufacturer's instructions as the sterility security has a marked time limit.

Standard for Substation Signage

NOTE: Where a water supply system is installed in the vicinity of any part of an electrical installation, care shall be taken to ensure that the requirements of (AS/NZS 3000, 2007) are met.

Table 13: Vented cells – emergency related information

Vented Cells – Emergency Related Information	Drawing No (Dimensions mm)	Stock Code (if applicable)
Emergency shower and eyewash – Attention: Signs should be mounted in a prominent position within a battery room and on the inside of the door of a battery enclosure. 	ESS-10181-31 (450 x 300)	Order as required
Electrolyte burns—Treatment procedures – Attention: Signs should be mounted in a prominent position within a battery room and on the inside of the door of a battery enclosure. 	EESS-10181-32 (450 x 300)	Order as required

9.11.4 Vented cells – firefighting equipment

To meet the relevant Australian Standards for Guidance for the installation, maintenance, testing and replacement of secondary batteries in buildings – Vented Cells (AS 2676.1, 1992) the following should be used.

The specific direction from ‘AS 2676.1 FIREFIGHTING EQUIPMENT’ is as follows:

‘All battery installations should be provided with portable fire extinguishers suitable for use on acid and alkaline solutions and electrical fires, e.g. CO2 and BCF.

Fire appliances/Signs should be sited adjacent to entrances of rooms or convenient to battery enclosures.

Standard for Substation Signage

The number of appliances and installation should be in accordance with the requirements of the Building Code and appropriate regulatory authority/codes.'

Type, placement, administration and maintenance of these signs is administered by Civil Group

For further details on substation fire and explosion protection refer to Ergon Energy Standards (STNW3035).

Table 14: Vented cells – firefighting equipment

Vented Cells – Fire Fighting Equipment	Drawing No (Dimensions mm)	Stock Code (if applicable)
Fire appliance –Generic symbol. 	Production/Application via Civil Group	Order as required
Fire appliance – Carbon dioxide CO₂: Listed in AS 2676.1 – 1992 as being suitable for acid and alkaline solutions and electrical fires. 	Production/Application via Civil Group	Order as required

Standard for Substation Signage

Vented Cells – Fire Fighting Equipment	Drawing No (Dimensions mm)	Stock Code (if applicable)
Fire appliance – Powder (BCF): Listed in (AS 2676.1, 1992) as being suitable for acid and alkaline solutions and electrical fires. 	Production/Application via Civil Group	Order as required

9.12 Battery room / battery enclosure / mounting rack – secondary batteries - sealed cells – section 8 safety

These signs shall be in accordance with the requirement under the Australian Standards for Guidance for the installation, maintenance, testing and replacement of secondary batteries in buildings – Sealed Cells (AS 2676.1, 1992). To meet the requirements Safety Signs shall be designed and constructed to (AS1319, 1994) and should be permanently displayed in prominent positions.

The signs are of the following two types:

- Restricted Access & Regulatory
- WARNING signs

Signs should be displayed in the following locations;

Restricted Access, Regulatory & Warning signs should be placed on every door giving access to a battery room or enclosure and in a prominent position on a wall within a Battery Room.

A caution (Warning) Signage is applicable where battery capacity exceeds 100 Ah at the 3h rate or nominal voltage is in excess of extra low voltage. Caution signage should be placed on every door giving access to a battery room or enclosure and in a prominent position on a wall within a Battery Room.

Emergency related information signs should be placed in a prominent position within a battery room and on the inside of the door on a battery enclosure.

The following sub sections detail the signs for use in applications containing sealed battery cells in the context of Battery Rooms, Batter Enclosures and Mounting Racks – Secondary Cells

Standard for Substation Signage

9.12.1 Sealed Cells – Restricted Access

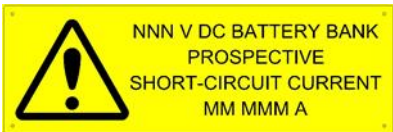
Table 15: Sealed Cells – Restricted Access

Sealed Cells – Restricted Access	Drawing No (Dimensions mm)	Stock Code (if applicable)
Authorized Persons only. 	EESS-10181-16 (300 x 450) - Preferred	Order as required
Authorized Persons only. 	EESS-10181-17 (450 x 300)	Order as required
Fire, naked flame and smoking prohibited. 	EESS-10181-28 (300 x 450)	002423150
Mobile telephone and radio transceivers prohibited 	EESS-10181-74 (300 x 450)	

