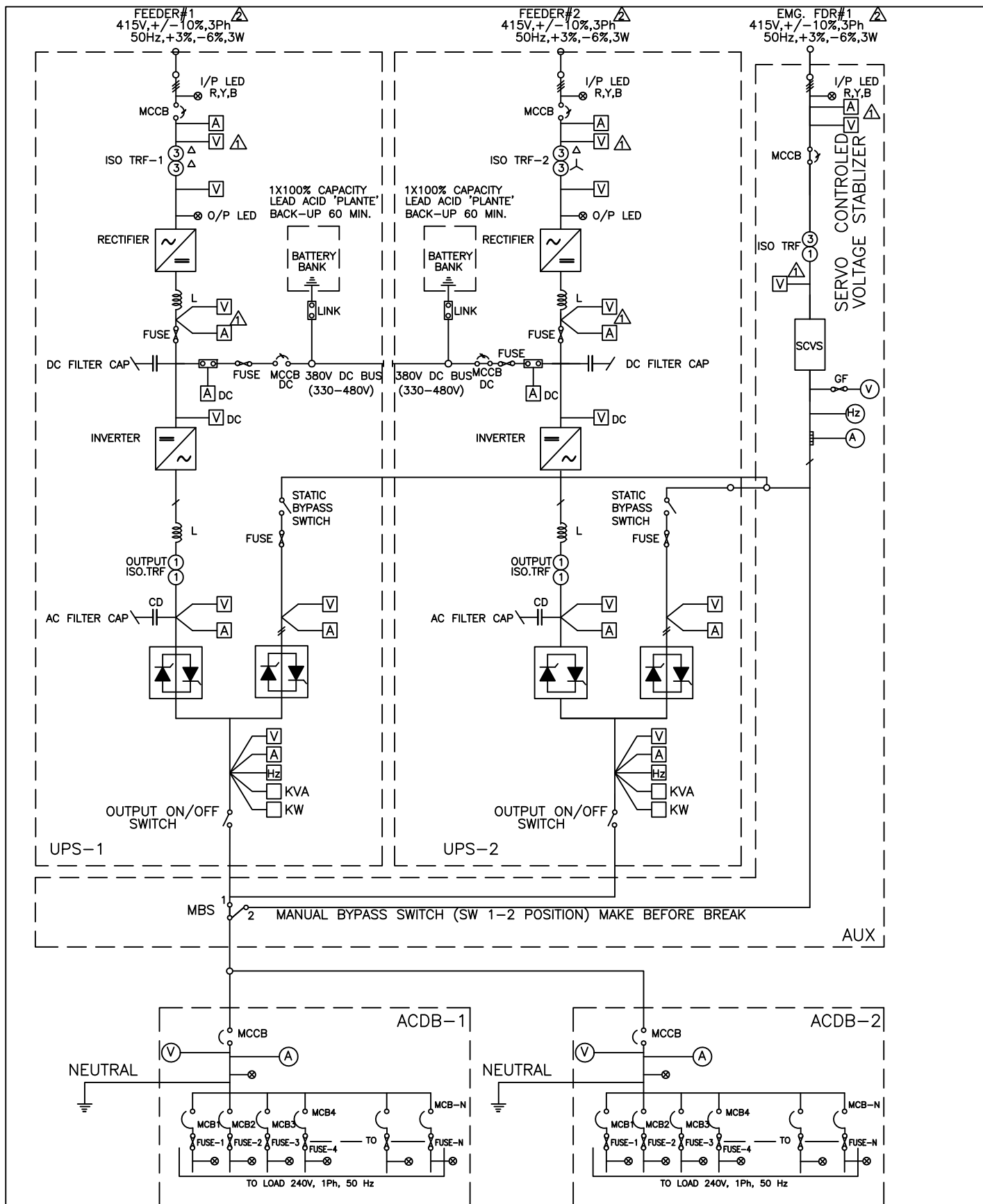




4 X 270 MW BHADRADRI TPS

TITLE:-

UPS SINGLE LINE DIAGRAM  
CW & RW CHLORINATION

DRG.  
No.

PE-DG-411-145-I004

REV.  
No.

02

DATE

03.07.2015

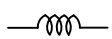
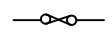
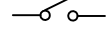
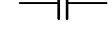
SHEET

2 OF 3

NOTES:

1. ACDB-1&2 NEUTRAL TO BE GROUNDED TO A DEDICATED GROUND.
2. ALL OUTPUT FEEDERS OF ACDB SHALL BE PROVIDED WITH AN LED AFTER THE FUSE FOR FEEDER ON INDICATION WITH FEEDER DESCRIPTION.
3. REDUNDANT FEEDERS SHALL BE LOCATED IN DIFFERENT ACDBs.
4. SINCE, THIS DIAGRAM IS AN SLD FOR UPS, DETAILS REGARDING SIZING HAVE NOT BEEN SHOWN. BHEL-EDN SHALL DO THE SIZING AND PREPARE TECHNICAL SPECIFICATION FOR PROCURING THE UPS.
5. THIS IS LIST OF ESSENTIAL SIGNALS EXCHANGE BETWEEN UPS AND PLC THAT MAY BE EITHER THROUGH  
  1. HARDWIRE OR THROUGH SOFT LINK.
    - a. Main I/P 1, 2 alternate I/P voltage, currents.
    - b. After line transformer -1&2 voltages
    - c. DC O/P VOLTAGE, current and battery charging , discharging currents,
    - d. Inverter o/p voltage, current.
    - e. Static switch main I/P, alternate i/p voltage.
    - f. SCVS O/P VOLTAGE, CURRENT, HZ
    - g. UPS-1 & 2-KVA, KW o/ps
    - h. ACDB -1&2 VOLTAGE, CURRENT
    - i. UPS-1,2-POWER FACTOR
6. ALL FANS USED SHALL BE INDUSTRIAL GRADED AND COOLING FAN FAILURE INDICATION WILL BE INDICATED  
  2. IN DCS THROUGH PFC.
7. MAXIMUM TRANSFER TIME OF STATIC SWITCH SHALL BE 1/4 OF CYCLE TIME.
  - 2.
8. UPS SHALL BE EQUIPPED WITH SURGE PROTECTION DEVICES.
  - 2.
9. ACDB SHALL BE NON-COMPARTMENTAL TYPE.
  - 2.
10. FUSES IN ACDB SHALL BE HRC FUSES.
  - 2.

LEGEND:

|                                                                                     |                      |
|-------------------------------------------------------------------------------------|----------------------|
|  | INDUCTOR             |
|  | FUSE                 |
|  | MCCB                 |
|  | SELECTOR SWITCH      |
|  | ISO.TRF              |
|  | CAPACITOR            |
|  | INVERTER             |
|  | STATIC BYPASS SWITCH |



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