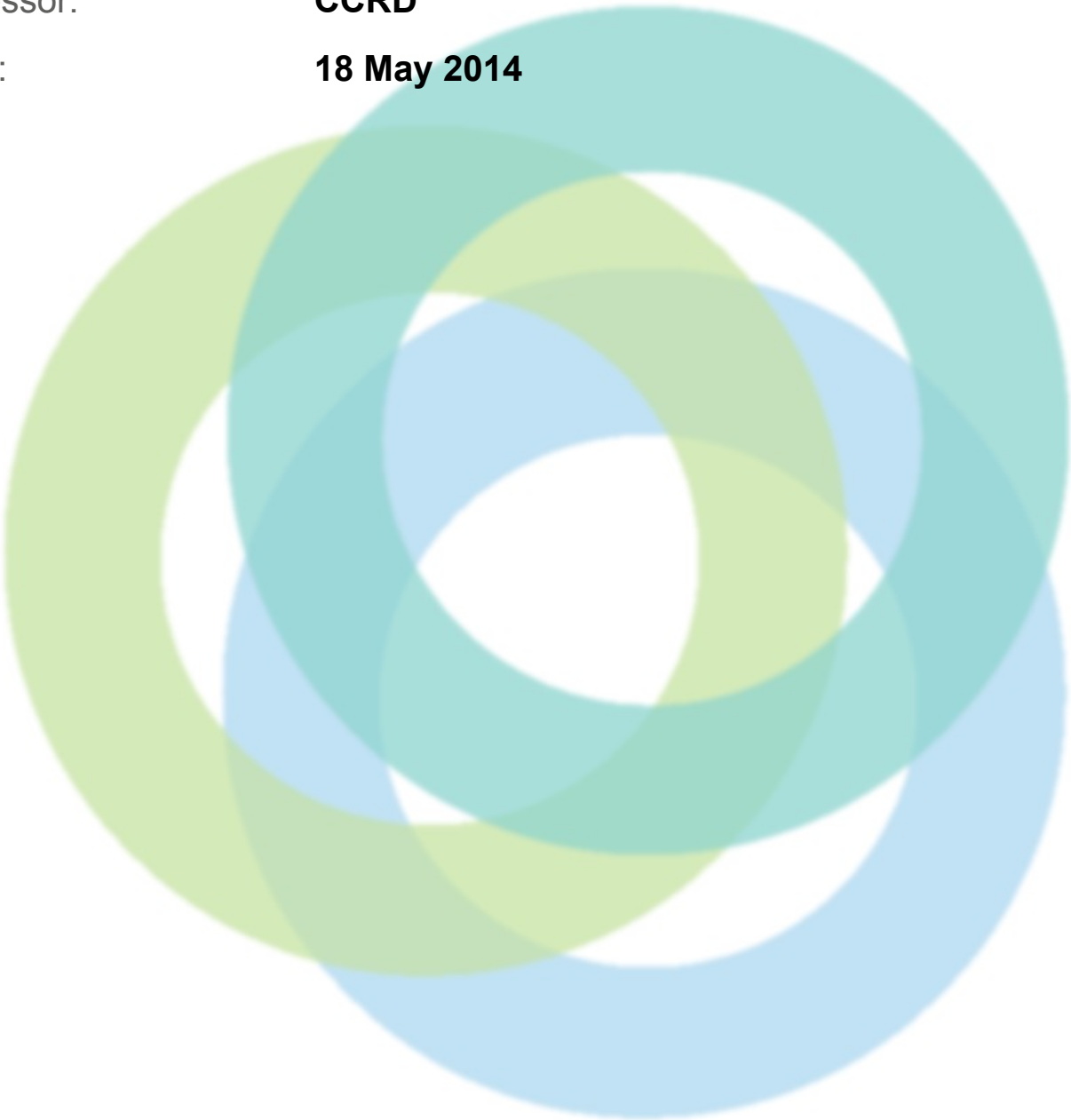


INITIAL FIRE ASSESSMENT REPORT (FAR)

