INITIAL FIRE ASSESSMENT REPORT (FAR)

Factory Name:	**Canvas Garments (Pvt.) Ltd**
Address:	**301, North Baizid Bostami Road, Nasirabad I/A, Canvas Building, Chittagong Chittagong Chittagong Bangladesh**
Assessor:	**Bureau Veritas**
Date:	**04 May 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:	Canvas Garments (Pvt.) Ltd
Address:	301, North Baizid Bostami Road, Nasirabad I/A, Canvas Building, Chittagong Chittagong Chittagong Bangladesh
Country:	Bangladesh
Province:	Chittagong
City:	Chittagong
Zip Code:	4211
Audit Duration:	1 Days
Re-Audit:	Re-Audit After 0 Months
Draft Report Date:	05-04-2014
Final Report Date:	06-22-2014
Are all Action Items From Previous Assessment Completed?:	N/A
Buildings in Complex:	There are 6 buildings in the factory premises out of which two are main production buildings and four are ancillary buildings. The buildings are named as: 1) Six Story Main Building, 2) Single Story shed (HR & Child care), 3) Single Story PEB shed (Tennis court), 4) Single Story shed (Embroidery), 5) Single Story shed (Hanger Keeping store), 6) Two Story RCC Building (Generator).
Is the building(s) owned or rented by the Factory:	Owned
Number of Building Levels (Stories):	Information provided below as per following format: Highest occupied floor level [Height up to roof], Stories above grade, Stories below grade, Occupied level. 1) Six Story Main Building: 15.92 m or 52.25 ft [20.5 m or 67.25 ft], 6, 0, 6. 2) Single Story shed (HR & Child care): At finished grade [3.05 m or 10 ft], 1, 0, 1. 3) Single Story PEB shed (Tennis court): At finished grade [11.12 m or 36.5 ft], 1, 0, 1. 4) Single Story shed (Embroidery): At finished grade [3.65 m or 12 ft], 1, 0, 1. 5) Single Story shed (Hanger Keeping store): At finished grade [3.65 m or 12 ft], 1, 0, 1. 6) Two Story RCC Building (Generator): 3.05 m or 10 ft [6.7 m or 22 ft], 2, 0, 2.
Approximate Building Area (SF):	Total area of buildings in the factory premises: 67001.40 sft. Building wise breakdown as follows: 1) Six Story Main Building: 55485 sft (Ground floor: 9178 sft, 1st floor: 10266 sft, 2nd floor: 10266 sft, 3rd floor: 10266 sft, 4th floor: 10266 sft, 5th floor: 5243 sft), 2) Single Story shed(HR & Child care): 901.5 sft, 3) Single Story PEB shed (Tennis court): 2196.5 sft, 4) Single Story shed (Embroidery): 6270 sft, 5) Single Story shed (Hanger Keeping store): 738.4 sft, 6) Two Story RCC Building (Generator): 1410 sft (Ground floor: 930 sft, 1st floor: 480 sft).

