

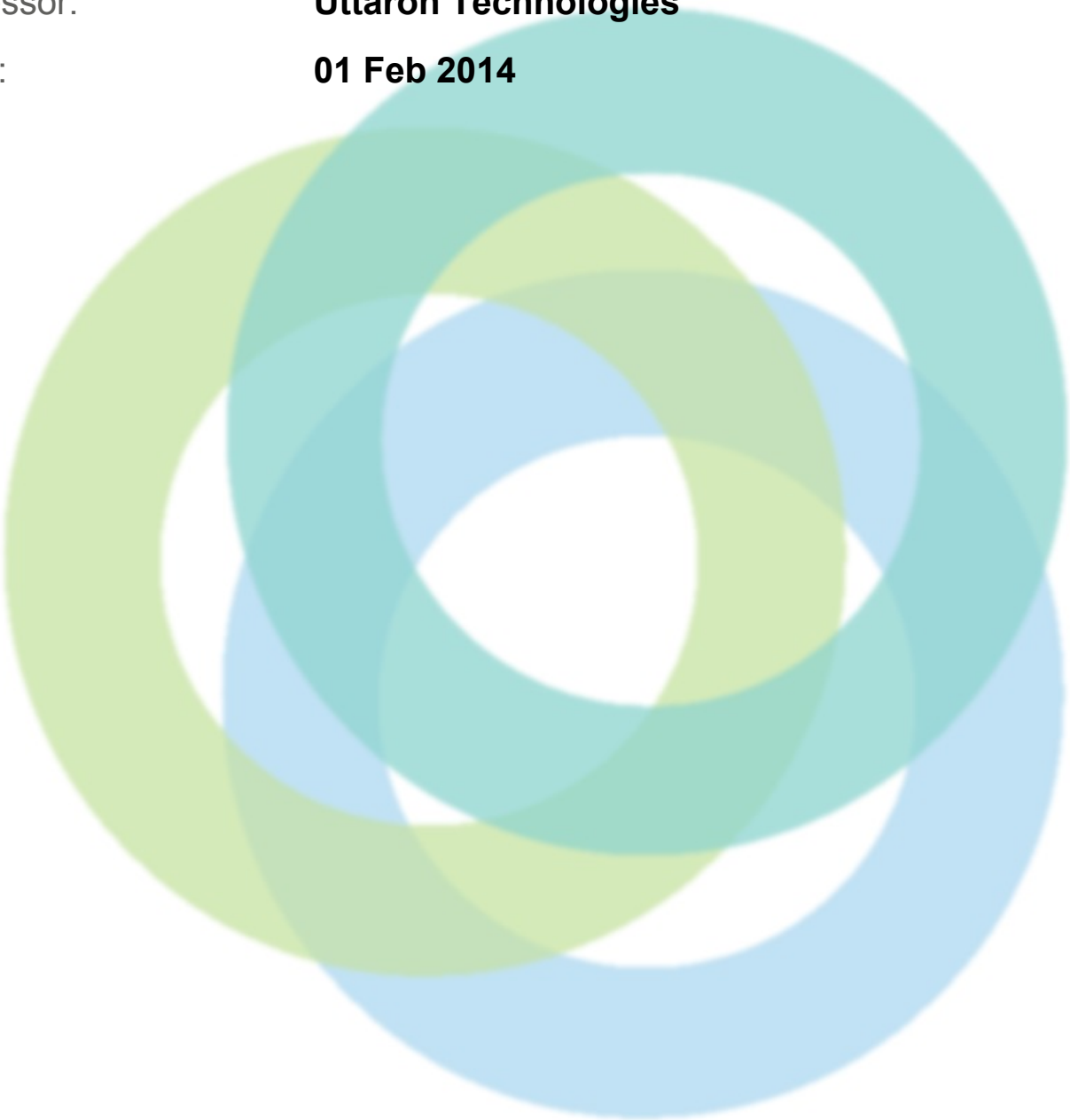
INITIAL FIRE ASSESSMENT REPORT (FAR)

Factory Name: **Karnaphuli Sportswear Ind. Ltd.**

Address: **Plot # 9-14, Sector # 7 Chittagong Export Processing
Zone Chittagong Chittagong Bangladesh**

