INITIAL FIRE ASSESSMENT REPORT (FAR)

Factory Name:	**Ayesha Clothing Co. Ltd.**
Address:	**Jamgara, Ashulia, Savar. Ashulia, Savar Dhaka Bangladesh**
Assessor:	**Bureau Veritas**
Date:	**03 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

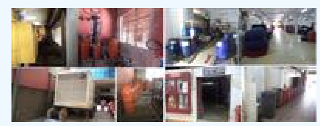
General Information	
Factory Name:	Ayesha Clothing Co. Ltd.
Address:	Jamgara, Ashulia, Savar. Ashulia, Savar Dhaka Bangladesh
Country:	Bangladesh
Province:	Dhaka
City:	Ashulia, Savar
Zip Code:	1349
Audit Duration:	1 Days
Re-Audit:	Re-Audit After 0 Months
Draft Report Date:	05-13-2014
Final Report Date:	06-30-2014
Are all Action Items From Previous Assessment Completed?:	N/A
Buildings in Complex:	There are 4 buildings in the factory premises out of which one is main production building (Three seven story building jointed by expansion joint) and three are ancillary buildings. The buildings are named as: 1) Seven story RCC main production building and shed on roof, 2) Single Story utility prefabricated shed, 3) Single Story Washing Shed, 4) Single story under construction ETP.
Is the building(s) owned or rented by the Factory:	Rented
Number of Building Levels (Stories):	1) Seven story RCC main production building and shed on roof: Building height (Highest occupied floor level): 22.56 m or 74.0 ft [Height up to roof: 25.45 m or 83.5 ft], Stories above grade: 8, Stories below grade: 0, Occupied levels: 8, 2) Single Story utility prefabricated shed: Building height (Highest occupied floor level): At grade [Height up to roof: 4.25 m or 13.92 ft], Stories above grade: 1, Stories below grade: 0, Occupied levels: 1, 3) Single Story Washing Shed: Building height (Highest occupied floor level): 0.76 m or 2.5 ft above grade [Height up to roof: 3.66 m or 12.0 ft], Stories above grade: 1, Stories below grade: 0, Occupied levels: 1.
Approximate Building Area (SF):	Total area of buildings in the factory premises: 345,500.00 sft. (Including roof square footage). Building wise breakdown as follows: 1) Seven story RCC main production building and shed on roof: 336000.00 sft (Ground floor: 42000.00 sft, 1st floor: 42000.00 sft, 2nd floor: 42000.00 sft, 3rd floor: 42000.00 sft, 4th floor: 42000.00 sft, 5th floor: 42000.00 sft, 6th floor: 42000.00 sft, Occupied roof: 8000.00 sft, Unoccupied roof: 34000.00 sft), 2) Single Story utility prefabricated shed: 1500.00 sft, 3) Single Story Washing Shed: 8000.00 sft.
Date of Building Construction:	Factory personnel informed the date of construction as follows: 1) Seven story RCC main production building and shed on roof: Finished in 2005, 2) Single Story utility prefabricated shed: Finished in 2005, 3) Single Story Washing Shed: Started in July-2006 and Finished in December-2007.

