INITIAL FIRE ASSESSMENT REPORT (FAR)

Factory Name:	**TAMISHNA FASHION WEAR LTD.**
Address:	**PLOT 247, BHADAM, P.O-NISHATNAGAR Tongi, Gazipur Gazipur Dhaka Bangladesh**
Assessor:	**Bureau Veritas**
Date:	**02 Jun 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:	TAMISHNA FASHION WEAR LTD.
Address:	PLOT 247, BHADAM, P.O-NISHATNAGAR Tongi, Gazipur Gazipur Dhaka Bangladesh
Country:	Bangladesh
Province:	Dhaka
City:	Gazipur
Zip Code:	1711
Audit Duration:	1 Days
Re-Audit:	Re-Audit After 0 Months
Draft Report Date:	06-03-2014
Final Report Date:	06-24-2014
Are all Action Items From Previous Assessment Completed?:	N/A
Buildings in Complex:	There are 6 buildings in the factory premises out of which four are main production buildings and two are ancillary buildings. The buildings are named as: 1) Seven story RCC main production building, 2) Four story RCC wash building, 3) Five story RCC store building, 4) Seven story RCC new building, 5) Single story RCC utility building, 6) Single story wastage store shed.
Is the building(s) owned or rented by the Factory:	Owned
Number of Building Levels (Stories):	1) Seven story RCC main production building: Building height (Highest occupied floor level): 19.05 m or 62.49 ft [Height up to roof: 22.10 m or 72.49 ft], Occupied levels: 7, 2) Four story RCC wash building: Building height (Highest occupied floor level): 10.59 m or 34.75 ft [Height up to roof: 13.64 m or 44.75 ft], Occupied levels: 4, 3) Five story RCC store building: Building height (Highest occupied floor level): 12.20 m or 40 ft [Height up to roof: 15.24 m or 50 ft], Occupied levels: 5, 4) Seven story RCC new building: Building height (Highest occupied floor level): 18.22 m or 59.75 ft [Height up to roof: 21.34 m or 70 ft], Occupied levels: 7, 5) Single story RCC utility building: Building height (Highest occupied floor level): 30 cm or 1 ft above grade [Height up to roof: 5.49 m or 18 ft], Occupied levels: 1, 6) Single story wastage store shed: Building height (Highest occupied floor level): 15 cm or 0.5 ft above grade [Height up to roof: 4.27 m or 14 ft], Occupied levels: 1.
Approximate Building Area (SF):	Total area of all buildings in the factory premises: 221040.30 sft. Building wise breakdown as follows: 1) Seven story RCC main production building: 107890.50 sft (Ground floor: 14665.88 sft, 1st floor to 6th floor: 15537.44 sft each), 2) Four story RCC wash building: 26895.89 sft (Ground floor: 6390.74 sft, 1st floor to 3rd floor: 6835.05 sft each), 3) Five story RCC store building: 30225.75 sft (Ground floor: 4646.60 sft, 1st floor to 3rd floor: 6835.05 sft each), 4th floor: 5074 sft), 4) Seven story RCC new building: 48528.16 sft (Ground floor: 6268.36 sft, 1st floor to 6th floor: 7043.3 sft each), 5) Single story RCC utility building: 2500 sft, 6) Single story