Assessor: **Uttaron Technologies**

Date: **01 Feb 2014**



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:	Karnaphuli Sportswear Ind. Ltd.
Address:	Plot # 9-14, Sector # 7 Chittagong Export Processing Zone Chittagong Chittagong Bangladesh
Country:	Bangladesh
Province:	Chittagong
City:	Chittagong
Zip Code:	4000
Audit Duration:	2 Days
Re-Audit:	Re-Audit After 0 Months
Draft Report Date:	01-Feb-2014
Final Report Date:	Update once final report is complete (after all comments incorporated).
Are all Action Items From Previous Assessment Completed?:	Yes
Buildings in Complex:	2(5 stories and 3 stories)
Is the building(s) owned or rented by the Factory:	Owned
Number of Building Levels (Stories):	Main building:5 stories
Approximate Building Area (SF):	153300 sft..total area approx
Date of Building Construction:	Constructed sixteen years ago (1998)
Date of Last Building Renovation/Addition:	N/A
Ancillary Structures in Complex:	One
Approximate Ancillary Structures Area (SF):	51100 sft.approx. per floor
Number of Occupants:	6540

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Number of Ancillary Levels (Stories):	N/A
Occupancy Type:	G2
Construction Type:	RCC
Height of Highest Occupied Floor Level Above Grade:	64 FT



ASSESSMENT FINDINGS

Fire Protection Construction

Question:	Are openings and penetrations through rated walls and/or assemblies protected?	
Priority Level:	High	
Non-Compliance Level:	3	
Description:	Found numbers of Penetrations on the barrier walls at 1st to 4th floor for different utilities which are not sealed properly.	
Source of Findings:	Photograph: Penetrations on the barrier walls for different utilities which are not sealed properly.	
Suggested Plan of Action:	Install fire-rated products to provide the required degree of protection for rated walls and assemblies in accordance with the standard.	
Suggested Deadline Date:	16 Oct 2014	
Standard:	Includes doors, windows, ducts, piping, etc. Reference Alliance Standards Part 4 Section 4.6 Opening Protectives and Section 4.7 Penetrations	
Question:	Are exit enclosures provided with fire-resistive rated construction barriers?	
Priority Level:	High	
Non-Compliance Level:	3	
Description:	Fire door not found.	
Source of Findings:	Visual Assessment: Fire doors not found.	
Suggested Plan of Action:	Provide fire-resistive rated construction barriers and associated opening protection for exit enclosures in accordance with Alliance Standard Section 6.3.1.2. . Consult a qualified fire protection engineer to design the required rated construction barriers	
Suggested Deadline Date:	16 Oct 2014	
Standard:	Reference Alliance Standards Part 4 Section 4.5 Separation	



Question:	Are shafts provided with the minimum fire-resistance rating?
Priority Level:	High
Non-Compliance Level:	3
Description:	There are two lifts in this factory. One of them is using as passenger lift. Another one is used for goods carrying. These lifts do not have fire rated doors.
Source of Findings:	Photograph: One of them using as passenger lift and another lift is using for goods carrying.
Suggested Plan of Action:	Provide fire-resistive rated opening protection and walls for the lifts in accordance with Alliance Standard Sections 4.6. Consult a qualified fire protection engineer to design the required opening, walls or penetration systems.
Suggested Deadline Date:	16 Oct 2014
Standard:	Reference Alliance Standards Part 4 Section 4.5.7.1 through 4.5.7.3
Question:	Fire dampers installed on air-conditioning and ventilation ducts appear to be in good condition and operational.
Priority Level:	Medium
Non-Compliance Level:	3
Description:	Ducts found at the factory where fire dampers are not installed.
Source of Findings:	Visual Assessment: Ducts found at the factory where fire dampers are not installed.
Suggested Plan of Action:	Listed fire damper shall be installed as per alliance standard.
Suggested Deadline Date:	16 Jan 2015
Standard:	Reference Alliance Standards Part 4 Section 4.6 Opening Protectives and Section 4.7 Penetrations
Question:	Certificates of Occupancy for each building have been issued and are on file.
Priority Level:	Low
Non-Compliance Level:	2
Description:	No Certificates of occupancy was available during visit.
Source of Findings:	Visual Assessment: No Certificates of occupancy was available during visit.
Suggested Plan of Action:	Apply to appropriate authority in an expeditious manner for issuance of the Certificates of Occupancy for each building and ancillary structure according to





	building use.
Suggested Deadline Date:	29 Aug 2014
Standard:	Are certificates of occupancy provided for each building or ancillary structure?