Date of Building Construction:	Factory personnel informed the date of last building construction as follows: 1) Six Story Main Building (Ground floor to 4th floor): Finished in 2005, 2) Single Story shed (HR & Child care): Finished in 2005, 3) Single Story PEB shed (Tennis court): Finished in 2005, 4) Single Story shed (Embroidery): Finished in 2005, 5) Single Story shed (Hanger Keeping store): Finished in 2005, 6) Two Story RCC Building (Generator): Finished in 2005.
Date of Last Building Renovation/Addition:	Factory personnel informed the date of last building addition as follows: 1) Six Story Main Building (5th floor): Finished in 2008, 2) Two Story RCC Building (Generator room, Boiler room, Compressor room): Finished in 2014.
Ancillary Structures in Complex:	1) Single Story shed (HR & Child care), 2) Single Story PEB shed (Tennis court), 3) Single Story shed (Hanger Keeping store), 4) Two Story RCC Building (Generator).
Approximate Ancillary Structures Area (SF):	1) Single Story shed (HR & Child care): 901.5 sft, 2) Single Story PEB shed (Tennis court): 2196.5 sft, 3) Single Story shed (Hanger Keeping store): 738.4 sft, 4) Two Story RCC Building (Generator): 1410 sft (Ground floor: 930 sft, 1st floor: 480 sft).
Number of Occupants:	Total number of occupants: 1025. 1) Six Story Main Building: 956 [Ground floor: 98, 1st floor: 240, 2nd floor: 148, 3rd floor: 20, 4th floor: 250, 5th floor: 200], 2) Single Story shed (HR & Child care): 10, 3) Single Story PEB shed (Tennis court): 10, 4) Single Story shed (Embroidery): 30, 5) Single Story shed (Hanger Keeping store): 1, 6) Two Story RCC Building (Generator): 18 [Ground floor: 3, 1st floor: 15].
Number of Ancillary Levels (Stories):	1) Single Story shed (HR & Child care): Building height (Highest occupied floor level): at finished grade [Height up to roof: 3.05 m or 10 ft], Stories above grade: 1, Stories below grade: 0, Occupied levels: 1, 2) Single Story PEB shed (Tennis court): Building height (Highest occupied floor level): at finished grade [Height up to roof: 11.12 m or 36.5 ft], Stories above grade: 1, Stories below grade: 0, Occupied levels: 1, 3) Single Story shed (Hanger Keeping store): Building height (Highest occupied floor level): at finished grade [Height up to roof: 3.65 m or 12 ft], Stories above grade: 1, Stories below grade: 0, Occupied levels: 1, 4) Two Story RCC Building (Generator): Building height (Highest occupied floor level): 3.05 m or 10 ft [Height up to roof: 6.7 m or 22 ft], Stories above grade: 2, Stories below grade: 0, Occupied levels: 2.
Occupancy Type:	1) Six Story Main Building: [Ground floor: H2 (Storage), G2 (Cutting), D1 (Doctor room), 1st floor: G2 (Sewing), 2nd floor: G2 (Packing), F1 (office), 3rd floor: H2 (Storage), F1 (office), 4th floor: G2 (Sewing), 5th floor: E4 (dining)], 2) Single Story shed (HR & Child care): B2 (day care), F1 (office), 3) Single Story PEB shed (Tennis court): E5 (Sports), 4) Single Story shed (Embroidery): G2 (Embroidery), H2 (Storage), 5) Single Story shed (Hanger Keeping store): H2 (Storage), 6) Two Story RCC Building (Generator): [Ground floor: K1 (Generator, Compressor, Boiler and substation), 1st floor: K1 (PDB Meter room), E4 (Prayer room)].
Construction Type:	1) Six Story Main Building: [Ground floor to 4th floor: Type 1, 5th floor: Non-rated (only ceiling)], 2) Single Story shed (HR & Child care): Non-rated, 3) Single Story PEB shed (Tennis court): Non-rated, 4) Single Story shed (Embroidery): Non-rated, 5) Single Story shed (Hanger Keeping store): Non-rated, 6) Two Story RCC Building (Generator): Type 1.
Height of Highest Occupied Floor Level Above Grade:	1) Six Story Main Building: 15.92 m or 52.25 ft, 2) Single Story shed (HR & Child care): at finished grade, 3) Single Story PEB shed (Tennis court): atfinished grade, 4) Single Story shed (Embroidery): at finished grade, 5) Single Story shed (Hanger Keeping store): at finished grade, 6) Two Story RCC Building (Generator): 3.05 m or 10 ft.

ASSESSMENT FINDINGS

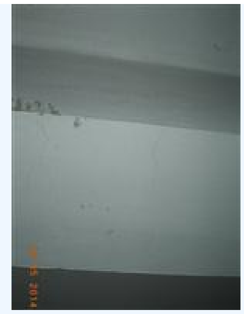
Fire Protection Construction

Question:	Are openings and penetrations through rated walls and/or assemblies protected?
Priority Level:	High
Non-Compliance Level:	3
Description:	In the main building, the walls of northwest stairway on the 5th floor have windows. On the 3rd floor, the door of the finished goods store is not fire rated. On the ground floor, the door of the fabric store is not fire rated. The stair enclosure rated wall has an opening on the 2nd floor. In the 2 story RCC building, the doors and windows of the generator room, boiler room, compressor room, and substation room on the ground floor are not fire protected. Such unprotected openings are not allowed.
Source of Findings:	Photograph: 1) North west stair windows on 5th floor of main building, 2) Opening of Bond store on ground floor of main building, 3) Generator room on ground floor of 2 story building, 4) Exit enclosure is not fire rated on 2nd floor of main building.
Suggested Plan of Action:	Provide fire resistance rated opening protections at all windows and other openings and penetrations on all the fire rated walls and floor slabs throughout the entire premises. Close these openings if they are not required.
Suggested Deadline Date:	07 Sep 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:	There are 3 stairways in the 6 story main building. One of them is an exterior stairway. Exits of the northwest stairway are fitted with fire doors without a credible certificate, and others are not. Moreover, the southwest stairway has an opening towards the embroidery shed which is not fire rated. The doors or openings on these stairways need to be 1.5 hour rated as per Clause 4.5 and 4.6.
Source of Findings:	Visual Assessment: Exit enclosure was found with collapsible gate.
Suggested Plan of Action:	Provide 2 hr fire-resistive rated construction barriers at exit enclosures. Install side-swinging, self-closing, non-lockable fire doors of 1.5 hr rating in all stairwell enclosures that swing in the direction of egress. Consult a qualified fire protection engineer to design the required rated construction barriers.
Suggested Deadline Date:	07 Sep 2014
Standard:	Reference Alliance Standards Part 4 Section 4.5 Separation