Factory Name: **Pacific Jeans Ltd**
Address: **Plot# 14-19, Adjacent-14 & 36, Sector-5 CEPZ,
Chittagong Chittagong Chittagong Bangladesh**
Assessor: **CCRD**
Date: **18 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:	Pacific Jeans Ltd
Address:	Plot# 14-19, Adjacent-14 & 36, Sector-5 CEPZ, Chittagong Chittagong Chittagong Bangladesh
Country:	Bangladesh
Province:	Chittagong
City:	Chittagong
Zip Code:	4223
Audit Duration:	
Re-Audit:	Re-Audit After 0 Months
Draft Report Date:	June 5, 2014
Final Report Date:	June 30, 2014
Are all Action Items From Previous Assessment Completed?:	N/A
Buildings in Complex:	01 Main Factory
Is the building(s) owned or rented by the Factory:	Owned
Number of Building Levels (Stories):	6
Approximate Building Area (SF):	01 = 490860
Date of Building Construction:	1994
Date of Last Building Renovation/Addition:	2000
Ancillary Structures in Complex:	02 Plant & Processing 03 Workshop & Process
Approximate Ancillary Structures Area (SF):	02 = 33072 03 = 14818
Number of Occupants:	01 = 8746 02 = 397 03 = 238

Factory Name: **Pacific Jeans Ltd**
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Number of Ancillary Levels (Stories):	5
Occupancy Type:	Jeans factory
Construction Type:	reinforced concrete
Height of Highest Occupied Floor Level Above Grade:	50 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:	Wall penetrations are not protected with listed firestop systems.	
Source of Findings:	Visual Assessment: Unprotected penetrations	
Suggested Plan of Action:	Install a listed firestop system at every penetration through a fire wall.	
Suggested Deadline Date:	31 Dec 2014	
Standard:	Includes doors, windows, ducts, piping, etc. Reference Alliance Standards Part 4 Section 4.6 Opening Protectives and Section 4.7 Penetrations	
Question:	Is each floor separated with a fire-resistive rated construction barrier?	
Priority Level:	High	
Non-Compliance Level:	3	
Description:	Floor penetrations are not protected with listed firestop systems.	
Source of Findings:	Photograph: Electrical risers through open floor penetrations.	
Suggested Plan of Action:	Protect every floor penetration with a listed firestop system.	
Suggested Deadline Date:	31 Dec 2014	
Standard:	Reference Alliance Standards Part 4 Section 4.5 Separation	



Question:	Are exit enclosures provided with fire-resistive rated construction barriers?
Priority Level:	High
Non-Compliance Level:	3
Description:	Exit stairs in the factory building are open to the levels, with no fire rated separation. Some exit stairs are non-continuous. Processing building includes unenclosed 5 story stair.
Source of Findings:	Photograph: The stair is non-continuous. Processing building includes unenclosed 5 story stair.
Suggested Plan of Action:	Protect all egress stairs with a shaft enclosure including 2-hour fire-rated construction. Construct rated exit passageways to create continuous exit enclosures. Install fire rated doors.
Suggested Deadline Date:	31 Dec 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:	The elevator shaft is not furnished with doors and includes an opening to dining at the top. The lack of doors creates a falling hazard as well.
Source of Findings:	Photograph: open elevator shaft
Suggested Plan of Action:	Install rated doors for all elevators and close openings to create a rated shaft.
Suggested Deadline Date:	31 Dec 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:	Hazardous areas including storage are not separated from the factory floor.
Source of Findings:	Visual Assessment: Storage not separated
Suggested Plan of Action:	Provide fire-resistive rated construction barriers between hazard types in accordance with Alliance Standard Sections 3.4.2 and 4.5. Consult a qualified fire protection engineer to design the required rated construction barrier.