Fire Protection Systems

Question:	Does the building have a Standpipe System?
Priority Level:	High
Non-Compliance Level:	3
Description:	Found 07 Nos. 2.0 inch dia. GI (Galvanized iron) pipe at Building-1 (4-storied) and 05 Nos. 2.0 inch dia. GI pipe at Building-2 those are not as per Alliance standard stand pipe system.
Source of Findings:	Photograph: Class-2 stand pipe system at Building-1 & 2.
Suggested Plan of Action:	Class III standpipe hose connections shall be installed as per Alliance Standard and shall be supervised by a qualified and experienced engineer .
Suggested Deadline Date:	15 Nov 2014
Standard:	Does the building have a standpipe system installed where required. Alliance Standard Part 5 Section 5.4.2
Question:	Does the building have a fire pump?
Priority Level:	High
Non-Compliance Level:	3
Description:	Found one no. 25 H.P pedrollo pump as fire pump having maximum water flow capacity 263.33 GPM & 73m head which is not as per standard.
Source of Findings:	Visual Assessment: As seen on site
Suggested Plan of Action:	Provide information showing that current pump meets Alliance standard or install a dedicated fire pump for the facility in accordance with NFPA 20. Also, to supply the demands of the connected fire protection systems along with a stored source of water sufficient to meet the demands in accordance with NFPA 22. Fire pump installation is to be tested for final acceptance in presence of Alliance and a final inspection of the installation shall be conducted by the Alliance prior to final acceptance of the installation by the Alliance as per clause 5.5.5. Acceptance testing of the installation shall be in accordance with NFPA 20, 22, and 25 testing requirements. Documentation of all testing shall be submitted to the Alliance for review prior to final acceptance by the Alliance.
Suggested Deadline Date:	16 Oct 2014





Standard:	Alliance Standard Part 5 Fire Protection Systems	
Question:	Trouble or alarm notifications were not indicated on the fire alarm control panel.	
Priority Level:	High	
Non-Compliance Level:	3	
Description:	Fire alarm control panel not found.	
Source of Findings:	Visual Assessment: As seen on site	
Suggested Plan of Action:	Automatic fire alarm with fire alarm control panel should be provided as per Alliance Standard.	
Suggested Deadline Date:	16 Oct 2014	
Standard:	Alliance Standard Part 13 Section 13.10 Maintenance of Fire Protection Equipment	
Question:	Are notification and initiation devices for the fire alarm system installed at required locations based on occupancy type?	
Priority Level:	High	
Non-Compliance Level:	3	
Description:	Found 29 nos. fire alarm at all exits and 227 nos. smoke detectors within the building which are not as per standard based on occupancy type.	
Source of Findings:	Visual Assessment: As seen on site.	
Suggested Plan of Action:	As per occupancy type in the factory required more smoke detectors that should be installed as per Alliance standard. The fire alarm and smoke detectors should be monitored by central monitoring system.	
Suggested Deadline Date:	16 Oct 2014	
Standard:	Pull stations at egress points, smoke detectors in air handling equipment, visual and audible devices spaced appropriately based on occupancy type. Reference NFPA 72	
Question:	Are fire department connections provided and clearly identified for the Fire Protection Systems?	
Priority Level:	Medium	
Non-Compliance Level:	3	
Description:	Fire department (Siamese) connections are not found.	
Source of Findings:	Visual Assessment: Fire department connection was not present at factory.	



