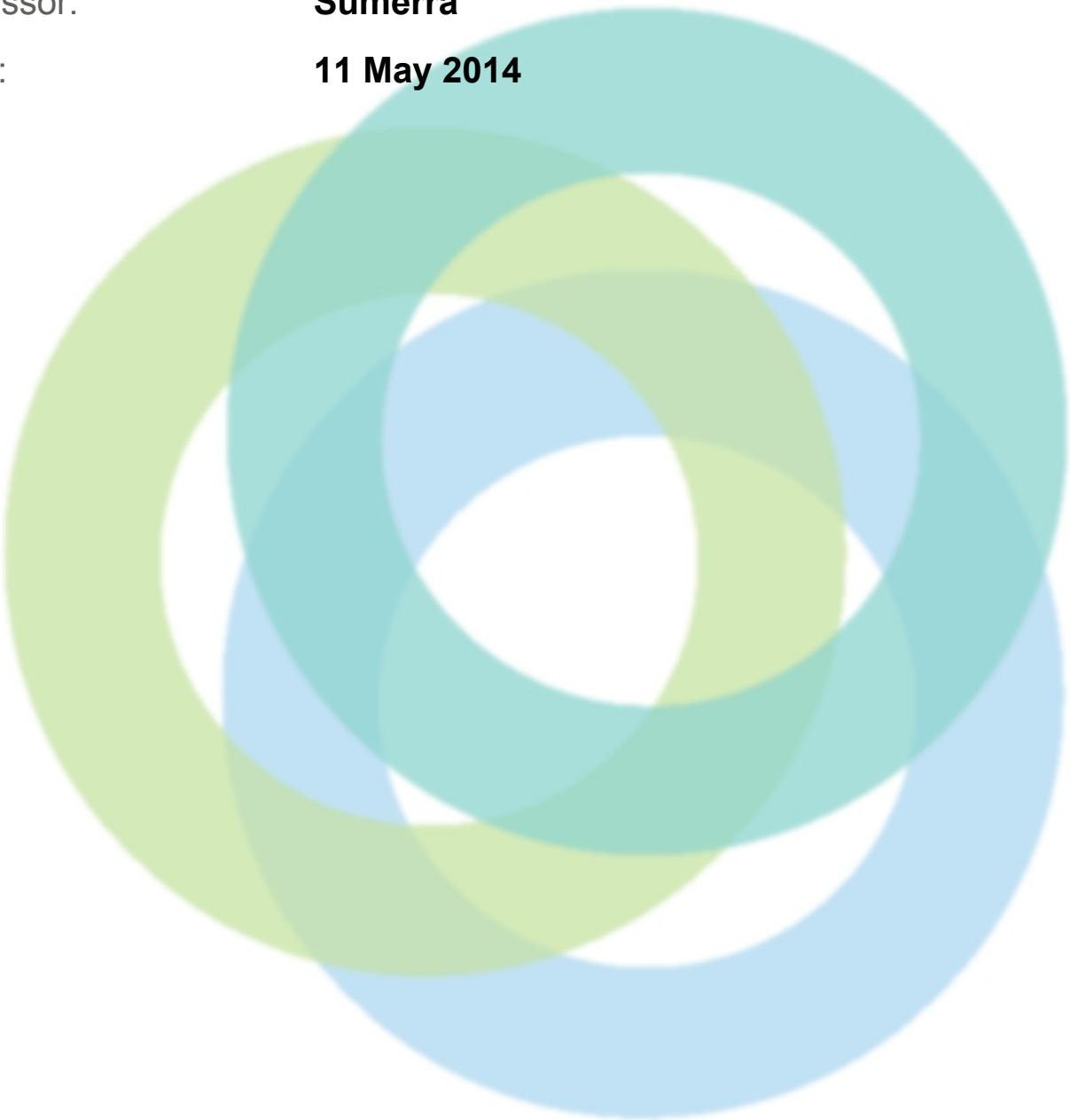


INITIAL FIRE ASSESSMENT REPORT (FAR)

