

Energization of 3 phase loco

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THREE PHASE EMU ENERGISATION:-

1.1 Raising pantograph on zero MR pressure

- Ensure all MCBs are SET in DTC and MC.
- Ensure all MR main cocks, MR and BP coupling cocks are open.
- Ensure HT compartments in all Motor coaches are properly closed and locked.
- Ensure Blue Kaba keys in all Motor coaches are in Vertical position.
- Switch ON Battery Disconnect switch in all Motor coaches.
- Switch ON Battery main supply from driving cab.
- HMI will start in about one minute.
- Switch ON ICS &DCS.
- Ensure Lamp test takes place. If lamp test does not start, another driver's desk may be active. Tell Guard on PA system to SWITCH OFF DCS key in his cab.

- Select Main System/Air Supply screen and ensure that Auxiliary compressors are working in all units.
- When Auxiliary compressors stop working (White background), give Panto Raise command.
- When Pantographs raise and OHE supply is detected on HMI, give MC ON (VCB ON) command.
- Ensure all VCBs are ON. If one or more VCBs are not SET, press Fault Reset push button and try to SET VCBs.
- Ensure on HMI that Main compressors in all units are working

1.2 Preparation of the rake for journey

- Ensure all MCBs are SET in DTC.
- Ensure MR pressure is normal. (6 – 7 Kg./sq.cm)
- Switch On ICS and ensure BP pressure is building up.
- Switch On DCS.
- Lamp test starts automatically, check all tell-tale lamp indications.
- If lamp test does not start, another driver's desk may be active. Tell Guard on PIS to SWITCH OFF DCS key in his cab.
- Ensure all Pantographs are raised and all VCBs are SET on HMI.
- Check AWS is working.

- Check Unit defect log book for entries and verify AWS counters readings.
- Check working of EP and Auto brakes.
- Check working of Head light, Flasher and Hooter.
- Ensure Tail light and Blinker are working and Switch OFF.
- Ensure correct destination board on Head Code.
- Release parking brake (5 Kg/sq.cm) and select correct direction.
- Before starting, ensure correct aspect of signal.
- Take brake feel test at the first opportunity.

THANKS