

**FHA ELECTRICAL LABELLING SCHEMA**

| Description                   | Code | Example Value  |
|-------------------------------|------|--|
| Power Type                    | AAAA | e.g. 0833, 1061, etc.  |
| Floor Code                    | BB   | e.g. 01 or 05ML, etc. (refer to Floor Codes)                         |
| Power Type                    | C    | e.g. V=Vital, C=Conditional,d=Delayed Vital, etc. (refer to Table 1) |
| Voltage                       | D    | e.g. 2=120/208 Volts, 6= 600V, etc. (refer to Table 2)               |
| Equipment Type                | EE   | e.g. DP=Distribution Panel (refer to Table 3)                        |
| Equip Type Consecutive Number | FF   | e.g. 01=Distribution Panel #01, 02=Transformer #2                    |
| Receptacle #                  | GG   | e.g. 24=Receptacle #24   |

**PANELBOARDS (120/208V) and MEDIUM CIRCUIT BREAKERS (600V)**

**Example #1 - Panelboard (P)**

**Definition:** A "Panelboard" is defined as less than or equal to 600 Amps with small or medium circuit breakers typically feeding lights and receptacles.

**Equipment:** 120/208V Vital Panelboard #1 in bldg "0834", 3rd floor, feeding 3rd floor lights/recept., fed from 120/208V Distribution Panel #1 1st flr, bldg "0833"

**Long form:** AAAA-BB-CEFF → **0834-03-VP01**

**Short Form:** C-EFF → **V-P01**

**Note:** For panelboards, drop Voltage code, bldg/floor codes and shorten the label name.

(e.g. VPO1). All panelboards are assumed to be 120/208V unless otherwise labelled. The first line refers to the location of the asset being labelled. Subsequent lines are in reference to this location. If a Feed From (FF)/Feed To (FT) asset is located in a different location, use the long format in the label (e.g.0833-01-V-2DP01)

**Example #2 - Receptacle (#24)**

**Equipment:** Receptacle fed from CIRCUIT 24 of the above Panelboard #1

**Short Form:** CEFF-GG → **VP01-24**

**Notes:** For receptacles, use the panelboard name and add the receptacles # on the end with a dash (e.g.-01,-02, etc.) Drop the building/floor codes in receptacle label as this is already referenced in the Panelboard's label.

**Panelboard Label:**

|                            |
|----------------------------|
| <b>0834-03</b>             |
| <b>V-P01</b>               |
| <b>FF: 0833-01-V-2DP01</b> |
| <b>FT: LTS/RCPTS</b>       |

**Receptacle Label:**

|                 |
|-----------------|
| <b>V-P01-24</b> |
|-----------------|

**MAIN SWITCHBOARDS, MCC's, DISTRIBUTION PANELS and SPLITTERS**

**Example #1 - Vital Distribution Panel (DP)**

**Definition:** A "Distribution Panel" is typically greater than 600 Amps with large circuit breakers or fuses. This panel feeds to other panelboards, transformers, or equipment (i.e. x-ray).

**Equipment:** 600V Vital Distribution Panel #4 in bldg "0833", 1st floor, fed from ("FF") Vital Distribution Panel #1 circuit breaker #02 basement, same bldg.

**Long form:** AAAA-BB-C-DEEFF → **0833-01-V-6DP04**

**Short Form:** C-DEEFF → **V-6DP04**

**Example #2 - Delayed Vital Splitter (SP)**

**Definition:** A "splitter" is an electrical component that splits current to two or more circuits.

**Equipment:** 480V Delayed Vital Splitter feeding equipment on 1st floor, bldg "1234" fed from ("FF") 600V Delayed Vital Panel #2 on same flr, same bldg (D-6DP02).

**Long form:** AAAA-BB-C-DEEFF → **1234-01-D-4SP01**

**Short Form:** C-DEEFF → **D-4SP01**

**Example #3 - Vital Drawout Switchboard (SWB)**

**Definition:** A "Switchboard" is a panel containing switches or other electrical means of completing a circuit or exchange of circuits. Primarily used for telephone exchange.

**Equipment:** 600V Vital Drawout Switchboard #1 on 1st floor, bldg "1234" fed from (FF) 600V Vital Panel #1 on 1st flr of bldg "0834".

**Long form:** AAAA-BB-C-DEEFF → **1234-01-V-6SWB01**

**Short Form:** BB-C-DEEFF → **V-6SWB01**

**Distribution Panel Label:**

|                          |
|--------------------------|
| <b>0833-01</b>           |
| <b>V-6DP04</b>           |
| <b>FF: BT-V-6DP01-02</b> |

**Splitter Label:**

|                    |
|--------------------|
| <b>1234-01</b>     |
| <b>D-4SP01</b>     |
| <b>FF: D-6DP02</b> |

**Switchboard Label:**

|                            |
|----------------------------|
| <b>1234-01</b>             |
| <b>V-6SWB01</b>            |
| <b>FF: 0834-01-V-6DP01</b> |

