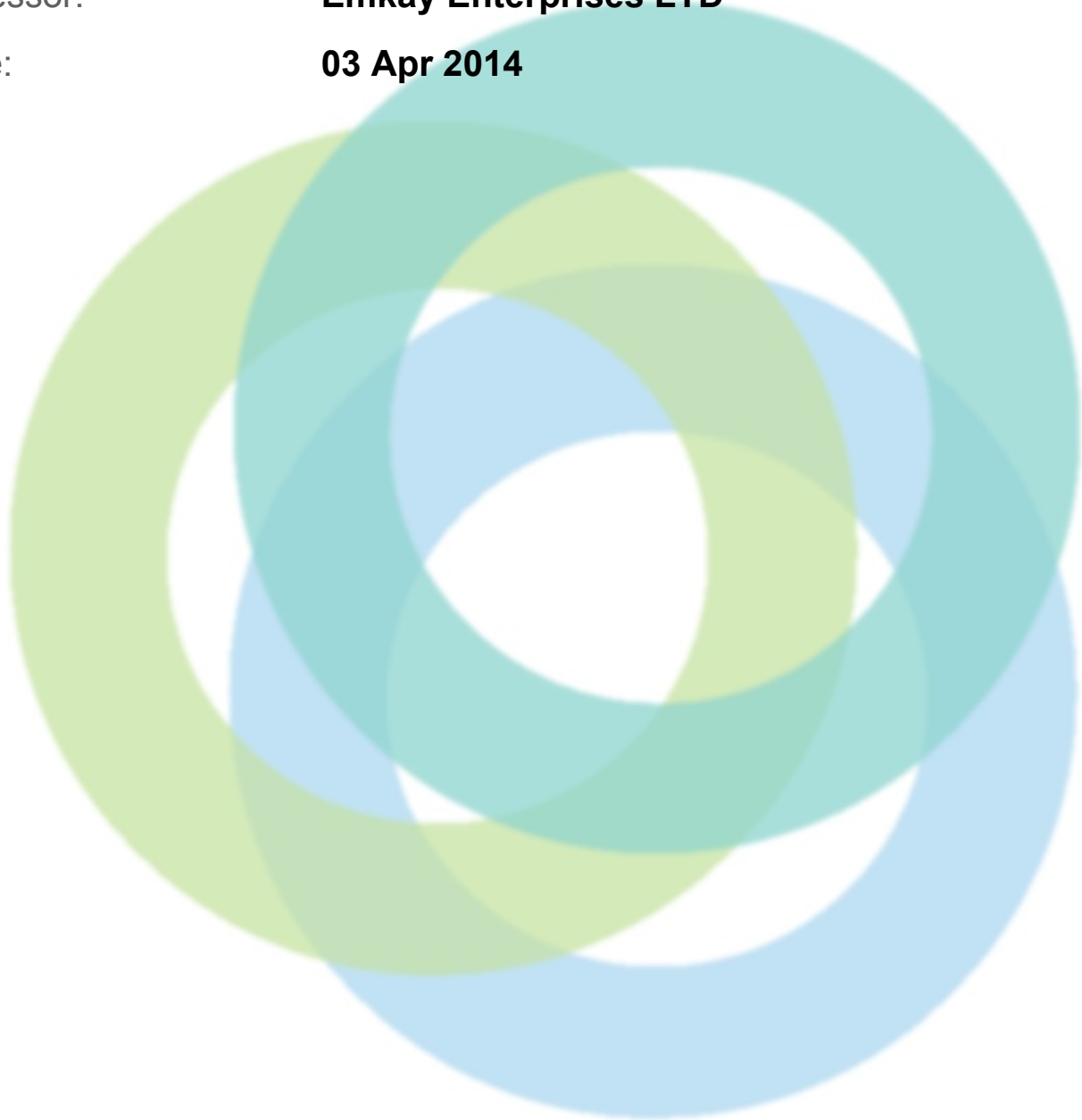


INITIAL FIRE ASSESSMENT REPORT (FAR)

Factory Name: **MAX SWEATER (BD) LTD**
Address: **24,26 DIGHI BORABO,TARABO, Rupgonj,
Narayangonj Narayangonj Dhaka Bangladesh**
Assessor: **Emkay Enterprises LTD**
Date: **03 Apr 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.



