

ELECTRICAL SAFETY INSPECTION REPORT

L Usine Fashion Ltd (Unit-2)

36, Gazipura, Sataish Road Tongi, Gazipur, Bangladesh.



Factory List:

1. L Usine Fashion Ltd (Unit-2)

Inspected on March15, 2014



SUMMARY

The L Usine Fashion Ltd (Unit-2) factory was established in a 7-storied building.

The Factory was surveyed for electrical safety by Woosun Energy and Construction Co., Ltd. (WEC). The purpose of the survey was to identify significant electrical safety issues and to provide recommendations for remediation based on applicable standards specified by the Accord. The scope of this initial electrical safety inspection was limited to the review and identification of major electrical safety issues. The inspection did not include identification of minor deficiencies, which will be further addressed as part of follow-up inspections.

Table below summarizes the major electrical safety issues identified during the inspection. Recommendations have been provided to address each issue.

An implementation schedule shall be developed by the factory to remediate each of the findings. The specific timing of improvements, including any requested extensions due to design / installation constraints, shall be submitted to the Accord for approval.

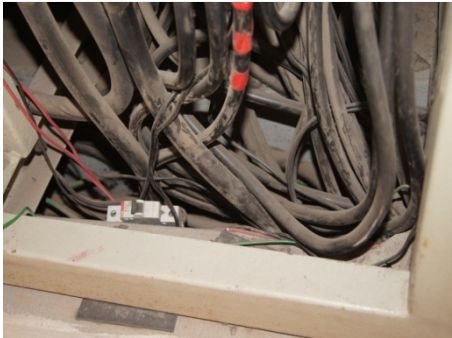
FINDINGS AND RECOMMENDATIONS

Finding #: E- 1	
Category: TRANSFORMER ROOM	
Finding: Excessive lint and dust deposit on transformer body.	
Recommendation: Establish a routine cleaning program to keep neat and clean the transformer room. Shut down the power of the transformer and clean the exterior of the transformer at scheduled period.	
Remediation Timeframe: Within 1 month	Transformer.

Finding #: E- 2	
Category: TRANSFORMER ROOM	
Finding: HT cable passing through the wall is not protected.	
Recommendation: Provide steel pipe through the wall to protect the HT cable from any kind of damage. Seal all the penetrations using appropriate fire rated material and ensure the cable insulation does not get damaged during sealing work.	
Remediation Timeframe: Within 1 month	HT cable

Finding #: E- 3	
Category: TRANSFORMER ROOM	
Finding: Transformer LT cables passing through the wall where the hole is sealed by concrete.	
Recommendation: Cables passing underground or through permanent walls must be protected in steel/PVC pipes and remaining holes around the pipe must be sealed with appropriate fire rated material.	
Remediation Timeframe: Within 1 month	LT cables passing through permanent wall

Finding #: E- 4	
Category: SWITCHBOARD & PANEL	
Finding: Dust fund inside the HT panel.	
Recommendation: Disconnect the panel from power source and clean the interior of the HT panel regularly and seal the opening to protect ingress of lint and dusts. Provide covers if any additional gap remains after installing cable glands.	
Remediation Timeframe: Within 1 month	HT panel

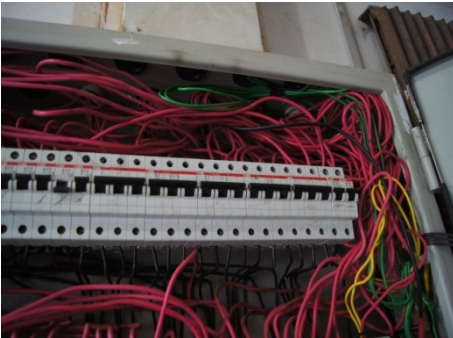
Finding #: E- 5	
Category: SWITCHBOARD & PANEL	
Finding: MCB is not supported inside the panel.	
Recommendation: Protective devices inside panel must be fixed rigidly with proper nut-bolt/screw (may be provided by manufacturer) inside panel.	
Remediation Timeframe: Within 1 month	Inside scenario of a panel

Finding #: E- 6	
Category: CABLE & CABLE SUPPORT	
Finding: Storage near the cable duct.	
Recommendation: Storage goods must be stored, keeping safe clearance from any electrical installation to reduce the risk of spreading fire due to short circuit.	
Remediation Timeframe: Within 1 month	Goods storage

Finding #: E- 7	
Category: CABLE & CABLE SUPPORT	
Finding: No cable duct/trays are used for support and protection of the cables.	
Recommendation: Install metallic (non-combustible) cable duct over the floor and provide metallic cover on it to keep it dust and vermin free. Establish a periodic cleaning program to keep all the duct/trays/channel dust-free.	
Remediation Timeframe: Within 1 month	Wires are hanging on the floor.

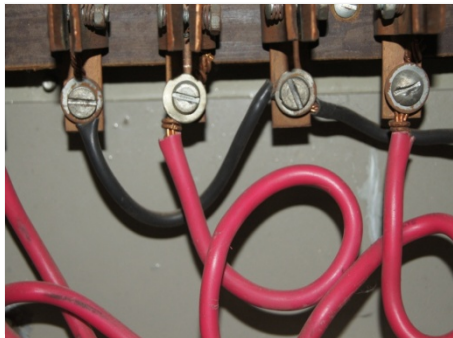
Finding #: E- 8	
Category: SWITCHBOARD & PANEL	
Finding: No phase barrier is installed in MCCB.	
Recommendation: Provide phase separators between poles of MCCB made of noncombustible materials preferably use rubber having enough dielectric strength to insulate phases from each other.	
Remediation Timeframe: Within 1 month	MCCB inside the panel

Finding #: E- 09	
Category: SWITCHBOARD & PANEL	
Finding: Protective devices are mounted on the wall without enclosure.	
Recommendation: Protective devices should be encased in metal casing made of 20 SWG thickness metal sheets. Replace the semi enclosed rewire-able fuse with miniature circuit breaker (MCB).	
Remediation Timeframe: Within 1 month	Control devices are mounted on the wall

Finding #: E- 10	
Category: SWITCHBOARD & PANEL	
Finding: Excessive wires are crowding inside the panel.	
Recommendation: Assign an electrical engineer to determine the capacity of the installation and redesign the wirings of the panel. If the wirings and loads exceed the capacity of the panel, install additional panel. Establish a load management program for avoiding any installation exceeding its capacity in future. Install slotted wiring-duct inside the panel to arrange and latch the haphazard cables.	
Remediation Timeframe: 3 months	Distribution panel.

Finding #: E- 11	
Category: SWITCHBOARD & PANEL	
Finding: Panel is covered by flammable material (used for interior design).	
Recommendation: Panel must be removed from this location and installed at safe location, away from the combustible material	
Remediation Timeframe: Within 1 month	Distribution panel

Finding #: E- 12	
Category: CABLE & CABLE SUPPORT	
Finding: Excessive lint and dust deposit inside the wiring duct.	
Recommendation: Disconnect the power source of the cable laid into channel and clean dust and debris of all interior components. Establish a periodic cleaning program and maintain records of the activities. Provide cover made of noncombustible material on the channel for preventing ingress of dust and debris in future.	
Remediation Timeframe: Within 1 month	Wiring duct

Finding #: E- 13	
Category: SWITCHBOARD & PANEL	
Finding: Wires are connected without lug.	
Recommendation: Cables shall be connected to terminals only by soldered/welded lugs according to the size of the respective cables. Proper crimping tools must be used to punch the socket.	
Remediation Timeframe: Within 1 month	Wires are connected without lug