**Title:**

**KKS CODING AND LABELLING**

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**SEE PAGE 2 FOR CONTENTS**

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<table>
<thead>
<tr>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Purpose .............................................. 3</td>
</tr>
<tr>
<td>2. Objective ............................................. 3</td>
</tr>
<tr>
<td>3. Scope .................................................. 3</td>
</tr>
<tr>
<td>4. Abbreviations ......................................... 3</td>
</tr>
<tr>
<td>5. Definitions ............................................ 3</td>
</tr>
<tr>
<td>6. References ............................................ 3</td>
</tr>
<tr>
<td>7. Plant Identification ................................... 4</td>
</tr>
<tr>
<td>7.1 Plant Coding .......................................... 4</td>
</tr>
<tr>
<td>7.2 Coding System ........................................ 4</td>
</tr>
<tr>
<td>8. Plant Labelling ......................................... 4</td>
</tr>
<tr>
<td>8.1 Labels ................................................. 4</td>
</tr>
<tr>
<td>8.2 Label Material ......................................... 4</td>
</tr>
<tr>
<td>8.3 Ergonomic Requirements ............................... 5</td>
</tr>
<tr>
<td>8.4 Environmental Factors ................................ 5</td>
</tr>
<tr>
<td>9. Plant Labels ............................................ 6</td>
</tr>
<tr>
<td>10. Back Plates ............................................ 18</td>
</tr>
<tr>
<td>11. Cable Labels ........................................... 19</td>
</tr>
<tr>
<td>12. Cable Number Structure ............................... 19</td>
</tr>
<tr>
<td>12.1 Cable Information Capturing ......................... 20</td>
</tr>
<tr>
<td>13. Positioning of Labels on boards .................... 20</td>
</tr>
<tr>
<td>14. Plant Descriptions .................................... 21</td>
</tr>
<tr>
<td>14.1 Plant Labels Description ............................ 21</td>
</tr>
<tr>
<td>14.2 Format of Label Description ......................... 22</td>
</tr>
<tr>
<td>Annexure A ............................................... 23</td>
</tr>
<tr>
<td>Annexure B ............................................... 26</td>
</tr>
</tbody>
</table>
1 Purpose
The purpose of this procedure is to specify the detailed requirements for the Medupi Power Station Project to ensure the plant get labelled with the correct codes and equipment descriptions.

2 Objective
To ensure the standardised application of plant coding, labelling and plant descriptions are allocated to equipment for effective use in all management and information systems. Existing plant coding and labelling will be used as far as practically possible.

3 Scope
This procedure is applicable for all plant and equipment on the Medupi Power Station Project that will require plant coding and labelling.

4 Abbreviations
KKS – Kraftwerk Kennzeichen System – German abbreviation for (Power Plant Classification system)
VGB – Technische Vereinigung Der Grosskraftwerks Betreiber E.V (Major Power Plant Users Association)

5 Definitions
Description: A description given to a process, structure, point of installation, component or equipment.
Label: Identification of process, structure, point of installation, component or equipment by means of approved fixing methods, materials and ergonomic requirements.

6 References
VGB-B 106 E – KKS – Part A – Application Commentaries
VGB-B 106 B1 E – KKS – Part B1 - Identification in Mechanical Engineering
VGB-B 106 B3 E – KKS – Part B3 – Identification of Electrical and C&I Engineering
200-5343 – Medupi Power Station Project Standard Abbreviations
NMP45-7 – KKS coding
N.PSZ 45-45 – KKS Key Part – Fossil Power Station
7 Plant Identification

7.1 Plant Coding

Plant coding is the cornerstone of Configuration Management and related information systems. It is of utmost importance that a standardised application thereof is used. The structure should include all equipment that will have a maintenance strategy and will assist in operating and maintenance activities.

7.2 Coding System

The KKS plant coding system has been adopted by Eskom and all Power Stations. The coding system has been developed by the VGB with a set of guidelines. Refer to the references for a detailed explanation on the application of KKS (C&I, Electrical, Mechanical & Civil).

8. Plant Labelling

Plant labelling is the physical label that is fixed to the plant. The purpose of plant label is to unambiguously distinguish between plant items and to ensure that a one to one correlation exist between the identification of the item on the plant and the identification of the item in the information systems and related documentation. The manufacturing of the label will be from an approved equipment / label list.