Date of Last Building Renovation/Addition:	Factory personnel informed the date of last building renovation as follows: 1) Seven story RCC main production building and shed on roof: Finished in May-2014. 2) Single story under construction ETP: Construction running.
Ancillary Structures in Complex:	1) Single Story utility prefabricated shed, 2) Single Story Washing Shed.
Approximate Ancillary Structures Area (SF):	1) Single Story utility prefabricated shed: 1500.00 sft, 2) Single Story Washing Shed: 8000.00 sft.
Number of Occupants:	Total number of occupants: 3448. 1) Seven story RCC main production building and shed on roof: 3408 (Ground floor: 345, 1st floor: 217, 2nd floor: 789, 3rd floor: 619, 4th floor: 625, 5th floor: 241, 6th floor: 567, 7th floor: 5), 2) Single Story utility prefabricated shed: 15, 3) Single Story Washing Shed: 25.
Number of Ancillary Levels (Stories):	1) Single Story utility prefabricated shed: Building height (Highest occupied floor level): At grade [Height up to roof: 4.25 m or 13.92 ft], Stories above grade: 1, Stories below grade: 0, Occupied levels: 1, 2) Single Story Washing Shed: Building height (Highest occupied floor level): 0.76 m or 2.5 ft above grade [Height up to roof: 3.66 m or 12.0 ft], Stories above grade: 1, Stories below grade: 0, Occupied levels: 1.
Occupancy Type:	1) Seven story RCC main production building and shed on roof: [Ground floor: H2 (Central fabric store office), F1 (Reception, Fire control room), J2 (Chemical store), K1 (Generator, Boiler), B2 (Childcare), D1 (Doctors room), 1st floor: G2 (Finishing, Packing section), F1 (Office), 2nd floor: G2 (Sewing, Knitting, Cutting, Finishing section), F1 (Office), 3rd floor: G2 (Sewing, Knitting, Cutting, finishing section), F1 (Office), 4th floor: G2 (Sewing, Cutting, Sample), H2 (Sub accessories store, Bonded ware house), K (Maintenance), F1 (Office), 5th floor: G2 (Finishing, Packing section, Spot removing room, Packing cum metal free room), H2 (Idle machine store & Lab room, Finished godown, fabric store), F1 (Office), 6th floor: G2 (Sewing, Finishing, Packing section, Spot removing room, Packing cum metal free room), F1 (Office), E4 (Prayer room), 7th floor: E3 (Dining room)],
Construction Type:	1) Seven story RCC main production building and shed on roof: [Ground floor to 6th floor: Type 1, 7th floor: Non-rated, portion of 1st floor: Non-rated], 2) Single Story utility prefabricated shed: Non-rated, 3) Single Story Washing Shed: Non-rated.
Height of Highest Occupied Floor Level Above Grade:	1) Seven story RCC main production building and shed on roof: 22.56 m or 74.0 ft, 2) Single Story utility prefabricated shed: At grade, 3) Single Story Washing Shed: 0.76 m or 2.5 ft above 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:	At utility prefabricated shed building there are high windows, low window grill, louver, penetration, ducts, and other openings, and all exits are non-rated. Some non-rated openings were found at lift wall and chemical store room in main building.	
Source of Findings:	Photograph: Non-rated barriers are on different floors including sheds.	
Suggested Plan of Action:	Provide opening protectives at all windows and other openings on all fire rated walls across the entire premises. Close these openings if they are not required.	
Suggested Deadline Date:	04 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 8 exit stairs available in the main building. None of the available exit enclosures are fire rated. Glass swing doors are installed.	
Source of Findings:	Photograph: Glass swing doors are installed at exit enclosures of main building.	
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:	04 Sep 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:	In the main building, the lift core shaft is not fire rated. Some wooden boards have been fixed to close the shaft doors.	
Source of Findings:	Photograph: Some wooden boards have been affixed to close the shaft doors.	
Suggested Plan of Action:	Provide a shaft enclosure of the 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:	04 Sep 2014	
Standard:	Reference Alliance Standards Part 4 Section 4.5.7.1 through 4.5.7.3	
Question:	Are separations between hazards provided with fire-resistive rated construction barriers.	
Priority Level:	Medium	
Non-Compliance Level:	3	
Description:	The utility prefabricated shed generator and gas cylinder room are not separated properly. Mobile generator directly opens to the walking space in front of the main building and utility building without fire separation. Flammable materials(1500 liter diesel) directly open to the main building corridors without separation. The main building chemical store is very close to the production area and finished goods without fire rated construction barriers.	