Factory Name: **MAX SWEATER (BD) LTD**
 Address: **24,26 DIGHI BORABO,TARABO, Rupgonj, Narayangonj Narayangonj Dhaka Bangladesh**

Assessor: **Emkay Enterprises LTD**
 Date: **03 Apr 2014**



ALLIANCE
 FOR BANGLADESH WORKER SAFETY

GENERAL INFORMATION

General Information	
Factory Name:	MAX SWEATER (BD) LTD
Address:	24,26 DIGHI BORABO,TARABO, Rupgonj, Narayangonj Narayangonj Dhaka Bangladesh
Country:	Bangladesh
Province:	Dhaka
City:	Narayangonj
Zip Code:	1460
Audit Duration:	1 Days
Re-Audit:	Re-Audit After 0 Months
Draft Report Date:	13-April-2014
Final Report Date:	To be filled out by the "Alliance QA" representative
Are all Action Items From Previous Assessment Completed?:	N/A
Buildings in Complex:	Main building: 05 Nos Ancillary structure:02 Nos
Is the building(s) owned or rented by the Factory:	Owned
Number of Building Levels (Stories):	RCC Building-1: 3 Stories RCC Building-2: 3 Stories Single story (Jacquard & Dining) shed. Single story (Winding & Auto knitting) shed. Single story (Floor-D) shed.
Approximate Building Area (SF):	183,887
Date of Building Construction:	2002-2003
Date of Last Building Renovation/Addition:	Unknown
Ancillary Structures in Complex:	2
Approximate Ancillary Structures Area (SF):	4585
Number of Occupants:	2862

Factory Name: **MAX SWEATER (BD) LTD**
Address: **24,26 DIGHI BORABO,TARABO, Rupgonj, Narayangonj Narayangonj Dhaka Bangladesh**

Assessor: **Emkay Enterprises LTD**
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ALLIANCE
FOR BANGLADESH WORKER SAFETY

Number of Ancillary Levels (Stories):

01




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:	01. Glass window on the separation wall between boiler room and production floor at ground floor of building #2. 02. Opening of shaft was not fire protected at GF to 2nd floor of building-2. 03. Unprotected openings on the separation wall between linking section and storage area at ground floor of building-1. 04. Exits are not fully protected by continuously fire rated assemblies.
Source of Findings:	Photograph: 01. Unprotected boiler room. 02. Unprotected shaft opening 03. Openings on the separation wall between linking section and storage area. 04. Unprotected exit.
Suggested Plan of Action:	Install fire rated door assemblies at all exits. Provide required fire-resistive rated opening protection (Door, Window, Hatch Cover etc.) at opening and seal penetrations through fire rated walls and/or assemblies with fire-resistive rated materials. Consult a qualified fire protection engineer to design the required rated opening protection.
Suggested Deadline Date:	08 Jul 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:	Exit enclosures are not fully protected by continuously fire rated assemblies as required by Alliance Standard. Building #1 and Building #2 are 3-story RCC frame structure. Walls of all stairwells are 5" masonry brick wall with collapsible gates, wooden doors, glass door, and steel sliding doors installed. Also some gaps were noted over the gates of doors leading to the stairwells.
Source of Findings:	Photograph: 01. Unprotected exit enclosure with wooden door at building #1 02. Unprotected exit enclosure with collapsible gate at building #2
Suggested Plan of Action:	Provide 1-hour fire-resistive rated construction barriers at exit enclosures with 0.75-hour fire-rated opening protection (door, window, etc.). Fire doors shall be side-hinged, swinging doors that swing in the direction of egress and have