Suggested Deadline Date:	31 Dec 2014	
Standard:	Reference Alliance Standards Part 4 Section 4.5 Separation	
Fire Protection Systems		
Question:	Does the building have a Standpipe System?	
Priority Level:	High	
Non-Compliance Level:	1	
Description:	A system of hose racks is installed for occupant use. A Class III standpipe is planned, but not yet installed. An onsite review of the plans indicated that the system was not properly designed.	
Source of Findings:	Visual Assessment: Small hoses	
Suggested Plan of Action:	Install a Class III standpipe system at required locations. Standpipe system must comply with NFPA 14.	
Suggested Deadline Date:	31 Dec 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:	Four fire pumps are being installed. Only one is required. The pumps that are being installed are under-sized. The drawings and calculations have not been submitted for approval.	
Source of Findings:	Photograph: Fire pumps being installed.	
Suggested Plan of Action:	Design the fire pumps to comply with NFPA 14 and 20. Submit drawings and calculations for approval. Secure approvals before beginning construction.	
Suggested Deadline Date:	31 Dec 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:	1	
Description:	A manual fire alarm system was installed. No detection system was installed,	



	but the factory plans to add smoke detectors.	
Source of Findings:	Visual Assessment: Non automatic fire alarm	
Suggested Plan of Action:	Install an automatic fire alarm system. Install initiating devices and notification appliances as required by the Alliance Standard and NFPA 72. Devices should be part of an automatic fire alarm and detection system for the facility.	
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:	Is the fire alarm and detection system monitored by a central station monitoring service or directly connected to the Fire Service and Civil Defense?	
Priority Level:	Medium	
Non-Compliance Level:	1	
Description:	Reporting to a centralized location was not provided.	
Source of Findings:	Visual Assessment: No central fire alarm reporting.	
Suggested Plan of Action:	Arrange for direct connection of the fire alarm and detection system to a central station monitoring service or the Fire Service and Civil Defence per Alliance Standard Part 5 Section 5.7.5 Monitoring. 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 trained to contact the Fire Service and Civil Defence in the event of fire alarm activation shall be provided. An annunciator shall be located in a constantly attended location (such as a fire control room) to alert this person.	
Suggested Deadline Date:	31 Dec 2014	
Standard:	Alliance Standard Part 5 Section 5.7.5 Monitoring	
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:	Stair 2 landings reduce 3'-11". Stair 3 landings reduce the effective width to 5'-2". Storage in stair 10 reduces width to 3'-0". Stair 11 lockers reduce width to 3'-8".	
Source of Findings:	Visual Assessment: Stair width reductions	
Suggested Plan of	Remove all storage and lockers from stairs. Widen landings where possible, or	



Action:	reduce the calculated exit width.	
Suggested Deadline Date:	31 Dec 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 8 disch. to jeans processing, 75' past ovens to exterior. Stair 10 discharges interior. 125' to exterior door. Stair 11 discharges interior.	
Source of Findings:	Visual Assessment: Interior stair discharge	
Suggested Plan of Action:	Create new exterior discharges for these stairs. Create foot bridges over the drainage area in the rear to facilitate egress.	
Suggested Deadline Date:	31 Dec 2014	
Standard:	Alliance Standard Part 6 Section 6.17 Exit Discharge. See Section 16.7.2 and 16.7.3 for exceptions.	
Question:	Means of egress are free from impediments, obstructions, and stored materials.	
Priority Level:	High	
Non-Compliance Level:	3	
Description:	Stair 2 level G filled with goods piled to 8'. Stairs 3 & 4 had carts stored on landings. Stair 5 obstructed by goods being rolled down the stairs. Stair 10 had storage that reduced width to 3'-0". Stairs 5, 6, 10, 11 had storage under the stairs.	
Source of Findings:	Photograph: Stair 5 obstructed by goods being rolled down the stairs.	
Suggested Plan of Action:	Remove all stored goods, lockers and desks from stairs. Move goods through stairs by carrying packages one at a time.	
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:	Gates at stair discharge were locked at closing time before all persons had left. Hasps, locks and roll up doors present.
Source of Findings:	Photograph: Locked gates at stair discharge.
Suggested Plan of Action:	Remove all existing non-compliant doors hardware and devices. Install listed rated fire doors with required hardware that cannot be locked in the direction of egress under any conditions.
Suggested Deadline Date:	31 Dec 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:	Doors are not listed, labeled, rated or approved. Sliding doors, gates, roll up doors and glass doors are installed in stairs.
Source of Findings:	Visual Assessment: Non rated doors
Suggested Plan of Action:	Remove all existing doors, gates hardware tracks and devices. Install listed, rated, labeled approved fire doors in all stair shafts and fire walls with the required hardware.
Suggested Deadline Date:	31 Dec 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 gates and roll up doors are used throughout the facility.
Source of Findings:	Visual Assessment: Sliding gates/doors
Suggested Plan of Action:	Remove all existing non-compliant doors, gates, hardware and tracks. Install listed, rated, labeled, approved doors in fire rated frames with latching panic