Source of Findings:	Visual Assessment: Generator and gas cylinder room are not fire separated. Also, chemical store is not separated from production area and movable generator is directly open.	
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:	27 Nov 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:	1
Description:	No occupancy certificate available for any building in the factory premises.
Source of Findings:	Document Review: The factory does not have any occupancy certificate from any authority for any of its structures. Authority claimed that they have already applied for occupancy certificate.
Suggested Plan of Action:	Apply to Cantonment Board for issuance of occupancy certificate and pursue the matter to expedite.
Suggested Deadline Date:	24 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:	Class I standpipe system (65 mm hose connection) is not installed at stairwells in any floor level including occupiable roof. There is available Class II stand pipe system in the floors of the main buildings. 40 mm fabric hoses are connected with underground water reservoir. At the roof, the hose was tested and length of jet was found to be 50 feet, which is equivalent to 4.5 bars. Hose size, pressure and water capacity are sufficient.
Source of Findings:	Visual Assessment: Only class II standpipe hose connection is available.
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 prior to start of work. All standpipe system installations shall be submitted for review by the Alliance for review prior to commencement of installation. 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:	04 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:	A fire pump is available with a jockey pump installed on the ground floor with alternative backup power. However, it does not comply with the requirements of the Alliance Standards and NFPA 20. Hydraulic calculation for installed standpipe and sprinkler systems are also not available.
Source of Findings:	Photograph: Dedicated fire pump with alternative power source.
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 presence of Alliance and a final inspection of the installation shall be conducted by the Alliance 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 like a generator and the generator is to be connected with ATS (auto starter).
Suggested Deadline Date:	04 Sep 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:	3
Description:	There is a manual fire alarm system in the main building. The system is activated by push buttons located at the entry to the stairs. The alarm system is designed for general evacuation, alerting all occupants at the same time through horns. Per the request of the local fire department battery powered smoke alarms have been provided throughout the building.
Source of Findings:	Photograph: battery powered smoke alarm, Visual Assessment: During site tour, pull station, smoke detector, audible alarm, visual alarm installation was found ongoing.
Suggested Plan of Action:	Install fire alarm system per NFPA 72. Include pull stations at all entrances to exit stairs, and at ground floor exits. Install strobes and horns for complete notification on all floors. Install smoke detectors that are part of the fire alarm system in locations required by Alliance standards. Provide a fire detection and alarm system control panel that will monitor the following: automatic sprinkler system water flow activation, fire pump running, smoke/heat detectors, magnetic release of fire doors upon smoke detector or sprinkler operation.
Suggested Deadline Date:	31 Dec 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:	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 i) annual maintenance of extinguishers by a servicing agent and ii) annual testing of nozzle of CO2 extinguisher. These are required as per NFPA 10.	
Source of Findings:	Document Review: Relevant documents are not compliant with NFPA 10.	
Suggested Plan of Action:	Fire extinguishers are to be inspected, tested, and maintained in accordance with NFPA 10 Chapter 7.	
Suggested Deadline Date:	27 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:	Installation of fire alarm and detection system is ongoing.	
Source of Findings:	Photograph: Installation of fire alarm and detection system., Visual Assessment: Installation of fire alarm and detection system is ongoing.	
Suggested Plan of Action:	Provide an automatic fire alarm and detection system per NFPA 72 and arrange for direct connection of the system to a central station monitoring service or the Fire Service and Civil Defense. Until that time that a central station monitoring service or direct connection to the Fire Service and Civil Defense 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:	10 Jul 2014	
Standard:	Alliance Standard Part 5 Section 5.7.5 Monitoring	

