

4.4 Panel Layouts

These drawings shall show the inside and outside layout (to scale) of panels with instruments in outline dimensions, the indication of the tag numbers for each instrument, the numbering and main dimensions of panel sections and complete panel.

The same requirements apply for the drawings of any auxiliary panel.

4.5 Technical Submittals and Filled-in Data Sheets

Technical Submittals shall be prepared for all components of instrumentation systems. Separate data sheets shall be filled-in for different type of instrument. All relevant process, construction and engineering data materials shall be incorporated on these data sheets.

The technical submittals shall be provided with an index. The CONTRACTOR shall issue documentation of the selected equipment with the respective specifications to the ADWEA/ENGINEER in the approval stage in accordance with the requirements indicated in the General Technical Requirements.

4.6 Loop Diagrams

For each instrumentation system a loop diagram shall be prepared. This diagram shall show all components in one loop with their tag numbers, terminal strip numbers, cable numbers, relevant engineering data and connection to the instrument electrical supply system. The drawings shall clearly show the function of the various components.

The location of components shall be clearly indicated, e.g. in areas for panel, back of panel, field, etc.

4.7 Logic Diagrams

For systems, such as interlocking systems, shutdown systems, emergency systems, etc., logic diagrams shall be prepared.

The logic diagram symbols shall be in accordance with IEC 60117-15.

4.8 Circuit Diagrams

Circuit diagrams shall be made of electrical circuits and shall be in accordance with IEC 60117 and IEC 60113. All components such as switches, relays, timers, lamps etc. shall be provided with a tag number. The location of components shall be clearly indicated, e.g. for electrical panel, instrument panel, field, etc.

4.9 Wiring Terminal Layout

CONTRACTOR shall supply wiring terminal layout blocks with their tag nos. wire numbers with their incoming and outgoing destinations.



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