	automatic closers, latching hardware, and no locking mechanisms. The doors shall have a minimum clear width of 1 m (39 in.). Consult a qualified fire protection engineer to design the required rated construction barriers with opening protection.	
Suggested Deadline Date:	08 Jul 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:	A steel shaft was found at building #2 connecting Ground floor, 1st floor and 2nd floor without proper opening protection.	
Source of Findings:	Photograph: Unprotected non-rated Shaft at building #2	
Suggested Plan of Action:	Provide minimum 1-hour fire-resistive rated continuous barriers at shaft enclosures with 0.75- hour fire-resistive opening protection at shaft opening(s). Consult a qualified fire protection engineer to design the required rated construction of shaft.	
Suggested Deadline Date:	08 Jul 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:	01. No fire separation was available at finished goods store with linking section, doctor's room and daycare at ground floor of building-1. 02. No fire separation was available at maintenance section with winding and knitting section of shed #2. Hot work (grinding, welding, metal cutting etc.) was found to be occurring at this location. 03. No fire separation was available between distribution store and production area at 1st & 2nd floor of building-2. 04. Boiler room was unprotected (Masonry brick wall with steel truss tin shed roof room) at it's two walls common with washing section of building #2 at ground floor. Glass windows were provided in those walls. This is not in compliance with Standards Part 4 Section 4.5 Separation; Part 3 Section 3.4.2.1.2 Boiler or furnace rooms; 3.4.2.1.5 Storage.
Source of Findings:	Photograph: 01. Open finished goods store at GF of building #1; 02. Unprotected maintenance room at shed #2 03. Unprotected distribution store at building #2 04. Unprotected boiler room joint with building #2
Suggested Plan of Action:	Rooms used for housing of combustible materials, boiler, hot working area need to be separated from the surrounding occupancy with a minimum 01-hour fire rated construction with 0.75-hour fire rated opening protection. Consult a qualified fire protection engineer to design the required rated construction barrier.
Suggested Deadline Date:	08 Jul 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:	Not in Compliance: No occupancy certificate was available
Source of Findings:	Document Review: Document Review: No occupancy certificate has been shown.
Suggested Plan of Action:	Collect Occupancy certificate for each building and ancillary structure as per building use from approving authority.
Suggested Deadline Date:	03 Jun 2014
Standard:	Are certificates of occupancy provided for each building or ancillary structure?
Question:	Occupancy Type
Priority Level:	





Non-Compliance Level:		
Description:	As per running operation of RMG factory, occupancy Type-G2	
Source of Findings:		
Suggested Plan of Action:	Not Applicable	
Suggested Deadline Date:		
Standard:	Provide Occupancy Type for each building and structure. Reference Alliance Standards Part 3 Use and Occupancy	
Question:	Construction Type	
Priority Level:		
Non-Compliance Level:		
Description:	Building #1 Type-1: (R.C.C frame structure) Ground to 2nd floor; Non-Rated: Officer's kitchen (Masonry brick wall with tin shed)on roof deck. Building #2 Type-1 (R.C.C frame structure) Ground to 2nd floor,Type-2 extend part of Ground floor. Rest of the shed are Type-2 (Masonry brick wall with steel truss tin shed raise on RCC columns)	 
Source of Findings:	Photograph: Non-Rated construction: Officer's kitchen on roof deck Type-2 construction: at building #2, extend part of Ground floor.	
Suggested Plan of Action:	Not Applicable	
Suggested Deadline Date:		
Standard:	Provide construction type for each building and ancillary structure. Reference Alliance Standards Table 3.3.1	
Question:	Height of Highest Occupied Floor Level Above Grade	
Priority Level:		
Non-Compliance Level:		
Description:	Building #1: Total height of the building above grade was 12.3 m (40.34 ft) (3 stories) and the height occupiable floor level was 9.3 m (30.5 ft) Building #2: Total height of the building above grade was 9.6 m (31.49 ft) (3 stories) and the highest occupiable floor level was 6.4 m (20.99 ft) Rest of buildings were single story.	
Source of Findings:		
Suggested Plan of Action:	Not Applicable	