Question:	Are separations between hazards provided with fire-resistive rated construction barriers.
Priority Level:	Medium
Non-Compliance Level:	3
Description:	Office and production areas on the second floor of the main building do not have proper fire separation. These different occupancies need to be fire separated. The fabric store and production area on the ground floor do not have proper fire separation. This store needs to be fire separated according to Section 3.4.2.1.
Source of Findings:	Visual Assessment: Proper fire separation was not found at different location.
Suggested Plan of Action:	Provide fire-resistive rated construction barriers between hazard types following Table 4.4.1 of Alliance Standard or Table 4.1.1 from BNBC Part 4. Consult a qualified fire protection engineer to design the required rated construction barrier.
Suggested Deadline Date:	30 Nov 2014
Standard:	Reference Alliance Standards Part 4 Section 4.5 Separation

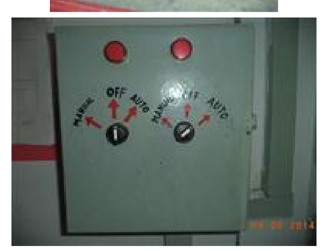
Question:	Is the fire resistance materials of structural members in good condition and free of damage?
Priority Level:	Medium
Non-Compliance Level:	
Description:	There are shrinkage cracks on the beam of the finished goods store on the third floor of the main building. Structural members of the two story RCC Building are in good condition. The prefab shed on the fifth floor of the main building and other sheds are non-rated construction. The structural members of the shed are in good condition.
Source of Findings:	Photograph: Shrinkage crack was noticed on beam of finished goods store on 3rd floor of the main building.
Suggested Plan of Action:	
Suggested Deadline Date:	
Standard:	BNBC Part 3 Chapter 3



Question:	Certificates of Occupancy for each building have been issued and are on file.
Priority Level:	Low
Non-Compliance Level:	2
Description:	No occupancy certificate was available for any building on the factory premises.
Source of Findings:	Document Review: There was no occupancy certificate for any of the buildings among the documents shown by the factory's concerned people.
Suggested Plan of Action:	Apply to CDA for the issuance of an occupancy certificate and pursue expedition of the matter.
Suggested Deadline Date:	27 Jul 2014
Standard:	Are certificates of occupancy provided for each building or ancillary structure?

Fire Protection Systems

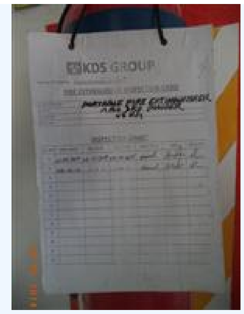
Question:	Does the building have a Standpipe System?
Priority Level:	High
Non-Compliance Level:	3
Description:	The height of the highest occupied level of the 6 story main building is 15.92m (52.25 ft) above grade. Therefore, class III standpipe systems are required. There is no standpipe system in the main and ancillary buildings meeting the requirements of NFPA 14, 20, 22 and 25. No class-I standpipe hose

	connections (65 mm) are installed at stairwells in each floor level including the occupiable roof. At the stairway, there is one 40mm hose connection (plastic type) and on the floor two 25mm hose connections (plastic type) are available. However, available water pressure is less than 4.5 bars at the highest point of building.	
Source of Findings:	Photograph: Hose connection at main building.	
Suggested Plan of Action:	Install a standpipe system at required locations designed by a qualified fire protection engineer. The system is to be compliant with the requirements of NFPA 14. The hydraulic calculations should be reviewed by the Alliance and reviewed prior to the start of work. All standpipe system installations shall be submitted for review by the Alliance for review prior to commencement of installation according to 5.4.3.2. Testing of the installation shall be conducted in accordance with NFPA 14 acceptance testing requirements. Documentation of all testing shall be submitted for review by the Alliance. Final inspection and testing of the installation shall be witnessed by the Alliance as per clause 5.4.3.3.	
Suggested Deadline Date:	07 Sep 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:	2	
Description:	A fire pump is available. However, it does not comply with the requirements of Alliance Standards and NFPA 20. Hydraulic calculations for the installed standpipe and sprinkler systems are also not available.	
Source of Findings:	Photograph: Diesel Pump with Jokey Pump.	
Suggested Plan of Action:	Install a pump dedicated for fire fighting or fire protection following the requirements of NFPA 20. Fire pump installation is to be tested for final acceptance in the presence of the Alliance and a final inspection of the installation shall be conducted prior to final acceptance. Acceptance testing of the installation shall be in accordance with NFPA 20, 22, and 24 testing requirements. Documentation of all testing shall be submitted to the Alliance for review prior to final acceptance. This pump is to be connected to an alternative power source such as a generator, and the generator is to be connected with an ATS (auto starter).	
Suggested Deadline Date:	20 Aug 2014	
Standard:	Alliance Standard Part 5 Fire Protection Systems	