8.1 Labels

Because of the diversity of a plant that has to be labelled one cannot standardise on the material, size and type of label. This standard will therefore distinguish between the different plant areas and types of labels to be used. Spacing in the KKS number will be used when labels are manufactured.

8.2 Label Material

The following material will be used for the different plant areas. (Refer to table: 1)

<table>
<thead>
<tr>
<th>PLANT AREA</th>
<th>LABEL MATERIAL TYPE</th>
<th>BACK PLATE MATERIAL TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiler</td>
<td>Anodised Aluminium</td>
<td>Anodised Aluminium</td>
</tr>
<tr>
<td>Turbine</td>
<td>Anodised Aluminium</td>
<td>Anodised Aluminium</td>
</tr>
<tr>
<td>Ash Plant</td>
<td>Anodised Aluminium</td>
<td>Anodised Aluminium</td>
</tr>
<tr>
<td>Coal Plant</td>
<td>Anodised Aluminium</td>
<td>Anodised Aluminium</td>
</tr>
<tr>
<td>Water Treatment Plant</td>
<td>Stainless Steel</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>BOP and LP Services</td>
<td>Anodised Aluminium</td>
<td>Anodised Aluminium</td>
</tr>
<tr>
<td>Switchgear and Panels</td>
<td>White Graflux</td>
<td>N/A</td>
</tr>
<tr>
<td>Internal panels/cubicles</td>
<td>Colour coded plastic</td>
<td>N/A</td>
</tr>
</tbody>
</table>
### MEDUPI POWER STATION
#### KKS CODING AND LABELLING

<table>
<thead>
<tr>
<th>Transformers and structures</th>
<th>Cromadeck</th>
<th>Pre manufactured stand or wall mounted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Room Identification</td>
<td>Cromadeck (orange background with black text)</td>
<td></td>
</tr>
</tbody>
</table>

#### 8.3 Ergonomic Requirements
- Consistency will be maintained when fitting new labels regarding material, labels will be fitted in such a manner not to hamper routine operation and maintenance activities.
- Labels should be fitted in a position where they can be easily seen without compromising identity of exact equipment.
- Labels will not be attached to removable equipment (i.e. lagging) but will be attached to non-removable structures, without compromising identity and operation of the exact equipment.
- Labels will be mounted so that the text runs in a horizontal plane reading from left to right to the nearest fixed point that is being described.
- For labels that have to be mounted vertically due to space constraints, the method of text reading will be from bottom to top. This excludes cable labels.
- Label fixing devices e.g. rivets, self-tappers, adhesives, ext. will not penetrate the equipment housing or constitute a potential source of corrosion. All labels must be securely fitted to the plant.
- Labels or back plates/brackets will not have sharp edges or protrude in such a way as to pose a safety risk.
- Valve labels will not be installed on hand wheels and labels will not cover equipment specification plates.

#### 8.4 Environmental factors
- All labels will be able to withstand the following for at least 30 years:
  - Rain
  - Hail
  - Temperature variance as required by plant
  - Wind and Dust erosion
  - Ultra Violet rays (sun)
  - Corrosion
9 Plant Labels
Label Type GA
Mechanical Plant System Identification Label

Material: Refer to Table: 1
1.5mm Thick
Fixing Holes: 4x4mm Dia. (To be drilled only when fitted with a back plate)
7.5mm from Sides
Engraving
- Characters Fill In Colour: Black
- Alphanumeric Characters: 7mm High, Font - Arial
- Description Characters: 5mm High, Font - Arial
- Standard vertical characters must be used. Narrow (condensed), broad (extended) characters are not acceptable.
- Maximum description length: 30 Characters per line

Label Type GB
Mechanical Plant Component Identification Label

Material: Refer to Table: 1 (1.5mm Thick Corner radius: 4mm)
Fixing Holes: 2 X 4mm Dia. (To be drilled only when fitted with a back plate)
On centre line 7.5mm from Sides

Engraving:
- Characters Fill In Colour: Black, font - Arial
- Alphanumeric Characters: 7mm High, font - Arial
- Standard vertical characters must be used. Narrow (condensed), broad (extended) characters are not acceptable.

