



INITIAL FIRE SAFETY ASSESSMENT

Factory Name: **Crown Exclusive Wears Ltd.**
Address: **Mawna, Sreepur, Gazipur. Gazipur Bangladesh**
Assessor: **Shaheedullah**
Date: **30 Oct 2017**



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.



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GENERAL INFORMATION

General Information	
Factory Name:	Crown Exclusive Wears Ltd.
Address:	Mawna, Sreepur, Gazipur. Gazipur Bangladesh
Country:	Bangladesh
Province:	
City:	Gazipur
Zip Code:	
Audit Duration:	2 Days
Re-Audit:	Re-Audit After 0 Months
Draft Report Date:	09th June, 2017
Final Report Date:	25th June, 2017
Are all Action Items From Previous Assessment Completed?:	N/A
Buildings in Complex:	There are 6 buildings in the factory complex, 1 main production and 5 ancillary buildings. 1) RC Production Building; 2) RC Boiler, Generator and Storage Building; 3) RC Utility Building #1; 4) ETP; 5) RC Security Room with attached gate-1; 6) RC Security Room and Chemical Storage with attached gate-2.
Is the building(s) owned or rented by the Factory:	Owned
Number of Building Levels (Stories):	1) RC Production Building: 7 stories.
Approximate Building Area (SF):	RC Production Building: 225,000 SF
Date of Building Construction:	2017
Date of Last Building Renovation/Addition:	None
Ancillary Structures in Complex:	There are 5 ancillary buildings. 1) RC Boiler, Generator and Storage Building; 2) RC Utility Building #1; 3) ETP; 4) RC Security Room with attached gate-1; 5) RC Security Room and Chemical Storage with attached gate-2.
Approximate Ancillary	1) RC Boiler, Generator and Storage Building: 4,535 SF; 2) RC Utility Building #1: 3,190 SF; 3) ETP: 300 SF;

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Structures Area (SF):	4) RC Security Room with attached gate-1: 950 SF; 5) RC Security Room and Chemical Storage with attached gate-2: 1,143 SF.
Number of Occupants:	Total occupants: 1,223. 1) RC Production Building: 1,213 (GF: 79, 1st: 166, 2nd: 105, 3rd: 281, 4th: 279, 5th: 243, 6th: 60) 2) RC Boiler, Generator and Storage Building: 2; 3) RC Utility Building #1: 2; 4) ETP: 0; 5) RC Security Room with attached gate-1: 3; 6) RC Security Room and Chemical Storage attached with gate-2: 3.
Number of Ancillary Levels (Stories):	All ancillary buildings are 1-story.
Occupancy Type:	1) RC Production Building: G2; 2) All ancillary buildings: K.
Construction Type:	All buildings: Type-2.
Height of Highest Occupied Floor Level Above Grade:	1) RC Production Building: 19.96 m (65.5 ft); 2) All other buildings: At grade.



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:	Penetrations have been noticed due to BBT in the floor slab in the South-East corner (near Stair #2) and the North-West corner (near Stair #3) at Levels-5, -6 & -7 of the RC Production Building. No fire separation has been found between fire pump room and the adjacent maintenance room and the compressor room. The building is typically surrounded by a glass partition wall on each floor on its periphery. There is a gap of approximately 2 inches between the glass wall and the floor slab.	
Source of Findings:	Photograph: i) opening between maintenance room & fire pump room. ii) opening between compressor room & fire pump room. iii) Penetration due to BBT in the floor slab. iv) Gap between floor slab and the peripheral glass partition wall, Visual Assessment: Facility Survey	
Suggested Plan of Action:	Provide fire-resistive rated opening or penetration protection for rated walls and assemblies in accordance with Alliance Standard Sections 4.6 and 4.7. Provide proper floor-to-floor separation and protection between edge of slab and curtain wall to maintain floor separation. Consult a qualified fire protection engineer to design the required edge of slab, opening, and penetration protection systems.	
Suggested Deadline Date:	28 Jan 2018	
Standard:	Includes doors, windows, ducts, piping, etc. Reference Alliance Standards Part 4 Section 4.6 Opening Protectives and Section 4.7 Penetrations	
Question:	Are separations between hazards provided with fire-resistive rated construction barriers.	
Priority Level:	Medium	
Non-Compliance Level:	3	
Description:	Spot removing room near Stair #2 on the 1st floor of the RC Production Building is surrounded by a non-rated glass wall.	
Source of Findings:	Photograph: i) Glass wall surrounded Spot removing room, Visual Assessment: Facility Survey	
Suggested Plan of Action:	Provide fire-resistive rated construction barriers (with associated opening protection) between hazard types in accordance with Alliance Standard	