Suggested Plan of Action:	Fire department (Siamese) inlet connections shall be provided to allow fire department pumper equipment to supplement the fire protection systems. Fire department outlet connections shall be provided to allow fire department pumper vehicles to draw water from ground-level or underground water storage tanks. Connections shall match the Fire Service and Civil Defense hose thread standard.	
Suggested Deadline Date:	16 Jan 2015	
Standard:	Alliance Standard Part 5 Section 5.5.4 Fire Department Connections	
Question:	Is the fire alarm and detection system monitored by a central station monitoring service or directly connected to the Fire Service and Civil Defense?	
Priority Level:	Medium	
Non-Compliance Level:	3	
Description:	The installed fire alarm and detection system at the factory does not monitored by a central station monitoring service or directly connected to the Fire Service and Civil Defense.	
Source of Findings:	Visual Assessment: As seen on site	
Suggested Plan of Action:	Fire alarm and detection system shall be monitored by a central station monitoring service or directly connected to the Fire Service and Civil Defense.	
Suggested Deadline Date:	20 Oct 2014	
Standard:	Alliance Standard Part 5 Section 5.7.5 Monitoring	
Question:	Are inspection, maintenance, and testing procedures of the standpipe and hose system documented and up to date? Including inspection and testing of hoses if provided.	
Priority Level:	Low	
Non-Compliance Level:	2	
Description:	The presented documents for ITM did not meet the Alliance standards.	
Source of Findings:	Visual Assessment: Documents did not meet Alliance standard	
Suggested Plan of Action:	Establish an inspection, maintenance, and testing program for the standpipe and hose system. Program must comply with the requirements of NFPA 25.	
Suggested Deadline Date:	16 Jan 2015	
Standard:	Reference NFPA 25 Chapter 6 Standpipe and Hose Systems Table 6.1.1.2	
Question:	Is signage for the standpipe system installed at required locations and on required components?	



Priority Level:	Low
Non-Compliance Level:	2
Description:	No signage was found for the standpipe.
Source of Findings:	Visual Assessment: No signage was found for the standpipe.
Suggested Plan of Action:	Install signage at required locations and on required equipment. Signage must comply with NFPA 14.
Suggested Deadline Date:	29 Aug 2014
Standard:	Reference NFPA 14 Chapter 6
Question:	Are inspection, maintenance, and testing procedures of the fire pump documented and up to date?
Priority Level:	Low
Non-Compliance Level:	2
Description:	One fire pump of 26 H.P is found but maintenance document not found.
Source of Findings:	Visual Assessment: No ITM document was present at factory.
Suggested Plan of Action:	Establish an inspection, maintenance, and testing program for the fire pump. Program must comply with NFPA 25.
Suggested Deadline Date:	16 Jan 2015
Standard:	Reference NFPA 25 Chapter 8 Fire Pumps
Means of Egress	
Question:	All doors in a means of egress are of the side-hinged swinging type.
Priority Level:	High
Non-Compliance Level:	3
Description:	Doors are steel made swinging type, sliding type, collapsible type and wooden swinging type.
Source of Findings:	Visual Assessment: As seen on site
Suggested Plan of Action:	Replace with side-hinged swinging type door with the necessary fire resistance rating of 1 1/2 hours including door hardware relating the specific position requirements. Position the door so it shall open in the direction of egress without obstructing other paths of egress.
Suggested Deadline Date:	16 Oct 2014



Standard:	Alliance Standards Part 6 Section 6.8 Doors and Gates	
Question:	Exterior exit stairs are separated from the building with the required rating. The rating of the exterior wall shall extend 3.05 m (10 ft) beyond the ends of the stair structure.	
Priority Level:	High	
Non-Compliance Level:	3	
Description:	Found 2 nos. exterior exit stairs at both building 1 & 2 fabricated with non-raed materials within 10 ft. There are doors and windows within 10 ft. range.	
Source of Findings:	Photograph: As Seen on site.	
Suggested Plan of Action:	Provide a fire-resistive rated assembly between the exterior exit stairs and 10 ft. beyond the ends and the building to achieve the required separation. Enclose any openings (windows etc.) with required fire rated construction within that 10 ft wall section. The rated assembly should be approved and/or designed by a qualified fire protection engineer.	
Suggested Deadline Date:	16 Oct 2014	
Standard:	Alliance Standard Part 6 Section 6.3.1.2. Three stories or less 1-hr rating. Four stories of more 2-hr rating	
Question:	Handrails are provided on both sides of each stairway. Intermediate handrails are provided when the stair width exceeds 2.2 m (87 in.). Handrails are not mounted lower than 760 mm (30 in.) or higher than 1100 mm (44 in.).	
Priority Level:	Medium	
Non-Compliance Level:	2	
Description:	Stair handrails are provided on one side of the enclosed stairs. For external stairs there are handrails on both sides. The maximum stair width is 76 inch which is at Building-1.	
Source of Findings:	Photograph: Handrails were not found on both sides of each stairway as required.	
Suggested Plan of Action:	Provide handrails on both sides of each stairway. Intermediate handrails shall be provided when the stair width exceeds 2.2 m (87 in.). Mount handrails at a height between 30 in. and 44 in.	
Suggested Deadline Date:	16 Jan 2015	
Standard:	Alliance Standard Part 6 Section 6.9 Stairs and 6.12 Handrails and Guards	
Question:	Occupant loads are posted for every assembly and production floor in a conspicuous space near the main point of egress.	
Priority Level:	Medium	