	wastage store shed: 5000 sft.
Date of Building Construction:	Factory personnel informed the date of construction as follows: 1) Seven story RCC main production building: Finished in December-2003, 2) Four story RCC wash building: Finished in December-2006, 3) Five story RCC store building: Finished in May-2011, 4) Seven story RCC new building: Finished in May-2011, 5) Single story RCC utility building: Finished in May-2011, 6) Single story wastage store shed: Finished in May-2011.
Date of Last Building Renovation/Addition:	Factory personnel informed the date of last building renovation as follows: 1) Seven story RCC main production building: Finished in May-2011, 2) Four story RCC wash building: Finished in May-2011.
Ancillary Structures in Complex:	1) Single story RCC utility building, 2) Single story wastage store shed.
Approximate Ancillary Structures Area (SF):	1) Single story RCC utility building: 2500 sft, 2) Single story wastage store shed: 5000 sft.
Number of Occupants:	Total number of occupants: 1887. 1) Seven story RCC main production building: 1210 (Ground floor: 20, 1st floor: 300, 2nd floor: 280, 3rd floor: 300, 4th floor: 310, 5th floor: 0, 6th floor: 0), 2) Four story RCC wash building: 99 (Ground floor: 2, 1st floor: 57, 2nd floor: 20, 3rd floor: 20), 3) Five story RCC store building: 135 (Ground floor: 40, 1st floor: 95, 2nd floor: 0, 3rd floor: 0, 4th floor: 0), 4) Seven story RCC new building: 442 (Ground floor: 65, 1st floor: 120, 2nd floor: 110, 3rd floor: 0, 4th floor: 60, 5th floor: 87, 6th floor: 0), 5) Single story RCC utility building: 1, 6) Single story wastage store shed: 0.
Number of Ancillary Levels (Stories):	1) Single story RCC utility building: Building height (Highest occupied floor level): 30 cm or 1 ft above grade [Height up to roof: 5.49 m or 18 ft], Stories above grade: 1, Stories below grade: 0, Occupied levels: 1, 2) Single story wastage store shed: Building height (Highest occupied floor level): 15 cm or 0.5 ft above grade [Height up to roof: 4.27 m or 14 ft], Stories above grade: 1, Stories below grade: 0, Occupied levels: 1.
Occupancy Type:	Four main production buildings are connected by construction joints and every stairs of all four buildings are accessible from any floor. So, connected floors are considered as single floor for occupancy type description. 1. Connected four main production buildings: [Ground floor: F1 (Office), D1 (Medical Center), B2 (Child Care), J2 (Chemical Store), G2 (Yarn Store), G2 (Embroidery Section), F1 (Fire Control Room), K (Generator, Boiler), 1st floor: G2 (Washing), J2 (Sub store for Wash Chemical), G2 (Spot removing room), G2 (Packing, sewing, finishing), H2 (Finished goods store), 2nd floor: G2 (Sewing, Finishing, Iron Section), G2 (Spot removing room), G2 (Packing), H2 (Finished good store). 3rd floor: E3 (Mosque), G2 (Zipper section, Light checking, Trimming), F1 (Office), 4th floor: G2 (Linking section, Linking distribution), H2 (Carton Storage, Yarn store), 5th floor: G2 (Knitting Inspection), 6th floor: E4 (Dining), G2 (Knitting), K (Water treatment plant)],
Construction Type:	1) Seven story RCC main production building: Type 1, 2) Four story RCC wash building: Type 1, 3) Five story RCC store building: Type 1, 4) Seven story RCC new building: Type 1, 5) Single story RCC utility building: Type 1, 6) Single story wastage store shed: Non-rated.
Height of Highest Occupied Floor Level Above Grade:	1) Seven story RCC main production building: 19.05 m or 62.49 ft, 2) Four story RCC wash building: 10.59 m or 34.75 ft, 3) Five story RCC store building: 12.20 m or 40 ft, 4) Seven story RCC new building: 18.22 m or 59.75 ft, 5) Single story RCC utility building: 0.3 m or 1 ft, 6) Single story wastage store shed: 0.15 m or 0.5 ft.

ASSESSMENT FINDINGS

Fire Protection Construction

Question:	Is each floor separated with a fire-resistive rated construction barrier?
Priority Level:	High
Non-Compliance Level:	3
Description:	The slab thickness is 6 inch according to structural drawing. Fire resistance of 6 inch RCC slab is 2.5 hour. From physical measurement, slab thickness was found to be 7.5 inch with finishing, which is capable of providing approximately 3.5 hour fire resistance. According to Alliance Standard Section 4.4 or BNBC Table 3.3.1 (pg-10383) , slab for a Type 1 building needs to have 3 hour fire rating. From Alliance Standard Section 4.4.1 or BNBC Table 4.1.1 (pg-10409), fire rating of 6 inch and 8 inch RC slabs are 2.5 hour and 3.75 hour respectively. Therefore, the slab may be considered to have required fire rating to separate the floors. But Slabs are penetrated for installing electrical cables. The penetrations are not sealed or protected following the requirement of Alliance Standard 4 Section 4.7.
Source of Findings:	Photograph: Penetration through slab of building-1.
Suggested Plan of Action:	Seal the penetrations with proper fire-resistive sealants.
Suggested Deadline Date:	25 Sep 2014
Standard:	Reference Alliance Standards Part 4 Section 4.5 Separation