Factory Name: **MENS FASHION LIMITED**
Address: **49 NP kalurghat Heavy Industrial area, Chittagong
Chittagong Chittagong Bangladesh**
Assessor: **Sumerra**
Date: **11 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:	MENS FASHION LIMITED
Address:	49 NP kalurghat Heavy Industrial area, Chittagong Chittagong Chittagong Bangladesh
Country:	Bangladesh
Province:	Chittagong
City:	Chittagong
Zip Code:	4208
Audit Duration:	2 Days
Re-Audit:	Re-Audit After 0 Months
Draft Report Date:	June 11, 2014
Final Report Date:	June 21, 2014
Are all Action Items From Previous Assessment Completed?:	N/A
Buildings in Complex:	1
Is the building(s) owned or rented by the Factory:	Owned
Number of Building Levels (Stories):	8 storied RCC building. Storage of raw materials and finished goods. (a) GF = Office Room + Cutting + Sewing + Finishing + Finishing sub-store + Generator & Transformer with sub-station room + Boiler Room, Embroidery Room + Child care + Washing Plant + Chemical Store Room + Fire pump with diesel engine. (b) 1st Flr. = Office room + Cutting + Sewing + Finishing + Finishing sub-store + Compressor Room + Dinning Room (c) 6th Flr. = Office room + Cutting + Sewing + Finishing + Finishing sub-store + CTPAT packing room + Maintenance Store etc..
Approximate Building Area (SF):	105,588 Sft. out of this 68,288 Sft. Is used by Mens Fashion Ltd., Rest area commonly used by other four sister concern companies.
Date of Building Construction:	Started in the year of Nov/1980 As per CDA plan. It is a 8 Storied building.
Date of Last Building Renovation/Addition:	N/A
Ancillary Structures in Complex:	2 Ancillary: Office and Generator & Sub-station Building

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Approximate Ancillary Structures Area (SF):	3100 sq ft for Ancillary Structures
Number of Occupants:	Approx. 8000 persons are employed in the entire complex. The scope of the assessment was limited to the main building and 2 ancillary buildings that were used by the factory in scope. For the main building the maximum occupancy was 550 persons per floor.
Number of Ancillary Levels (Stories):	1 story each
Occupancy Type:	Main Building: G2 Ancillary Buildings: K
Construction Type:	Main Building: Type I Ancillary Buildings: Type 2
Height of Highest Occupied Floor Level Above Grade:	8 storied RCC building. Total height of building (Ground floor to 8th Floor) each 12ft. So, total height is 96 ft. Highest occupied floor level 84 ft.



ASSESSMENT FINDINGS

Fire Protection Construction

Question:	Are openings and penetrations through rated walls and/or assemblies protected?
Priority Level:	High
Non-Compliance Level:	3
Description:	At this factory, penetrations were observed through the fire rated wall separating the stair and the main production area for passing electrical wiring (located at the corner of each factory floor).
Source of Findings:	Photograph: Photos of openings in the walls
Suggested Plan of Action:	Penetrations through fire rated walls shall be protected/sealed with a listed through penetration firestop system tested in accordance with ASTM E814. Confirmation should be provided that any materials used can conform to standard as per Alliance Standard Section 4.7 Penetrations
Suggested Deadline Date:	03 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:	Exit enclosures are not provided with fire resistive rated construction barriers. It was noted during the audit that fire rated door assemblies are not provided for entrance and exit stairs. Additionally, there is a gap on top of the wall (upto eastside stair) in every floor (for ventilation purpose).
Source of Findings:	Photograph: Photo of non-fire rated doors Photo of wall penetration
Suggested Plan of Action:	Provide minimum 1.5-hr fire rated doors in 2-hr rated stair enclosure and seal all unprotected openings to separate the exit stairs from work areas and other building spaces on all floor levels. Ensure that the fire doors are self-closing and positive latching and that they are provided with fire exit (panic)hardware where serving production floors. Fire doors assemblies shall conform to NFPA 252, BS 476 Part 22, EN 1364-1, GB 12955-2008, or IS 3614 Part II. Retain the services of qualified fire engineer to assist in specifying and installing fire rated assemblies.
Suggested Deadline Date:	03 Sep 2014