Non-Compliance Level:	1	
Description:	Occupant loads were not posted for any assembly or the production floor in a conspicuous space, near the main point of egress.	
Source of Findings:	Visual Assessment: Occupant loads are not posted.	
Suggested Plan of Action:	The occupant loads shall be posted for every production floor in a conspicuous space near the main exit or exit access doorway for the space.	
Suggested Deadline Date:	16 Aug 2014	
Standard:	Alliance Standards Part 6 Section 6.4.4 Posting of Occupant Load	
Question:	Stair designation signs are provided at each floor entrance from the stair to the floor in English and Bengali. Signs indicate the name of the stair and the floor level. Signs are posted adjacent to the door.	
Priority Level:	Low	
Non-Compliance Level:	3	
Description:	Stair designation signs are not provided at each floor entrance from the stair.	
Source of Findings:	Photograph: Stair designation signs are only in English.	
Suggested Plan of Action:	Install sign-age adjacent to each stair door indicating the stair name and the floor level at the noted locations in both English and Bengali.	
Suggested Deadline Date:	16 Aug 2014	
Standard:	Alliance Standard Part 6 Section 6.9 Stairs	
Fire Safety Programs		
Question:	Storage areas underneath the cutting tables are clear of combustibles.	
Priority Level:	Medium	
Non-Compliance Level:	2	
Description:	Storage areas underneath the cutting tables are not clear.	
Source of Findings:	Photograph: Storage areas underneath the cutting tables are not clear.	
Suggested Plan of Action:	Remove all combustibles stored underneath the cutting tables in accordance with Alliance Standard Section 13.7.2.	
Suggested Deadline Date:	16 Oct 2014	
Standard:	Alliance Standard Part 17 Section 13.7.2 Cutting tables.	
Question:	Training programs are implemented and documented in accordance with the	



	Alliance Safety Training Curriculum.	
Priority Level:	Medium	
Non-Compliance Level:	2	
Description:	Training programs are not implemented and documented in accordance to standard.	
Source of Findings:	Visual Assessment: Nor found training programs schedule.	
Suggested Plan of Action:	Training programs should be implemented and documented according to standard.	
Suggested Deadline Date:	16 Aug 2014	
Standard:	Alliance Standards Part 13	
Question:	Are there additional areas of non-compliance to report?	
Priority Level:	Medium	
Non-Compliance Level:		
Description:		
Source of Findings:		
Suggested Plan of Action:		
Suggested Deadline Date:		
Standard:	Not Applicable	
Question:	A Fire Safety Director position has been filled.	
Priority Level:	Low	
Non-Compliance Level:	2	
Description:	A separate Fire Safety Director's position was not created or filled at the time of the audit.	
Source of Findings:	Visual Assessment: No fire safety director	
Suggested Plan of Action:	Create a Fire Safety Director position and fill the position with an individual that has had sufficient training to be able to carry the required duties.	
Suggested Deadline Date:	16 Jan 2015	
Standard:	Alliance Standards Part 13 Section 13.1 Fire Safety Director	

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Question:	A written housekeeping policy is established and enforced.	
Priority Level:	Low	
Non-Compliance Level:	1	
Description:	A written housekeeping policy was not established or enforced.	
Source of Findings:	Visual Assessment: No written housekeeping policy was found	
Suggested Plan of Action:	Produce, establish and enforce a written policy and procedure for housekeeping to ensure scheduled cleaning of all floors, walls, ceilings, air ventilation systems and other building components. Ensure the timely removal of defective, waste and rubbish materials is included. As a general rule the maximum tolerable deposit thickness for loose fluffy lint is 13 mm (½ in.) over a maximum of 46.5 m ² (500 ft ²). Limit dense deposits to 6 mm (¼ in.) and oil saturated deposits to 3.2 mm (⅛ in.).	
Suggested Deadline Date:	16 Apr 2015	
Standard:	Alliance Standards Part 13 Section 13.6 Housekeeping	