Standard for Substation Signage

9.12.2 Sealed cells – PPE & warnings

Table 16: Sealed cells – PPE & warnings

Sealed Cells – PPE & Warnings	Drawing No (Dimensions mm)	Stock Code (if applicable)
Hand protection must be worn. 	A4 901978-29 (180 x 250)	Order as required
	A4-901978-30 (300 x 450)	Order as required
Safety goggles must be worn in this area. 	EESS-10181-06 (300 x 450)	Order as required
Protective Clothing must be worn in this area. 	EESS-10181-08 (300 x 450)	Order as required
Battery Bank Voltage and Fault Current Warning. Fit sign as close as practicable to battery set/cubicle. Confirm battery bank voltage and short circuit current details before ordering sign. 	EESS-10181-44 (450 x 150)	Order as required

Standard for Substation Signage

Sealed Cells – PPE & Warnings	Drawing No (Dimensions mm)	Stock Code (if applicable)
Battery Bank (cubicle-based bank). Specific PPE/Access conditions in addition to standard field requirements. 	EESS-10181-45	Order as required

9.12.3 Sealed cells – emergency related information

To meet the relevant Australian Standards for Guidance for the installation, maintenance, testing and replacement of secondary batteries in buildings – Sealed Cells (Standards Australia, 1992) the following should be used.

The specific direction from ‘AS 2676.2 SAFETY’ is as follows:

‘Emergency Related Information Signs (ERIS), if any, should give instructions for dealing with issues related to the type of batteries installed in battery room/enclosure/mounting rack and may be specific to the installed batteries.

Any such signs should be displayed in a prominent position within a battery room and on the inside of the door on a battery enclosure.’

(AS2676.2 - 1992) Secondary Batteries in Buildings – Sealed Cells - does not state any signage requirement for Sealed Cells.

It may be possible during charging with incorrect control or faulty charger may result in the discharge of a combustible mixture of hydrogen and oxygen. Ignition sources should not be allowed / located in close proximity to the tops of cells.

9.12.4 Sealed cells – firefighting equipment

To meet the relevant Australian Standards for Guidance for the installation, maintenance, testing and replacement of secondary batteries in buildings – Sealed Cells (Standards Australia, 1992) the following should be used.

The specific direction from ‘AS 2676.2 FIREFIGHTING EQUIPMENT is as follows:

All battery installations should be provided with portable fire extinguishers suitable for use on acid and alkaline solutions and electrical fires, e.g. CO2 and BCF

Fire appliances/Signs should be sited adjacent to entrances of rooms or convenient to battery enclosures.

The number of appliances and installation should be in accordance with the requirements of the Building Code and appropriate regulatory authority/codes.

Type, placement, administration and maintenance of these signs is administered by Civil Group

For further details on substation fire and explosion protection refer to Ergon Energy Standards (STNW3035).

Standard for Substation Signage

Table 17: Sealed cells – firefighting equipment

Sealed Cells – Fire Fighting Equipment	Drawing No (Dimensions mm)	Stock Code (if applicable)
Fire appliance –Generic symbol. 	Production/Application via Civil Group	Order as required
Fire appliance – Carbon dioxide CO₂. Listed in (AS 2676.1, 1992) as being suitable. 	Production/Application via Civil Group	Order as required
Fire appliance –Powder (BCF): Listed in (AS 2676.1, 1992) as being suitable for acid and alkaline solutions and electrical fires. 	Production/Application via Civil Group	Order as required

Standard for Substation Signage

9.13 SCADA / Communications room door zone substation site

Table 18: SCADA / Communications room door zone substation site

SCADA / Communications Room Door Zone Substation Site	Drawing No (Dimensions mm)	Stock Code (if applicable)
Authorized Persons only. 	EESS-10181-16 (300 x 450) - Preferred	002423085
Authorized Persons only. 	EESS-10181-17 (450 x 300)	Order as required
Fire, naked flame and smoking prohibited. 	EESS-10181-28 (300 x 450)	002423150
Personal Protective Equipment (PPE)-required for substation site entry. 4 Unit combination sign (head, protective clothing, footwear & eye protection). 	EESS-10181-04 (900 x 600)	002423028
	EESS-10181-48 (450 x 300)	Order as required
	EESS-10181-49 (300 x 225) - Preferred	Order as required