Standard:	Reference Alliance Standards Part 4 Section 4.5 Separation	
Question:	Are separations between hazards provided with fire-resistive rated construction barriers.	
Priority Level:	Medium	
Non-Compliance Level:	3	
Description:	Separations are not provided in following locations: - Transformer/Generator Room: Generator and transformer with sub-station room is in the same room at GF. It is separated by a fire rated wall, however, there is no fire rated door assembly. - Boiler rooms: Boiler room is in the GF. It is protected by wall with sufficient rating; however, it has opening without fire rated door assembly. - Fire Pump room does not have fire rated separation - Stores at various floors (e.g. GF west side fabric store, 6th Floor north in process materials, 6th floor north west side fabric store, south east side middle material storage) do not have required fire rated assemblies	
Source of Findings:	Photograph: Photos of generator room, boiler room, storage areas	
Suggested Plan of Action:	It is recommended to retain the services of a qualified fire engineer to design segregations as follows: Boiler room: Separated from other occupancies by a minimum 1 hour construction. Generator Room: Generator sets shall be separated from all other occupancy areas by a minimum 2 hour construction. Transformer: Rooms used for the housing of oil-filled transformers shall be in compliance with BNBC Part 4 Section D 15 for high-rise buildings. Storage Areas: Rooms used for storage of combustible materials shall be separated from the surrounding occupancy with a minimum 1 hour construction. (In process storage open to the surrounding occupancy is not required to be separated when the floor is provided with automatic sprinkler protection) Fire Pump Room: Separated from all other areas by a minimum 2 hour construction.	
Suggested Deadline Date:	24 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:	3	
Description:	No certification of Occupancy was on file at the factory.	



Source of Findings:	Document Review: Certificate of Occupancy could not be reviewed.
Suggested Plan of Action:	Factory needs to have Certificate of Occupancy on file at the factory and provide as proof.
Suggested Deadline Date:	23 Jul 2014
Standard:	Are certificates of occupancy provided for each building or ancillary structure?

Fire Protection Systems

Question:	Is the building protected by an automatic sprinkler system?
Priority Level:	High
Non-Compliance Level:	3
Description:	There is no sprinkler system located within the factory.
Source of Findings:	Visual Assessment: No sprinkler system was observed at the factory.
Suggested Plan of Action:	Install an automatic sprinkler system throughout the building designed by a qualified fire protection engineer in accordance with NFPA 13 and Alliance Standard.
Suggested Deadline Date:	03 Sep 2014
Standard:	Reference Alliance Standards Part 3 Section 3.5.3 Existing Buildings, Part 5 Section 5.3 Automatic Sprinkler Systems and Section 6.13 Travel Distance
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:	An automatic fire alarm and detection system shall be provided; however, the factory only has a manual alarm system with single point smoke detection at this time.
Source of Findings:	Photograph: Single point smoke detector
Suggested Plan of Action:	Install automatic fire alarm system with sufficient smoke/heat detectors as per NFPA 72 and Alliance Standard. Automatic detectors should be tied into the fire alarm system. Alarm system should initiate occupant notification upon activation of detectors in addition to the manual fire alarm stations. All fire alarm installations shall be submitted for review by the Alliance for review prior to commencement of installation.
Suggested Deadline Date:	03 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:	Does the building have a Standpipe System?	
Priority Level:	High	
Non-Compliance Level:	2	
Description:	Factory has a standpipe system, however, it is not compliant with standard. In each floor there are 03 Nos. of Class II (38mm) hose reels. There is 06 Nos. of 65mm connections at outside wall of GF for attachment of fire brigade hoses as well as fire department connections to supply the system manually.	
Source of Findings:	Photograph: Photo of Class I and II connections	
Suggested Plan of Action:	Install a standpipe system designed by a qualified fire protection engineer in accordance with NFPA 14 and Alliance Standard. System should include Class I standpipe hose connections (65 mm) in each stairwells at each floor level including occupiable roof.	
Suggested Deadline Date:	26 Nov 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:	1	
Description:	Factory has pump (China Made Juki brand), however the manufacturer catalogue was not available and specification plate of the fire pump was not visible. Is is unclear if fire pump is listed for fire pump application (not tested and certified by accredited laboratory as fire pump). Fire pump valve are not electronically supervised by fire alarm control unit.	
Source of Findings:	Photograph: Fire pump.	
Suggested Plan of Action:	Existing pump must be evaluated against requirements of NFPA 20 by a qualified fire engineer. Any deficiencies must then be rectified based on advise of engineer. All evaluations should be fully documented. All valves controlling fire pumps systems shall be electrically supervised by fire alarm system control unit.	
Suggested Deadline Date:	26 Nov 2014	
Standard:	Alliance Standard Part 5 Fire Protection Systems	
Question:	Are fire department connections provided and clearly identified for the Fire Protection Systems?	
Priority Level:	Medium	



