

Standard: Numbering and Titling Specification

Standard Number: HPC-9CA-01-0002-2012



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Revision Control		
Revision Date Description		
18	26/08/2021	Request for Site Names & Abbreviations added. Locations and Titles Added. BESS & SPS Numbering Requirements Updated.

Refer to Appendix A for Full Revision History.

STAKEHOLDERS The following positions must be consulted if an update or review is required:		
EPCM Contracts Manager	Senior Engineer Secondary Systems	
Engineering Services Manager	Major Project Directors	
Asset Managers	Drawings & CAD System Specialist	
HPCC	Senior Document Controller	



TABLE OF CONTENTS

1	PURPOSE	. 5
2	COMPLIANCE	. 5
3	OWNERSHIP	. 5
4	REFERENCES	. 5
5	DEFINITIONS AND ABBREVIATIONS	. 5
6	GENERAL REQUIREMENTS	. 7
6.1	Request for Numbers	7
6.2	Request for Site Names / Location Codes	8
6.2.1	Site Names	8
6.2.2	Site Abbreviations	8
6.2.2.1	First Letter	8
6.2.2.2	Second Letter	
6.2.2.3	Third Letter	
6.2.3	Stakeholders	8
7	DOCUMENT NUMBER STRUCTURE AND CODING	. 9
7.1	Legacy Drawings	9
1.1	Logacy Drawingo	
7.1.1	Current drawing number vs legacy (Including Western Power)	
		9
7.1.1	Current drawing number vs legacy (Including Western Power)	9 9
7.1.1 7.1.2	Current drawing number vs legacy (Including Western Power) South Hedland and Hedland Projects	9 9 10
7.1.1 7.1.2 7.2	Current drawing number vs legacy (Including Western Power) South Hedland and Hedland Projects Structure	9 9 10 .10
7.1.1 7.1.2 7.2 7.2.1	Current drawing number vs legacy (Including Western Power) South Hedland and Hedland Projects Structure Location Drawing Number Convention	9 9 10 .10 .10
7.1.1 7.1.2 7.2 7.2.1 7.2.2	Current drawing number vs legacy (Including Western Power) South Hedland and Hedland Projects Structure Location Drawing Number Convention Transmission Line Drawing Number Convention Concept and Tender Drawing Number Convention Standalone Power Systems (SPS) Numbering Convention	9 10 10 10 10 10
 7.1.1 7.1.2 7.2 7.2.1 7.2.2 7.2.3 	Current drawing number vs legacy (Including Western Power) South Hedland and Hedland Projects Structure Location Drawing Number Convention Transmission Line Drawing Number Convention Concept and Tender Drawing Number Convention Standalone Power Systems (SPS) Numbering Convention Battery Energy Storage Systems (BESS) Numbering Convention	9 10 10 10 10 10 11 12 13
7.1.1 7.1.2 7.2 7.2.1 7.2.2 7.2.3 7.2.3	Current drawing number vs legacy (Including Western Power) South Hedland and Hedland Projects Structure Location Drawing Number Convention Transmission Line Drawing Number Convention Concept and Tender Drawing Number Convention Standalone Power Systems (SPS) Numbering Convention	9 10 10 10 10 10 11 12 13
 7.1.1 7.1.2 7.2 7.2.1 7.2.2 7.2.3 7.2.4 7.2.5 	Current drawing number vs legacy (Including Western Power) South Hedland and Hedland Projects Structure Location Drawing Number Convention Transmission Line Drawing Number Convention Concept and Tender Drawing Number Convention Standalone Power Systems (SPS) Numbering Convention Battery Energy Storage Systems (BESS) Numbering Convention	9 10 10 10 11 12 13 14
 7.1.1 7.1.2 7.2 7.2.1 7.2.2 7.2.3 7.2.4 7.2.5 7.2.6 	Current drawing number vs legacy (Including Western Power) South Hedland and Hedland Projects Structure Location Drawing Number Convention Transmission Line Drawing Number Convention Concept and Tender Drawing Number Convention Standalone Power Systems (SPS) Numbering Convention Battery Energy Storage Systems (BESS) Numbering Convention Document Numbering Convention	9 10 10 11 10 11 12 13 14 15
 7.1.1 7.1.2 7.2 7.2.1 7.2.2 7.2.3 7.2.4 7.2.5 7.2.6 8 	Current drawing number vs legacy (Including Western Power) South Hedland and Hedland Projects Structure Location Drawing Number Convention Transmission Line Drawing Number Convention Concept and Tender Drawing Number Convention Standalone Power Systems (SPS) Numbering Convention Battery Energy Storage Systems (BESS) Numbering Convention Document Numbering Convention REDLINE NUMBERING	9 10 10 10 11 11 12 13 14 15 15
 7.1.1 7.1.2 7.2 7.2.1 7.2.2 7.2.3 7.2.4 7.2.5 7.2.6 8 9 	Current drawing number vs legacy (Including Western Power) South Hedland and Hedland Projects Structure Location Drawing Number Convention Transmission Line Drawing Number Convention Concept and Tender Drawing Number Convention Standalone Power Systems (SPS) Numbering Convention Battery Energy Storage Systems (BESS) Numbering Convention Document Numbering Convention REDLINE NUMBERING	9 10 10 110 111 12 113 114 15 16
7.1.1 7.1.2 7.2 7.2.1 7.2.2 7.2.3 7.2.4 7.2.5 7.2.6 8 9 9.1	Current drawing number vs legacy (Including Western Power) South Hedland and Hedland Projects Structure Location Drawing Number Convention Transmission Line Drawing Number Convention Concept and Tender Drawing Number Convention Standalone Power Systems (SPS) Numbering Convention Standalone Power Systems (BESS) Numbering Convention Document Numbering Convention REDLINE NUMBERING Revision Description	9 10 10 11 11 12 13 14 15 16 16
7.1.1 7.1.2 7.2 7.2.1 7.2.2 7.2.3 7.2.4 7.2.5 7.2.6 8 9 9.1 9.2	Current drawing number vs legacy (Including Western Power) South Hedland and Hedland Projects Structure Location Drawing Number Convention Transmission Line Drawing Number Convention Concept and Tender Drawing Number Convention Standalone Power Systems (SPS) Numbering Convention Battery Energy Storage Systems (BESS) Numbering Convention Document Numbering Convention REDLINE NUMBERING Revision Description Cancelled deliverables	9 10 10 11 12 13 14 15 16 16 16



10	STANDARDS DOCUMENTS AND NUMBERS	18
10.1	Standard drawings numbering	18
10.2	Distribution Standards Drawings	19
10.3	Distribution Standards Drawings Versioning	20
10.4	Standards Document Numbering	20
11	DRAWING TITLING	22
11.1	Titles	.22
APPEN	DIX A - REVISION INFORMATION	24
APPEN	DIX B - LOCATION CODES (NUMBERING & TITLING)	26
APPEN	DIX C - FACILITY CODES (NUMBERING)	34
APPEN	DIX D - DISCIPLINE CODES (NUMBERING)	35
APPEN	DIX E - DOCUMENT AND DRAWING TYPES (NUMBERING & TITLING)	37
APPEN	DIX F - DRAWING TITLE REFERENCES	48
APPEN	DIX G - TRANSMISSION LINE PREFIX	52
APPEN	DIX H - LEGACY NUMBERING	54
APPEN	DIX I - WESTERN POWER LEGACY DRAWING NUMBERING STANDA	



1 PURPOSE

This Specification defines the requirements for Numbering and Titling of Engineering Technical Documents and Drawings for Horizon Power.

This Specification also captures legacy numbering that was used as a convention prior to Horizon Power (previously Western Power and State Energy Commission of WA - SECWA) which is still used in current projects.

2 COMPLIANCE

All personnel involved in the creation and / or revision of Engineering Technical Documents and Drawings will comply with this specification. This includes project participants, Contractors, Suppliers and Principal Representatives.

3 OWNERSHIP

Documents created by, or on behalf of Horizon Power are an asset of value.

Engineering Technical Document and Drawings are and shall remain the property of Horizon Power and are not for distribution outside of Horizon Power except where specifically authorised by Horizon Power.

4 **REFERENCES**

Document Number	Description
HPC-9CA-01-0001-2012	Engineering Drawings, General Requirements, Practices and Preparation of Drawings / CAD Specification

5 DEFINITIONS AND ABBREVIATIONS

Term	Description	
Attribute	A unique part of a document number.	
Contractor	The provider of goods or services under the Contract.	
Commercial Documentation	Commercially related documents applicable to a contract and/or project.	
Correspondence	Formal communication between two or more parties for example a letter or memo.	
Discipline code	This code is used to define the broad content of the document differentiating between for instance Mechanical and Quality.	
Document Type	This code further defines the document into specific kind of documents being either discipline specific or used by many disciplines; for instance, a single line diagram is a unique document type associated to the Electrical discipline while document type plan is generic.	



Term	Description	
Document	Documents are all documents created for the purposes of the Contract and/or project that contain specific information about the facility and/or equipment and include the electronic files of such documents.	
Drawing Management Group	The Principal's Drawing Management Group provides document management and control services. Including systematic registration, dissemination, control, status reporting and storage of Controlled Documents.	
Drawings	Drawings are all drawings, plans, sketches, and layouts created for the purposes of the Contract and/or project and include electronic files of such documents.	
Ellipse	Enterprise Management System.	
Facility	Primary area within the location that the drawing is most appropriate.	
Horizon Power	Regional Power Corporation.	
Location	Location of the Site that the drawing or document refers to.	
Legacy numbering	Outdated or obsolete numbering no longer in use / numbering may be used for existing sites and facilities for revisions. May not be used for new Sites and drawings.	
Project Identifier	A single project identifier assigned by for inclusion in all document numbers generated by Horizon Power or its Contractors.	
Originator (Correspondence Only)	A code to identify the organization responsible for the development of the document.	
Principal	Horizon Power (Regional Power Corporation)	
Principal Document Number	A number allocated to a document by The Principal.	
Project Management Documentation	Documents that communicate non-technical information regarding the project.	
Project Identifier/Contract Number	A single project identifier assigned by Horizon Power for inclusion in all documentation numbers generated for the project; combined with the contract number to define a specific Supplier package identifier.	
ProjectWise	The Horizon Power application used for storing and managing all Controlled Engineering Technical Documents, Drawings and relative Engineering Data.	
Revision	An Alpha, Numeric or Numeric Alpha code to track and define the version of a document at a particular point in the lifecycle.	
Recipient (Correspondence/ Commercial Only)	A code to identify the receiving organization.	