Question:	Are exit enclosures provided with fire-resistive rated construction barriers?
Priority Level:	High
Non-Compliance Level:	3
Description:	There are 6 stairs in the main building (Connected 4 buildings). None of the stairs are fire proof. No fire door is installed at exits of any floor. Collapsible doors are found in exit enclosure. Non-rated glass window of production floor is within 3 ft distance of stair window at one exit enclosure.
Source of Findings:	Visual Assessment: None of the stairs are fire proof. No fire door is installed at exits of any floor. There are glass windows on one enclosure.
Suggested Plan of Action:	Provide 2 hr fire-resistive rated construction barriers at exit enclosures. Fit outward opening, side-swinging, self-closing, non-lockable fire doors of 1.5 hr rating in all stairwell enclosures. Consult a qualified fire protection engineer to design the required rated construction barriers.
Suggested Deadline Date:	25 Aug 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 is one cargo lift that connects 6 stories. Shaft enclosure connecting 6 stories does not have fire-resistance rating of 2 hr as required in accordance with Alliance Standards Part 4 Section 4.5.7. And there is on passenger lift connecting 6 stories and lift door is near production floor. No certificate regarding fire rating of lift door was found.	
Source of Findings:	Photograph: Photo:-1 Unprotected shaft enclosure. Photo:-2 Lift door near production floor., Visual Assessment: Shaft enclosure connecting 6 stories does not have fire-resistance rating of 2 hr.	
Suggested Plan of Action:	Provide a shaft enclosure of required rating by constructing the enclosure with rated material of required thickness. Protect the openings of shaft enclosure by providing rated opening protectives.	
Suggested Deadline Date:	25 Sep 2014	
Standard:	Reference Alliance Standards Part 4 Section 4.5.7.1 through 4.5.7.3	
Question:	Are openings and penetrations through rated walls and/or assemblies protected?	
Priority Level:	High	
Non-Compliance Level:	1	
Description:	All door openings of rated wall or assemblies are not protected as per Alliance Standard section 4.6 all over the buildings. Non rated opening is available in generator and boiler room. Production floor is within 5 ft from that non-rated opening.	
Source of Findings:	Photograph: Opening through rated wall of generator room., Visual Assessment: Non-rated opening found in some rated walls.	
Suggested Plan of Action:	Provide opening protectives at all windows and other openings on all the fire rated wall across the entire premises. If these openings are not required, close these.	
Suggested Deadline Date:	25 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 separations between hazards provided with fire-resistive rated construction barriers.
Priority Level:	Medium
Non-Compliance Level:	2
Description:	In-process goods are kept haphazardly in various floors not maintaining the dimensions without following the requirement for miscellaneous store (area 250 sft, height 8 ft, separation from adjacent area 10 ft) as per clause 3.4.2.1.6. There is a wash chemical sub-store at 1st floor with glass and aluminum partition with washing section. Photograph of glass and aluminum partition wall and inside stored chemical provided. There are non-rated windows in generator and boiler room and production floor windows are within 4.5 ft distance. At 2nd floor combustibles are stored near SDB, and grill partition provided.
Source of Findings:	Photograph: Photo 1: Pic-1: In-process goods kept haphazardly, Pic-3: Utility and production without proper fire separation, Photo 2: Combustibles stored near SDB, Photo 3: View of outside and inside of chemical store.
Suggested Plan of Action:	Keep the in-process goods in floors maintaining a maximum area of storage 250 sft, height 8 ft, separation from adjacent area 10 ft. Separate occupancies with rated construction per Section 3.4.2.1. 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:	18 Dec 2014
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:	3
Description:	No occupancy certificate available for any building in the factory premises.
Source of Findings:	Document Review: No occupancy certificate found for any building.
Suggested Plan of Action:	Apply to Rajuk for issuance of occupancy certificate and pursue the matter to expedite.
Suggested Deadline Date:	14 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:	Height of the highest occupied floor of the main building is 19.05 m (62.49 ft)above grade i.e. above 10 m (33 ft) but lower than 23 m (75 ft). Therefore, class III standpipe system needs to be installed throughout the building at required stairwells as per Alliance Standard 5.4.2 and NFPA 14. But only class II stand pipe system is installed in the building. Class II standpipe hose connections (40 mm) are installed in the floors. There is no hydraulic design for the installed system. However, at roof hose pressure was negligible. Water is supplied to standpipe system from over head tank.
Source of Findings:	Visual Assessment: Visual assessment found Class II standpipe hose connections (40 mm) are installed in the floors.
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 Alliance and review to be completed prior to start of work.
Suggested Deadline Date:	25 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:	3
Description:	There is no fire pump in the factory premises to supply water in case of fire incidence.
Source of Findings:	Visual Assessment: No fire pump found.
Suggested Plan of Action:	Submit plan, product data and hydraulic calculations to Alliance before purchase and construction. Arrange water storage tank according to NFPA 22.Install a pump dedicated for firefighting or fire protection following the requirements of NFPA 20 as mentioned in Alliance Standard Section 5.5.1. 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 24 testing requirements. Documentation of all testing shall be submitted to the Alliance for review prior to final acceptance by the Alliance.
Suggested Deadline Date:	22 Oct 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:	Pull stations at egress points is sufficient. Smoke and heat detectors are inadequate in number.
Source of Findings:	Visual Assessment: Install strobes and horns for complete notification. Automatic area smoke detectors are required throughout G2 buildings per section 5.7.5.6.
Suggested Plan of Action:	Provide adequate number of detectors based on coverage of a detector specified by manufacturer and as per NFPA 72. Install strobes and horns for complete notification. Automatic area smoke detectors are required throughout G2 buildings per Section 5.7.3.6.
Suggested Deadline Date:	24 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