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:	2
Description:	There is a fire alarm call point at the main building, and a visible alarm at the generator building is available. A call point on the 1st floor of the utility building and the playground shed are not available.
Source of Findings:	Photograph: Notification and initiation devices for the fire alarm system.
Suggested Plan of Action:	Install initiating devices and notification appliances as required by the Alliance Standard and NFPA 72. This includes electrical supervision of all valves controlling fire protection systems (sprinklers, fire pumps, water supplies, etc.). Connect devices to an automatic fire alarm and detection system for the facility. All fire alarm installations shall be submitted for review by the Alliance prior to commencement of installation.
Suggested Deadline Date:	07 Sep 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 connections are not provided to allow fire department pumper equipment to supplement the fire protection systems.
Source of Findings:	Visual Assessment: No proper fire department connection was noticed.
Suggested Plan of Action:	Provide Fire Department (Siamese) connections in accordance with Alliance Standard Section 5.5.4. Connections shall match the Fire Service and Civil Defense hose thread standard.
Suggested Deadline Date:	30 Nov 2014
Standard:	Alliance Standard Part 5 Section 5.5.4 Fire Department Connections

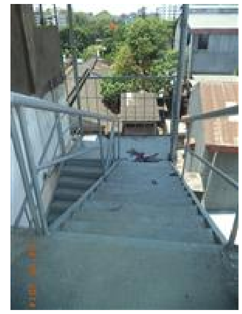
Question:	Fire extinguishers are inspected, tested, and maintained as required.	
Priority Level:	Medium	
Non-Compliance Level:	2	
Description:	Extinguishers are inspected monthly by the factory's concerned people, but no document was found in support of the annual maintenance of extinguishers by a servicing agent and the annual testing of the nozzles of CO2 extinguishers. These are required as per NFPA 10.	
Source of Findings:	Photograph: Fire extinguishers were maintained as monthly basis.	
Suggested Plan of Action:	Provide and maintain proper documentation for the inspection, testing and maintainance of fire extinguishers in accordance with NFPA 10 Chapter 7.	
Suggested Deadline Date:	18 Nov 2014	
Standard:	NFPA 10 Chapter 7	
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:	2	
Description:	An automatic fire alarm and detection system is available in the factory, but currently there is no monitoring company in Bangladesh. Fire service and civil defense are also not capable of monitoring fire alarms and detection systems of the factories.	
Source of Findings:	Photograph: Centralized control panel was available.	
Suggested Plan of Action:	Arrange for direct connection of the fire alarm system. Until such time as monitoring can be set up, a person shall be assigned to contact the fire department in the event of fire alarm activation. An annunciator shall be located in a constantly attended location (such as a fire control room) to alert this person.	
Suggested Deadline Date:	13 Jul 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:	A class III standpipe system is not installed in the building. Inspection, maintenance, and testing procedures of the installed class II standpipe and	

	hose are not documented and up to date.	
Source of Findings:	Document Review: No document regarding inspection, maintenance and testing procedure of existing standpipe and hose system was found among the documents shown by the factory personnel.	
Suggested Plan of Action:	Install a class III standpipe system at required locations designed by a qualified fire protection engineer. The system is to be compliant with the requirements of NFPA 14. Establish an inspection, maintenance, and testing program for the standpipe and hose system. The program must comply with the requirements of NFPA 25 Chapter 6 Table 6.1.1.2.	
Suggested Deadline Date:	30 Nov 2014	
Standard:	Reference NFPA 25 Chapter 6 Standpipe and Hose Systems Table 6.1.1.2	
Question:	Are inspection, maintenance, and testing procedures of the fire pump documented and up to date?	
Priority Level:	Low	
Non-Compliance Level:	2	
Description:	Inspection, maintenance, and testing procedures of the existing fire pump are not documented and up to date.	
Source of Findings:	Document Review: No document regarding inspection, maintenance and testing procedure of existing fire pump was found in the documents shown by the factory personnel.	
Suggested Plan of Action:	Install a pump dedicated for fire fighting or fire protection following the requirements of NFPA 20. Establish an inspection, maintenance, and testing program for the fire pump. The program must comply with NFPA 25.	
Suggested Deadline Date:	30 Nov 2014	
Standard:	Reference NFPA 25 Chapter 8 Fire Pumps	
Question:	Is signage for the standpipe system installed at required locations and on required components?	
Priority Level:	Low	
Non-Compliance Level:	1	
Description:	A class III standpipe system is not installed in the building. Signage for the available class II standpipe system is installed.	
Source of Findings:	Photograph: Signage for the hydrant point.	
Suggested Plan of Action:	Install a standpipe system at required locations designed by a qualified fire protection engineer. The system is to be compliant with the requirements of NFPA 14. Install required identification signs at the noted locations. Signage must comply with NFPA 14 Chapter 6.	