	hardware. These doors should be a minimum of 39 inches wide with a total opening of at least half the width of the stair. Doors should swing in the direction of egress from the floors into the stair.	
Suggested Deadline Date:	31 Dec 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 stairs are exposed to the building via windows.	
Source of Findings:	Visual Assessment: Exposed exterior stairs	
Suggested Plan of Action:	Fill in windows that are within 10 feet of exterior exit stairs with fire rated construction.	
Suggested Deadline Date:	31 Dec 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:	Stairs 8, 10 and 11 discharge inside the building.	
Source of Findings:	Visual Assessment: Interior stair discharge	
Suggested Plan of Action:	Rearrange or create new discharge passageways for the stairs that discharge inside the building.	
Suggested Deadline Date:	31 Dec 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:	Stair 02 Ground filled with goods piled to 8'. Carts were stored in stairs 3 and	



	4. Stair 10 and 11 included storage at Ground.	
Source of Findings:	Photograph: Storage in the stairs.	
Suggested Plan of Action:	Clear all stairs and exit paths of stored goods.	
Suggested Deadline Date:	31 Dec 2014	
Standard:	Alliance Standard Part 13 Section 13.9 Safety Inspections	
Question:	Occupant loads on each level (floor) do not exceed the capacity of the available means of egress.	
Priority Level:	High	
Non-Compliance Level:	1	
Description:	Gnd floor load=1006 capacity=1857; 1st floor load=2117 capacity=1857; 2nd floor load=2340 capacity=2200; 3rd floor load=1777 capacity=2009; 4th floor load=1384 capacity=1616; Top floor load=122 capacity=904;	
Source of Findings:	Visual Assessment: Inadequate stair width	
Suggested Plan of Action:	Construct additional stairs to accommodate the excess occupant loads on 1st, 2nd and 3rd. Alternately, reduce the number of occupants to below the existing egress capacities.	
Suggested Deadline Date:	31 Dec 2014	
Standard:	Alliance Standard Part 6 Section 6.4 Occupant Load	
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:	1	
Description:	Stair 02 landing reduces to 5'-3". Stair 03 landing reduces to 5'-2". Stair 06 landing reduces to 5'-5".	
Source of Findings:	Photograph: Stair landing width is reduced.	
Suggested Plan of Action:	Reduce the calculated exit width to the landing width, or rebuild the landings equal to the width of the stairs.	
Suggested Deadline Date:	01 Oct 2014	
Standard:	Alliance Standard Part 6 Section 6.9 Stairs and Section 6.5	