Term	Description
Standard	Horizon Power Standard is a document or drawing that prescribes the mandatory requirements for all Engineering work performed.
Subcontractor	A person or company that assumes by secondary contract some or all of the obligations of an original contractor.
Sub Supplier	A Supplier who provides goods or services to another Supplier.
Supplier	Providers of equipment.
Technical Documentation	Formal information which includes text documents, databases, and drawings that communicate technical information pertaining to the physical or functional requirements of a project.
WBS	Work Break Down Structure.
Work	The Supplier/Contractor Scope of Work and Services defined in the Contract.

6 GENERAL REQUIREMENTS

All document authors will and are responsible for ensuring an appropriate document number is requested as per the instructions outlined in section 6.1 Request for Number; prior to development of a document.

The Principal's Document Control Group shall allocate all document and drawing numbers. Registrations are recorded in the Horizon Power's Technical Document Management System (DMS) ProjectWise.

Supplier / Contractor will assign a Principal Document Number to all documents which are generated as part of the execution of Work; including those produced by any Subcontractors or Sub suppliers.

6.1 Request for Numbers

All requests for numbers shall be sent to Horizon Power Document Control.

Email address: <u>HPDC@horizonpower.com.au</u>

All requests for numbers shall be on the latest revision of the electronic form, HPA-0000000-DC-FRM-0001.

This is obtainable from Horizon Power Drawing Management Group.



6.2 Request for Site Names / Location Codes

6.2.1 Site Names

The Site name shall be unique and easily identifiable to its physical location.

- Site Names shall be preferably no more than 2-3 words (not including the suffix e.g. Substation).
- Names are often based on Town / Suburb, Locality, Land Feature, Road.
- Where possible, do not use abbreviations in the official site name (e.g. Road Rd).
- If the Asset when constructed is not to be owned by Horizon Power, it is to be given the prefix IPP (Independent Power Producer).
- The Site name and abbreviation shall not relate to a company / owner name.

6.2.2 Site Abbreviations

Each Horizon Power Site shall be assigned a unique 3 Letter Abbreviation. Site abbreviations that could potentially be mistaken for accepted equipment shall be avoided where possible. Example CAP (Capel) and Capacitor (item of equipment).

6.2.2.1 First Letter

The First Letter shall be the First Letter of the Site.

6.2.2.2 Second Letter

The Second letter is one which the abbreviation to be most easily related to the site.

6.2.2.3 Third Letter

- For a Terminal the last letter shall be "T".
- For a coal fired or gas fired Power Station, the letter shall be "P".
- For a Wind Farm Generator, the letter shall be "W".
- For a Solar Farm Generator, the letter shall be "S".
- For a Hybrid System (mixture of generation with or without Storage) the letter shall be "H".
- For a Substation, the last letter shall be the last letter of the Site name providing it does not conflict with the items above. If a conflict occurs, the next most suitable letter shall be used.

6.2.3 Stakeholders

The following stakeholder should be consulted via email when proposing a new Site Name and Abbreviation.

Stakeholder	Purpose
Regional Asset Manager	Once constructed will own the asset on behalf of Horizon Power
HPCC System Operations Manager	Remote Monitoring & Control of System Operations
Manager Engineering Services	Process Owner



Stakeholder	Purpose
Drawings & CAD System Specialist	Updating of ProjectWise & MicroStation Systems
Asset Data Systems Manager	Updating of Ellipse

Once the Site name has been approved, the below people are to be notified by email.

Position	Contact
Standards Library	Standards.library@horizonpower.com.au
Engineering Services Manager	
OT Asset & Architecture Manager	
EPCM Contracts Manager	
Document Control	HPDC@horizonpower.com.au
Major Project Directors	

7 DOCUMENT NUMBER STRUCTURE AND CODING

7.1 Legacy Drawings

7.1.1 Current drawing number vs legacy (Including Western Power)

Legacy drawing numbering convention shall only to be used in the scenario of an existing drawing (built during the legacy drawing numbering phase) undertaking an upgrade to the already constructed infrastructure. The legacy drawing numbering convention must not be used in the design / commissioning phases of any new facilities. Horizon Power Drawing Management Group will allocate all legacy drawing numbers. Refer to Appendix H.2.

7.1.2 South Hedland and Hedland Projects

South Hedland and Hedland projects used a different numbering format as shown in Appendix H.1. Moving forward the new numbering drawing convention will be used.



7.2 Structure

7.2.1 Location Drawing Number Convention

Principal's Representative will use the following numbering convention.

Table 7-2-1 Location Drawing Number Convention

AAA	-	AA	-	AA	-	AAA	-	NNNN	-	NN
Location Code	-	Facility	-	Discipline	-	Doc. Туре	-	Sequence Number	-	Sheet Number

Note: No spaces shall be created before or after any attribute; including the hyphen.

For Example HDT-SS-EL-LAY-0001-01.

- 1. Location Code Location of the Site, refer to Appendix B.
- 2. Facility Code For a list of Facility codes, refer to Appendix C.
- 3. **Discipline** The discipline selected will be the most appropriate for the content of the document. Note that this is not necessarily the discipline that originates the document. Refer to Appendix D.
- 4. Document Type For a list of document types, refer to Appendix E.
- 5. **Sequence** Document Control will assign a four-digit sequential number to all documents, so each resulting number is unique.
- 6. Sheet Number Document Control will assign a two-digit sequential number.

7.2.2 Transmission Line Drawing Number Convention

The Transmission Line drawing identifier shall include the substations at both ends of the line, with the following rules governing the order of precedence:

- 1) Power stations (energy sources) shall have the highest order of precedence.
- 2) Terminal Yards shall be the next in the order of precedence.
- 3) This will be followed by Zone substations, as the lowest order of precedence.
- 4) If the line connects two locations of equal precedence, then the location with the higher alphabetical order will take precedence.

Examples:

- SHP SHT 31 (SHP takes precedence as it is a Power Station and SHT is a Terminal Yard).
- KRT BUL 81 (KRT takes precedence as it is a Terminal Yard and BUL is a Zone Substation).
- HDT SHT X1 (both locations are Terminals, i.e. equal precedence. HDT takes precedence as it is higher on the alphabetical order).



Principal's Representative will use the following numbering convention.

Table 7-2-2 Transmission Line Drawing Number Convention

ΑΑΑΑΑΑΑΑ	-	AA	-	AA	-	AAA	-	NNNN	-	NN
Transmission Line Code	-	Facility	-	Discipline	-	Doc. Туре	-	Sequence Number	-	Sheet Number

Note: No spaces shall be created before or after any attribute; including the hyphen.

For Example: KRTDMP81-TL-EL-RPL-0001-01.

- 1. Transmission Line Code Transmission Line codes, refer to Appendix G.
- 2. Facility Code For a list of Facility codes, refer to Appendix C.
- 3. **Discipline** The discipline selected will be the most appropriate for the content of the document. Note that this is not necessarily the discipline that originates the document. Refer to Appendix D.
- 4. **Document Type** For a list of document types, refer to Appendix E.
- 5. **Sequence** Document Control will assign a four-digit sequential number to all documents, so each resulting number is unique.
- 6. Sheet Number Document Control will assign a two-digit sequential number.

7.2.3 Concept and Tender Drawing Number Convention

To differentiate current drawings from Tender / Concept drawings, Project specific drawing numbers shall be allocated.

This allows the current drawing to remain available for active projects. The new project drawing will copy the content from the live drawing. The current drawing shall be referenced in the title block of the new project drawing.

Once the project is confirmed by the HP Project Manager, the current drawing will be checked out for Modification and the concept drawing shall be superseded. The current drawing will incorporate the changes from the concept as required.

Principal's Representative will use the following numbering convention.

Table 7-2-3 Concept / Tender Drawing Number Convention

AAAAAAAA	-	AA	-	AA	-	AAA	-	NNNN	-	NN
Project Number	-	Facility	-	Discipline	-	Doc. Туре	-	Sequence Number	-	Sheet Number

Note: No spaces shall be created before or after any attribute; including the hyphen.

For Example: M0001557-TL-EL-LAY-0001-01.

1. **Project Number** – The Job number applicable to the project defined by Ellipse.



- 2. Facility Code For a list of Facility codes, refer to Appendix C.
- 3. **Discipline** The discipline selected will be the most appropriate for the content of the document. Note that this is not necessarily the discipline that originates the document. Refer to Appendix D.
- 4. **Document Type** For a list of document types, refer to Appendix E.
- 5. **Sequence** Document Control will assign a four-digit sequential number to all documents, so each resulting number is unique.
- 6. **Sheet Number** Document Control will assign a two-digit sequential number.

7.2.4 Standalone Power Systems (SPS) Numbering Convention

Principal's Representative will use the following numbering convention.

Table 7-2-4 Standalone Power Systems Drawing Number Convention

AAA	-	AAAAA	-	AA	-	AAA	-	NNNN	-	NN
Location Coc	e -	Ellipse Asset or Standard Project Identifier	-	Discipline	-	Doc. Туре	-	Sequence Number	-	Sheet Number

Note: No spaces shall be created before or after any attribute; including the hyphen.