Suggested Deadline Date:	07 Sep 2014	
Standard:	Reference NFPA 14 Chapter 6	

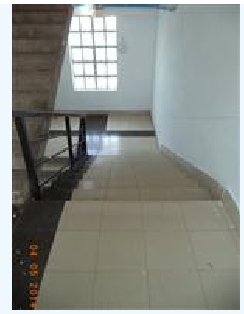
Means of Egress

Question:	Doors are not locked in the direction of egress under any conditions. All hasps, locks, slide bolts, and other locking devices have been removed where required.	
Priority Level:	High	
Non-Compliance Level:	3	
Description:	There are collapsible doors with locking arrangements at each egress location, except for the fire doors at the northwest location.	
Source of Findings:	Visual Assessment: Collapsible doors with locking arrangement were found.	
Suggested Plan of Action:	Remove all hasps, locks, slide bolts, or other locking devices at the noted locations. Doors may be locked where the latch and lock are disengaged with one motion where the occupant load does not exceed 49 persons. Turning a door handle and disengaging a lock is considered two motions.	
Suggested Deadline Date:	06 Jul 2014	
Standard:	Alliance Standards Part 6 Section 6.8 Doors and Gates	
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:	Only one stairway is provided with a fire-rated door without a credible certificate, and the other three stairways have no fire doors but the exit widths are more than 0.8 m.	
Source of Findings:	Visual Assessment: Collapsible type doors were found and width more than 0.8m.	
Suggested Plan of Action:	Provide 1.5 hr fire-protective opening assemblies in 2 hr rated exit enclosures.	
Suggested Deadline Date:	07 Sep 2014	
Standard:	Alliance Standard Part 6 Section 6.5.6 Minimum Widths. Increased occupant loads will require a door width greater than 0.8 m.	

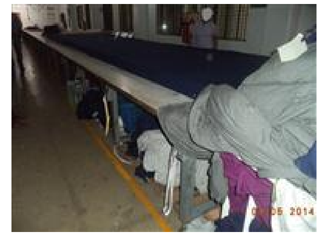
Question:	Exterior exit stairs are separated from the building with the required rating. The rating of the exterior wall shall extend 3.05 m (10 ft) beyond the ends of the stair structure.	
Priority Level:	High	
Non-Compliance Level:	3	
Description:	The external steel stairway of the 6 story main building does not have a fire separation from the building beyond 10 feet of its span as required as per clause 6.3.1.3.	
Source of Findings:	Visual Assessment: Exterior stair was available in the main building.	
Suggested Plan of Action:	Provide a fire-resistive rated assembly between the exterior exit stairs and the building up to 10 ft beyond the end of the stair to achieve the required separation. The rated assembly should be approved and designed by a qualified fire protection engineer. Alliance Standard Part 6 Section 6.3.1.2. Three stories or less requires a 1-hr rating. Four stories or more requires a 2-hr rating.	
Suggested Deadline Date:	07 Sep 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:	All doors in a means of egress are of the side-hinged swinging type.	
Priority Level:	High	
Non-Compliance Level:	2	
Description:	Some of the doors in the means of egress are a collapsible type with no fire rated door provided.	
Source of Findings:	Visual Assessment: Collapsible type exit doors were found.	
Suggested Plan of Action:	Replace all collapsible gates in means of egresses with side-hinged, swinging-type fire doors of proper width and rating.	
Suggested Deadline Date:	07 Sep 2014	
Standard:	Alliance Standards Part 6 Section 6.8 Doors and Gates	
Question:	Stairs have a minimum width of 0.9 m (35 in.).	
Priority Level:	High	
Non-Compliance Level:	2	
Description:	The width of the stairs in the main building is more than 0.9m, but the 2 story generator building has a steel stairway with a width of 0.76 m.	
Source of Findings:	Visual Assessment: Steel stair width at generator building was 0.76 m.	

Suggested Plan of Action:	Increase stair width in the generator building to the minimum of 0.9 m, or close this stairway and provide an alternate stairway that fulfills the requirement for width and maximum travel distance.	
Suggested Deadline Date:	07 Sep 2014	
Standard:	Alliance Standard Part 6 Section 6.5 Egress Width. Applies to existing construction.	
Question:	Illuminated exit signs are placed at entrances to exits and along the path of egress anywhere the continuation of egress is not obvious or there is a change in the direction of the path of travel.	
Priority Level:	Medium	
Non-Compliance Level:	3	
Description:	Illuminated exit signs are placed at entrances to exits, but along the path of egress additional exit signs or directional signs are not provided where there is a change in direction and where the continuation of egress is not obvious.	
Source of Findings:	Visual Assessment: Exit signs were in exit point only.	
Suggested Plan of Action:	Install illuminated exit signs at entrances to exits and along the path of egress anywhere the continuation of egress is not obvious or there is a change in the direction of the path of travel.	
Suggested Deadline Date:	30 Nov 2014	
Standard:	Alliance Standard Part 6 Section 6.11 Exit Signs	
Question:	All paths of egress are provided with compliant means of illumination.	
Priority Level:	Medium	
Non-Compliance Level:	2	
Description:	Paths of egress are not provided with compliant means of illumination as required.	
Source of Findings:	Visual Assessment: Illuminations at paths of egress were observed during assessment.	
Suggested Plan of Action:	Install appropriate means of illumination at the noted locations. The means of egress paths shall be illuminated at all times the building is occupied. Illumination shall be a minimum of 10 lux for all corridors, exit doors, and stairways. Aisles shall be provided with a minimum 2.5 lux.	
Suggested Deadline Date:	30 Nov 2014	
Standard:	Alliance Standards Part 6 Section 6.7 Egress Illumination and Part 10 Section 10.12 Illumination of Exit Signs and Means Of Escape	