**Label Type GC**

Mechanical Plant Component Identification Label

```
0 0GKB12 AA501
POTABLE WATER
BY-PASS PUMP
ISOLATING VALVE
```

Material: Refer to Table: 1 (1.5mm Thick Corner radius: 4mm)

Fixing Holes: 4 X 4mm Dia. (To be drilled only when fitted with a back plate)
7,5mm from Sides

Engraving:
- Characters Fill In Color : Black
- Alphanumeric Characters: 7mm High, font - Arial
- Description Characters: 5mm High, font - Arial
- Standard vertical characters will be used. Narrow (condensed), broad (extended) characters are not acceptable.
- Maximum description length: 16 Characters per line
Label Type GD

Process code labels for process control equipment on local control panels, mimics and control panels.

Material: Refer to Table: 1 (1.5mm Thick Corner radius: 4mm)
Fixing Holes: 4 X 4mm Dia. (To be drilled only when fitted with a back plate)
7.5mm from Sides
Engraving:
- Characters Fill In Colour: Black
- Alphanumeric Characters: 7mm High, font - Arial
- Description Characters: 5mm High, font - Arial
- Standard vertical characters will be used. Narrow (condensed), broad (extended) characters are not acceptable.
- Maximum description length: 20 Characters per line

Label Type GE

Field device label for process control equipment / room identification

Material: Refer to Table: 1 (1.5mm Thick Corner radius: 4mm)
Thickness: 1.5mm Thick
Engraving
- Alphanumeric Characters: 4mm High. Font - Arial
- Standard vertical characters must be used. Narrow (condensed), broad (extended) characters are not acceptable.

**Label Type GF**

Identification Label inside Process Control and Electrical Equipment

<table>
<thead>
<tr>
<th>20</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>- K01</td>
</tr>
</tbody>
</table>

Material: Refer to Table: 1 (1.5mm Thick Corner radius: 4mm)

Engraving:
- Alphanumeric Characters: 3mm High, font - Arial, Colour: black
- Standard vertical characters must be used. Narrow (condensed), broad (extended) characters are not acceptable. Horizontal lines will be evenly spaced amongst the height of the label

**Label Type GG**

Point of installation code labels for:
- Process control equipment
- Local Control Stations
- Marshalling Boxes, Junction Boxes, etc.

<table>
<thead>
<tr>
<th>140</th>
<th>25</th>
</tr>
</thead>
</table>

+0 0EYC50 GA001

Material: Refer to Table: 1 (1.5mm Thick Corner radius: 4mm)

Engraving:
- Characters Fill In Colour : Black
- Alphanumeric Characters: 10mm High, font - Arial
- Standard vertical characters will be used. Narrow (condensed), broad (extended) characters are not acceptable.
Label Type GH

Point of Installation Code Labels for Process Control and Electrical Equipment PLC's Measurement Panels, Protection Panels Measurement Racks, Local Alarm Panels, etc.,

+0 0EYD12
OVERLAND ASH CONVEYOR
EQUIPMENT CUBICLE

Material: Refer to Table: 1 (1.5mm Thick Corner radius: 4mm)
Engraving:
- Characters Fill In Colour: Black
- Alphanumeric Characters: 10mm High, font: Arial
- Description Characters: 5mm High, font: Arial
- Standard vertical characters will be used. Narrow (condensed), broad (extended) characters are not acceptable
- Maximum description length: 25 Characters per line

Label Type GI

Point of Installation Code Label for Process Control Panels and Equipment

+0 0EYD15 GK002

- Material: Refer to Table: 1 (Thickness: 1.5mm Thick)
- Engraving
- Alphanumeric Characters: 10mm High, font: Arial
• Standard vertical characters must be used. Narrow (condensed), broad (extended) characters are not acceptable. Left and Right Margins to be set at 10mm. Horizontal lines will be evenly spaced amongst the height of the label.

**Label Type EA**
Board Main Label

![Label Diagram]

- **Material:** Refer to Table: 1 (1.5mm Thick Corner radius: 4mm)
- **Fixing Holes:** Aluminium sliding holder, no drilling into electrical or process control panels
- **Engraving:**
  - Characters Fill In Colour: Black
  - Alphanumeric Characters: 20mm High, font - Arial
  - Description Characters: 15mm High, font - Arial
  - Standard vertical characters will be used. Narrow (condensed), broad (extended) characters are not acceptable. Maximum description length is 26 characters.