For Example: ESP-GS011-EL-DGA-0005-05.

The SPS Unit will be known by the combined Location Code & SPS Number.

For Example: **ESP-GS011.**

The 3-digit SPS identifier will be unique to the town / region, for example it is possible to have the same 3 digit number in separate towns / regions as below.

ESP-GS011 and BRM-GS011.

The Drawing Numbers are broken down as follows.

- 1. Location Code Location of the Site or closest major town, refer to Appendix B.
- 2. **Generation Systems –** Unit number assigned by Horizon Power.
- 3. **Discipline** The discipline selected will be the most appropriate for the content of the document. Note that this is not necessarily the discipline that originates the document. Refer to Appendix D.
- 4. **Document Type** For a list of document types, refer to Appendix E.
- 5. **Sequence** Document Control will assign a four-digit sequential number to all documents, so each resulting number is unique.
- 6. Sheet Number Document Control will assign a two-digit sequential number.



7.2.5 Battery Energy Storage Systems (BESS) Numbering Convention

Principal's Representative will use the following numbering convention.

Table 7-2-5 Battery Energy Storage Systems Drawing Number Convention

AAA	-	AAAAA	-	AA	-	AAA	-	NNNN	-	NN
Location Code	-	Ellipse Asset or Standard Project Identifier	-	Discipline	-	Doc. Туре	-	Sequence Number	-	Sheet Number

Note: No spaces shall be created before or after any attribute; including the hyphen.

For Example: ESP-**BS011**-EL-DGA-0005-05.

The BESS Unit will be known by the combined Location Code & BESS Number.

For Example: ESP-BS011.

The 3-digit BESS identifier will be unique to the town / region, for example it is possible to have the same 3 digit number in separate towns / regions as below.

ESP-BS011 and BRM-BS011.

The Drawing Numbers are broken down as follows.

- 1. Location Code Location of the Site or closest major town, refer to Appendix B.
- 2. Battery Systems Unit number assigned by Horizon Power.
- 3. **Discipline** The discipline selected will be the most appropriate for the content of the document. Note that this is not necessarily the discipline that originates the document. Refer to Appendix D.
- 4. **Document Type** For a list of document types, refer to Appendix E.
- 5. **Sequence** Document Control will assign a four-digit sequential number to all documents, so each resulting number is unique.
- 6. Sheet Number Document Control will assign a two-digit sequential number.



7.2.6 Document Numbering Convention

Principal's Representative will use the following numbering convention.

ΑΑΑΑΑΑΑ		ААААААА	-	AAA	-	AA		AAA		NNNN
Project Number	-	Contract Number / PO NUMBER (If Applicable)	-	Location Code	-	Discipline	-	Doc. Type	-	Sequence Number

Note: No spaces shall be created before or after any attribute; including the hyphen.

For Example:

- > M0001557-000000-DMP-EL-RPT-0001 Non Contractual.
- > M0001557-**HP12345-DMP**-EL-RPT-0001 Horizon Power Contractual Document.
- M0001557-S123456-DMP-EL-RPT-0001 Non Specific HP Contractual Documents (EPCM).
- 1. **Project Number** The Job number applicable to the project defined by Ellipse.
- Contract Number / Purchase Order Number Unique Contract / Purchase Order Specific Identifier will be allocated by the Project. General Code (0000000) if a Contract number / PO Number is not applicable. Horizon Power specific Contracts shall use HPXXXXX for ease of Identification. Non Specific HP Contracts (Supplier i.e. EPCM / Subcontractor contract number) shall use SXXXXXX and will be assigned to all supplier data documentation denoted by the prefix S.
- 3. Location Code Location of the Site, refer to Appendix B.
- 4. **Discipline** The discipline selected will be the most appropriate for the content of the document. Note that this is not necessarily the discipline that originates the document. Refer to Appendix D.
- 5. Document Type For a list of document types, refer to Appendix E.
- 6. **Sequence** Document Control will assign a four-digit sequential number to all documents, so each resulting number is unique.



8 REDLINE NUMBERING

A redline drawing could be a hand or electronic mark-up drawing, showing the 'as built \ as constructed' status of the drawing. The redline drawings are used to provide as constructed and up to date information to those who require it to proceed with Work; whilst the drawing is being back-drafted to an 'as built' status, if applicable.

Redline drawings are not a formal revision and as such are to be numbered using the numbering conventions described within this document suffixed by one the following extensions.

_REV RLMU – Redline Mark Up.

_REV RLNC – Redline No Change.

For Example: HDT-SS-EL-LAY-0001-01_0 RLMU.

Where there are multiple redline mark-ups on the same drawing number and revision then the suffix is to include a numeric identifier. For example, _RLMU1, _RLMU2 etc.

9 REVISION NUMBERING

All revisions of a document must be issued to Horizon Power Drawing Management Group in sequential order. Documents that skip revisions will be returned to the originator for correction.

Principal shall consider all documents having an alpha revision to be in the review or approval cycle or to have an issue status of issued for review, issued for tender or information only.

Controlled deliverables will be allocated a Revision as shown in the matrices below.

 Table 9-1
 Revision Number for New Documents and Drawings

Revision Status	Revision Number	Example	Description
Number Issued	Tilde (-)	2	The initial issue by Document Control (Place Holder)
Preliminary Issue or Issued for Tender	Alpha	A,B,C, etc.	Assigned as per project procedures for review, tender etc.
Issued for Use	Numeric	0	Issued for use / Drawing issued in support of, or as part of a standard or specification.
Issued for Construction	Numeric	0	Assigned as per project procedures
Issued for Use or Issued for Construction	Numeric	1,2,3,,,,	Amendments to the IFC or IFU revision that are reissued at IFC / IFU status
As Built	Numeric	Next Numeric (eg 4)	Assigned as per project procedures
Cancelled or Superseded	Next Alpha or Numeric	Next Alpha or Numeric	Assigned as per project procedures

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Table 9-2 Revision Sequence for the Update of Existing Documents and Drawings

Revision Status	Revision Number	Example	Description
As Built or IFC or IFU	Numeric	4	Existing document / drawing issued by DCC
Preliminary Issue or Issued for Tender	Numeric Alpha	4A,4B,4C etc.	Assigned as per project procedures for review, tender etc.
Issued for Construction	Numeric	5	Assigned as per project procedures
Issued for Use	Numeric	5	Issued for use / Drawing issued in support of, or as part of a standard or specification.
Issued for Use or Issued for Construction	Numeric	6,7,8,	Amendments to the IFC or IFU revision that are reissued at IFC / IFU status
As Built	Numeric	Next Numeric (eg 9)	Assigned as per project procedures
Cancelled or Superseded	Numeric	Next Alpha or Numeric	Assigned as per project procedures

9.1 Revision Description

The revision description describes the status of the document within the lifecycle of the document at a specific point in time.

The revision description is different to the issue reason, which describes why a specific document is being transmitted.

The Project Number shall be added to the IFC and As Built Revision Descriptions, e.g. "Issued for Construction for PN123456" "AS BUILT for PN123456"

9.2 Cancelled deliverables

Where a deliverable is cancelled, the drawings shall be revised to the next revision, watermarked 'CANCELLED' and the revision description updated to reflect the reason for cancellation.

Drawings are then delivered to Document Control to be uploaded onto ProjectWise.

Please Note: HorizonCAD Build Contains a Status Tool for Watermarks.

9.3 Superseded deliverables

Where a deliverable is superseded by a new drawing number, the existing drawing shall be revised to the next sequential revision, watermarked "Superseded" with the new drawing number and the revision description updated to reference the new drawing number.

The new drawing number shall reference the superseded number in the revision description e.g. 'Supersedes drawing BGP-GN-EL-0007-01'.

Drawings are then delivered to Document Control to be upload onto ProjectWise.

Please Note: HorizonCAD Build Contains a Status Tool for Watermarks.



9.4 File name

File names of drawings must follow the following conventions.

BRM-SS-EL-LAY-0001- 01_Rev.dgn	CAD file name
BRM-SS-EL-LAY-0001- 01_Rev.pdf	PDF file name

9.4.1 File names for legacy drawings

Existing drawings that have alpha-numeric file names (e.g. sdtcv01.dgn) should retain their file names if they contain Reference Files or Raster Images. Renaming such files with attachments can break the links from drafting software Bentley MicroStation. Files that do not have attachments shall be updated to the Drawing Number captured on the drawing (e.g. SS174-100-1_Rev.dgn).



10 STANDARDS DOCUMENTS AND NUMBERS

10.1 Standard drawings numbering

Standardised numbering conventions are required to manage standard drawings used in construction, maintenance, projects and specifications, where quite often drawings reference other drawings. The drawing numbering convention can be broken down in to a number of parts. Each part represents a different step in the classification of the drawing type given in Table 10-1.

Table 10-1 Standard Drawing Number Convention

AAA	-	AA	-	AA	-	AAA	-	NNNN	-	NN
HPA	-	SD	-	Discipline	-	Doc. Туре	-	Unique Sequence Number	-	Sheet Number

Note: No spaces shall be created before or after any attribute; including the hyphen.

For Example: HPA-SD-EL-LAY-0001-01.

- 1. Location Code HPA signifying Standard, refer to Appendix B.
- 2. Facility Code SD signifying Standard, refer to Appendix C.
- 3. **Discipline** The discipline selected will be the most appropriate for the content of the document. Note that this is not necessarily the discipline that originates the document. Refer to Appendix D.
- 4. Document Type For a list of document types, refer to Appendix E.
- 5. **Unique Sequence Number** Document Control will assign a four-digit unique sequential number to all standard drawings, so each resulting number is unique from Table 10-2.
- 6. **Sheet Number** Document Control will assign a two-digit sequential number.