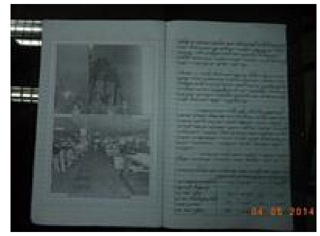
Question:	Emergency power for means of egress illumination is verified at least once per year. If battery operated lights are used, these lights are tested on a monthly basis. Functional testing of battery powered lights is provided for a minimum 90 min once per year.
Priority Level:	Medium
Non-Compliance Level:	2
Description:	Records of verifying emergency power for means of egress illumination were not found.
Source of Findings:	Document Review: No document regarding verification of emergency power for means of egress was found among the documents shown by the factory personnel.
Suggested Plan of Action:	Develop a testing and maintenance program that ensures the emergency power for all egress lighting is verified at least once per year. If battery-operated lights are used, these lights shall be tested on a monthly basis. Functional testing of battery powered lights shall be provided for a minimum 90 min once per year.
Suggested Deadline Date:	13 Jul 2014
Standard:	Alliance Standards Part 10 Section 10.12 Illumination of Exit Signs and Means Of Escape Lighting
Question:	Emergency power for exit signs is tested at least once per year. If battery operated, these lights are tested on a monthly basis. Functional testing of battery powered signs is provided for a minimum 90 min once per year.
Priority Level:	Medium
Non-Compliance Level:	2
Description:	No plan or record of conducting periodic tests for the emergency battery backup for illumination of exit signs was found.
Source of Findings:	Document Review: No related documents were found.
Suggested Plan of Action:	Develop a testing and maintenance program that ensures the emergency power for exit signs is tested at least once per year. If battery operated signs are used, these lights are tested on a monthly basis. Functional testing of battery powered signs is provided for a minimum of 90 minutes, once per year.
Suggested Deadline Date:	13 Jul 2014
Standard:	Alliance Standard Part 10 Section 10.12 Illumination of Exit Signs and Means Of Escape.

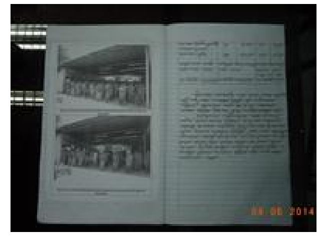
Question:	Handrails are provided on both sides of each stairway. Intermediate handrails are provided when the stair width exceeds 2.2 m (87 in.). Handrails are not mounted lower than 760 mm (30 in.) or higher than 1100 mm (44 in.).	
Priority Level:	Medium	
Non-Compliance Level:	2	
Description:	Southeast and southwest stairways have handrails on one side. The handrails are mounted at 26 inches and 30 inches, respectively. This is not allowed as per clauses 6.9.2.4. and 6.12.1.2.	
Source of Findings:	Visual Assessment: None of the stair had handrails on both sides.	
Suggested Plan of Action:	Provide handrails on both side of each stairway. Provide handrail of heights between the range 865 mm (34 in.) and 965 mm (38 in).	
Suggested Deadline Date:	30 Nov 2014	
Standard:	Alliance Standard Part 6 Section 6.9 Stairs and 6.12 Handrails and Guards	
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:	2	
Description:	The main production building has six stories, but doors are not provided with re-entry. Stair doors with re-entry are required. The buildings other than the main building are less than six stories. Therefore, re-entry doors are not required for those buildings.	
Source of Findings:	Visual Assessment: No re-entry doors were available in the main building.	
Suggested Plan of Action:	Every door in a stair enclosure serving more than 5 stories shall be provided with re-entry unless it meets the following requirements. Stair doors may be permitted to be locked from the stair (ingress) side that prevents re-entry to the floor provided that at least two floors allowing re-entry to access another exit are provided, there are not more than 4 stories intervening between re-entry floors, re-entry is allowed on the top or next to top level, re-entry doors are identified as such on the stair side, and locked doors shall identify the nearest re-entry floors. When the discharge floor is determined to be a required re-entry floor using the above requirements, re-entry does not have to be provided back into the building on this level.	
Suggested Deadline Date:	07 Sep 2014	
Standard:	Alliance Standards Part 6 Section 6.8 Doors and Gates	
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 in every assembly and production floor.	
Source of Findings:	Visual Assessment: Occupant loads were not posted for every assembly and production floor.	
Suggested Plan of Action:	Post the occupant load for every assembly and production floor in a facility in a conspicuous space near the main exit or exit access doorway for the space.	
Suggested Deadline Date:	13 Jul 2014	
Standard:	Alliance Standards Part 6 Section 6.4.4 Posting of Occupant Load	
Question:	Exit signs have appropriate illumination levels and contrasting graphics.	
Priority Level:	Low	
Non-Compliance Level:	2	
Description:	Some exit signs do not have the appropriate illumination level and contrasting graphics.	
Source of Findings:	Visual Assessment: Exit signs do not have appropriate illumination.	
Suggested Plan of Action:	Make sure all required exit signs are illuminated continuously at all times. Exit signs may be illuminated either by lamps external to the sign or by lamps contained within the sign. The source of illumination shall provide not less than 50 lux at the illuminated surface with a contrast of not less than 0.5. Approved self-luminous signs which provide evenly illuminated letters having a minimum luminance of 0.2 cd/m2 may also be used.	
Suggested Deadline Date:	30 Nov 2014	
Standard:	Alliance Standard Part 10 Section 10.12.1 Exit Signs	
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:	2	
Description:	Floor level and stair name or designation were not mentioned. Floor level was not mentioned in Bengali as well.	
Source of Findings:	Visual Assessment: No signs were found posted with floor level and stair name.	
Suggested Plan of Action:	Install signage adjacent to each stair door indicating the stair name and the floor level at the noted locations in both Bengali and English.	