	Sections 3.4 and 4.5. Consult a qualified fire protection engineer to design the required rated construction barrier.	
Suggested Deadline Date:	28 Jan 2018	
Standard:	Reference Alliance Standards Part 4 Section 4.5 Separation	
Question:	Certificates of Occupancy for each building have been issued and are on file.	
Priority Level:	Low	
Non-Compliance Level:	1	
Description:	Certificate of occupancy for the RC Production Building, as well as the ancillary structures, were not provided.	
Source of Findings:	Document Review: Review of documents	
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:	28 Jan 2018	
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:	The RC Production Building is provided with a Class III Standpipe System, but the design drawings have not been reviewed by the Alliance.
Source of Findings:	Document Review: Review of documents, Photograph: i) Standpipe hose reel box
Suggested Plan of Action:	Prepare shop drawings and hydraulic calculations (as outlined in NFPA 14) for the installed system and submit to the Alliance for review. Should the existing standpipe system be found to be not in compliance with the design requirements of NFPA 14, modify or replace the system, as needed, for compliance. Prepare revised drawings and calculations for review by the Alliance prior to any modification or installation.
Suggested Deadline Date:	31 Dec 2017
Standard:	Does the building have a standpipe system installed where required. Alliance Standard Part 5 Section 5.4.2





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:	Notification and initiation devices for the fire alarm system have been found installed at the required locations in the factory complex, but the design drawings have not yet been submitted to the Alliance for review.
Source of Findings:	Document Review: Review of documents, Photograph: i) Detectors ii) Sounder iii) Pull-station iv) FACP
Suggested Plan of Action:	Submit all documents, including a listing document of the CFDS, to the Alliance for review.
Suggested Deadline Date:	29 Jan 2017
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:	Does the building have a fire pump?
Priority Level:	High
Non-Compliance Level:	2
Description:	An electrically driven fire pump, with a standby diesel engine driven fire pump, with capacity of 750 GPM @ 10 bars has been found installed in the factory complex. The listing documents of the fire pump have not been submitted to the Alliance for review.
Source of Findings:	Photograph: Fire pump, Visual Assessment: Facility Survey
Suggested Plan of Action:	Submit listing documents for the fire pump to the Alliance for review.
Suggested Deadline Date:	24 Dec 2017
Standard:	Alliance Standard Part 5 Fire Protection Systems
Question:	Portable fire extinguishers have been selected based on potential fire class and hazards?





Priority Level:	Medium
Non-Compliance Level:	2
Description:	Fire extinguishers have been selected based on potential fire class and hazards, and these are CO2, Dry chemical powder (ABC) installed in the facility. In total there are CO2: 32, DCP: 428. All together 460 extinguishers have been provided in the RC Production Building and the ancillary structures assessed, but no foam type fire extinguisher has been found in the substation room.
Source of Findings:	Visual Assessment: Facility Survey
Suggested Plan of Action:	Install a portable foam type fire extinguisher in the substation room in accordance with Alliance Standards.
Suggested Deadline Date:	31 Dec 2017
Standard:	NFPA 10 Chapter 5
Question:	Is signage for the standpipe system installed at required locations and on required components?
Priority Level:	Low
Non-Compliance Level:	1
Description:	No appropriate signage for the components of the Standpipe System have been noticed.
Source of Findings:	Visual Assessment: Facility Survey
Suggested Plan of Action:	Install signage at required locations and on required equipment. Signage must comply with NFPA 14.
Suggested Deadline Date:	24 Dec 2017
Standard:	Reference NFPA 14 Chapter 6

Means of Egress



Question:	Doors along the path of egress have a minimum width of 0.8 m (32 in) and have required ratings.
Priority Level:	High
Non-Compliance Level:	3
Description:	In the RC Production Building, documents confirm that all doors are atc certified and 2 hr fire rated, but this document have not yet been submitted to the Alliance for review.
Source of Findings:	Document Review: Review of documents, Photograph: i) Fire rated door installed ii) Listed tag of fire doors
Suggested Plan of Action:	Submit all documents related to the fire doors to the Alliance for review.
Suggested Deadline Date:	24 Dec 2017
Standard:	Alliance Standard Part 6 Section 6.5.6 Minimum Widths. Increased occupant loads will require a door width greater than 0.8 m.
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 are not posted throughout the facility.
Source of Findings:	Visual Assessment: Facility Survey
Suggested Plan of Action:	Post the occupant load for all assembly and production floor areas in a conspicuous space near the main exit or exit access doorway for the space in accordance with Alliance Standard Section 6.4.4.
Suggested Deadline Date:	24 Dec 2017
Standard:	Alliance Standards Part 6 Section 6.4.4 Posting of Occupant Load
Question:	Every door in a stair enclosure serving more than 5 stories is provided with re-entry unless it meets the requirements of Alliance Standards Part 6 Section 6.8.3.1.
Priority Level:	Medium
Non-Compliance Level:	1
Description:	Re-entry provisions for the exit doors in the stair enclosures have not been found in the RC Production Building.
Source of Findings:	Visual Assessment: Facility Survey