Suggested Deadline Date:		
Standard:	Provide maximum height of highest occupied floor level above grade for each type of building and ancillary structure.	
Fire Protection Systems		
Question:	Does the building have a fire pump?	
Priority Level:	High	
Non-Compliance Level:	3	
Description:	Normal manual electric driven centrifugal pump used as a fire pump. No jockey pump was available with the arrangement. Also no manufacturer catalog and certificates were available for this pump. This pump was not in compliance with NFPA 20.	
Source of Findings:	Photograph: Fire pump	
Suggested Plan of Action:	Existing pump needs to be evaluated per the requirements of NFPA 20 by a qualified fire engineer and modify it per the instruction of the fire engineer with a full set of documentation.	
Suggested Deadline Date:	08 Jul 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:	Not in compliance: Pull stations at egress points: Manual fire alarms were installed. Circuits breakers were used as fire alarm call points. Smoke detectors: No centralized detection system was available. Only standalone smoke alarms were available in very few locations in this factory building. visual and audible devices: No visual alarm was noted.	
Source of Findings:	Photograph: Manual fire alarm with standalone smoke detector.	
Suggested Plan of Action:	Consult a qualified fire protection engineer to design the pull stations at egress points, centralized and addressable smoke detectors all through the building, visual and audible devices spaced appropriately based on occupancy type. Reference NFPA 72	
Suggested Deadline Date:	08 Jul 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:	2
Description:	Identification marking was not available during visit.
Source of Findings:	Photograph: Fire department connections
Suggested Plan of Action:	Need to provide identification mark for fire department connections.
Suggested Deadline Date:	30 Sep 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:	Only the inspection check list with the monthly dates on each extinguisher are being verified by the fire safety officer. Not all of the requirements of NFPA 10 are being checked. While interviewing the person responsible for this it was found that only the pressure gauges (where available) and expiration dates are being checked.
Source of Findings:	Photograph: Check list of extinguisher
Suggested Plan of Action:	Establish an inspection, testing, and maintenance program for all fire extinguishers. Program needs to comply with the requirements of NFPA 10
Suggested Deadline Date:	30 Sep 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:	Not in Compliance as per Alliance standard part:5 section:5.7.5. No centralized detection system was available. Only standalone smoke alarms were installed in a very limited number of locations in the factory building. Manual fire alarm boxes were installed. Circuit Breakers were used as fire alarm call points.
Source of Findings:	Photograph: Standalone smoke detector





Suggested Plan of Action:	Install an automatic fire detection and alarm system throughout the factory. Until that time that a central station monitoring service or direct connection to the Fire Service and Civil Defence can be set up, a person needs to be assigned to contact the fire department in the event of fire alarm activation. An annunciator needs to be located in a constantly attended location to alert this person.
Suggested Deadline Date:	20 May 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:	1
Description:	Inspection, maintenance, and testing plan and records of the standpipe and hose system as NFPA 25 Chapter 6 Standpipe and Hose Systems Table 6.1.1.2 were not available during visit. This is not in compliance with Alliance standard part 4 section 5.4.3.
Source of Findings:	Document Review: No document was found during visit.
Suggested Plan of Action:	Establish an inspection, maintenance, and testing program for the standpipe and hose system. Program needs to comply with the requirements of NFPA 25 Chapter 6 Standpipe and Hose Systems Table 6.1.1.2
Suggested Deadline Date:	30 Sep 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:	1
Description:	Not in compliance as per NFPA 25 Chapter 8 Fire Pumps, No inspection, maintenance, and testing conducted for fire pump. Fire pump system is not monitored by fire alarm systems. Additionally, fire pump was not set to Auto at time of evaluation. Factory did not understand proper use of fire pump systems. No documented maintenance or testing procedures of the fire pump
Source of Findings:	Document Review: No document was found during visit.
Suggested Plan of Action:	Establish an inspection, maintenance, and testing program for the fire pump. Program must comply with NFPA 25. Train workers on proper operation of fire pump.
Suggested Deadline	30 Sep 2014