Table 10-2 Standard Drawing Number Convention

NNNN	STANDARD DRAWING TYPE UNIQUE SEQUENCE
0000-0999	Distribution Overhead
1000-1999	Distribution Underground
2000-2999	Distribution General
3000-3999	Transmission Substation
4000-4999	Transmission Line
5000-5999	Transmission General
6000-6999	Generation Fossil
7000-7999	Generation Renewable

Drawing file name convention is **DrawingNumber_VersionNumber.dgn**

Example is:

HPA-SD-EL-LAY-0001-01_3.dgn for revision 3.

HPA-SD-EL-LAY-0001-01_3.pdf for revision 3.



Examples of legacy standard drawing numbers¹ superseded by this Section 10.1:

- HPA-DL-S-3002-01.
- HPA-SD-E-0001-01.

This example indicates that the drawing is for all of Horizon Power (HPA), the facility is distribution line (DL) or Standard (SD), the discipline is structural (S) or electrical (E). The sequential number starts with '3', so it is a general arrangement or '0'. The remainder of numbers are determined as required, the first is the drawing number, and the last is the sheet number.

10.2 Distribution Standards Drawings

Drawings that are added to existing distribution design and construction manuals shall follow the legacynumbering format for that manual, e.g. *Distribution Construction Standard*, *Distribution Design Catalogue*.

An example of drawing number for the *Distribution Construction Standard* is shown below:

- R3-1 (Title: Insulators Reference chapter).
- H16-2/4 (Title: LBS with bypass switch & 2 bushing TX High Voltage chapter).
- U9 (Title: Universal Pillar Installation Guide LV Underground chapter).
- The first letter indicates the chapter of origin (e.g. High Voltage chapter). The number is the sequential drawing number within that chapter and '-x' for sheets.
- •

Drawing file name convention is DrawingNumber_VersionNumber.dgn

Format is AB-C-D_E e.g. R3-1_2.dgn or H16-2-4_3.dgn and same for .pdf.

A – Chapter of the standard e.g. R; H.

- B Sequential number of construction type e.g. 3; 16.
- C Alternate construction type of same sequential number e.g. 1; 2.
- D Sheet number of drawing where multiple sheets (numeric) e.g. nil; 4.
- E Revision number (numeric) e.g. 2; 3, is separated by underscore "_".

An example of drawing number for the Distribution Construction Standards is shown below:

- GS-02/1 (for Sheet 1)
- GS-02/2 (for Sheet 2)

The first three letters indicate the manual of origin, the second number (3) indicates the chapter of origin (Substation Arrangements). The final number is the drawing number. Drawings from this manual frequently have multiple sheets, but the sheet number is not formally part of the drawing number.

Note: the *Distribution Substation Manual* is being gradually incorporated into the *Distribution Construction Standard* as Chapter G.

¹ Superseded standard HPC-9CA-01-0004-2013: Standard Drawing Numbers



An example of drawing number for the *Distribution Design Catalogue* is shown below:

- PO15 (Pole).
- TX1-2 (Transformer).
- LU11 (Universal Pillar).
- The first portion (consisting of letters) indicate the chapter of origin (Transformers). The remainder is the designation of the Compatible Unit (CU). Drawings from this manual frequently address multiple CUs, which differ from each other by the bill of materials.

For PO15 drawing revision 1, the drawing file name will be PO15_1.dgn.

If there is more than 2 sheets on the drawing, the sheet numbers will be presented with a dash and revision with an underscore for the filename. For example TX1 has sheet 1 and sheet 2 on version 3, the drawing file names will be TX1-1_3.dgn and TX1-2_3.dgn.

10.3 Distribution Standards Drawings Versioning

Note that *Distribution Construction Standards* have revision numbers as letters, for historical reasons. When these are revised, they should be transitioned to numbered revisions. For example, an existing drawing of revision C would be superseded by a new drawing marked revision 4.

The convention of the date on all distribution standards drawings and revisions will be *dd/mm/yy* format.

10.4 Standards Document Numbering

A legacy system of standards document numbering will be retained since the convention has been in use and cross-referenced in multiple documents that relate to compliance and regulatory obligations.

The numbering format is contained in the Standards Register (DM#1918455) that is used to maintain the currency and review period of standards within Horizon Power. Table 10-3 shows the numbering convention for standards documents.

Table 10-3 Standards Documents Number Convention

HPC	-	X	Α	Α	-	XX	-	NNNN	YYYY
HPC	-	Doc. Туре	Engineering Area	Work Type	-	Category	-	Sequential Number	Registration year

Note: No spaces shall be created before or after any attribute; including the hyphen.

For Example: HPC-8DJ-12-0002-2019 – LV Connected Battery Energy Storage Systems.

- 1. Location Code HPC signifying Standard Document.
- 2. **Document Type** 8 signifying Specification.
- 3. Engineering Area D signifying Electrical.
- 4. **Work Type** J signifying Requirements.



- 5. Category 12 signifying Generation Renewable.
- 6. **Sequence** 0002; Document Control will assign a four-digit sequential number to all documents from the register (DM#1918455), so each resulting number is unique.
- 7. Year 2019; year the standard number was generated and registered.

Refer to the Standards Register (DM#1918455) for the numbering format and convention details.



11 DRAWING TITLING

Titles of drawings in general will conform to the five-line format as described within this specification.

All drawings shall be appropriately titled to clearly identify the location and item depicted by the drawing. Existing drawings being revised which do not conform to the current specification titling are to be updated to conform to this standard.

11.1 Titles

To standardise the approach of drawing titling and assist in the data base search functions. The following shall apply:

1. **Title Line 1** shall have the Geographical location, refer to Appendix B, e.g. KARRATHA TERMINAL or Transmission Line Name e.g. KRT – DMP 81.

No Deviation from these parameters shall be permitted.

2. **Title Line 2** shall be the Facility Type, Equipment Type or Switchyard Area, refer to Appendix F.

No Deviation from these parameters shall be permitted.

3. **Title Line 3** shall contain a description of the type of drawing, refer to Appendix E Page 30 to 32.

No Deviation from these parameters shall be permitted.

- 4. **Title Line 4** describe the area, item of plant or other information covered by the drawing. It should include identification by circuit number, bay number or any other information to describe the applicability of the drawings. The layout of the line should follow circuit number, voltage, circuit type and description. The description may be 1 or 2 lines
- 5. **Title** Line 5 (Optional) As above.

Some Typical Drawings (numbers and titles) as follows:

Number	DMP-SS-EL-MAT-0001-01
Title Line 1	DAMPIER SUBSTATION
Title Line 2	AUXILIARY POWER SUPPLIES
Title Line 3	MATERIAL LIST
Title Line 4	440V AC SUPPLY &
Title Line 5	CHANGEOVER BOARD
Number	HDT-SS-EL-SCH-0001-01
Title Line 1	HEDLAND TERMINAL
Title Line 2	PROTECTION
Title Line 3	SCHEMATIC DIAGRAM
Title Line 4	HDT508 22kV REACTOR 52C
Title Line 5	DC PROTECTION



Number	KRTDMP81-TL-ST-DET-0001-01
Title Line 1	KRT – DMP 81
Title Line 2	TRANSMISSION LINES
Title Line 3	DETAIL
Title Line 4	20M INTERMEDIATE POLE
Title Line 5	ANCHOR BOLT CAGE



APPENDIX A - REVISION INFORMATION

(Informative) Horizon Power has endeavoured to provide standards of the highest quality and would appreciate notification of errors or queries.

Each Standard makes use of its own comment sheet which is maintained throughout the life of the standard, which lists all comments made by stakeholders regarding the standard.

The document **DM# 1539733** can be used to record any errors or queries found in or pertaining to this standard, which can then be addressed whenever the standard gets reviewed.

Date	Rev No.	Notes	
02/11/11 3		Added Location Codes for Rio Tinto Power Stations & Substations	
01/12/11 4		Added Location Code for Carnarvon Solar Farm	
25/01/12 5 Added Lo		Added Location Codes for Utah Point & Rottnest	
24/05/12	6	Added Location Codes for new BHP Substations	
30/05/12	7	Changed Document into a Standard	
29/10/12	8	Reformatted and document and project numbering added	
21/01/13	9	Renamed, reformatted and project document numbering modified and new document types added	
16/04/13	10	Added Location Codes for South Hedland Terminal	
10/05/13	11	Document Revised to incorporate the addition of one more numerical field in part 4 of the drawing number for the South Hedland Project, and to split the project numbering and document numbering parts into separate documents.	
29/10/14	12	Removed location codes and referenced CS#10 for 'single source of truth'. Added revision control	
07/12/17	13	Changed title from <i>Generating Drawing Numbers for New Sites post</i> <i>Western Power</i> to <i>Drawing Numbers</i> . Merged with GHD version 12. Added new sections for Standards Drawings, WP standard template drawings.	
17/01/2018	14	New CS 10 Number	
13/12/2019	15	Issued for Review	
07/05/2020	16	Numbering and Titling Documents Updated and Combined.	
26/05/2020	17	Numbering and Titling Documents updated and combined. HPC-9CA-01-0003-2012 Drawing Titles and HPC-9CA-01-0004- 2013 Standard Drawing Numbers superseded by incorporating into this standard.	