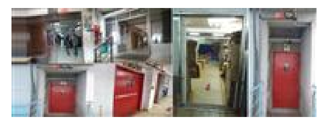
Question:	Are inspection, maintenance, and testing procedures of the standpipe and hose system documented and up to date? Including inspection and testing of hoses if provided.
Priority Level:	Low
Non-Compliance Level:	2
Description:	Class III standpipe system is not installed in the building. Relevant documents were found for installed standpipe and hose system. However it is not fully complying with the Reference NFPA 25 Chapter 6 Standpipe and Hose Systems Table 6.1.1.2.
Source of Findings:	Photograph: Relevant documents for installed standpipe and hose 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:	17 Nov 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 standpipe system is not installed.
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:	24 Jul 2014
Standard:	Reference NFPA 14 Chapter 6

Question:	Are inspection, maintenance, and testing procedures of the fire pump documented and up to date?
Priority Level:	Low
Non-Compliance Level:	2
Description:	Relevant documents were found for installed fire pump. However, it does not

	fully comply with NFPA 25 Chapter 8.
Source of Findings:	Document Review: Relevant documents were found at the time of document review. Relevant documents are not compliant with NFPA 25.
Suggested Plan of Action:	Establish an inspection, maintenance, and testing program for the fire pump. Program must comply with NFPA 25.
Suggested Deadline Date:	27 Nov 2014
Standard:	Reference NFPA 25 Chapter 8 Fire Pumps
Means of Egress	
Question:	Occupant loads on each level (floor) do not exceed the capacity of the available means of egress.
Priority Level:	High
Non-Compliance Level:	3
Description:	The exit capacity for the Mir Building is deficient on floors 2, 3, 4, and 6.
Source of Findings:	Visual Assessment: Number of occupants was counted and obtained from register. Widths of exit doors and stairs of the concerned floor were measured.
Suggested Plan of Action:	Either reduce the population on each of these floors to a maximum of 558 occupants per floor or add an additional exit stair capacity for this building.
Suggested Deadline Date:	31 Dec 2014
Standard:	Alliance Standard Part 6 Section 6.4 Occupant Load
Question:	Exit discharge is directly to the exterior of the building, unless the requirements of 6.17.2 are met, at grade or provides direct access to grade. Exit discharge shall not reenter a building.
Priority Level:	High
Non-Compliance Level:	3
Description:	There are eight exit stairways available at the main building. Only one of these exit stairways discharges directly to the exterior of the building.
Source of Findings:	Visual Assessment: It was observed that seven out of eight exit stairways do not discharge directly to the exterior of the building.
Suggested Plan of Action:	Provide rated exit passageway (protected path of egress) from the exit enclosure to the public way. The rating of the exit passageway is to be equal to fire rating requirement of the exit that is being served and shall not be less than 1 hr fire-resistance rated.
Suggested Deadline Date:	04 Sep 2014

Standard:	Alliance Standard Part 6 Section 6.17 Exit Discharge. See Section 16.7.2 and 16.7.3 for exceptions.	
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:	3	
Description:	There are two exit access corridors. One passage is serving an occupant load exceeding 30 on the ground floor and is not separated by walls having a fire-resistance rating of 1 hr.	
Source of Findings:	Photograph: Non-rated wall on the ground floor exit access corridor.	
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 unless provided with automatic sprinkler protection throughout the story or building. Window and glass block assemblies are to be tested fire rating following NFPA 257.	
Suggested Deadline Date:	04 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:	Means of egress are free from impediments, obstructions, and stored materials.	 
Priority Level:	High	
Non-Compliance Level:	3	
Description:	Electrical equipment is installed in Stair 5 and Stair 6 in the Mir Building.	
Source of Findings:	Photograph: (1) Electrical equipment under the stairs (2) debris on stairs	
Suggested Plan of Action:	Remove electrical equipment at the base of Stair 5 and Stair 6 in the Mir Building. This equipment should be relocated to a dedicated electrical room.	
Suggested Deadline Date:	31 Dec 2014	
Standard:	Alliance Standard Part 6 Section 6.3.8 Impediments to means of egress and Section 6.3.9 Reliability	

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 hasps, locks, or slide bolts at non-rated exit doors in the direction of means of egress, but all fire doors are not locked under any conditions.	
Source of Findings:	Photograph: Photograph shows the locking devices on aluminium doors at different floors.	
Suggested Plan of Action:	Remove all hasps, locks, slide bolts, or other locking devices from all sliding doors and collapsible gates.	
Suggested Deadline Date:	26 Jun 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 0.8m. Visually, some of the doors appear to be fire doors. However, no credible certificate is available. Fire doors of proper rating are required in accordance with section 6.3.1.2.2 and 4.6. There are non-rated doors present at each floor of the main building.	
Source of Findings:	Photograph: Doors along the path of egress are not fire rated doors.	
Suggested Plan of Action:	Provide 1 hr fire protective opening assemblies in 1 hr rated exit enclosure. Provide 1.5 hr fire protective opening assemblies in 2 hr rated exit enclosure. Exits connecting three or fewer stories shall be enclosed with a minimum 1-hr fire-resistance rating. Exits connecting four or more stories shall be enclosed with a minimum 2-hr fire-resistance rating. Exits shall be enclosed with the same fire-resistance rating as the floor penetrated but will not need to exceed 2 hr. Provide fire door of required rating to access the corridor.	
Suggested Deadline Date:	04 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:	Sliding metal security doors are installed. Some metal swinging doors with panic hardware are being installed. These doors are unlabeled, unlisted and not approved. There are some doors in means of egress which are not of the side-hinged swinging type. Sliding shutter and collapsible doors are available.	
Source of Findings:	Photograph: Sliding gate located at the stairs, Visual Assessment: Some of the exit doors were side-hinged swinging type.	
Suggested Plan of Action:	Replace all non-compliant doors and frames in the means of egress with doors that are listed, approved, automatic-closing, side-swinging, fire rated doors in compatible fire rated frames with latching panic hardware.	
Suggested Deadline Date:	04 Sep 2014	
Standard:	Alliance Standards Part 6 Section 6.8 Doors and Gates	
Question:	Exterior exit stairs are separated from the building with the required rating. The rating of the exterior wall shall extend 3.05 m (10 ft) beyond the ends of the stair structure.	
Priority Level:	High	
Non-Compliance Level:	3	
Description:	Exterior exit stairways are not separated from the building with the required rating. The rating of the exterior wall shall extend 3.05 m (10.0 ft) beyond the ends of the staircase structure.	
Source of Findings:	Photograph: The exterior exit stair is adjacent to the main building and the openings nearer to the exit are not fire separated.	
Suggested Plan of Action:	Provide a fire-resistive rated assembly between the exterior exit stairways 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/or designed by a qualified fire protection engineer.	
Suggested Deadline Date:	04 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:	Interior exit stairways and ramps terminate at an exit discharge except where terminating at a rated exit passageway.	
Priority Level:	High	
Non-Compliance Level:	3	
Description:	Interior exit stairways are terminating through non-rated exit passageways to exterior discharge. Among eight interior exit stairs only one exit stair discharges directly to the exterior of the building	
Source of Findings:	Visual Assessment: Interior exit stairways are terminating through non-rated exit passageways.	