Date:		
Standard:	Reference NFPA 25 Chapter 8 Fire Pumps	
Means of Egress		
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:	3	
Description:	The path along the means of egress was reduced at stair-1 of building-2 as the exit door (collapsible gate) is affixed to the end of the stairs without providing a landing. This is not in compliance with Alliance Standard Part 6 Section 6.5.2 Means of egress continuity.	
Source of Findings:	Photograph: Collapsible gate at the end of stair-1, building #2	
Suggested Plan of Action:	Ensure the path along the means of egress remains uniform per requirement of occupant load.	
Suggested Deadline Date:	08 Jul 2014	
Standard:	Alliance Standard Part 6 Section 6.5 Egress Width and BNBC Table 4.3.2	
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:	Stair -1 and Stair-3 of building #2 discharge inside the processing area. Neither a sprinkler system nor fire resistance rated exit passageway are provided.	
Source of Findings:	Photograph: Ground floor stair-3 of building #2	
Suggested Plan of Action:	Install automatic sprinklers or create a 1-hr. fire resistance rated exit passageway to extend the exit enclosure to the exterior of the building.	
Suggested Deadline Date:	08 Jul 2014	
Standard:	Alliance Standard Part 6 Section 6.17 Exit Discharge. See Section 16.7.2 and 16.7.3 for exceptions.	






Question:	Travel distance to reach an exit does not exceed the maximum distance allowed by Occupancy Type.	
Priority Level:	High	
Non-Compliance Level:	3	
Description:	At building #2 in all floors the minimum travel distance from North-East part was 154 ft and maximum was 191 ft. Neither sprinkler system nor automatic fire detection system was provided.	
Source of Findings:	Photograph: Diagram showing travel distance of building#2 ground floor.	
Suggested Plan of Action:	Provide exits within 45 m (147.6 ft.) from any point of the processing area or provide automatic fire detection system or install automatic sprinkler protection in accordance with the Alliance Standard to allow for an increased travel distance.	
Suggested Deadline Date:	08 Jul 2014	
Standard:	Alliance Standard Part 6 Section 13 Travel Distance and BNBC Part 4 Section 3.15.1	
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:	The exit access corridors of 2nd & 1st floor leading to stair-1 at building-2 serve more than 30 persons but the corridor's walls were non-rated steel grill. Automatic sprinkler system is not provided. This is not in compliance with Alliance Standard Part 6 Section 6.3.1.1	
Source of Findings:	Photograph: Unprotected exit access corridors of building #2	
Suggested Plan of Action:	Exit access corridors serving an occupant load exceeding 30 shall be separated by walls having a fire resistance rating of 1-hour and with 0.75-hour opening protection or provided with automatic sprinkler protection throughout the story or building as per NFPA 13. The rated assembly or sprinkler system needs to be approved and/or designed by a qualified fire protection engineer.	
Suggested Deadline Date:	08 Jul 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:	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:	Not in compliance Alliance standard part 6 section 6.8.2. Doors in the path of egress were unlocked in the direction of egress only during working hours. Hasps, locks, other locking devices were present on doors.
Source of Findings:	Photograph: Locking arrangement in door
Suggested Plan of Action:	Doors need to be kept free from all locking mechanisms in the direction of egress under all conditions. All hasps, locks, slide bolts, and other locking devices need to be removed where installed.
Suggested Deadline Date:	07 May 2014
Standard:	Alliance Standards Part 6 Section 6.8 Doors and Gates
Question:	All doors in a means of egress are of the side-hinged swinging type.
Priority Level:	High
Non-Compliance Level:	3
Description:	Collapsible gates, steel sliding doors and glass doors were installed in most of the exits.
Source of Findings:	Photograph: Steel sliding door in a means of egress
Suggested Plan of Action:	All roll-down, collapsible, sliding gates and shutters in the means of egress shall be replaced with required side-hinged, fire doors that swing in the direction of egress per Alliance standard section: 6.8. Doors will be free from general locking arrangement.
Suggested Deadline Date:	08 Jul 2014
Standard:	Alliance Standards Part 6 Section 6.8 Doors and Gates
Question:	Landings are provided with the same width in the direction of egress travel as the stair clear width provided at each level and at intermediate landings. Existing landings that are less than the stair width, shall reduce the overall available capacity of the stair.
Priority Level:	High
Non-Compliance Level:	3
Description:	A collapsible gate was affixed to the end of Stair 1 of Building#2 leaving no landing at this location. The gate reduces the effective width of this stair.