**Label Type EB**
Electrical board sub section

![Label Diagram]

- **Material:** Refer to Table: 1 (1.5mm Thick Corner radius: 4mm)
- **Fixing Holes:** Aluminium sliding holder, no drilling into electrical or process control panels
Engraving:
- Characters Fill In Colour: Black
- Alphanumeric Characters: 20mm High, font - Arial
- Standard vertical characters will be used. Narrow (condensed), broad (extended) characters are not acceptable.
- Maximum description length is 26 characters.

Label Type EC
Isolator Labels

Material: Refer to Table: 1 (1.5mm Thick Corner radius: 4mm)
Fixing Holes: Aluminium sliding holder, no drilling into electrical or process control panels
Engraving:
- Characters Fill In Colour: Black
- Alphanumeric Characters: 10mm High, font - Arial
- Description Characters: 10mm High, font - Arial
- Standard vertical characters will be used. Narrow (condensed), broad (extended) characters are not acceptable.
- Maximum description length is 17 characters.

Label Type ED
Cubicle Identification Labels
Material: Refer to Table: 1 (1.5mm Thick Corner radius: 4mm)
Fixing: Aluminium sliding holder, no drilling into electrical or process control panels

Engraving:
- Characters Fill In Colour: Black
- Alphanumeric Characters: 20mm High, font – Arial
- Numeric Characters: 20mm High, font – Arial
- Standard vertical characters must be used. Narrow (condensed), broad (extended) characters are not acceptable

Label Type EE
Terminal Label with Tier Co-ordinate

![Diagram of Label EE]

Material: Refer to Table: 1 (1.5mm Thick Corner radius: 4mm)
Fixing Holes: Aluminium sliding holder, no drilling into electrical or process control panels

Engraving:
- Characters Fill In Colour: Black
- Alphanumeric Characters: 3mm High, font – Arial
- Description Characters: 3mm High, font – Arial
- Standard vertical characters must be used. Narrow (condensed), broad (extended) characters are not acceptable.
- Maximum description length: 25 Characters per line

Label Type EF
Lighting Distribution Board Label

![Diagram of Label EF]

Material: Refer to Table: 1 (1.5mm Thick Corner radius: 4mm)
Fixing Holes: Adhesive

Engraving:
- Characters Fill In Colour: Black
- Alphanumeric Characters: 10mm High, font - Arial
- Description Characters: 10mm High, font - Arial
- Standard vertical characters must be used. Narrow (condensed), broad (extended) characters are not acceptable
- Maximum characters 27 per line

Label Type EG
Distribution Boards Information Labels

![Label Diagram]

Material: Refer to Table: 1 (1.5mm Thick Corner radius: 4mm)
Fixing Holes: Adhesive
Engraving:
- Characters Fill In Colour: Black
- Alphanumeric Characters: 4mm High, font - Arial
- Description Characters: 3mm High, font - Arial
- Standard vertical characters must be used. Narrow (condensed), broad (extended) characters are not acceptable.
- Maximum description length: 14 Characters per line
Label Type EH

Junction Box Label

```
4 0MKG29 GA001
TURB HOUSE JB ANALOGUE
```

Material: Refer to Table: 1 (1.5mm Thick Corner radius: 4mm)
Fixing Holes: Adhesive
Engraving:
- Characters Fill In Colour : Black
- Alphanumeric Characters: 10mm High, font - Arial
- Description Characters: 10mm High, font – Arial
- Standard vertical characters must be used. Narrow (condensed), broad (extended) characters are not acceptable.
- Maximum description length: 13 Characters per line

Label Type EI

MCB Label

```
<table>
<thead>
<tr>
<th>AA001</th>
</tr>
</thead>
<tbody>
<tr>
<td>=1 0HFC30 AP001 -M01</td>
</tr>
<tr>
<td>UNIT 1 MILL C LUBE OIL</td>
</tr>
<tr>
<td>PUMP MOTOR</td>
</tr>
<tr>
<td>AA002</td>
</tr>
<tr>
<td>=1 0HFC20 AP001 -M01</td>
</tr>
<tr>
<td>UNIT 1 MILL D LUBE OIL</td>
</tr>
<tr>
<td>PUMP MOTOR</td>
</tr>
</tbody>
</table>
```

Material: Refer to Table: 1 (1.5mm Thick Corner radius: 4mm)
Fixing Holes: Adhesive / Sliding holder
Engraving:
- Characters Fill In Colour : Black
- Alphanumeric Characters: 4mm High, font - Arial
- Description Characters: 3mm High, font – Arial
MEDUPI POWER STATION  
KKS CODING AND LABELLING

- Standard vertical characters must be used. Narrow (condensed), broad (extended) characters are not acceptable.

