

DALMIA CEMENT (B) LIMITED – CEMENT PLANT ARIYALUR

ELECTRICAL DEPARTMENT

Issue No:02 Rev. No: 00 Effective Date: 01.11.2019 SOP/ELEC/025

Issued By: M.R Approved By: HOD (E&I)

SOP FOR OPARATION OF AUTO POWER FACTOR CONTROLAR

Scope : SOP is applicable for operation of APFC.

Responsibility: Shift Electrical engineer/Shift Technicians

Accountability: Section Head Electrical

PPE:

1. Safety helmet,

2. Safety shoe,

3. Goggles

4. Electrical gloves

Tools:

1. General Tools

Hazards:

Risks associated

Electrical Shock

Electrical Fire

Flashover of contactor. Electrocution (Fatal) Electrical Flash

Training needs:

- 1. Work related training
- 2. Emergency preparedness
- 3. Fire fighting
- 4. First aid including CPR training
- 5. Electrical safety training

Mitigating Measures

Tested Electrical Rubber Hand Gloves

Feeder to be locked properly.



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Procedure for operation of APFC.

- 1. During power export, all APFC panel to be selected in auto mode only.
- 2. During power import, load variation are more and if power factor is not able to maintain as required (PF 0.99), one APFC can be take in Manual mode at CMBH and CCR load center as per requirement.
- 3. Before taking in Manual mode ensure the entire chamber door to be fully closed and tight with given panel lock or lock bolt.
- 4. Operate the required capacitor bank one by one.
- 5. During switch on capacitor bank, keep your body away from front of operating bank.
- 6. Switching time delay between one capacitor bank to other will be 30 seconds.
- 7. Once one capacitor bank is switched off, the same bank should not be on before 40 seconds.
- 8. Put back all the APFC in auto mode when export started.

Emergency / Emergency Shut OFF:

1. If hand/leg injury is there, give First aid and inform to the Safety department or Call Emergency number 3108/9865152222/9865952222

Records/Annexure:

1. JSA as enclosed below.



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JOB SAFETY ANALYSIS: (JSA)

Job Safety Analysis	Job: Resume the power during blackout	Date: 01 – 04 - 2014	Analysis by: Shift Incharge	Reviewed by: Section Head
Title of employee doing job: shift engineer / Electricians	Supervisor: Shift In charge	Department: Electrical	Section: All Section	Approved by: Electrical HOD
Reqd./recommended PPE: Safety helmet, Safety shoe, safety goggle & Gloves.				
Sequence of Basic Job Steps	Potential Hazards	Recommended Safe Job Procedure	What Could Go Wrong	Corrective Action
Operating of APFC panel cover	Panel flash over and burned injury	Ensure Tightness of panel door	Not checked during operation	Tool box talk/Proper Training
		Keep yourself beside the panel	Not fallow the procedure	Tool box talk/ SOP Training
		Wear safety Goggles /	Damaged goggles/non standard goggles/ Not wearing goggles	Periodic replacement/Traini ng