**FHA ELECTRICAL LABELLING SCHEMA**

| MAIN SWITCHBOARDS, MCC's, DISTRIBUTION PANELS and SPLITTERS CONT'D |  |                                  |
|--|--|----------------------------------|
| <b>Example #4 - Delayed Vital Motor Control Centre (MCC)</b>       |  |                                  |
| <b>Definition:</b>   | A "Motor Control Centre" is group of combination starters in one unit. Combination starters are defined as single enclosures containing the motor starter, fuses or circuit breaker, and a device for disconnecting power. |                                  |
| <b>Equipment:</b>  | 600V Delayed Vital MCC #1 on 5th floor, bldg "1234" fed from (FF) 600V Delayed Vital Distribution Panel #2 located on 1st flr of bldg "0834", and feeding to (FT) Delayed Vital Panelboard #2 on 6th floor of bldg "1234". |                                  |
| <b>Long form:</b>  | AAAA-BB-C-DEEFF  | → 1234-05-D-6MCC01               |
| <b>Short Form:</b>   | C-DEEFF  | → D-6MCC01                       |
|  |  | <b>Motor Control Ctr. Label:</b> |
|  |  | 1234-05                          |
|  |  | D-6MCC01                         |
|  |  | FF: 0834-01-D-6DP02              |
|  |  | FT: 06-D-6P02                    |

| TRANSFORMERS AND TRANSFER SWITCHES                        |   |                               |
|---|---|-------------------------------|
| <b>Example #1 - Vital Transformer (T)</b>                 |   |                               |
| <b>Definition:</b>  | A "Transformer" is an electrical device that transforms energy from one circuit to another, without changing frequency. Transformers can increase or decrease voltage.  |                               |
| <b>Equipment:</b>   | 600V Vital Transformer #4 in building "1234", 1st floor, fed from (FF) Distribution Panel #1 Drawout Breaker Switch #2, basement, same bldg, feeding to (FT) 120/208V Vital Panelboard #4, in bldg "0833", 5th floor. |                               |
| <b>Long form:</b>   | AAAA-BB-C-DEEFF   | → 1234-01-V-6T04              |
| <b>Short Form:</b>  | C-DEFF  | → V-6T01                      |
|   |   | <b>Transformer Label:</b>     |
|   |   | 1234-01                       |
|   |   | V-6T04                        |
|   |   | FF: BT-V-6DP01-02             |
|   |   | FT: 0833-05-V-P04             |
| <b>Example #2 - Vital Automatic Transfer Switch (ATS)</b> |   |                               |
| <b>Definition:</b>  | A "transfer switch" is an electrical device that switches load between two sources. The transfer switch can be either automatic (ATS) or manual (MTS).  |                               |
| <b>Equipment:</b>   | 600V Vital Automatic Transfer Switch #1 fed from 600V Distribution Panel #1 feeding 600V Vital Switchboard #1 located in the same building & floor.   |                               |
| <b>Long form:</b>   | AAAA-BB-C-DEEFF   | → 1234-01-V-6ATS01            |
| <b>Short Form:</b>  | BB-C-DEEFF  | → V-6ATS01                    |
|   |   | <b>Automatic Transfer SW:</b> |
|   |   | 1234-01                       |
|   |   | V-6ATS01-CB03                 |
|   |   | FF: V-6DP01-03                |
|   |   | FT: V-6SWB01                  |

| LABEL FORMATS  |   |                     |
|--|---|---------------------|
| Use FHA approved materials and follow the FHA colour/size codes for labelling electrical assets. |   |                     |
| <b>1st line:</b>   | Building-floor code denotes location of equipment being labelled (7 mm) | 0833-01             |
| <b>2nd line:</b>   | Electrical ID of the equipment being labelled e.g. /v-6T04 (11 mm high) | V-6T04              |
| <b>3rd line:</b>   | Electrical ID of "FEED FROM" (FF) equipment, e.g. BT-V-6DP01 (7 mm)     | FF: BT-V-6DP01-01   |
| <b>4th line:</b>   | Electrical ID of "FEED TO" (FT) equipment, i.e. 01-V-6PDC01 (7 mm)      | FT: 0834-01-V-2DP04 |

**F. FHA ELECTRICAL LABEL CODE TABLES**

Refer to the following tables when labelling Fraser Health Electrical Assets and their components.

**TABLE 1 - Power Type Codes & Label Colours**

| Code | Power Source                  |
|------|-------------------------------|
| G    | Generator                     |
| V    | Vital                         |
| D    | Delayed Vital                 |
| C    | Conditional (or Standby)      |
| N    | Normal                        |
| X    | Discretionary (Non-essential) |
| U    | Uninterruptible Power         |

| Label Colour | Label Text Colour |
|--------------|-------------------|
| RED          | White             |
| RED          | White             |
| BLUE         | White             |
| YELLOW       | Black             |
| BLACK        | White             |
| ORANGE       | Black             |
| GREY         | Black             |

**TABLE 3 - Equipment Type Codes**

| Code | Equipment Type                   |
|------|----------------------------------|
| ATS  | Automatic Transfer Switch        |
| CB   | Circuit Breaker                  |
| CAP  | Capacitor                        |
| DS   | Disconnect Switch                |
| DP   | Distribution Panel               |
| GFI  | Ground Fault Circuit Interrupter |
| MCC  | Motor Control Centre             |
| MSW  | Motor Starter Switch             |
| MTS  | Manual Transfer Switch           |

**TABLE 2 - Voltage Codes**

| Code | Voltage         |
|------|-----------------|
| 2    | 120/208 Volts   |
| 4    | 4=480/277 Volts |
| 6    | 600 Volts       |
| 4.1  | 4.1 KV          |
| 12   | 12 KV           |
| 25   | 25 KV           |
| 75   | 75 KV           |

**FHA ELECTRICAL LABELLING SCHEMA**

|            |                              |
|------------|------------------------------|
| <b>P</b>   | Panelboard                   |
| <b>PDC</b> | Power Distribution Center    |
| <b>SSW</b> | Safety Switch                |
| <b>SP</b>  | Splitter                     |
| <b>SPB</b> | Splitter Box                 |
| <b>STR</b> | Starter                      |
| <b>S</b>   | Switch                       |
| <b>SWG</b> | Switchgear                   |
| <b>TSW</b> | Transfer Switch              |
| <b>T</b>   | Transformer                  |
| <b>UPS</b> | Uninterruptible Power Supply |