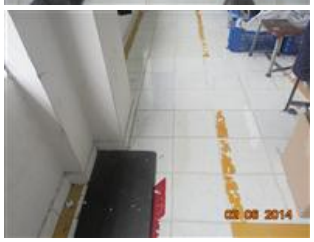
Question:	Are fire department connections provided and clearly identified for the Fire Protection Systems?
Priority Level:	Medium
Non-Compliance Level:	3
Description:	Fire department (Siamese) inlet connection is provided but not as per the requirement of Alliance Standard Part 5 Section 5.5.4, and not clearly identified for the fire protection system. Fire department outlet connection is not installed.
Source of Findings:	Photograph: Existing inlet connection.
Suggested Plan of Action:	Install fire department connections where required and in compliance with the Standard. According to Alliance Standard 5.5.4 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:	18 Dec 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:	Fire extinguishers are inspected, tested and maintained every month but not in accordance with NFPA 10 Chapter 7 as demanded in Alliance Standard Part 13 Section 13.10.3.	
Source of Findings:		
Suggested Plan of Action:	Fire extinguishers are to be inspected, tested, and maintained in accordance with NFPA 10 Chapter 7 as demanded in Alliance Standard Part 13 Section 13.10.3.	
Suggested Deadline Date:	18 Dec 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:	1	
Description:	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 is not also capable of monitoring fire alarm and detection systems of the factories.	
Source of Findings:		
Suggested Plan of Action:	Arrange for direct connection of the fire alarm system to a central monitoring station or Fire Service and Civil Defense as per Alliance Standard Part 5 Section 5.7.5 Monitoring. Until that time that monitoring can be set up, arrange a monitoring system using own central detection system and personnel. 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:	31 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:	Class III standpipe system is not installed in the building. There is no test and maintenance plan and record for testing and maintaining of standpipe system as per NFPA 25.	