Suggested Deadline Date:	13 Jul 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:	3	
Description:	Fabrics stored underneath the cutting tables of the cutting section on the ground floor of the main building.	
Source of Findings:	Visual Assessment: Fabrics available underneath the cutting table.	
Suggested Plan of Action:	Remove all combustibles stored underneath the cutting tables at the noted locations.	
Suggested Deadline Date:	30 Jul 2014	
Standard:	Alliance Standard Part 17 Section 13.7.2 Cutting tables.	
Question:	An emergency evacuation plan has been developed and communicated to all employees.	
Priority Level:	Medium	
Non-Compliance Level:	2	
Description:	Through the interviews, it was noted that the workers are aware of the evacuation procedure upon the commencment of the alarm. However, no procedure document defining the evacuation process was available.	
Source of Findings:	Visual Assessment: A developed evacuation plan was unavailable.	
Suggested Plan of Action:	Develop an emergency evacuation plan which includes all components required by the Alliance Standards and communicate the plan to all employees.	
Suggested Deadline Date:	13 Jul 2014	
Standard:	Alliance Standards Part 13 Section 13.1 Fire Safety Director	

Question:	Fire Drills are conducted at required intervals based on building use type.
Priority Level:	Medium
Non-Compliance Level:	2
Description:	Fire drills are conducted quarterly in all buildings but not under the direction of a Fire Safety Director. This does not meet the requirements of Alliance Standard and BNBC Part 4 Appendix A Page 10457.
Source of Findings:	Visual Assessment: Fire drills conducted on a monthly basis but not under a Fire Safety Director.
Suggested Plan of Action:	Fire drills are to be conducted on a quarterly basis for all garment facilities. Fire drills shall be conducted under the direction of a Fire Safety Director. All requirements for fire drills shall be conducted in accordance with BNBC Part 4 Appendix A.
Suggested Deadline Date:	13 Jul 2014
Standard:	Alliance Standards Part 13 Section 13.3 Fire Drills

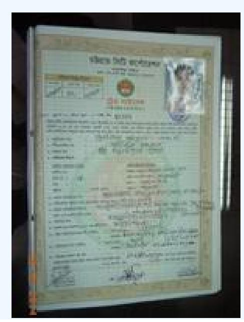


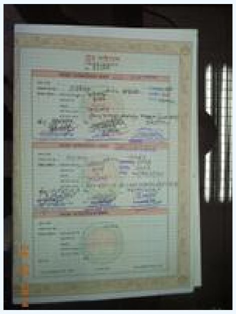
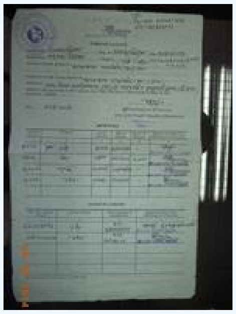
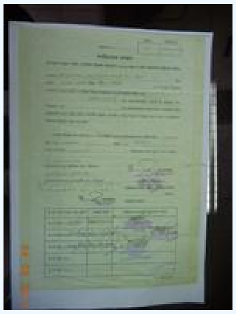
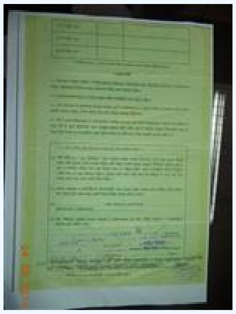


