

INITIAL ELECTRICAL ASSESSMENT REPORT (EAR)

Factory Name: **Unicorn Sweaters Ltd**
Address: **Gorat, Navana Village, Ashulia, Savar, Dhaka-1341
Savar Bangladesh**
Assessor: **Shaheedullah**
Date: **10 Jan 2018**



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FOR BANGLADESH WORKER SAFETY

Introduction to the Report

The following report contains a site profile and summary of non-conformities identified during an onsite assessment commissioned by the Alliance for Bangladesh Worker Safety (Alliance) and conducted by a third-party Qualified Assessment Firm (QAF). The assessment was conducted against the Alliance for Bangladesh Worker Safety Assessment Protocols (APs) and Fire Safety and Structural Integrity Standard, which is harmonized with the factory assessment guidelines developed by Bangladesh University of Engineering and Technology (BUET) for the Bangladesh National Tripartite Plan of Action (NTPA). The goal of the Alliance process is to provide clear and practical technical requirements by which Bangladeshi Ready Made Garment (RMG) Factories producing for Alliance members may be consistently and fairly evaluated for fire, structural, and electrical safety in a non-duplicative manner. Each assessment will prompt action plans that will be used by RMG factories to systematically and sustainably improve safety conditions for garment workers. Beyond tracking and reporting on action steps taken in a transparent manner, the Alliance organization and its members will seek to further support factory improvements through technical assistance, training, implementation support for functional Worker Committees, and in some cases financial assistance and wage support for workers if factories are closed for remediation.

The contents of the report do not constitute a guarantee of compliance with the applicable laws, the Alliance Standard or the absolute or continued safety against fire, electrical and/or structural integrity issues that may lead to injury or loss of life. The report is designed to provide a non-exhaustive summary of risk issues, based on a limited sampling and duration of time onsite by the named QAF. Neither the QAF nor the Alliance can certify or guarantee the quality, outcome, or effectiveness of actions taken in response to the report.

For more information and report feedback please go to: www.bangladeshworkersafety.org.



GENERAL INFORMATION

General Information	
Factory Name:	Unicorn Sweaters Ltd
Address:	Gorat, Navana Village, Ashulia, Savar, Dhaka-1341 Savar Bangladesh
Country:	Bangladesh
Province:	
City:	Savar
Zip Code:	1340
Audit Duration:	1 Days
Re-Audit:	Re-Audit After 0 Months
Draft Report Date :	17 Jan 2018
Final Report Date :	21 Jan 2018
Are all action items from previous assessment complete? :	N/A
Buildings in Complex :	There are 4 buildings/sheds in the factory complex; Two (2) Production Buildings and two (2) Ancillary Sheds. Ancillary sheds are temporarily used for workers and staff dining. Area of each ancillary shed is less than 5,000 SF. Since the area of each ancillary shed is less than 5,000 SF and they are for temporary use the sheds are not included in this audit. Production buildings include: 1. Six (6) story RC Production Building #2(B+G+4). 2. Four (4) story RC Production Building #3 (G+3).
Is the building(s) owned or rented by the Factory? :	Owned
Number of Building Levels (Stories) :	1.) Six (6) story RC Production Building #2 (B+G+4); one story below grade and five stories above grade. 2.) Four (4) story RC Production Building #3 (G+3): Four stories above grade.
Approximate Building Area (SF) :	1.) Six (6) story RC Production Building #2: 61,127 SF. 2.) Four (4) story RC Production Building #3: 15,291 SF. Total area=76,418 SF.
Date of Building Construction :	1.) Six (6) story RC production building #2: 2015-2017. 2.) Four (4) story RC production building #3: 2016-2017.
Date of Last Building Renovation/Addition :	N/A
Ancillary Structures in Complex :	Two (2) Ancillary Sheds: Ancillary sheds are temporarily used for workers and staff dining. Area of each ancillary shed is less than 5,000 SF. Since the area of each ancillary shed is less than 5,000 SF and they are for temporary use the sheds are not included in this audit.



Approximate Ancillary Structures Area (SF) :	Less than 5,000 SF.
Number of Occupants :	Total = 619 Persons.
Provide brief description of the electrical system for each building.:	Service Line: REB. MDB quantity: One (1). FDB quantity: Seven (7). SDB quantity: Twenty three (23). COS quantity: One (1) of 1000A. Transformer quantity: One (1) of 800KVA. Generator quantity: One (1) of 400KVA. PFI quantity: One (1) of 480KVAR. LT Panel quantity: One (1). Fuel Tank: Outdoor.
Physical location of Substation? :	Outside of production building.
What equipment/loads does the UPS serve? :	Exit light, Emergency light, etc.