Source of Findings:	Document Review: No documents found regarding, inspection, maintenance and testing of standpipe system.	
Suggested Plan of Action:	Install 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. Then establish an inspection, maintenance, and testing program for the standpipe and hose system. Program must comply with the requirements of NFPA 25 Chapter 6 Table 6.1.1.2.	
Suggested Deadline Date:	18 Dec 2014	
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:	Class III standpipe system is not installed in the building. Signage for the available class II standpipe system is not installed.	
Source of Findings:	Visual Assessment: Signage for the available class II standpipe system is not installed.	
Suggested Plan of Action:	Install 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. Install required identification signs at the noted locations. Signage must comply with NFPA 14 Chapter 6.	
Suggested Deadline Date:	14 Aug 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, grill sliding doors, wooden doors and steel leaf doors with locking arrangement at each egress locations. This violates Alliance Standard Part 6 Section 6.8.2.	
Source of Findings:	Visual Assessment: Locking arrangements are found in means of egress.	
Suggested Plan of Action:	Remove all hasps, locks, slide bolts, or other locking devices at the noted locations. According to section 6.8.2.2 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. According to section 6.8.2.2 doors may be provided with locking hardware from the ingress side provided that a panic bar is installed on any door with an occupant load exceeding 49 persons. The re-entry provisions of section 6.8.3 must be met.	
Suggested Deadline Date:	17 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:	Door widths are more than 0.8 m, but all doors along the path of egress (i.e. doors leading to staircases) at all floors are not fire door, do not have rating of 1.5 hour as required in accordance with section 6.3.1.2.2 and 4.6.	
Source of Findings:	Visual Assessment: No fire door is installed in the factory buildings.	
Suggested Plan of Action:	Install approved fire rated doors that are listed, permanently labeled, automatic-closing, in compatible fire rated frames with latching hardware.	
Suggested Deadline Date:	25 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:	All doors in a means of egress are of the side-hinged swinging type.	
Priority Level:	High	
Non-Compliance Level:	3	
Description:	Some of the doors in the means of egress are collapsible and sliding type and some are open (no door provided). This violates Alliance Standard Part 6 Section 6.8.1.	
Source of Findings:	Visual Assessment: All doors in a means of egress are not side-hinged swinging type. Photo of collapsible gate at egress point is attached.	
Suggested Plan of Action:	Replace all collapsible, sliding, roll-down gates and shutters i.e. non-compliant doors and frames in means of egresses with side-hinged swinging type, automatic-closing, listed and approved doors of proper width and rating in compatible fire rated frames with latching panic hardware.	
Suggested Deadline Date:	25 Sep 2014	
Standard:	Alliance Standards Part 6 Section 6.8 Doors and Gates	

Question:	Exit access corridors serving an occupant load exceeding 30 are separated by walls having a fire-resistance rating of 1 hr.	
Priority Level:	High	
Non-Compliance Level:	2	
Description:	There are unprotected glass windows at walls of corridors on ground floor to 5th floor, which are not fire protected as required by Alliance Standard Part 6 Section 6.3.1.1.	
Source of Findings:	Visual Assessment: Some corridors found which are not fire rated.	
Suggested Plan of Action:	Provide fire-resistive rated assemblies at the required exit access corridors. The rated assembly should be approved and/or designed by a qualified fire protection engineer. Exit access corridors serving an occupant load exceeding 30 are to be separated by walls having a fire resistance rating of 1 hr in accordance with 4.5.	
Suggested Deadline Date:	25 Sep 2014	
Standard:	Alliance Standard Part 6 Section 6.3 and Part 4 Section 4.5. Does not apply if an automatic sprinkler system is installed throughout the building.	
Question:	Aisles are provided with the minimum unobstructed clear width of 0.9 m (36 in) based on occupant loads.	 
Priority Level:	High	
Non-Compliance Level:	1	
Description:	Some aisle width at 4th floor found 0.76 m, 0.71 m and some aisles are obstructed with columns which violates Alliance Standard Part 6 Section 6.5.1.	
Source of Findings:	Photograph: Photo-1 : Aisles width is 30 inch. Photo-2 : Aisles obstructed by column., Visual Assessment: Some aisles width found lower than 0.90 m.	
Suggested Plan of Action:	Remove existing aisle marking and draw new marking fulfilling the minimum aisle width requirement. Relocate the machines accordingly if necessary.	
Suggested Deadline Date:	25 Sep 2014	
Standard:	Higher occupancy loads will require a greater width to accommodate the increased load. Alliance Standard Part 6 Section 6.5 Egress Width	
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:	3	
Description:	The main production building has 7 stories. Stair doors with re-entry are	