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:	No occupant load signs are installed.
Source of Findings:	Visual Assessment: No signage provided
Suggested Plan of Action:	Install occupant load signs as required.
Suggested Deadline Date:	31 Dec 2014
Standard:	Alliance Standards Part 6 Section 6.4.4 Posting of Occupant Load
Question:	Stair treads are of nominal uniformity.
Priority Level:	Medium
Non-Compliance Level:	2
Description:	Stair 03 is excessively steep 9.5"/8.5" at 3rd-4th. Stair 05 is chipped at Ground-1st. Stair 06 includes a broken bottom step. Stair 10 includes some broken steps. Stair 11 includes a 13" step and then 4" steps at 3rd. Stair 13 includes rusted, uneven, sloping steps.
Source of Findings:	Visual Assessment: Non uniform stairs
Suggested Plan of Action:	Repair broken steps. Replace steps that are uneven. Replace stringers that are excessively steep.
Suggested Deadline Date:	31 Dec 2014
Standard:	Alliance Standards Part 6 Section 6.9 Stairs. Any tread height exceeding more than 50% of the adjacent tread heights or 75 mm (3 in.), whichever is less, shall be modified to be within this tolerance
Question:	Handrails are provided on both sides of each stairway. Intermediate handrails are provided when the stair width exceeds 2.2 m (87 in.). Handrails are not mounted lower than 760 mm (30 in.) or higher than 1100 mm (44 in.).
Priority Level:	Medium
Non-Compliance Level:	2
Description:	Handrails are not provided on the outside of the stairs and there are no handrails installed at discharge steps.
Source of Findings:	Visual Assessment: Handrails inadequate
Suggested Plan of	Install handrails on both sides of all stairs and steps including at discharge.



Action:			
Suggested Deadline Date:	31 Dec 2014		
Standard:	Alliance Standard Part 6 Section 6.9 Stairs and 6.12 Handrails and Guards		
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:	1		
Description:	Mezzanines have door clearances of 4'-10", and ceiling heights of less than 6'-8".		
Source of Findings:	Photograph: Mezzanines have door clearances of 4'-10"		
Suggested Plan of Action:	Reconfigure mezzanines to meet minimum height requirements, especially at exit doors.		
Suggested Deadline Date:	31 Dec 2014		
Standard:	Alliance Standard Part 6 Section 6.3.3 Headroom		
Question:	All paths of egress are provided with compliant means of illumination.		
Priority Level:	Medium		
Non-Compliance Level:	1		
Description:	Some emergency lights were present and installed on emergency power.		
Source of Findings:	Visual Assessment: Insufficient exit lighting		
Suggested Plan of Action:	Provide illumination of egress paths at all times the building is occupied. Illumination needs to be a minimum of 10 lux for all corridors, exit doors and stairways. Illumination for aisles needs to be a minimum of 2.5 lux.		
Suggested Deadline Date:	31 Dec 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:	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:	1		
Description:	Exit signs are installed at exits only.		



Source of Findings:	Visual Assessment: Insufficient exit signage
Suggested Plan of Action:	Provide continuously illuminated exit signs at all required exits and along egress paths, especially where path has a change of direction.
Suggested Deadline Date:	31 Dec 2014
Standard:	Alliance Standard Part 6 Section 6.11 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 provided at the ground discharge only.
Source of Findings:	Visual Assessment: No signage provided
Suggested Plan of Action:	Install stair designation signs at each floor entrance from the stair.
Suggested Deadline Date:	31 Dec 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:	Materials are stored under cutting tables.
Source of Findings:	Visual Assessment: Storage under tables
Suggested Plan of Action:	Remove all storage from under cutting tables.
Suggested Deadline Date:	31 Dec 2014
Standard:	Alliance Standard Part 17 Section 13.7.2 Cutting tables.
Question:	A hot-work permit program has been established.
Priority Level:	Low
Non-Compliance Level:	3

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Description:	No hot work program is in place.
Source of Findings:	Worker Interviews: Factory managers indicated that no hot work program is in place.
Suggested Plan of Action:	Establish a documented program for hot work.
Suggested Deadline Date:	31 Dec 2014
Standard:	Alliance Standards Part 13 Section 13.4 Hot Work Permit and NFPA 51B