Source of Findings:	Photograph: Stair without landing.	
Suggested Plan of Action:	Remove the collapsible gate from this location and provide a landing with the same width of stair-1 at ground floor of building #2.	
Suggested Deadline Date:	08 Jul 2014	
Standard:	Alliance Standard Part 6 Section 6.9 Stairs and Section 6.5	
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 stairs are separated from the building with 5" brick wall. Windows are located within 3.05 m (10 ft) of stair-1 of building #1, which is not in compliance with Alliance standard part 6 section 6.3.1.3 and 6.14.7	
Source of Findings:	Photograph: Unprotected exterior stair	
Suggested Plan of Action:	Provide a 1-hour fire-resistive rated assembly with 0.75-hour opening protection in line with the stair and extend 3.05 m (10 ft.) beyond the ends of the stair between the exterior exit stairs and the building to achieve the required separation. The rated assembly should be approved and/or designed by a qualified fire protection engineer.	
Suggested Deadline Date:	08 Jul 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:	Stair-1 and Stair-3 of building #2 terminate inside the work area of the ground floor and do not terminate on the exterior of the building or in a rated exit passageway.	
Source of Findings:	Photograph: Stair-1 of building #2 at Ground floor	
Suggested Plan of Action:	Rearrange both of these stairs so that they discharge directly outside, into a rated exit passageway, or provide automatic sprinkler protection throughout the ground floor.	
Suggested Deadline Date:	08 Jul 2014	



Standard:	Alliance Standard Part 6 Section 6.14 Exit Enclosures	
Question:	Ramps used in a means of egress do not reduce the overall means of egress width. The minimum width shall be 1.1 m (44 in.).	
Priority Level:	High	
Non-Compliance Level:	3	
Description:	Minimum width of 3 ramps were 40 in. in the Jacquard Section and Dining.	
Source of Findings:	Photograph: Minimum width of ramp	
Suggested Plan of Action:	The minimum width of the ramp shall be 1.1 m (44 in.). Factory needs to ensure the minimum width of ramp is provided.	
Suggested Deadline Date:	08 Jul 2014	
Standard:	Alliance Standards Part 6 Section 10 Ramps	
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 provided on only one side of stairs. The existing handrail heights were lower than 30 in. at building-01 and spacing of vertical members were more than 200mm (8 in.) in all of the stairs.	
Source of Findings:	Photograph: Handrail of stair-1 at building-1	
Suggested Plan of Action:	Install handrails on both sides of the stairs. A minimum height of 865 mm (34 in.) and a maximum height of 965 mm (38 in.) as measured from the leading edge of the tread needs to be maintained when installing new handrails. The spacing between vertical members shall not exceed 200 mm (8 inch).	
Suggested Deadline Date:	30 Sep 2014	
Standard:	Alliance Standard Part 6 Section 6.9 Stairs and 6.12 Handrails and Guards	
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:	Parapets are provided at the occupied roof of building #1 and building #2 but the heights of parapets were below 1067 mm (42 in.).	
Source of Findings:	Photograph: Occupiable roof of building #1	