Standard for Substation Signage

SCADA / Communications Room Door Zone Substation Site	Drawing No (Dimensions mm)	Stock Code (if applicable)
Non-ionising Radiation-Warning. 	EESS-10181-13 (300 x 450)	002423051

9.14 SCADA / Communications room door - Network Control Centre

Table 19: SCADA / Communications room door - Network Control Centre

SCADA / Communications Room Door Network Control Centre	Drawing No (Dimensions mm)	Stock Code (if applicable)
Authorized Persons only. 	EESS-10181-16 (300 x 450) - Preferred	002423085
Authorized Persons only. 	EESS-10181-17 (450 x 300)	Order as required
Fire, naked flame and smoking prohibited. 	EESS-10181-28 (300 x 450)	002423150

Standard for Substation Signage

SCADA / Communications Room Door Network Control Centre	Drawing No (Dimensions mm)	Stock Code (if applicable)
Personal Protective Equipment (PPE)-required for substation site entry. 4 Unit combination sign (head, protective clothing, footwear & eye protection). 	EESS-10181-04 (900 x 600)	002423028
	EESS-10181-48 (450 x 300)	Order as required
	EESS-10181-49 (300 x 225) - Preferred	Order as required
Non-ionising Radiation-Warning. 	EESS-10181-13 (450 x 300)	002423051

9.15 Entry points to an area classed as – ‘Confined Space’

Table 20: Entry points to an area classed as – ‘Confined Space’

Entry Points to an Area Classed as – ‘Confined Space’	Drawing No (Dimensions mm)	Stock Code (if applicable)
No entry without a confined space permit. 	EESS-10181-33 (300 x 450)	Order as required

Standard for Substation Signage

9.16 Adjacent to 'Un-Potable Water Tap' in substation switchyard (external)

Table 21: Adjacent to 'Un-Potable Water Tap' in substation switchyard (external)

Adjacent to 'Un-Potable Water Tap' in Substation Switchyard (external)	Drawing No (Dimensions mm)	Stock Code (if applicable)
Do not drink. 	EESS-10181-34 (300 x 450)	Order as required

9.17 Adjacent to 'Un-Potable Water Tap' in substation amenities Area

Table 22: Adjacent to 'Un-Potable Water Tap' in substation amenities Area

Adjacent to 'Un-Potable Water Tap' in Substation Amenities Area	Drawing No (Dimensions mm)	Stock Code (if applicable)
Do not drink. 	EESS-10181-34 (300 x 450)	Order as required

Standard for Substation Signage

9.18 Restricted site main entrance adjacent to restricted area / item within substation

Table 23: Restricted site main entrance adjacent to restricted area / item within substation

Restricted Site – Main Entrance Adjacent to Restricted Area/Item within Substation	Drawing No. (Dimensions mm)	Stock Code (if applicable)
Danger - Network Access Restriction Applies at this Site. Used only when an access restriction for safety reasons applies to some item of plant. Must be removed when safety exclusion no longer applies. NOTE: Item - drawing EESS-10181-58 may also be required in conjunction with the use of item below. 	EESS-10181-20 (450 x 300)	002438042
Danger - Network Access Restriction Exists Tag Applies to Plant Item. NOTE: This item may also be required in conjunction with the use of the above sign EESS-10181-20. 	EESS-10181-58 (80 x 80)	002438059

Standard for Substation Signage

9.19 Substation / Control building access doors (interior / exterior)

Table 24: Substation / Control building access doors (interior / exterior)

Substation / Control Building Access Doors (Interior / Exterior)	Drawing No. (Dimensions mm)	Stock Code (if applicable)
Fire exit doors/external – Keep clear at all times. 	EESS-10181-39 (450 x 300) Procurement/Application By Civil Group	Order as required
No parking – Substation entrance. 	EESS-10181-37 (300 x 450) Procurement/Application By Civil Group	002423127
Building entrance (substation located within). 	EESS-10181-36 (300 x 450) Procurement/Application By Civil Group	Order as required
Fire door – Do not block. 	Production/Application via Civil Group	Order as required