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25/08/2021 18	Request for Site Names & Abbreviations added. Locations and Titles Added. BESS & SPS Numbering Requirements Updated.
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APPENDIX B - LOCATION CODES (NUMBERING & TITLING)

DMP-SS-EL-MAT-0001-01

CODE	LOCATION	ТҮРЕ
НРА	HORIZON POWER	REGION
AST	ANDERSON STREET SUBSTATION	SUBSTATION
AYN	ARDYALOON	COMMUNITY
AYN	ARDYALOON POWER STATION	POWER STATION
BLG	BALGO	COMMUNITY
BGB	BEAGLE BAY	COMMUNITY
BGB	BEAGLE BAY POWER STATION	POWER STATION
BEN	BENTLEY	TOWN
BEN	BENTLEY SUBSTATION	SUBSTATION
ВҮА	BIDYADANGA	COMMUNITY
ВҮА	BIDYADANGA POWER STATION	POWER STATION
BLA	BILLILUNA	COMMUNITY
BRM	BROOME	TOWN
BRM	BROOME POWER STATION	POWER STATION
BUL	BULGARRA SUBSTATION	SUBSTATION
LOM	CAMBALLIN / LOOMA	TOWN
LOM	CAMBALLIN / LOOMA POWER STATION	POWER STATION
CLB	CAPE LAMBERT SUBSTATION	SUBSTATION
CRN	CARNARVON	TOWN
CRG	CARNARVON POWER STATION	POWER STATION
CRD	CARNARVON RENEWABLE - DERMS	POWER STATION

HORIZON POWER energy for life

CODE	LOCATION	ТҮРЕ
CRN	CARNARVON SUBSTATION	SUBSTATION
CRL	CORAL BAY	TOWN
CRL	CORAL BAY POWER STATION	POWER STATION
CRS	CORAL BAY SOLAR FARM	SOLAR FARM
CRL	CORAL BAY WIND FARM	WIND FARM
CUE	CUE	TOWN
CUE	CUE POWER STATION	POWER STATION
DMP	DAMPIER	TOWN
DMP	DAMPIER SUBSTATION	SUBSTATION
DEN	DENHAM	TOWN
DEN	DENHAM POWER STATION	POWER STATION
DNS	DENHAM SOLAR FARM	SOLAR FARM
DNW	DENHAM WIND FARM	WIND FARM
DBY	DERBY	TOWN
DBY	DERBY POWER STATION	POWER STATION
DRN	DJARINDJIN	COMMUNITY
DRN	DJARINDJIN POWER STATION	POWER STATION
ЕКІ	EAST KIMBERLEY	REGION
EPI	EAST PILBARA	REGION
ESP	ESPERANCE	TOWN
EHR	ESPERANCE HARBOUR ROAD SUBSTATION	SUBSTATION
EHR	ESPERANCE POWER STATION	POWER STATION
EPA	ESPERANCE PORT AUTH SUBSTATION	SUBSTATION
EHR	ESPERANCE WIND FARM	WIND FARM

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CODE	LOCATION	ТҮРЕ
EXP	EXMOUTH	TOWN
EXP	EXMOUTH POWER STATION	POWER STATION
FDS	FAIRWAY DRIVE SUBSTATION	SUBSTATION
FIT	FITZROY CROSSING	TOWN
FIT	FITZROY CROSSING POWER STATION	POWER STATION
BRM	FREDERICK STREET SUBSTATION	SUBSTATION
GPR	GAP RIDGE SUBSTATION	SUBSTATION
GAS	GASCOYNE	REGION
GJN	GASCOYNE JUNCTION	TOWN
GJ	GASCOYNE JUNCTION POWER STATION	POWER STATION
нс	HALLS CREEK	TOWN
нс	HALLS CREEK POWER STATION	POWER STATION
HRP	IPP – HARBOUR ROAD POWER STATION	POWER STATION
HDR	HARDING RIVER DAM SUBSTATION	SUBSTATION
HDT	HEDLAND TERMINAL	TERMINAL
HTN	HOPETOUN	TOWN
НТР	HOPETOUN POWER STATION	POWER STATION
BPS	IPP - BOODARIE POWER STATION	POWER STATION
BKN	IPP - BROCKMAN SUBSTATION	SUBSTATION
CBS	IPP - CAPE LAMBERT BULK SUPPLY	POWER STATION
DBS	IPP - DAMPIER BULK HANDLING SUB	SUBSTATION
DMS	IPP - DAMPIER MAIN SUBSTATION	SUBSTATION
FIH	IPP - FINUCANE INNER HARBOUR SUB	SUBSTATION
FIN	IPP - FINUCANE ISLAND SUBSTATION	SUBSTATION

HORIZON POWER energy for life

CODE	LOCATION	ТҮРЕ
FOH	IPP - FINUCANE OUTER HARBOUR SUB	SUBSTATION
GWY	/Y IPP - GOLDSWORTHY SUBSTATION	
HPS	IPP - HEDLAND POWER STATION	POWER STATION
HDS	IPP - HOPE DOWNS SUBSTATION	SUBSTATION
НВІ	IPP - HOT BRIQUETTE IRON POWER STATION	POWER STATION
JAD	IPP - JUNA DOWNS SUBSTATION	SUBSTATION
KRP	IPP - KARRATHA POWER STATION	POWER STATION
LPS	IPP - LAMBERT POWER STATION	POWER STATION
ΜΑΟ	IPP - MARANDOO	SUBSTATION
MSM	IPP - MILLSTREAM	SUBSTATION
MSM	IPP - MILLSTREAM SUBSTATION	SUBSTATION
NPS	IPP - NELSON POINT SUBSTATION	SUBSTATION
NGA	IPP - NIMINGARRA	POWER STATION
PWA	IPP - PANAWONICA	SUBSTATION
PDC	IPP - PDC	OTHER
внр	IPP - PORT HEDLAND SUBSTATION	SUBSTATION
RYL	IPP - ROY HILL SUBSTATION	SUBSTATION
SGP	IPP - SHAY GAP SUBSTATION	SUBSTATION
SRY	IPP - STRELLEY SUBSTATION	SUBSTATION
TPE	IPP - TOM PRICE	TOWN
WAS	IPP - WEST ANGELES	SUBSTATION
WCT	IPP - WICKHAM 1 OPERATIONS POWER STATION	POWER STATION
JGL	JIGALONG	COMMUNITY

POWER energy for life

CODE	LOCATION	ТҮРЕ
KLU	KALUMBURU	COMMUNITY
KLU	KALUMBURU POWER STATION	POWER STATION
KRT	KARRATHA	TOWN
КТР	KARRATHA TEMPORARY POWER	POWER STATION
ктѕ	KARRATHA TEMPORARY SUBSTATION	SUBSTATION
KRT	KARRATHA TERMINAL	TERMINAL
КІМ	KIMBERLEY	REGION
KUN	KUNUNURRA	TOWN
КРС	KUNUNURRA PARRYS CREEK SUBSTATION	SUBSTATION
KUG	KUNUNURRA POWER STATION	POWER STATION
KUN	KUNUNURRA SUBSTATION	SUBSTATION
LAK	LAKE ARGYLE	TOWN
LAK	LAKE ARGYLE SUBSTATION	SUBSTATION
LAV	LAVERTON	TOWN
LAV	LAVERTON POWER STATION	POWER STATION
LEO	LEONORA	TOWN
LEO	LEONORA POWER STATION	POWER STATION
MLB	MARBLE BAR	TOWN
MLB	MARBLE BAR POWER STATION	POWER STATION
МКА	MEEKATHARRA	TOWN
МКА	MEEKATHARRA POWER STATION	POWER STATION
MEN	MENZIES	TOWN
MEN	MENZIES POWER STATION	POWER STATION
MID	MIDWEST	REGION

HORIZON POWER energy for life

CODE	LOCATION	ТҮРЕ
MMG	MOUNT MAGNET	TOWN
MMG	MOUNT MAGNET POWER STATION	POWER STATION
MNM	MOUNT NEWMAN MINING SUBSTATION	SUBSTATION
MGP	MUNGALLAH POWER STATION	POWER STATION
MRO	MURCHISON RADIO ASTRONOMY	POWER STATION
MDR	MURDOCH DRIVE SUBSTATION	SUBSTATION
NRS	NORSEMAN	TOWN
NRS	NORSEMAN POWER STATION	POWER STATION
NUL	NULLAGINE	TOWN
NUL	NULLAGINE POWER STATION	POWER STATION
ONS	ONSLOW	TOWN
OWP	ONSLOW POWER STATION	POWER STATION
OWP	ONSLOW SOLAR	SOLAR FARM
OLT	ONSLOW TOWN ZONE SUBSTATION	SUBSTATION
ORD	ORD RIVER HYDRO POWER STATION	POWER STATION
РВО	PARABURDOO	TOWN
РСК	PEGS CREEK SUBSTATION	SUBSTATION
PIL	PILBARA (NWIS	REGION
PSN	POINT SAMPSON	TOWN
PSN	POINT SAMPSON SUBSTATION	SUBSTATION
PHD	PORT HEDLAND	TOWN
RPS	REDBANK POWER STATION	POWER STATION
ROE	ROEBOURNE	TOWN
ROE	ROEBOURNE SUBSTATION	SUBSTATION

HORIZON POWER energy for life

CODE	LOCATION	ТҮРЕ
RTP	ROTTNEST ISLAND	REGION
RTP	ROTTNEST ISLAND POWERSTATION	POWER STATION
SAN	SANDSTONE POWERSTATION	POWER STATION
SAN	SANDSTONE	TOWN
SLH	IPP – SHARK LAKE RD HYBRID GEN SYS	HYBRID GENERATION SYSTEM
SHP	SOUTH HEDLAND POWER STATION	POWER STATION
SHT	SOUTH HEDLAND TERMINAL	TERMINAL
GLD	SOUTH REGION	REGION
SWC	SOUTH WEST CREEK SUBSTATION	SUBSTATION
SHL	STOVEHILL SUBSTATION	SUBSTATION
UTP	UTAH POINT	SUBSTATION
WBN	WARBURTON	COMMUNITY
WRN	WARMUN	COMMUNITY
WRN WARMUN POWER STATION		POWER STATION
WFD	WEDGEFIELD SUBSTATION	SUBSTATION
WAS	WEST ANGELAS SUBSTATION	SUBSTATION
WCB	WEST CANNING BASIN SUBSTATION	SUBSTATION
wкı	WEST KIMBERLEY	REGION
WPI	WEST PILBARA	REGION
wст	WICKHAM	TOWN
WIL	WILUNA	TOWN
WIL	WILUNA POWER STATION	POWER STATION
WYN	WYNDHAM	TOWN
WPS	WYNDHAM EMERGENCY POWER STATION	POWER STATION