	required in at least 2 floors according to Alliance Standards Part 6 Section 6.8.3. No fire door is installed throughout all the factory buildings.
Source of Findings:	Visual Assessment: No fire door is installed throughout all the factory buildings.
Suggested Plan of Action:	Provide re-entry doors at 6th and 1st floor or at 5th floor only. 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 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, reentry doors are identified as such on the stair side, and locked doors shall be identified as to 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:	25 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:	2
Description:	Occupant loads are not posted in any assembly and production floor as demanded in Alliance Standard Part 6 Section 6.4.4.
Source of Findings:	Visual Assessment: Occupant loads are not posted in any assembly.
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:	31 Jul 2014
Standard:	Alliance Standards Part 6 Section 6.4.4 Posting of Occupant Load
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:	Record of verifying emergency power for means of egress illumination was not found which is required as per Alliance Standards Part 10 Section 10.12.2.3.
Source of Findings:	Document Review: No record found regrading verification of emergency power

	for means of egress.	
Suggested Plan of Action:	Develop a testing and maintenance program that ensures the operation of all exist signs is verified at least once per year. If battery-operated signs are used, these lights shall be tested on a monthly basis. Functional testing of battery powered signs shall be provided for a minimum 90 min once per year	
Suggested Deadline Date:	31 Jul 2014	
Standard:	Alliance Standards Part 10 Section 10.12 Illumination of Exit Signs and Means Of Escape Lighting	
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:	2	
Description:	Illuminated exit signs are placed at entrances to exits, but along the path of egress additional exit sign or directional signs are not provided where there is a change in direction and where the continuation of egress is not obvious. This condition fails to satisfy requirements stated in Alliance Standard Part 6 Section 6.11.	
Source of Findings:	Visual Assessment: Illuminated exit signs are not placed where there is a change in the direction of the path of travel.	
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:	18 Dec 2014	
Standard:	Alliance Standard Part 6 Section 6.11 Exit Signs	
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:	Record of verifying emergency power for means of egress illumination was not found which is required as per Alliance Standards Part 10 Section 10.12.2.3.	
Source of Findings:	Document Review: No record found regrading verification of emergency power for means of egress.	
Suggested Plan of Action:	Develop a testing and maintenance program that ensures the operation of all exist signs is verified at least once per year. If battery-operated signs are used, these lights shall be tested on a monthly basis. Functional testing of battery	

	powered signs shall be provided for a minimum 90 min once per year	
Suggested Deadline Date:	31 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:	1	
Description:	Out of six stairways handrails are provided on both sides in five stairways and on one stairway of building 3 handrail is not provided on both sides of stairway. Handrails are not mounted lower than 760 mm (30 in.) or higher than 1100 mm (44 in.).	
Source of Findings:	Visual Assessment: Handrails are not provided on both sides of each stairway.	
Suggested Plan of Action:	Provide handrails on both side of stairway of building 3.	
Suggested Deadline Date:	18 Dec 2014	
Standard:	Alliance Standard Part 6 Section 6.9 Stairs and 6.12 Handrails and Guards	
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:	Stair designation signs are not provided at each floor entrance from the stair to the floor in English and Bengali.	
Source of Findings:	Visual Assessment: No stair designation signs available. Photo of floor level attached.	
Suggested Plan of Action:	Install signage adjacent to each stair door indicating the stair name at floor entrances in both Bengali and English.	
Suggested Deadline Date:	31 Jul 2014	
Standard:	Alliance Standard Part 6 Section 6.9 Stairs	
Fire Safety Programs		
Question:	An emergency evacuation plan has been developed and communicated to all	