Standard for Substation Signage

9.20 Fire appliance signs – general

Table 25: Fire appliance signs – general

Fire Appliance Signs – General	Drawing No. (Dimensions mm)	Stock Code (if applicable)
Fire Appliance - Generic Sign. 	Production/Application via Civil Group	Order as required
Fire appliance – Carbon Dioxide CO₂, Flammable Liquid & Electrical Fires. 	Production/Application via Civil Group	Order as required
Fire Appliance – Powder, Oil/Liquid & Electrical Fires. 	Production/Application via Civil Group	Order as required

Standard for Substation Signage

Fire Appliance Signs – General	Drawing No. (Dimensions mm)	Stock Code (if applicable)
Fire Appliance – Foam, Petrol, Oil & Other Flammable Liquid Fires – Not for Electrical Fires.  	Production/Application via Civil Group	Order as required
Fire Appliance –Water, To be used for Wood, Paper and Fabric Fires– Not for Electrical or Flammable Liquid Fires.  	Production/Application via Civil Group	Order as required

Standard for Substation Signage

9.21 Regulatory – Mandatory

Table 26: Regulatory – Mandatory

Regulatory – Mandatory	Drawing No. (Dimensions mm)	Stock Code (if applicable)
Personal Protective Equipment (PPE) advice sign - Eye Protection - (single sign alternative). 	EESS-10181-05 (300 x 450)	Order as required
Personal Protective Equipment (PPE) advice sign - Safety Goggles (Single sign alternative). 	EESS-10181-06 (300 x 450)	Order as required
Personal Protective Equipment (PPE) advice sign - Head Protection - (single sign alternative). 	EESS-10181-07 (300 x 450)	Order as required
Personal Protective Equipment (PPE) advice sign - Hand Protection - (single sign alternative).	EESS-10181-29 (180 x 250)	Order as required

Standard for Substation Signage

Regulatory – Mandatory	Drawing No. (Dimensions mm)	Stock Code (if applicable)
	EESS-10181-30 (300 x 450)	Order as required
Personal Protective Equipment (PPE) advice sign - Protective Clothing (single sign alternative). 	EESS-10181-08 (300 x 450)	Order as required
Personal Protective Equipment(PPE) advice sign Foot Protection (single sign alternative). 	EESS-10181-09 (300 x 450)	Order as required
Personal Protective Equipment (PPE)-required for substation site entry- 4 Unit combination sign(head, protective clothing, footwear & eye protection). 	EESS-10181-04 (900 x 600)	002423028
	EESS-10181-48 (450 x 300)	Order as required
	EESS-10181-49 (300 x 225) - Preferred	Order as required

Standard for Substation Signage

9.22 Hazard – Danger

Table 27: Hazard – Danger

Hazard – Danger	Drawing No. (Dimensions mm)	Stock Code (if applicable)
Danger – Equipment starts automatically. 	EESS-10181-38 (450 x 300)	Order as required
Danger – High Voltage Testing Keep Clear. 	EESS-10181-72 (450 x 300)	Order as required
Danger - Do not operate Tag – Referenced in Appendix B - Sample Signs & tags of Q.E.E. Procedures for Safe Access to High Voltage Apparatus. 	EESS-10181-41 (150 x 75)	2401684 Use Item Stock Code as per Q.E.E. Appendix B Sample Signs & tags for application
Danger - Network Access Restriction Applies at this Site – Used only when an access restriction for safety reasons applies to some item of plant. Must be removed when safety exclusion no longer applies. NOTE: Tag item EESS-10181-58 may also be required in conjunction with the use of item below. 	EESS-10181-20 (450 x 300)	002438042

STNW3037

Standard for Substation Signage

Hazard – Danger	Drawing No. (Dimensions mm)	Stock Code (if applicable)
Danger - Network Access Restriction Exists Tag Applies to Plant Item NOTE: This item may also be required in conjunction with the use of the above sign EESS-10181-20. 	EESS-10181-58 (80 x 80)	002438059
Cable screen earth bonding – earth bonded at this end. 	EESS-10181-68 (250 x 180)	Order as required
	EESS-10181-77 (80 x 60)	Order as required
	EESS-10181-80 (150 x 75)	Order as required
Cable screen earth bonding – not earth bonded at this end. 	EESS-10181-69 (250 x 180)	Order as required
	EESS-10181-78 (80 x 60)	Order as required
	EESS-10181-81 (150 x 75)	Order as required
Cable screen earth bonding – HV Sheath Voltage Limiters. 	EESS-10181-70 (250 x 180)	Order as required
	EESS-10181-79 (80 x 60)	Order as required
	EESS-10181-82 (150 x 75)	Order as required