Suggested Plan of Action:	Construct required rated walls and slabs for the open exit passageways. Cover the openings in exit passageway by opening protective.	
Suggested Deadline Date:	04 Sep 2014	
Standard:	Alliance Standard Part 6 Section 6.14 Exit Enclosures	
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:	2	
Description:	Some aisle widths on the 6th floor of the main building were found to be 0.75 m (2.5 ft), which is less than the required 0.9 m.	
Source of Findings:	Photograph: Aisles on the 6th floor shows that aisle widths are less than required.	
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:	04 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:	The path of egress along the means of egress is not reduced at any point along the path of travel and is sufficient for the occupant load.	
Priority Level:	High	
Non-Compliance Level:	2	
Description:	The width of some aisles was found to be less than 0.9 m on 6th floor of the main building. Thus the path of egress along the means of egress is reduced along the path of travel.	
Source of Findings:	Visual Assessment: Widths of aisles, exit doors and stairs are measured on a sample basis.	
Suggested Plan of Action:	Remove aisle marking and mark aisles again so that these are not blocked by any permanent elements such as columns. Remove movable items blocking aisles.	
Suggested Deadline Date:	25 Aug 2014	
Standard:	Alliance Standard Part 6 Section 6.5 Egress Width and BNBC Table 4.3.2	

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:	3	
Description:	Handrails are not provided on both sides of stairway at any floor of the buildings.	
Source of Findings:	Photograph: Handrail on only one side of the stairs.	
Suggested Plan of Action:	Provide handrails on both sides of each stairway. Provide intermediate handrail when the stair width exceeds 2.2m (87 inch). Provide handrail of height between the range 865 mm (34 in.) and 965 mm (38 inch).	
Suggested Deadline Date:	27 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:	3	
Description:	The main building is an 8 story building. Two re-entry doors are necessary on the 2nd floor and 7th floor, but re-entry doors are not available.	
Source of Findings:	Visual Assessment: No re-entry door was found in the buildings.	
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. Stairwell 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:	04 Sep 2014	
Standard:	Alliance Standards Part 6 Section 6.8 Doors and Gates	