	employees.	
Priority Level:	Medium	
Non-Compliance Level:	3	
Description:	Though through the interview, it was noted that the workers are aware of the evacuation procedure upon commencing of the alarm. However, no procedure defining evacuation process was available.	
Source of Findings:	Worker Interviews: Through worker interviews it has been found that no procedure defining evacuation process was available.	
Suggested Plan of Action:	Develop an emergency evacuation plan which includes duties and responsibilities of various people/groups, interfacing between groups and fire brigade, headcount and identification of trapped victims, physically disabled people and their rescue, etc. and all components required by the Alliance Standards and communicate the plan to all employees. The evacuation plan shall include provisions to assist physically disabled persons. A list of all employees with physical disabilities shall be kept by the Fire Service Director.	
Suggested Deadline Date:	31 Jul 2014	
Standard:	Alliance Standards Part 13 Section 13.1 Fire Safety Director	
Question:	Training programs are implemented and documented in accordance with the Alliance Safety Training Curriculum.	
Priority Level:	Medium	
Non-Compliance Level:	3	
Description:	No document of any training program in accordance with the Alliance Safety Training Curriculum found.	
Source of Findings:	Document Review: No document of any training program in accordance with the Alliance Safety Training Curriculum found.	
Suggested Plan of Action:	Implement training program with proper documentation in accordance with the Alliance Safety Training Curriculum on fire safety.	
Suggested Deadline Date:	31 Jul 2014	
Standard:	Alliance Standards Part 13	

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 monthly in all buildings but not under the direction of a Fire Safety Director. This does not meet the requirements of Alliance Standard Part 13 Section 13.2 and BNBC Part 4 Appendix A Page 10457.
Source of Findings:	Document Review: Fire drills are conducted monthly in the factory.
Suggested Plan of Action:	Fire drills are to be conducted on a quarterly basis as outlined in BNBC Part 4 Appendix A for all garment facilities. Fire drills shall be conducted under the direction of a Fire Safety Director. All other requirements for fire drills shall be conducted in accordance with BNBC Part 4 Appendix A.
Suggested Deadline Date:	31 Jul 2014
Standard:	Alliance Standards Part 13 Section 13.3 Fire Drills

Question:	A Fire Safety Director position has been filled.
Priority Level:	Low
Non-Compliance Level:	3
Description:	No viable documentation or physical presence of Fire Safety Director was noted.
Source of Findings:	Document Review: No documentation related to fire safety director position 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 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:	18 Dec 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:	3
Description:	Written house keeping policy is not established
Source of Findings:	Document Review: Written house keeping policy is not established.

Suggested Plan of Action:	According to Alliance Standard,Part-13,Section-13.6, 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:	12 Mar 2015	
Standard:	Alliance Standards Part 13 Section 13.6 Housekeeping	
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 fire department pre-planning documentation was found.	
Suggested Plan of Action:	Complete fire department pre-planning activities with the local Fire Service and Civil Defense in accordance with Alliance Standard, Part-13, Section-13.1.1(2).	
Suggested Deadline Date:	31 Jul 2014	
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:	2	
Description:	Hot work permit program has not been established.	
Source of Findings:	Document Review: Hot work permit program is not established.	
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 process of request and approval authorities, necessary checks prior approval, standby fire watch and fire fighting equipment, sounding of alarm procedure, duration and expiry of permit and reapproval procedure etc.	
Suggested Deadline Date:	18 Dec 2014	
Standard:	Alliance Standards Part 13 Section 13.4 Hot Work Permit and NFPA 51B	
Question:	Smoking is only allowed at designated areas.	

Priority Level:	Low
Non-Compliance Level:	2
Description:	Smoking is prohibited as per verbal information of factory personnel, but signs are not posted in Bengali and English at all building entrances. No designated smoking area is created outside the buildings. These steps are required as per Alliance Standard Part 13 Section 13.5.
Source of Findings:	Visual Assessment: Smoking is not allowed in the factory premise.
Suggested Plan of Action:	Smoking shall be prohibited in any garment factory building, separate storage building, or any building or area where the Inspector of the Factories Rules (1.6.3.7) Part 53 requires that smoking be prohibited. If an Owner creates a designated smoking area outside the buildings, information on the location of these designated areas shall be posted on the signs required in 13.5.2
Suggested Deadline Date:	17 Jul 2014
Standard:	Alliance Standards Part 13 Section 13.5 Smoking