Label Type EJ

MCB Labels

Material: Refer to Table: 1 (1.5mm Thick Corner radius: 4mm)  
Fixing Holes: Adhesive  
Engraving:
- Characters Fill In Colour : Black  
- Alphanumeric Characters: 3mm High, font - Arial

Label Type EK  
Terminal Label

Label Type EL  
Electrical Component Label

Material: Refer to Table: 1 (1.5mm Thick Corner radius: 4mm)  
Fixing Holes: Adhesive  
Engraving:
- Characters Fill In Colour : Black  
- Alphanumeric Characters: 3mm High, font – Arial  
- Standard vertical characters must be used. Narrow (condensed), broad (extended) characters are not acceptable.
Label Type EM

Transformer, Structure and Building Identification Label

Material: Refer to Table: 1 (1.5mm Thick Corner radius: 4mm)
Fixing Holes: 4 X 10mm Dia. 7.5mm from sides

Engraving:
- Characters Fill In Colour: Black
- Background: bright orange
- Alphanumeric Characters: 60mm High, font - Arial
- Description Characters: 40mm High, font - Arial
- Standard vertical characters must be used. Narrow (condensed), broad (extended) characters are not acceptable.
- Maximum characters 37
10 Back Plates

Examples of back plates, this design will be used for labels requiring a back plate.

Back Plate Type BB

Back plate Type BC
11 Cable Labels

Internal Cables

Label Type EN

10BFA1008 BBCC

All internal cables to be labeled with standard PVC K Type flexible cable markers on 10 digit carrier strips and attached on both ends with suitable cable ties (T18R or T30R, depending on cable thickness)

External Cables

Label Type EP

10BFA1008 BBCC

Label size: 10x90mm
Alphanumeric Characters: 5mm
Material: Stainless steel
Thickness: 0.6mm
Fixing Holes: 2 holes, size 4mm diameter
All cables must be labeled on both sides of wall and cabinet penetrations.

12 Cable number structure

A cable number comprises of 3 distinct portions which form its unique identification code in accordance with the KKS coding manual.
A typical cable number 1 1BCA 0076 is broken down as follows:

1 2 3

1. This number discerns between units 1 to 6 (1-6) and station or common plant with the digit 0, in the example unit 1.
2. This portion identifies the origin or source, from which the cable is laid, in this case 6.6 kV board A.
3. These 4 numerals represent the consecutive cable number depending on the voltage level for grouping purposes within the cable number. Grouping of cable numbers are recommended in order to keep agreements on the allocation of cable numbers during planning to a minimum and to prevent multiple allocations of cable numbers. The first digit of the four numeric data characters serve to identify the application area, the three other numeric data characters to number cables within that area.
0001 -0999 = Power Cables > 1 kV
1001 -1999 = Power Cables < or = 1 kV
2001 -3999 = Control Cables> 60V
3001 -3999 = Control and Instrumentation cables> 60V
4001 -7000 = Control Cables < or = 60V
8001 -9999 = Control and Instrumentation Cables < or = 60V

Computer cables, i.e. optic fibre, will fall in the "8" series.
12.1 Cable Information Capturing

The following table represents the fields within the Cable Database and needs to be captured with each newly allocated or revised cable number.

<table>
<thead>
<tr>
<th>REF</th>
<th>FIELD DESCRIPTION</th>
<th>WHERE TO FIND THE INFORMATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Drawing Number</td>
<td>Cable detail schedule</td>
</tr>
<tr>
<td>2</td>
<td>Drawing Revision Number</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Cable Number</td>
<td>Refer to cable number section</td>
</tr>
<tr>
<td>4</td>
<td>Cable Type</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>KKS Code From</td>
<td>Plant KKS</td>
</tr>
<tr>
<td>6</td>
<td>KKS Code to</td>
<td>Plant KKS</td>
</tr>
<tr>
<td>7</td>
<td>Contractor Identification</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Description</td>
<td>Plant description</td>
</tr>
<tr>
<td>9</td>
<td>Remarks</td>
<td>Any additional information</td>
</tr>
</tbody>
</table>

13 Positioning of Labels on Boards

Each cubicle consists of a combination of the board, panel and tier co-ordinate to form the KKS code.