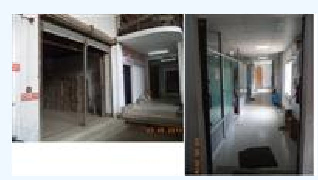
Question:	All occupied roofs are provided with parapets or guards with a minimum height of 1067 mm (42 in.).
Priority Level:	Medium
Non-Compliance Level:	2
Description:	The roof is occupied by the dining area. More than 60% of roof area is open. A parapet is provided but its height is limited to 825mm (33 inches).
Source of Findings:	Photograph: Open roof with parapet height lower than required.
Suggested Plan of Action:	Provided parapets or guards for all occupied roofs of a minimum height of 1067 mm (42 in.).
Suggested Deadline Date:	27 Nov 2014
Standard:	Alliance Standard Part 6 Section 12 Handrails and Guards
Question:	Occupant loads are posted for every assembly and production floor in a conspicuous space near the main point of egress.
Priority Level:	Medium
Non-Compliance Level:	2
Description:	Occupant loads are not posted in every assembly and production floor as required.
Source of Findings:	Visual Assessment: No occupant load posting sticker was found at the time of assessment.
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:	10 Jul 2014
Standard:	Alliance Standards Part 6 Section 6.4.4 Posting of Occupant Load
Question:	All paths of egress are provided with compliant means of illumination.
Priority Level:	Medium
Non-Compliance Level:	2
Description:	Aisles, corridors, exit doors and stairways are provided with required means of illumination but emergency power is not provided for a sufficient number of bulbs, therefore in case of power failure or load shedding, all the paths of egress will not be illuminated as required. Moreover, illumination signs are insufficient in number.
Source of Findings:	Visual Assessment: All paths of egress were found insufficiently illuminated.
Suggested Plan of	Install appropriate means of illumination at the noted locations. The means of

Action:	egress 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:	27 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:	Record of verifying emergency power for means of egress illumination was found but it is not as per Alliance Standard.	
Source of Findings:	Photograph: Emergency power for means of egress illumination is verified.	
Suggested Plan of Action:	Develop a testing and maintenance program that ensures the operation of all exist lights 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:	10 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:	Illumination signs are insufficient in numbers. 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:	Photograph: Photograph shows the insufficiently illuminated exit signs.	
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:	27 Nov 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:	No plan or record of conducting periodic testing for the emergency battery backup for illumination of exit signs was found.	
Source of Findings:	Document Review: No document regarding testing of emergency power for exit signs 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 exit signs is tested at least once per year. If battery operated signs are used, these signs are tested on a monthly basis. Functional testing of battery powered signs is provided for a minimum 90 minutes once per year.	
Suggested Deadline Date:	10 Jul 2014	
Standard:	Alliance Standard Part 10 Section 10.12 Illumination of Exit Signs and Means Of Escape.	
Question:	Exit signs have appropriate illumination levels and contrasting graphics.	
Priority Level:	Low	
Non-Compliance Level:	2	
Description:	Some exit signs do not have appropriate illumination levels and contrasting graphics as required.	
Source of Findings:	Visual Assessment: The illumination levels and contrasting graphics of exit signs seem to be insufficient.	
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 0.2cd/m2 may also be used.	
Suggested Deadline Date:	27 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:	Stair designation signs are not provided at each floor entrance from the stairway to the floor in English and Bengali.	
Source of Findings:	Photograph: Floor level and stair name not mentioned.	
Suggested Plan of Action:	Install signage adjacent to each stair door indicating the stair name and the floor level at the noted locations.	
Suggested Deadline Date:	10 Jul 2014	
Standard:	Alliance Standard Part 6 Section 6.9 Stairs	

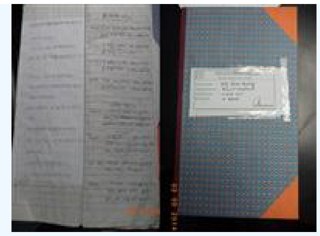
Fire Safety Programs

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:	Document or certificate by appropriate authority (Bangladesh Fire Service and Civil Defense Directorate) for training on fire fighting, first aid and rescue is not available.	
Source of Findings:	Document Review: No document regarding fire training has been found among the documents shown by factory personnel.	
Suggested Plan of Action:	Train and certify at least 25 percent of workers in fire fighting, first aid, and rescue by the proper authority.	
Suggested Deadline Date:	27 Nov 2014	
Standard:	Alliance Standard Part 13 Human Element Programs	
Question:	Are there additional areas of non-compliance to report?	
Priority Level:	Medium	
Non-Compliance Level:	3	
Description:	1. Exit of childcare is in front of the store room and childcare corridor is not properly fire rated. 2. Flammable materials are not stored as per MSDS (Material Safety Data Sheet). 3. Assembly point is not marked properly. 4. Main building is adjacent to market place without fire separation.	