Question:	Training programs are implemented and documented in accordance with the Alliance Safety Training Curriculum.
Priority Level:	Medium
Non-Compliance Level:	2
Description:	No document of any training program in accordance with the Alliance Safety Training Curriculum found.
Source of Findings:	Document Review: No documents regarding Alliance safety training were available.
Suggested Plan of Action:	Impart training in accordance with Alliance Safety Training Curriculum and keep records with proper documentation as per Alliance Standards Part 13.
Suggested Deadline Date:	13 Jul 2014
Standard:	Alliance Standards Part 13

Question:	Are there additional areas of non-compliance to report?
Priority Level:	Medium
Non-Compliance Level:	1
Description:	An electrical connection is available in the store on the ground floor of the main building.
Source of Findings:	Visual Assessment: Electrical connection was found in store.
Suggested Plan of	The electrical connection needs to be removed from the store.

Action:		
Suggested Deadline Date:	31 Jul 2014	
Standard:	Not Applicable	
Question:	A Fire Safety Director position has been filled.	
Priority Level:	Low	
Non-Compliance Level:	2	
Description:	No viable documentation and physical presence of Fire Safety Director was noted. However, factory has stated that they have a designated person for this.	
Source of Findings:	Document Review: No documents was found.	
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 out the required duties. The duties of the Fire Safety Director shall include the following: (1) Establish internal and external rally points and communicate to all employees in the building. (2) Fire department pre-planning. (3) Conduct safety inspections as outlined in Alliance standard 13.9. (4) Ensure all testing of fire protection equipment is conducted in accordance with Alliance standard 13.10.	
Suggested Deadline Date:	30 Nov 2014	
Standard:	Alliance Standards Part 13 Section 13.1 Fire Safety Director	
Question:	Fire Department pre-planning has been completed.	
Priority Level:	Low	
Non-Compliance Level:	2	
Description:	Fire department pre-planning was not found.	
Source of Findings:	Document Review: No documents regarding Fire Department pre-planning were found.	
Suggested Plan of Action:	Complete fire department pre-planning activities with the local Fire Service and Civil Defense.	
Suggested Deadline Date:	13 Jul 2014	
Standard:	Alliance Standards Part 13 Section 13.1 Fire Safety Director	
Question:	A written housekeeping policy is established and enforced.	
Priority Level:	Low	
Non-Compliance Level:	2	

Description:	A written housekeeping policy was not found.	
Source of Findings:	Document Review: Housekeeping related documents were not found.	
Suggested Plan of Action:	Establish written corporate and plant policies on housekeeping to ensure scheduled cleaning for floor, wall, ceiling, supply, and return air ventilation systems. Promptly reschedule skipped cleanings. Provide a documented line of authority for authorizing a cleaning delay and rescheduling. As a general rule the maximum tolerable deposit thickness for loose fluffy lint is 13 mm (½ in.) over a maximum of 46.5 m2 (500 ft2). Limit dense deposits to 6 mm (¼ in.) and oil saturated deposits to 3.2 mm (⅛ in.).	
Suggested Deadline Date:	22 Feb 2015	
Standard:	Alliance Standards Part 13 Section 13.6 Housekeeping	
Question:	A hot-work permit program has been established.	
Priority Level:	Low	
Non-Compliance Level:	2	
Description:	A hot-work permit program is not established.	
Source of Findings:	Document Review: No hot-work permit could be presented by the factory personnel.	
Suggested Plan of Action:	Develop a hot-work permit program. The program must comply with the requirements of NFPA 51B. In general, this program should address the process of request and approval by authorities, necessary checks prior to approval, standby fire watch and fire fighting equipment, sounding of alarm procedures, duration and expiry of permit and the re-approval procedure, etc.	
Suggested Deadline Date:	30 Nov 2014	
Standard:	Alliance Standards Part 13 Section 13.4 Hot Work Permit and NFPA 51B	
Question:	Are all applicable permits up to date including Fire License & Boiler License.	
Priority Level:	Low	
Non-Compliance Level:	2	
Description:	A BERC certificate for the 440 KW capacity generator is not available. A BERC certificate is available for only 230KW capacity.	
Source of Findings:	Photograph: 1) Trade License, 2) Trade License, 3) Factory License, 4) BERC	

	License, 5) Fire License, 6) Fire License.	    
Suggested Plan of Action:	Apply to BERC for a waiver certificate.	
Suggested Deadline Date:	13 Jul 2014	
Standard:	Alliance Standard Part 13 Human Element Programs	