![Diagram showing positioning of labels on boards]

KKS Codes shown in the diagram above:

Board + 6 0BFB

<table>
<thead>
<tr>
<th>Panel 01</th>
<th>Panel 02</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 0BF01AA001</td>
<td>6 0BF02AA001</td>
</tr>
<tr>
<td>6 0BF01AA002</td>
<td>6 0BF02AA002</td>
</tr>
<tr>
<td>6 0BF01BA001</td>
<td>6 0BF02BA001</td>
</tr>
<tr>
<td>6 0BF01BA002</td>
<td>6 0BF02BA002</td>
</tr>
</tbody>
</table>

Positioning of the labels should be as follows and should be fixed as shown in the diagram.

- The board is identified by the ‘+’ sign in front of the code. This label should be positioned in the middle on top of the board.
- The panel number should be in the centre middle of the panel without the ‘+’ sign.
- The tier co-ordinate (cubicle) should have its identification on the top left hand corner of door, e.g. AA001 BA001 etc.
- The complete 'installation' and 'process' code should be fixed to the right hand bottom
corner of the cubicle door. This must be consistent for all boards, panels and cubicles.
If one panel feeds to a transformer the process code will be that of the transformer but if it enters the next (lower voltage) board the transformer code will have to be descriptive as label type EG in the procedure.

14 Plant Descriptions

Although the plant code is sufficient to uniquely identify the plant, the need still exists to describe the plant with a plant functional description. This is especially required when lists of KKS codes are reviewed. The KKS code does not clearly differentiate between e.g. left hand and right hand or between pump inlet and outlet. These problems could be overcome by forcing the users to always refer to the P&ID.

The allocation of item descriptions is useless if it does not clearly describe the function of the item.

On Project Medupi there are a number of applications where plant descriptions are used e.g. plant labels, information systems etc. and the need therefore exists to standardise on the application thereof. This procedure deals with the allocation of descriptions in the two main areas being plant labels and information systems.

14.1 Plant Label Description

The need exists to structure the description in such a way that the most meaningful description can be obtained from the minimum number of characters.

- Descriptions on plant labels shall be in English
- The description shall clearly describe the function of the item
- Descriptions shall be as short as possible without compromising on description accuracy
- All abbreviations used in descriptions shall be in accordance with the Medupi Power Station Project Standard Abbreviations (200-5343)
- All descriptions must adhere to all requirements stipulated in the KKS coding standard (NMP 45-7)
- All plant shall be coded as specified in NMP 45-7.
- Descriptions shall follow the format as in section 14.2 in conjunction with the equipment list template attached.
- Descriptions will only be used once reviewed and approved by Configuration Management on an equipment list.
- Descriptions must be in form of the template 200-77994
- All descriptions shall be in capital letters
14.2 Format of label descriptions

The format of the description shall follow the format of the KKS code. It is implicit that the descriptions must always be unique and is compiled as follows:

<table>
<thead>
<tr>
<th>UNIT</th>
<th>SYSTEM</th>
<th>EQUIPMENT FUNCTION</th>
<th>COMPONENT TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>THE DESCRIPTION AS FOLLOWS:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UNIT 6</td>
<td>BOILER ASH REMOVAL</td>
<td>SLUICE PUMP AND HOPPER SEALING PUMP 1</td>
<td>MOTOR</td>
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Example for common plant:

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<th>SYSTEM</th>
<th>EQUIPMENT FUNCTION</th>
<th>COMPONENT TYPE</th>
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<td>-</td>
<td>POTABLE HEADER TANK</td>
<td>LOCAL CONTROL PANAL</td>
<td>ALARM UNIT</td>
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ANNEXURE A
MV, LV, & DC SWITCHGEAR LABEL POSITIONS

Note: Label panels as per example
Label type EJ (To be used with label type EE)

| BA | 001 | 002 | 003 | 004 | 005 | 006 | 007 | 008 | 009 | 010 | 011 | 012 | 013 | 014 | 015 |

MINIATURE CIRCUIT BREAKERS
Use label type EE for MCB process identification, applied with label type EJ

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