ASSESSMENT FINDINGS

Electrical System Information

Question:	Are as-built electrical drawings indicating information such as panel and circuit locations throughout the building(s) available for review?
Priority Level:	High
Non-Compliance Level:	1
Description:	As-built drawing not available on site.
Source of Findings:	Document Review: As-built drawing not available.
Suggested Plan of Action:	Have a qualified electrical engineer develop as-built drawings detailing key components and capacity of the electrical system in accordance with Alliance requirements.
Suggested Deadline Date:	31 Mar 2018
Standard:	Alliance Standard Part 10 Section 10.3.7



Electrical System Maintenance

Question:	Transformers do not contain harmful substances such as PCBs.
Priority Level:	Medium
Non-Compliance Level:	1
Description:	Testing documentation not provided during inspection.
Source of Findings:	Document Review: Documentation not provided.
Suggested Plan of Action:	Conduct a complete oil analysis to determine the content of PCBs in transformer oil and consider replacing transformers found with harmful substances to reduce health hazards.
Suggested Deadline Date:	31 Mar 2018
Standard:	Not Applicable

Electrical System Conditions



Question:	Shielding or additional insulation is provided for wiring exposed to external heat sources.
Priority Level:	High
Non-Compliance Level:	3
Description:	Shielding or additional insulation is not provided for wiring exposed to external heat sources. Location: Boiler room.
Source of Findings:	Photograph: Shielding or additional insulation is not provided for wiring exposed.
Suggested Plan of Action:	"In order to avoid the effects of heat from external sources one of the following methods should be used to protect wiring systems: (1) shielding; (2) placing 900 mm (36 in.) from the source of heat; (3) local reinforcement or substitution of insulating material."
Suggested Deadline Date:	31 Mar 2018
Standard:	Alliance Standards Part 10 Section 10.3.4.2 External heat sources.
Question:	Switchboards and/or panelboards are not installed above gas stoves or sinks or within 2.5m of any washing unit in washing rooms or laundries.
Priority Level:	High
Non-Compliance Level:	2
Description:	Switchboards and/or panelboards are installed near sinks.
Source of Findings:	Photograph: Switchboards and/or panelboards are installed close to sinks.
Suggested Plan of Action:	Relocate panel or washing unit to provide proper separation in accordance with Alliance Standard.
Suggested Deadline Date:	31 Mar 2018
Standard:	Alliance Standards Part 10 Section 10.7 Main Switch, Switchboards and Metal Clad Switchgear
Question:	Do switchboards and/or distribution boards have capacity information labels?
Priority Level:	Medium
Non-Compliance Level:	3
Description:	Distribution boards do not have capacity information labels. Location: All panel boards.
Source of Findings:	Photograph: Capacity information labels not provided for DBs.
Suggested Plan of Action:	Provide capacity information labels (Maximum current rating, number of circuit breakers, rated capacity of circuit breaker, etc.) for Switchboards and/or





	distribution boards. Display panel schedule on panel door (inner side) printed on a sheet made of non-combustible material.
Suggested Deadline Date:	31 Mar 2018
Standard:	Alliance Standard Part 10 Section 10.7 Main Switch, Switchboards And Metal Clad Switchgear and 10.13.7 Inspection of the Installation
Question:	Are switchboards and/or distribution boards provided with physical means to prevent the installation of more over current devices than that number for which the panel board was designed, rated, and listed.
Priority Level:	Medium
Non-Compliance Level:	3
Description:	Distribution boards are not provided with a physical means to prevent the installation of more over current devices than that number for which the panel board was designed, rated and listed. Location: All panel boards.
Source of Findings:	Photograph: No physical means for DBs.
Suggested Plan of Action:	Verify the existing load does not exceed the panel rating. For switch boards and/or distribution boards, provide the physical means to prevent the installation of more over current devices than that number for which the panel board was designed, rated, and listed following NFPA 70 section 408.54.
Suggested Deadline Date:	31 Mar 2018
Standard:	Alliance Standards Part 10 Section 10.7 Main Switch, Switchboards and Metal Clad Switchgear



Lightning Protection System

Question:	Is a lightning protection system installed on the building?
Priority Level:	High
Non-Compliance Level:	3
Description:	Lightning protection system is not installed on the building.
Source of Findings:	Photograph: Lightning protection system.
Suggested Plan of Action:	Have a qualified electrical engineer design a lightning protection system according to the BNBC requirements. Submit drawings to Alliance for approval. Have a licensed electrician install the designed system as approved by Alliance.
Suggested Deadline Date:	30 Apr 2018
Standard:	Alliance Standards Part 10 Section 10.11 Lightning Protection. Calculate Risk Index to determine if required.



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