Source of Findings:	Photograph: Childcare is not fire protected., Visual Assessment: Additional non-compliance areas were found at different locations.	
Suggested Plan of Action:	(1) Close the door of childcare to the store. Provide proper fire rating in the walls and ceiling of childcare. (2) Store the flammable material as per MSDS. (3) Provide proper marking of assembly point. (4) Provide proper fire rating between the wall of main building and adjacent marketplace.	
Suggested Deadline Date:	31 Aug 2014	
Standard:	Not Applicable	
Question:	An emergency evacuation plan has been developed and communicated to all employees.	
Priority Level:	Medium	
Non-Compliance Level:	2	
Description:	No record of developing and communicating any emergency evacuation plan has been found, but factory authority claims that they have done this.	
Source of Findings:	Document Review: Procedure defining evacuation process was not 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:	10 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 every month but not under the direction of an authorized Fire Safety Director. Documentation related to fire drill is available.	
Source of Findings:	Photograph: Photograph of the document review shows that fire drill record is available.	
Suggested Plan of Action:	Conduct fire drills 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	08 Jul 2014	

Date:	
Standard:	Alliance Standards Part 13 Section 13.3 Fire Drills
Question:	Storage areas underneath the cutting tables are clear of combustibles.
Priority Level:	Medium
Non-Compliance Level:	2
Description:	Combustible materials are stored underneath the cutting tables.
Source of Findings:	Visual Assessment: Combustibles were stored underneath the cutting tables.
Suggested Plan of Action:	Remove all combustibles stored underneath the cutting tables at the noted locations.
Suggested Deadline Date:	08 Jul 2014
Standard:	Alliance Standard Part 17 Section 13.7.2 Cutting tables.
Question:	Training programs are implemented and documented in accordance with the Alliance Safety Training Curriculum.
Priority Level:	Medium
Non-Compliance Level:	2
Description:	No record of training program is available on fire safety.
Source of Findings:	Document Review: Alliance safety training curriculum was not found among the documents shown by factory personnel.
Suggested Plan of Action:	Impart training in accordance with Alliance Safety Training Curriculum and keep record with proper documentation.
Suggested Deadline Date:	10 Jul 2014
Standard:	Alliance Standards Part 13
Question:	A Fire Safety Director position has been filled.
Priority Level:	Low
Non-Compliance Level:	2
Description:	Viable and physical presence ensures that a fire safety director position has been filled. However, no related document was available.
Source of Findings:	Document Review: No record of filling the position of fire safety director was found., Visual Assessment: A Fire Safety Director was present.
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:	17 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 document regarding fire department pre-planning has been found among the documents shown by factory personnel.	
Suggested Plan of Action:	Complete fire department pre-planning activities with the local Fire Service and Civil Defense.	
Suggested Deadline Date:	10 Jul 2014	
Standard:	Alliance Standards Part 13 Section 13.1 Fire Safety Director	
Question:	Are all applicable permits up to date including Fire License & Boiler License.	
Priority Level:	Low	
Non-Compliance Level:	2	
Description:	BERC license is not available; factory authority confirmed that they have applied for BERC waiver certificates. Total capacity of three generators is 2590 KW. Approved 7 story commercial building has been converted to industrial building without any approved load calculation (building approval authority is Savar Cantonment Board). Flammable materials stored are in excess of 2000 liters but there is no permission available. Steel frame on ground floor is unapproved.	
Source of Findings:	Document Review: BERC license, approval for flammable materials and additional construction of building approval were not available.	
Suggested Plan of Action:	Apply to BERC for waiver certificate, to Savar Cantonment Board for building approval and to Department of Explosives, Bangladesh for license of stored flammable materials.	
Suggested Deadline Date:	10 Jul 2014	
Standard:	Alliance Standard Part 13 Human Element Programs	



Question:	A written housekeeping policy is established and enforced.
Priority Level:	Low
Non-Compliance Level:	1
Description:	Relevant documents were found although they are not established according to Section 13.6.
Source of Findings:	Document Review: No document regarding housekeeping policy has been found among the documents shown by factory personnel., Photograph: Available housekeeping policy register.
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:	19 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:	1
Description:	Hot-work permit program is not established yet, although it is required. However, hot-work is not going on in the factory right now.
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 of authorities, necessary checks prior approval, standby fire watch and fire fighting equipment, sounding of alarm procedure, duration and expiry of permit and re-approval procedures, etc.
Suggested Deadline Date:	27 Nov 2014
Standard:	Alliance Standards Part 13 Section 13.4 Hot Work Permit and NFPA 51B