CODE	LOCATION	ТҮРЕ
WYN	WYNDHAM SUBSTATION	SUBSTATION
YAL	YALGOO	TOWN
YAL	YALGOO POWER STATION	POWER STATION
YGA	YUNGNGORA	COMMUNITY
YGA	YUNGNGORA POWER STATION	POWER STATION



APPENDIX C - FACILITY CODES (NUMBERING)

DMP-**SS**-EL-MAT-0001-01

CODE	FACILITY	
BS	BATTERY ENERGY STORAGE SYSTEM	
DE	DEPOTS	
DL	DISTRIBUTION LINES	
GF	GEOTHERMAL FARM	
GS	GENERATION SYSTEMS (SPS)	
HF	HYDRO FARM	
нg	HYBRID GENERATION SYSTEM	
нү	HYDROGEN POWER STATION	
PS	POWER STATIONS	
SD	STANDARD ** ONLY USE FOR HP STANDARD NUMBERING**	
SF	SOLAR FARM	
ss	SUBSTATIONS AND SWITCHYARDS	
TF	TIDAL FARM	
TL	TRANSMISSION LINES	
WF	WIND FARM	



APPENDIX D - DISCIPLINE CODES (NUMBERING)

DMP-SS-EL-MAT-0001-01

CODE	DESCRIPTION
AD	ADMINISTRATION
AR	ARCHITECTURAL
BD	BUSINESS DEVELOPMENT / STRATEGIC MARKETING
СІ	CIVIL
CS	COMMISSIONING
СМ	COMMUNICATION SYSTEMS
CN	CONSTRUCTION/CONSTRUCTION MANAGEMENT
со	CONTRACTS
DC	DOCUMENT CONTROL
EL	ELECTRICAL
EN	ENVIRONMENTAL
EP	EPCM
ES	ESTIMATING
FA	FABRICATION
FI	FINANCE
GE	GEOLOGY & GEOTECHNICAL
нѕ	HEALTH & SAFETY
HR	HUMAN RESOURCES
IM	INFORMATION MANAGEMENT
IS	INFORMATION SYSTEMS/ICT
IX	INSPECTION SERVICES

DM# 9118921 HPC-9CA-01-0002-2012

HORIZON POWER energy for life

CODE	DESCRIPTION
IC	INSTRUMENTATION & CONTROL
LA	LANDSCAPE
LO	LOGISTICS AND MATERIAL MANAGEMENT
МА	MAINTENANCE
ML	MATERIALS/METALLURGY
ME	MECHANICAL
мт	METERING
MD	MULTI DISCIPLINE
OP	OPERATIONS
РА	PLANNING APPROVALS AND LAND DEVELOPMENT
PC	PROJECT CONTROLS AND PLANNING
Ы	PIPING
РМ	PROJECT MANAGEMENT
РТ	PROCUREMENT
QA	QA/QC
RI	RISK
SD	SAFETY IN DESIGN (ENSMS)
SR	SAFETY & RISK
sc	SCADA
SE	SECURITY
ST	STRUCTURAL
SU	SURVEYING /GIS



APPENDIX E - DOCUMENT AND DRAWING TYPES (NUMBERING & TITLING)

DMP-SS-EL-**MAT**-0001-01

CODE	DESCRIPTION	
PROJECT MANAGEMENT		
AGC	AGREEMENT	
AGN	AGENDA	
COE	CLOSE OUT EVALUATION	
FNO	FILE NOTE	
FRM	FORM	
HDD	HANDOVER DOSSIER	
IMG	IMAGE	
IST	INSTRUCTION	
LTR	LETTER	
МЕМ	MEMORANDUM	
МОМ	MINUTES OF MEETING	
РНТ	РНОТО	
ORG	ORGANISATION CHART	
POS	POSITION DESCRIPTION	
PRS	PRESENTATION	
PPL	PROPOSAL / TENDER SUBMISSION TO CLIENT	
sow	SCOPE OF WORK AND/OR SERVICES	
STR	STRATEGY	

CODE	DESCRIPTION	
PROJECT CONTROLS		
BUD	BUDGET	
СЅТ	COST REPORT	
CTR	COST TIME RESOURCE	
EST	ESTIMATE	
PCR	PROJECT CHANGE REQUEST	
PGR	PROGRESS REPORTS	
VAR	VARIATION	
WBS	WORK BREAKDOWN STRUCTURE	
CONTRACTS		
ADD	RFP ADDENDUM	
AWL	CONTRACT AWARD COVER LETTER	
ВКС	BANK GUARANTEE	
СВЕ	COMMERCIAL BID EVALUATION	
CDA	CONFIDENTIALITY DEED/AGREEMENT	
CEC	CONTRACT EXECUTION CHECKLIST	
CLA	CLARIFICATION/DEPARTURE	
CLM	CLAIM	
сот	CONDITIONS OF TENDERING	
CRV	CONTRACT VARIATION	
стѕ	CONTRACT SECURITY	

POWER energy for life

CODE	DESCRIPTION	
DEE	DEED OF SETTLEMENT	
EOI	EXPRESSION OF INTEREST	
EVL	TENDER EVALUATION	
EXC	EXECUTED CONTRACT	
INV	INVOICE	
ІТТ	INVITATION TO TENDER	
LOI	LETTER OF INTENT	
мои	MEMORANDUM OF UNDERSTANDING	
NOD	NOTICE OF DELAY	
NOV	NOTICE OF VARIATION	
NSP	NOTICE OF SUCCESSFUL PROPOSAL	
NUP	NOTICE OF UNSUCCESSFUL PROPOSAL	
РСО	PURCHASE ORDER	
РОР	PROPOSAL OPENING RECORD	
POR	PURCHASE ORDER REQUISITION	
PQL	PRE-QUALIFICATION	
PRC	PROGRESS CLAIM	
QTE	SUPPLIER QUOTATION	
RFA	RECOMMENDATION FOR AWARD	
RFS	RECOMMENDATION FOR SHORTLIST	
RFI	REQUEST FOR INFORMATION	

CODE	DESCRIPTION	
RFP	REQUEST FOR PROPOSAL	
RFQ	REQUEST FOR QUOTATION	
SDR	SUPPLIER DATA REQUIREMENTS (SDRL)	
SOR	SERVICE ORDER	
SSJ	SOLE SOURCE JUSTIFICATION	
ТВЕ	TECHNICAL BID EVALUATION	
TDP	TECHNICAL DEVIATION PROPOSAL / CONCESSION REQUEST	
TRA	DOCUMENT TRANSMITTAL	
VAQ	VARIATION APPROVAL REQUEST	
wco	WORKS CONTRACT	
QUALITY		
ALT	SAFETY ALERT	
СКГ	CHECKLIST	
AUD	AUDIT REPORT	
CAR	CORRECTIVE ACTION REQUEST	
САТ	CALIBRATION AND TEST RECORD	
FAT	SUPPLIER TESTING DOCUMENTS	
FTC	FUNCTION TEST CERTIFICATE	
GDE	GUIDE	
IAI	INSPECTION ASSESSMENT INSTRUCTION	
ITP	INSPECTION & TEST PLAN	

CODE	DESCRIPTION	
ITR	INSPECTION & TEST REPORT	
NCR	NON-CONFORMANCE REPORT	
POL	POLICY	
PRO	PROCEDURE	
PQS	SUPPLIER PRE-QUALIFICATION	
QAN	QUALITY ALERT NOTICE	
QSS	QUALITY SHOP SURVEY	
WOI	WORK INSTRUCTION	
DOCUMENT CONTROL		
DRF	DRAWING REQUEST FORM	
PDM	PROJECT DISTRIBUTION MATRIX	
ТЕМ	TEMPLATE	
ENGINEERING		
AEL	AUTHORISED ENGINEERS LIST	
BOD	BASIS OF DESIGN	
вом	BILL OF MATERIALS	
CAL	CALCULATION	
CER	CERTIFICATE	
СНТ	CHART	
сос	CERTIFICATE OF COMPLETION	
СРК	CONSTRUCTION WORK PACK	

CODE	DESCRIPTION	
DEC	DESIGN CRITERIA	
DAS	DATASHEET	
EDQ	EQUIPMENT DATA QUESTIONNAIRE	
ENM	ENGINEERING ANALYSIS MODEL	
FLC	FLOWCHART	
FRP	FORTNIGHTLY REPORT	
нмѕ	HAZARDOUS MATERIAL SCHEDULE	
HZR	HAZARD REPORT	
IDX	INDEX	
ЮМ	INSTALLATION AND OPERATIONS MANUAL	
JOB	JOB BOOK / DOCUMENT INDEX	
LST	LIST (E.G. EQUIPMENT, LINE TIE-INS, BATTERY LIMITS ETC.)	
MAN	MANUAL	
МАР	MAPS	
мтх	MATRIX	
MDL	MASTER DOCUMENT LIST	
MDR	MANUFACTURER'S DATA REPORT	
MRP	MONTHLY REPORT	
MST	METHOD STATEMENT	
мто	MATERIAL TAKE OFF	
РНІ	PHILOSOPHY	

POWER energy for life

CODE	DESCRIPTION	
PLN	PLAN	
REC	RECORD	
REF	REFERENCE	
REG	REGISTER	
REQ	REQUISITION	
RPT	REPORT	
sco	CONTRACT SPECIFICATION	
SDL	SUPPLIER DOCUMENT / DRAWING LIST	
SFT	SOFTWARE	
SPC	SPECIFICATION	
SRL	SUPPLIER REQUIREMENT LIST	
SST	STANDARD SPECIFICATION	
TEN	TECHNICAL NOTE /STUDY	
TQR	TECHNICAL QUERY	
VIP	VALUE IMPROVEMENTS	
WRP	WEEKLY REPORT	
DRAFTING (DRAWING TYPES)	DRAFTING (DRAWING TYPES)	
ALM	ALIGNMENT SHEET	
APL	AREA PLAN	
АМТ	ARRANGEMENT	
ASY	ASSEMBLY	

