

REWIRING ON INSTRUMENT AIR COMPRESSOR UNIT 6 PLTU SURALAYA

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ABSTRACT

Instrument Air Compressor serves to supply air to equipment or instrument control and equipment that is moved or arranged with pneumatic. Such as: damper, control valve and solenoid valve. IAC is operated locally, local operator can start menstop, menstop, and maneuver IAC. When the local operator wants to operate the IAC, initially the 'Man-Auto' toggle switch is made to the Manual, after which the operator can start and start the IAC. When the operator moves the toggle switch to the IAC manual it will Unloading. When the local operator moves the toggle switch from Auto to Manual in the DCIS control room there is no manual indication, or in the sense that the control room operator only knows the IAC is still Auto. By changing the wiring diagram we can give manual indication in CCR. Because if the IAC can not be monitored from the CCR may result in the IAC being Unloading for long periods of time. If this happens then the damper, solenoid valve, or control valve will not operate, this will result in boiler trip, when boiler trip unit will trip too. Change / replace toggle switch with Double Pole Single Throw switch, when switch is positioned Auto contactor K1.1 gets source and gives auto indication to CCR. Then when the switch is in manual position, the open switch is the same as the switch in before the K1.1 contactor, so the K1.1 contactor does not get the source, this will indicate the manual in CCR.

Keywords : Toggle Switch, Manual-Auto, contactor, switch.