

8.3.F.2 – TEMPORARY SWITCHGEAR SKETCH

(REFER TO PARAGRAPH 8.3.F)

NOTES

THE RECOMMENDATIONS ARE TO REPLACE THE AGING SWITCHBOARDS IN BUILDINGS 1 (M&BH/ADMINISTRATION), 5-1 (EAST), 5-2 (WEST), 5-5 (ICU – BLDG. 24), 8 (LAUNDRY), AND 16 (HBPC/CONTRACTING/LEGAL). THE COST PROPOSAL TO REPLACE THESE IS BASED ON THE FOLLOWING APPROACH:

THERE IS NO SPACE AVAILABLE IN EXISTING SWITCHBOARD ROOMS TO INSTALL A NEW SWITCHBOARD AND THEN TRANSFER LOADS TO THE NEW SWITCHBOARD. THERE ALSO IS NO ROOM AT THIS FACILITY TO INSTALL NEW ROOMS CLOSE BY, BEYOND THE EXTERIOR WALL, OR ABOVE OR BELOW THE EXISTING SWITCHBOARD ROOMS.

TO OVERCOME THIS HANDICAP, IT IS PROPOSED TO INSTALL A FLEXIBLE TEMPORARY SWITCHBOARD WHICH OFFERS THE FOLLOWING ADVANTAGES OVER THE CONVENTIONAL APPROACH OF BUILDING NEW ROOMS:

1. THE PROJECT PROCEEDS IN AN EXPEDITIOUS MANNER.
2. IT CUTS DOWN THE COST TO A MINIMUM AS THE NEW SWITCHBOARDS ARE INSTALLED IN EXISTING LOCATIONS.
3. IT POSES MINIMUM DISRUPTION TO THE EXISTING ELECTRICAL DISTRIBUTION SYSTEM.
4. THERE IS NO WASTE AT THE END OF THE PROJECT AS ALL THE TEMPORARY PANELS GET UTILIZED.

SEQUENCE OF WORK

1. CONFIGURE THE TEMPORARY PANEL TO BE SIMILAR TO THE EXISTING SWITCHBOARD TO BE REPLACED.
2. USING THE THREE-PANEL CONFIGURATION, SET UP THE TEMPORARY SWITCHBOARD IN THE ROOM REQUIRING SWITCHBOARD REPLACEMENT.
3. SWITCH ON EMERGENCY POWER AND PLACE THE BUILDING ON EMERGENCY POWER. THIS FREES THE NORMAL SWITCHBOARD TO BE TAKEN OUT OF SERVICE. USING QUICK-CHANGE CONNECTIONS, ALL FEEDERS (NOW DE-ENERGIZED) ARE TRANSFERRED TO THE TEMPORARY PANEL. THIS SHOULD BE COMPLETE IN ONE WORKING DAY.
4. SWITCH ON THE TEMPORARY PANEL AND SHUT DOWN THE EMERGENCY GENERATOR TO RETURN THE SYSTEM TO NORMAL POWER FROM THE TEMPORARY PANEL. REMOVE THE EXISTING SWITCHBOARD AND INSTALL THE NEW SWITCHBOARD.
5. SWITCH ON EMERGENCY POWER AND PLACE THE BUILDING ON EMERGENCY POWER. THIS FREES THE TEMPORARY SWITCHBOARD TO BE TAKEN OUT OF SERVICE. RETURN ALL FEEDERS TO THE NEWLY INSTALLED SWITCHBOARD. THIS SHOULD BE COMPLETE IN ONE WORKING DAY.
6. REMOVE THE TEMPORARY SWITCHBOARD FROM THE ELECTRICAL ROOM.