CODE	DESCRIPTION	
BLK	BLOCK DIAGRAM	
СРТ	CONCEPT DRAWING	
CON	CONNECTION DIAGRAM	
DES	DESCRIPTIVE	
DET	DETAIL	
DNG	DRAINAGE DRAWING	
ELE	ELEVATION	
FND	FOUNDATIONS	
GAR	GENERAL ARRANGEMENT	
HAZ	HAZARDOUS AREA	
INS	INSTALLATION DETAIL	
INC	INTERCONNECTION DIAGRAM	
KEY	KEY DIAGRAM	
LAY	LAYOUT	
LSP	LIGHT & SMALL POWER	
LOC	LOCATION PLAN	
MAF	MANUFACTURER DRAWING	
МАТ	MATERIAL LIST	
MOD	MODEL	
NET	NETWORK DIAGRAM	
OIN	OVERHEAD INSTALLATION	

DM# 9118921 HPC-9CA-01-0002-2012

Page 44 of 60

CODE	DESCRIPTION	
ONE	OVERHEAD NETWORK	
OSE	OVERHEAD SERVICES	
PIP	PIPING SUPPORT DRAWING	
PLA	PLAN	
PFD	PROCESS FLOW DIAGRAM	
PRF	PROFILE DRAWING	
RAT	RATING DIAGRAM	
RPL	ROUTE PLAN	
SCD	SCHEDULE	
SCH	SCHEMATIC DIAGRAM	
SEC	SECTION DRAWING	
SFD	SIGNAL FLOW DIAGRAM	
SLD	SINGLE LINE DIAGRAM	
SIP	SITE PLAN	
SUT	SITE UTILISATION	
siw	SITE WORK	
ѕкт	SKETCH	
STW	STEELWORK DRAWING	
SYS	SYSTEM FUNCTION DIAGRAM	
ТАВ	TABLE	
TER	TERMINATION DIAGRAM	

CODE	DESCRIPTION	
UIN	UNDERGROUND INSTALLATION	
UNE	UNDERGROUND NETWORK	
UGS	UNDERGROUND SERVICES	
WID	WIRING DIAGRAM	
CONSTRUCTION		
CIR	CONSTRUCTION INSPECTION REPORT	
cos	CONSTRUCTION STRATEGY	
FCN	FIELD CHANGE NOTICE	
FIR	FIELD INSPECTION REPORT	
FQY	FIELD QUERY	
JSA	JOB SAFETY ANALYSIS	
РОВ	PERSONS ON SITE REGISTER	
SIN	SITE INSTRUCTION	
SQR	SITE QUERY	
COMMISSIONING	·	
CDR	DAILY REPORT	
СММ	COMMISSIONING METHOD STATEMENT	
СМS	COMMISSIONING MANAGEMENT SYSTEM GENERATED DOCUMENT	
CPL	COMMISSIONING PUNCH LIST	
CPS	COMMISSIONING PARAMETER SETTINGS	
CRP	COMMISSIONING REPORT	



CODE	DESCRIPTION	
СОМ	COMMISSIONING PROCEDURE	
CWP	COMMISSIONING / COMPLETIONS WORK PACK	
DOS	COMMISSIONING DOSSIER	
NOE	NOTICE OF ENERGISATION	
ОТР	OPERATION TEST PROCEDURE	
TRN	TRAINING DOCUMENTS	



APPENDIX F - DRAWING TITLE REFERENCES

FACILITY TYPE, EQUIPMENT TYPE OR SWITCHYARD AREA ***Line TWO of the Title***

DESCRIPTION	REMARK
ALARMS	SCHEMATICS
AUXILIARY POWER SUPPLIES	AC SUPPLIES & DISTRIBUTION
BUILDING	INTERNAL PLANS
BATTERY ENERGY STORAGE SYSTEM	
BUSBARS	DRAWINGS ASSOCIATED WITH RIGID BUSBARS
CIRCUIT BREAKERS	
CAPACITOR BANKS	
COUPLING CAPACITORS	
CONDUCTORS	
CIVIL	
CABLING	SCHEDULES & ACCESSORIES (INCLUDING SEALING ENDS)
CONSUMER MAINS	
CONNECTORS	INCLUDES TERMINAL PALMS, ADAPTOR PLATES & SPACERS
COMMUNICATIONS	INCLUDES PILOT WIRE SYSTEMS
CONTROL PANELS	MIMIC TYPE
CONTROL	SCHEMATICS
CABLE TRENCHES	

DESCRIPTION	REMARK
CURRENT TRANSFORMERS	
CURRENT & VOLTAGE TRANSFORMERS	COMBINED CT & VT
CABLE TRAYS	
DC SUPPLIES	
DEPOTS	
DISCONNECTOR	
DISTRIBUTION NETWORK	
DISTRIBUTION SUBSTATION	
DISTRIBUTION CONNECTION	
EARTHING	
EARTHING COMPENSATORS	
ELECTRICAL CONTROL ROOM	
EQUIPMENT ENCLOSURES	MARSHALLING BOX, FUSE BOX
ELECTRICAL	RESTRICTED USE
EARTH SWITCH	
FENCES	
FIRE PROTECTION	
GEOTHERMAL FARM	
GENERAL	PROPERTY DETAILS ETC.
GENERATION SYSTEMS	
HYDRO FARM	

POWER energy for life

DESCRIPTION	REMARK
HYBRID GENERATION SYSTEMS	
HEAT RECOVERY SYSTEM	
HYRDOGEN POWER STATION	
INTERCONNECTION LINES	
INSULATORS	
INSULATOR SET HARDWARE	
LABELS	SCHEDULES AND DETAILS
LIGHTING	
LANDSCAPING	
LINE TRAPS	
MICROGRID	
METERING	
PROTECTION CUBICLE	ARRANGEMENT & WIRING DIAGRAMS
PROTECTION RACKS	ARRANGEMENT & WIRING DIAGRAMS
PROTECTION	SCHEMATICS
POWER STATION	
REACTORS	
ROADS	
RTU CUBICLE	
SWITCHBOARD	
SCADA	

DESCRIPTION	REMARK
SURGE DIVERTERS	
SERVICES	
SOLAR FARM	
SUSPENSION INSULATOR SET	
STANDALONE POWER SYSTEM	
SWITCHROOM	RELAY ROOM PANEL LAYOUTS
SUBSTATIONS AND SWITCHYARDS	FOR DRAWINGS SUCH AS ELEVATION AND LAYOUT OF BAYS
STRUCTURES	
SUPERVISORY	
SITE WORKS	EARTHWORKS, RETAINING WALLS, FEATURE WALLS ETC.
SWITCHYARD	
TENSION INSULATOR SET	
TIDAL FARM	
TRANSFORMERS	INCLUDES AUXILIARY & STATION TRANSFORMERS
TRANSMISSION LINES	
VOLTAGE TRANSFORMERS	
WIND FARM	
WATER SYSTEM	



APPENDIX G - TRANSMISSION LINE PREFIX

KRTDMP81-TL-EL-RPL-0001-01

Title	Line	Description	Drawing Prefix
AST - MDR 71	71	ANDERSON STREET SUBSTATION TO MURDOCH DRIVE SUBSTATION	ASTMDR71
AST - MNM 71	71	ANDERSON STREET SUBSTATION TO MOUNT NEWMAN MINING SUBSTATION	ASTMNM71
BUL - PCK 81	81	BULGARRA SUBSTATION TO PEGS CREEK SUBSTATION	BULPCK81
CBS - CLB 61	61	IPP - CAPE LAMBERT BULK SUPPLY TO CAPE LAMBERT SUBSTATION	CBSCLB61
KRT - CLB 81	81	KARRATHA TERMINAL TO CAPE LAMBERT SUBSTATION	CLBKRT81
SHT - CLB X1	X1	SOUTH HEDLAND TERMINAL TO CAPE LAMBERT SUBSTATION	CLBSHTX1
DBS - DMP 61	61	IPP - DAMPIER BULK HANDLING SUB TO DAMPIER SUBSTATION	DBSDMP61
DBS - DMP 62	62	IPP - DAMPIER BULK HANDLING SUB TO DAMPIER SUBSTATION	DBSDMP62
GW – SRY 71	71	IPP GOLDSWORTHY SUBSTATION TO IPP - STRELLEY SUBSTATION	GWSRY71
GW – WCB 71	71	IPP GOLDSWORTHY SUBSTATION TO WEST CANNING BASIN SUBSTATION	GWWCB71
HDT - SHT X1	X1	HEDLAND TERMINAL TO SOUTH HEDLAND TERMINAL	HDTSHTX1
HDT - SHT X2	X2	HEDLAND TERMINAL TO SOUTH HEDLAND TERMINAL	HDTSHTX2
HDT - SWC 71	71	HEDLAND TERMINAL TO SOUTH WEST CREEK SUBSTATION	HDTSWC71
HDT - WFD 71	71	HEDLAND TERMINAL TO WEDGEFIELD SUBSTATION	HDTWFD71
HDT - WFD 72	72	HEDLAND TERMINAL TO WEDGEFIELD SUBSTATION	HDTWFD72
KRP - SHL 31	31	IPP - KARRATHA POWER STATION TO STOVEHILL SUBSTATION	KRPSHL31