Non-Compliance Level:	3
Description:	Factory does not have compliant fire department connections as required.
Source of Findings:	Visual Assessment: Compliant fire department connections not observed.
Suggested Plan of Action:	Fire department (Siamese) inlet connections should be installed to allow fire department pumper equipment to supplement the fire protection systems. 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. Signage for standpipe system is not in compliance with NFPA 14 Chapter 6 (e.g. no sign on Fire Department connection indicating STANDPIPE in 1 in lettering)
Suggested Deadline Date:	03 Sep 2014
Standard:	Alliance Standard Part 5 Section 5.5.4 Fire Department Connections
Question:	Are there additional areas of non-compliance related to the Fire Protection Systems?
Priority Level:	Medium
Non-Compliance Level:	3
Description:	Fire alarms system is not being maintained in accordance with NFPA 72.
Source of Findings:	Document Review: Records were not available that can confirm compliance with testing per NFPA 72.
Suggested Plan of Action:	Develop a testing and maintenance policy and system. Test and maintain fire alarm systems per NFPA 72.
Suggested Deadline Date:	26 Feb 2015
Standard:	Not Applicable
Question:	Are inspection, maintenance, and testing procedures of the fire pump documented and up to date?
Priority Level:	Low
Non-Compliance Level:	3
Description:	The fire pump is newly installed. However, there are no documents available for review to show that inspection and maintenance is up to date or initial testing for conformance to NFPA 20 (or BNBC code).
Source of Findings:	Document Review: No fire pump documentation available for review.
Suggested Plan of Action:	Establish an inspection, maintenance, and testing program for the fire pump. Program must comply with NFPA 25. Provide hydraulic calculations to assure compliance with standards.