Suggested Plan of Action:	Provide re-entry to floor levels from the stairwells in accordance with Alliance Standard Section 6.8.3.
Suggested Deadline Date:	24 Dec 2017
Standard:	Alliance Standards Part 6 Section 6.8 Doors and Gates
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:	1
Description:	Stair designation signs have been found posted in Bengali only in the RC Production Building.
Source of Findings:	Photograph: Posted in Bengali language only, Visual Assessment: Facility Survey
Suggested Plan of Action:	Install signage adjacent to each stair door at the entrance from the stair to the floor indicating the stair name and the floor level in both English and Bengali in accordance with Alliance Standard Section 6.9.3.1.
Suggested Deadline Date:	31 Dec 2017
Standard:	Alliance Standard Part 6 Section 6.9 Stairs



Fire Safety Programs

Question:	Are the required number of people trained and certified in fire fighting, first aid, and rescue training by the appropriate authority.
Priority Level:	High
Non-Compliance Level:	2
Description:	The total number of people working in the facility is 1,223. As per provided records, only 40 people, approximately 3.29 % are trained in fire fighting, first aid, and rescue training.
Source of Findings:	Document Review: Review of documents
Suggested Plan of Action:	Provide training and certification for the required number of people (18% of total workers) in fire fighting, first aid, and rescue training by an appropriate authority in accordance with the Alliance Safety Training Curriculum.
Suggested Deadline Date:	28 Jan 2018
Standard:	Alliance Standard Part 13 Human Element Programs
Question:	Training programs are implemented and documented in accordance with the



	Alliance Safety Training Curriculum.	
Priority Level:	Medium	
Non-Compliance Level:	2	
Description:	No documents confirming implementation of training program in accordance with Alliance safety training curriculum have been found.	
Source of Findings:	Document Review: Review of documents	
Suggested Plan of Action:	Implement training programs and document in accordance with the Alliance Safety Training Curriculum.	
Suggested Deadline Date:	28 Jan 2018	
Standard:	Alliance Standards Part 13	
Question:	Smoking is only allowed at designated areas.	
Priority Level:	Low	
Non-Compliance Level:	3	
Description:	Smoking is prohibited in the factory complex.	
Source of Findings:	Photograph: No Smoking Sign, Visual Assessment: Facility Survey	
Suggested Plan of Action:	Smoking is prohibited in garment factory buildings or similar uses. Post "No Smoking" signs in English and Bengali at all building entrances. If the Owner designates a smoking area outside the building, information on the location of these areas shall be posted on the "No Smoking" signs.	
Suggested Deadline Date:	14 Feb 2018	
Standard:	Alliance Standards Part 13 Section 13.5 Smoking	
Question:	Fire Department pre-planning has been completed.	
Priority Level:	Low	
Non-Compliance Level:	2	
Description:	A layout plan for the fire protection system indicating pipe layout diagram, source of water (reservoir tank), fire department outlet connections (pillar hydrants), fire department inlet connections (Siamese connections) for the total complex have been found prepared, but this document has not yet been submitted to the National Fire Service & Civil Defense (FS&CD).	
Source of Findings:	Document Review: Review of documents	
Suggested Plan of Action:	Complete Fire Department pre-planning activities with the local Fire Service and Civil Defence in accordance with Alliance Standard Section 13.1.1(2).	

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Suggested Deadline Date:	24 Dec 2017	
Standard:	Alliance Standards Part 13 Section 13.1 Fire Safety Director	
Question:	A hot-work permit program has been established.	
Priority Level:	Low	
Non-Compliance Level:	1	
Description:	A hot work policy has been established, but no documents have been found regarding the hot work permit program in accordance with NFPA 51B.	
Source of Findings:	Document Review: Review of documents	
Suggested Plan of Action:	Develop a hot work permit program that must comply with the requirements of NFPA 51B.	
Suggested Deadline Date:	24 Dec 2017	
Standard:	Alliance Standards Part 13 Section 13.4 Hot Work Permit and NFPA 51B	