Title	Line	Description	Drawing Prefix
KRP - SHL 32	32	IPP - KARRATHA POWER STATION TO STOVEHILL SUBSTATION	KRPSHL32
KRT - BUL 81	81	KARRATHA TERMINAL TO BULGARRA SUBSTATION	KRTBUL81
KRT - DMP 81	81	KARRATHA TERMINAL TO DAMPIER SUBSTATION	KRTDMP81
KRT - KTS 81	81	KARRATHA TERMINAL TO KARRATHA TEMPORARY SUBSTATION	KRTKTS81
KRT - PCK 81	81	KARRATHA TERMINAL TO PEGS CREEK SUBSTATION	KRTPCK81
KRT - SHL 81	81	KARRATHA TERMINAL TO STOVEHILL SUBSTATION	KRTSHL81
KRT - SHL 82	82	KARRATHA TERMINAL TO STOVEHILL SUBSTATION	KRTSHL82
KTP – KTS 31	31	KARRATHA TEMPORARY POWER STATION TO KARRATHA TEMPORARY SUBSTATION	KTPKTS31
MDR - SRY 71	71	MURDOCH DRIVE SUBSTATION TO IPP - STRELLEY SUBSTATION	MDRSRY71
MDR - WFD 71	71	MURDOCH DRIVE SUBSTATION TO WEDGEFIELD SUBSTATION	MDRWFD71
MNM - WFD 71	71	MOUNT NEWMAN MINING SUBSTATION TO WEDGEFIELD SUBSTATION	MNMWFD71
SHP - SHT 31	31	IPP - SOUTH HEDLAND POWER STATION TO SOUTH HEDLAND TERMINAL	SHPSHT31
SHP - SHT 32	32	IPP - SOUTH HEDLAND POWER STATION TO SOUTH HEDLAND TERMINAL	SHPSHT32
SHP - SHT 33	33	IPP - SOUTH HEDLAND POWER STATION TO SOUTH HEDLAND TERMINAL	SHPSHT33
SHP - SHT 34	34	IPP - SOUTH HEDLAND POWER STATION TO SOUTH HEDLAND TERMINAL	SHPSHT34
SWC - WFD 71	71	SOUTH WEST CREEK SUBSTATION TO WEDGEFIELD SUBSTATION	SWCWFD71



APPENDIX H - LEGACY NUMBERING

H.1 SOUTH HEDLAND DRAWING NUMBERING SCHEME

This appendix is for reference only. South Hedland and Hedland Projects used this version of drawing numbering to conform to past practice.

Drawing numbering structure:

AAA	AA	А	XNNNN	NN
PART 1	PART 2	PART 3	PART 4	PART 5

These parts are identical to the current standard described in section 3, with the exception of part 4 of the number:

Part	Format	Description	
4	XNNNN	Determines both t document.	he use and the sequential number of the drawing or
		X (1 character)	The first number or character classifies the primary type or use of the document.
		NNNN (4 characters)	The following four numeric characters capture the orderly recording of the item for classification. This sequential number cannot start at 000, the sequential numbering must start with 001.

H.2 EXISTING DRAWING NUMBERING (INCLUDING WESTERN POWER)

This appendix is for reference only. Existing drawings across different locations use this version of drawing numbering to conform to past practice.

Drawing numbering structure:

Table 1 Drawing numbering structure

AAA	AA	А	XNNN	NN
PART 1	PART 2	PART 3	PART 4	PART 5

Explanation of Drawing Numbering Parts

Part	Format	Description
1	AAA (3 characters)	The location code of the site.
2	AA (2 characters)	Determines the primary area within the location that the drawing or document is most appropriate.



Part	Format	Description		
3	A (1 character)	Classifies the primary discipline relating to the drawing or document.		
4	XNNN	Determines both the use and the sequential number of the drawing or document.		
		X (1 character)	The first number or character classifies the primary type or use of the document.	
		NNN (3 characters)	The following three numeric characters capture the orderly recording of the item for classification. This sequential number cannot start at 000, the sequential numbering must start with 001.	
5	NN (2 characters)	Indicates the sheet number, or '01' for drawings with only one sheet.		

• MRO-CM-K-7002-01

This example indicates that the drawing is for Murchison Radio Astronomy power station (MRO), the facility is communication system (CM), the discipline is controls or SCADA (K). The sequential number starts with '7', so it is a schematic diagram. The remainder of numbers are determined by the project.

• YGA-BU-S-3003-01

This example indicates that the drawing is for Yungngora community (YGA), the facility is buildings (BU), the discipline is structural (S). The sequential number starts with '3', so it is a general arrangement drawing. The remainder of numbers are determined by the project.

PART 2: FACILITY			
AA	Facility		
		Wind Turbines	
		Solar Systems	
RG	Renewable Generation Systems	Hydro Turbines	
		Tidal Systems	
		Geothermal	
SB	Switchboards, Switching Equipment, Associated Equipment		
SE	Stored Energy System		
SI	Site Overall		
	Substations and Switchyards	Control Room Areas	
SS		Switchroom	
		Transformers	
TL	Transmission Lines	Overhead	
		Underground	
TN	Transmission Network Single Line Diagrams		
WS	Water Systems		
WW	Wastewater System		

PART 3: DISCIPLINE		
A	Discipline	
С	Civil	
D	Communications	
E	Electrical	
G	General	
н	Hazardous Areas	

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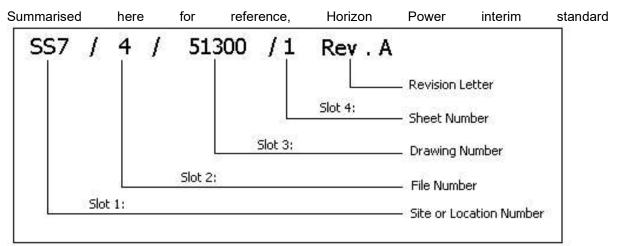
PART 4: SEQUENCE	
x	Drawing Type
1	Connectivity Diagram (Line, Process, System, Protection, etc.)
2	Fabrication / Manufacturing / Installation / Detail
3	General Arrangements (Site, Switchboard, Hazardous Areas, Equipment, Services, Environmental, Heritage, etc.)
4	Layouts (Panels, Switchboards, Building, Equipment, etc.)
5	Process Diagrams (P&ID)
6	Schedules / Lists (Materials, Equipment, Cables, Signage, etc.)
7	Schematic Diagram
8	Wiring / Termination / Connection Diagrams

PART 5:	SHEET
NN	



APPENDIX I - WESTERN POWER LEGACY DRAWING NUMBERING STANDARD

WESTERN POWER TRANSMISSION SUBSTATIONS DRAWING NUMBERING SYSTEM



Slot 1:

Location number (as per the current scheme).

Slot 2:

File numbers, which have the following designations for 6 and 132 kV:

- 1 civil drawings
- 2 structures and buildings
- 3 substation electrical arrangements and earthing drawings
- 4 relay room equipment, layouts and material lists
- 5 schematic diagrams, key diagrams
- 6 termination and wiring diagrams
- 7 fire protection and alarms
- 8 cable schedules
- 9 ePlan drawings (CAE package combing 4,5,6 and 8)

File numbers are offset for voltages other than 132 and 66 kV:

- 11 19 330 kV
- 21 29 33, 22, 11 and 6.6 kV
- 31 39 220 kV
- 10 Across all Voltages

Slot 3:

Indicates the drawing number allocated to the particular drawing within the file. Civil Defined Drawings are located in File Number 1.

Structural Defined Drawing Numbers are located in File Number 2. Primary Defined Drawing Numbers are located in File Number 3. Secondary Defined Drawing Numbers are located in File Number 4,5,6 and 8.

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Slot 4:

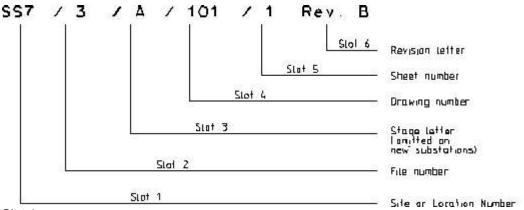
Indicates the sheet number of the drawing where the drawing consists of more than one sheet. The digit 1 is shown even if the drawing consists of only 1 sheet.

Revision letter:

All new Approved for Construction drawings are to take on an 'A' Revision for first issue, while for existing drawings the next available alphanumeric revision is to be used. Note: As per Australian Drafting standards, I and O Revisions are not permitted for use

WESTERN POWER LEGACY NUMBERING

This numbering scheme was used by Western Power prior to August 2007.



Slot 1:

Site or Location number (as per the current scheme

Slot 2:

The file number for that site

- 1 10 132kV & 66kV
- 11 20 330kV
- 21 30 33kV, 22kV, 11kV & 6.6kV

31 - 40 220kV

Within those files:

- 1) Site Plans, Foundations, Roads, Fencing and Landscaping (excluding Building Foundations).
- 2) Structures and Buildings (includes Building Foundations).
- 3) Substation Electrical Arrangement and Earthing Drawings and Details.
- 4) Relay Room Equipment, Layouts and Material Lists.
- 5) Schematic Diagrams, Key Diagrams.
- 6) Wiring Diagrams.
- 7) Supervisory and Telemetering Schematic and Wiring Diagrams (for equipment other than covered by the appropriate TTS. / drawings).
- 8) Cable Schedules.
- 9) Design and Construction Programs and Site Drawing Index Sheets.
- 10) Site Utilisation and Planning (All Voltage Levels).



Slot 3:

The stage letter for the project. This is normally A but in the case of redevelopment of an existing substation or in the case of developing a further substation of the same voltage on the same site a subsequent stage letter may be used. Note: As the stage letter is now redundant it shall be omitted for new substations.

Slot 4:

The sequential drawing number allocated to the particular drawing within the file.

Slot 5:

The sheet number of the drawing where the drawing consists of more than one sheet. The digit 1 is shown even if the drawing consists of only 1 sheet.

Slot 6:

The revision letter of the particular drawing sheet.