Suggested Deadline Date:	26 Nov 2014
Standard:	Reference NFPA 25 Chapter 8 Fire Pumps
Question:	Is signage for the standpipe system installed at required locations and on required components?
Priority Level:	Low
Non-Compliance Level:	2
Description:	As noted elsewhere, factory does not have a standpipe system as defined by Alliance standard. For existing system, the required standpipe signage was not observed.
Source of Findings:	Visual Assessment: Required standpipe signage was not observed.
Suggested Plan of Action:	Upon installation of compliant standpipe system, include required identification signs at the noted locations. Signage must comply with NFPA 14.
Suggested Deadline Date:	03 Sep 2014
Standard:	Reference NFPA 14 Chapter 6
Means of Egress	
Question:	Doors are not locked in the direction of egress under any conditions. All hasps, locks, slide bolts, and other locking devices have been removed where required.
Priority Level:	High
Non-Compliance Level:	3
Description:	During the assessment it was noted that the doors are open. Furthermore, the doors can be locked. The collapsible gate cannot be sealed or closed during occupied time. Nevertheless, there is locking systems. Not permitted per Alliance Standards Part 6 Section 6.8 Doors and Gates
Source of Findings:	Visual Assessment: Collapsible gate at the factory.
Suggested Plan of Action:	Remove all hasps and locking devices. If locks are required for security reasons, utilize special door locking features complying with NFPA 101.
Suggested Deadline Date:	25 Jun 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:	No doors in a means of egress are of side hinged swinging type as per Alliance Standards Part 6 Section 6.8 Doors and Gates. All doors are roll up type doors.	
Source of Findings:	Photograph: Example Doors (sliding), Visual Assessment: Collapsible doors at the factory.	
Suggested Plan of Action:	Remove all collapsible doors at and within the exit stairs and along all portions of the means of egress. Replace with side hinged swinging type doors per Alliance Standards Part 6 Section 6.8 Doors and Gates.	
Suggested Deadline Date:	03 Sep 2014	
Standard:	Alliance Standards Part 6 Section 6.8 Doors and Gates	
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:	There were no fire rated doors in all / every floor. In the Ground Floor northwest stair discharge area, the floor window is within 5 ft. Any windows adjacent to stair enclosure should be fire rated.	
Source of Findings:	Visual Assessment: Fire Rated doors were not observed. Windows observed near the stairwell.	
Suggested Plan of Action:	Interior exit stairways and ramps shall terminate at an exit discharge except where terminating at an exit passageway is constructed to meet the same rating requirement as the exit that is being served and shall not be less than 1 hr fire-resistance rated construction, therefore a fire rated exit passageway would need to be established for both stair discharges.	
Suggested Deadline Date:	03 Sep 2014	
Standard:	Alliance Standard Part 6 Section 6.14 Exit Enclosures	
Question:	Stairwells are not utilized as storage spaces.	
Priority Level:	High	
Non-Compliance Level:	3	
Description:	Storage is located under the south stair.	
Source of Findings:	Visual Assessment: Storage under the stairwells are observed.	



Suggested Plan of Action:	Remove all stored materials under the stairwells at the noted locations.	
Suggested Deadline Date:	18 Jun 2014	
Standard:	Alliance Standard Part 13 Section 13.9 Safety Inspections	
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:	2	
Description:	The width of the doors along the path of egress is fine; however, the exit doors are not fire rated assemblies. This is not in compliance with Alliance Standard Part 6 Section 6.5.6 Minimum Widths. Increased occupant loads will require a door width greater than 0.8 m.	
Source of Findings:	Photograph: Example Door, Visual Assessment: Doors observed not to be fire rated.	
Suggested Plan of Action:	Egress exit doors need to 1.5 hr rated with panic hardware and self closing hardware in accordance with Alliance standard.	
Suggested Deadline Date:	03 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 occupied roofs are provided with parapets or guards with a minimum height of 1067 mm (42 in.).	
Priority Level:	Medium	
Non-Compliance Level:	3	
Description:	The roof did not meet the Alliance requirement of a minimum height of 1067 mm (42 in.). It was assessed that the roof parapet height at the factory is 39.6 inches, below the requirement.	
Source of Findings:	Photograph: Photo of Roof Parapet	
Suggested Plan of Action:	Roof Parapet needs to meet the minimum requirements (42 in.) of roof height per Alliance Standard Part 6 Section 12 Handrails and Guard.	
Suggested Deadline Date:	26 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:	3
Description:	Occupant loads are not posted for every assembly and production floor in a conspicuous space near the main point of egress as per Alliance Standards Part 6 Section 6.4.4 Posting of Occupant Load.
Source of Findings:	Visual Assessment: No occupant loads posted at factory.
Suggested Plan of Action:	Post maximum occupant load for all areas (near exit)
Suggested Deadline Date:	09 Jul 2014
Standard:	Alliance Standards Part 6 Section 6.4.4 Posting of Occupant Load
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:	While the height of the handrail is ok, the handrails are provided on only one side of the stairwell. (See Photo # F20)
Source of Findings:	Photograph: Photo of no handrail at the wall side in interior stairwells.
Suggested Plan of Action:	Handrails shall be provided on both sides of each exit stairway and ramp. New handrails shall have 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.
Suggested Deadline Date:	26 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:	Re-entry requirements have not been met per Alliance Standards Part 6 Section 6.8.3.1 as fire rated door assemblies with proper latching systems have not been installed. As noted in other areas, fire rated door assemblies are required for the exit enclosure.
Source of Findings:	Visual Assessment: Fire doors not installed on exit enclosure
Suggested Plan of	During installation of fire rated door assemblies assure that every door in a