Suggested Plan of Action:	Provide parapet in every occupied roof with a minimum height of 1067 mm (42 in.).
Suggested Deadline Date:	30 Sep 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:	Not in compliance with Alliance standard. Occupant loads are not posted for any assembly or production floor in a conspicuous space near the main point of egress.
Source of Findings:	Visual Assessment: No signage was found during visit.
Suggested Plan of Action:	Post the occupant load for every assembly and production floor in the facility in a conspicuous space near the main exit or exit access doorway for the space.
Suggested Deadline Date:	01 May 2014
Standard:	Alliance Standards Part 6 Section 6.4.4 Posting of Occupant Load
Question:	Means of egress have a minimum ceiling height of 2.3 m (7 ft 6 in.) with projections from the ceiling not less than 2.03 m (6 ft 8 in.).
Priority Level:	Medium
Non-Compliance Level:	2
Description:	Clear height of exits were found less than 1.90 m at Jacquard & Dining section of shed #1.
Source of Findings:	Photograph: 1.90 m clear height exit at Jacquard section at shed #1
Suggested Plan of Action:	Need to ensure a minimum ceiling height in the means of egress by maintaining a minimum 2.3 m (7 ft 6 in.) height with projections from the ceiling not less than 2.03 m (6 ft 8 in.).
Suggested Deadline Date:	30 Sep 2014
Standard:	Alliance Standard Part 6 Section 6.3.3 Headroom
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:	Not in compliance with Alliance standard part 10 section 10.12.1.4. No testing plan and records were available during visit.	
Source of Findings:	Document Review: No testing record have been shown during this assessment.	
Suggested Plan of Action:	Develop a testing and maintenance program that ensures the operation of all exit 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:	20 May 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 have been placed only at exits and not at additional locations where needed throughout the floor.	
Source of Findings:	Photograph: Illuminated exit signs only at entrances of exits	
Suggested Plan of Action:	Install Illuminated exit signs with backup power and continuous graphics 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 Sep 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:	Not in compliance with Alliance standard part 10 section 10.12.1.4; No testing plan and records were available during visit.	
Source of Findings:	Document Review: No testing plan and records were available during visit.	
Suggested Plan of	Develop a testing and maintenance program that ensures the emergency	



Action:	power for exit signs is tested 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:	20 May 2014	
Standard:	Alliance Standard Part 10 Section 10.12 Illumination of Exit Signs and Means Of Escape.	
Question:	Compliant guards are provided on the open sides of egress components where the elevation exceeds 760 mm (30 in) above the ground or floor below.	
Priority Level:	Medium	
Non-Compliance Level:	2	
Description:	Compliant guards were provided on the open sides of egress components but the spacing between the vertical members were 12 in. and not 8 in. as required by the Alliance Standard.	
Source of Findings:	Photograph: Guard	
Suggested Plan of Action:	Guards need to be provided at the open side of means of egress that exceed 760 mm (30 inch) above the floor or finished ground level. New guards shall have a minimum height of 1067 mm (42 inch) and the spacing between the vertical members shall not exceed 200 mm (8 inch).	
Suggested Deadline Date:	30 Sep 2014	
Standard:	Alliance Standard Part 6 Section 6.3.7 Guards	
Question:	Ramps do not have a running slope greater than 1 in 8 (12.5 percent) and have handrails on both sides of the ramp.	
Priority Level:	Medium	
Non-Compliance Level:	2	
Description:	The running slope of ramps were 32.81% at Jacquard Section and Dining.	
Source of Findings:	Photograph: Slope of ramp	
Suggested Plan of Action:	Reconstruct the ramp with maximum running slope greater than 1 in 8 (12.5 percent) or provide steps following Alliance standard part 6 section 6.9 stairs.	
Suggested Deadline Date:	30 Sep 2014	
Standard:	Alliance Standard Part 6 Section 10 Ramps	
Question:	Exits are limited to Class A and Class B interior materials.	
Priority Level:	Medium	