Standard for Substation Signage

Hazard – Danger	Drawing No. (Dimensions mm)	Stock Code (if applicable)
Cable screen earth bonding – Refer to EDMS. 	EESS-10181-71 (250 x 180)	Order as required
Generator Star Point To Be Connected To Earth Grid. 	EESS-10181-73 (140 x 100)	Order as required

9.23 Hazard – Warning

Table 28- Hazard – Warning

Hazard - Warning	Drawing No (Dimensions mm)	Stock Code (if applicable)
Warning –Exhaust Ducts may Vent on Fault at any Time- POSITIONED AT REAR OF PANELS. 	EESS-10181-52 (250 x 180)	Order as required
	EESS-10181-53 (125 x 90)	Order as required
Warning –Exhaust Ducts may Vent on Fault at any Time- LEFT HANDED ORIENTATION (on L H side of panels). 	EESS-10181-50 (300 x 225)	Order as required

Standard for Substation Signage

Hazard - Warning	Drawing No (Dimensions mm)	Stock Code (if applicable)
Warning –Exhaust Ducts may Vent on Fault at any Time- RIGHT HANDED ORIENTATION (on R H side of panels). 	EESS-10181-51 (300 x 225)	Order as required
Warning – Frame leakage Protection. 	EESS-10181-47 (180 x 120)	Order as required
Switchgear contains SF6 Gas. 	EESS-10181-43 (450 x 300)	Order as required

9.24 Sustainable forestry plantations

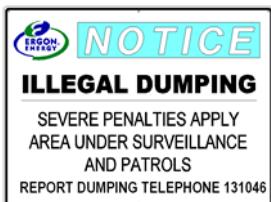
Table 29: Sustainable forestry plantations

Sustainable Forestry Plantations	Drawing No. (Dimensions mm)	Stock Code (if applicable)
Sustainable Forestry Plantation - Pole Supply Site Name & Fire Risk Contact Details – 600 x450 Eagle Rock Mount Marsh Miva Gundiah Boomerang 	EESS-10181-55 EESS-10181-59 EESS-10181-60 EESS-10181-61 EESS-10181-62 (600 x450)	Order as required

Standard for Substation Signage

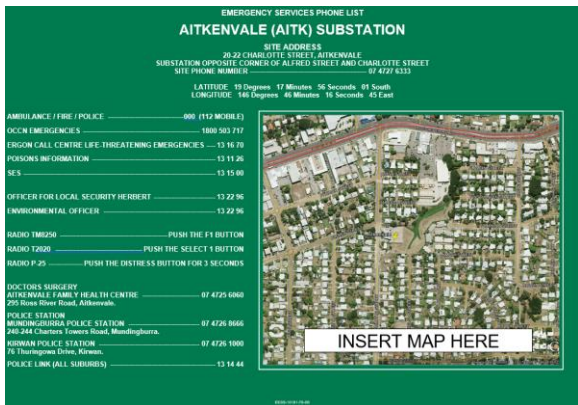
9.25 General purpose – Notice

Table 30: General purpose – Notice

General Purpose - Notice	Drawing No. (and Dimensions)	Stock Code (if applicable)
Notice – Illegal Dumping & Contact Details. 	EESS-10181-56 (600 x 450)	Order as required
Notice – Logbook Location. 	EESS-10181-54 (150 x 80)	Order as required

9.26 Substation Telephone – Emergency information

Table 31: Substation Telephone – Emergency information

Control/Switchroom Building – Emergency Information Sheet	Drawing No (and Dimensions)	Stock Code (if applicable)
Sign is to be printed on an A4 sheet and housed in a photo frame with a white border and a Perspex protective cover. Sign is to be mounted as per 7.1 of this standard. Located indoors adjacent to the public network telephone. This sign shall be Jade green with white text only. Information shall cover all shown in example below. Modify information to suit individual sites. ** Some sites may need to dial (0) to get an external line. Example: 	EESS-10181-76 A4	Create as required via dedicated template. Modify addresses and phone numbers to suit. Do not adjust colours.