Action:	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.
Suggested Deadline Date:	03 Sep 2014
Standard:	Alliance Standards Part 6 Section 6.8 Doors and Gates
Question:	Changes in elevation of walking surfaces do not exceed 6.35 mm (1/4 in) unless provided with a beveled slope of 1 in 2 that does not exceed 12.7 mm (1/2 in).
Priority Level:	Medium
Non-Compliance Level:	2
Description:	At all steel collapsible gates there is a lip of 02 inches. In ground floor embroidery room has raised barrier (1 ft) for protecting rain / flood water.
Source of Findings:	Photograph: Photo of lip at gates Photo of barrier at embroidery room
Suggested Plan of Action:	Remove lips / slider tracks in the paths of exit/egress in all noted locations. Remove barrier to embroidery room.
Suggested Deadline Date:	25 Jul 2014
Standard:	Alliance Standard Part 6 Section 6.3.4 Walking Surfaces
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:	3
Description:	Signs indicating floor level are posted adjacent to the door, however, stairs have not been designated as per Alliance Standard Part 6 Section 6.9 Stairs.
Source of Findings:	Visual Assessment: No stair designation was observed per Alliance standards.
Suggested Plan of Action:	Install signage adjacent to each stair door indicating the stair name (designate each stair with a unique name/ID) and the floor level at the noted locations in English and Bengali.
Suggested Deadline Date:	09 Jul 2014
Standard:	Alliance Standard Part 6 Section 6.9 Stairs



Fire Safety Programs



Question:	Storage areas underneath the cutting tables are clear of combustibles.	
Priority Level:	Medium	
Non-Compliance Level:	3	
Description:	It was noted during the assessment that storage was observed under cutting table on the 6th Floor. The height of the cutting table is 2.6ft and the Depth is 6ft. This is not in compliance with Alliance Standard Part 17 Section 13.7.2 Cutting tables.	
Source of Findings:	Photograph: Photo of storage under table on 6th floor.	
Suggested Plan of Action:	Remove all combustibles stored underneath the cutting tables at the noted locations.	
Suggested Deadline Date:	02 Jul 2014	
Standard:	Alliance Standard Part 17 Section 13.7.2 Cutting tables.	
Question:	A written housekeeping policy is established and enforced.	
Priority Level:	Low	
Non-Compliance Level:	3	
Description:	At the factory it was discovered there was no housekeeping policy established.	
Source of Findings:	Document Review: No housekeeping document to review.	
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:	18 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:	3	
Description:	When speaking with the factory, they generally do not conduct any hot work inside factory premise. Regardless, they do not have any hot work permit.	
Source of Findings:	Document Review: No hot-work permit program document to review.	
Suggested Plan of	Develop a hot work permit program. The program must comply with the	

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Address: **49 NP kalurghat Heavy Industrial area, Chittagong Chittagong Chittagong Bangladesh**

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Action:	requirements of NFPA 51B	
Suggested Deadline Date:	26 Nov 2014	
Standard:	Alliance Standards Part 13 Section 13.4 Hot Work Permit and NFPA 51B	