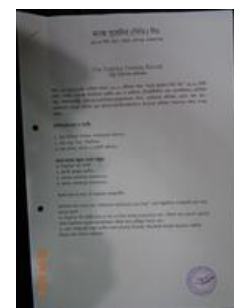


Non-Compliance Level:	
Description:	No test report of the materials of exits as per the standard were available during assessment but exits were constructed with painted concrete and masonry materials.
Source of Findings:	
Suggested Plan of Action:	Not Applicable
Suggested Deadline Date:	
Standard:	Alliance Standard Part 6 Section 6.3.2 Interior Finish
Question:	Stair designation signs are provided at each floor entrance from the stair to the floor in English and Bengali. Signs indicate the name of the stair and the floor level. Signs are posted adjacent to the door.
Priority Level:	Low
Non-Compliance Level:	1
Description:	Signs are only provided at Stair 1 of Building 1 and Stair 2 of Building 2 not in compliance with Alliance Standard Part 6 Section 6.9.3.1.
Source of Findings:	Photograph: Stair designation sign at stair -2 building #2
Suggested Plan of Action:	Provide stair designation signs at each floor of each stair throughout the building in English and Bangla in accordance with the Alliance Standard.
Suggested Deadline Date:	20 May 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:	1
Description:	Only 120 people have been trained out of 2800 people.
Source of Findings:	Document Review: Document of internal training.
Suggested Plan of Action:	Provide training for the required number of people certified in firefighting, first aid, and rescue training by the appropriate authority.
Suggested Deadline Date:	30 Sep 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:	Kitchen was found on roof deck of building #1. Gas burner was used for cooking there.	
Source of Findings:	Photograph: Kitchen at roof deck of building #1	
Suggested Plan of Action:	Remove the kitchen from the factory building.	
Suggested Deadline Date:	08 Jul 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:	An emergency evacuation plan has not been developed and communicated to all employees.	
Source of Findings:	Document Review: No document was found during this visit.	
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:	20 May 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:	1	
Description:	The factory has not received the Alliance Safety Training Curriculum from Alliance at the date of this assessment.	
Source of Findings:	Document Review: No documentation of this training was available.	
Suggested Plan of Action:	Training programs need to be implemented and documented in accordance with the Alliance Safety Training Curriculum.	



Suggested Deadline Date:	30 Sep 2014	
Standard:	Alliance Standards Part 13	
Question:	A Fire Safety Director position has been filled.	
Priority Level:	Low	
Non-Compliance Level:	1	
Description:	No fire safety director has been designated in this factory.	
Source of Findings:	Document Review: Document Review: No post of fire safety director was available	
Suggested Plan of Action:	Create a Fire Safety Director position and fill the position with an individual that has had sufficient training to be able to carry the required duties.	
Suggested Deadline Date:	30 Sep 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:	1	
Description:	Fire Department pre-planning has not been completed.	
Source of Findings:	Document Review: No document was found during visit.	
Suggested Plan of Action:	Complete fire department pre-planning activities with the local Fire Service and Civil Defence.	
Suggested Deadline Date:	20 May 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:	1	
Description:	No written housekeeping policy has been established and enforced; only a checklist was found.	
Source of Findings:	Photograph: Documentation of housekeeping	
Suggested Plan of Action:	Need to 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.). 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 Dec 2014	
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:	No hot-work permit program has been established. During this visit, no hot work operations were noted; however, the maintenance room in Shed #2 has equipment for welding, metal grinding, cutting, etc.	
Source of Findings:	Photograph: Machine for hot work.	
Suggested Plan of Action:	Need to develop a hot work permit program. The program must comply with the requirements of NFPA 51B	
Suggested Deadline Date:	30 Sep 2014	
Standard:	Alliance Standards Part 13 Section 13.4 Hot Work Permit and NFPA 51B	