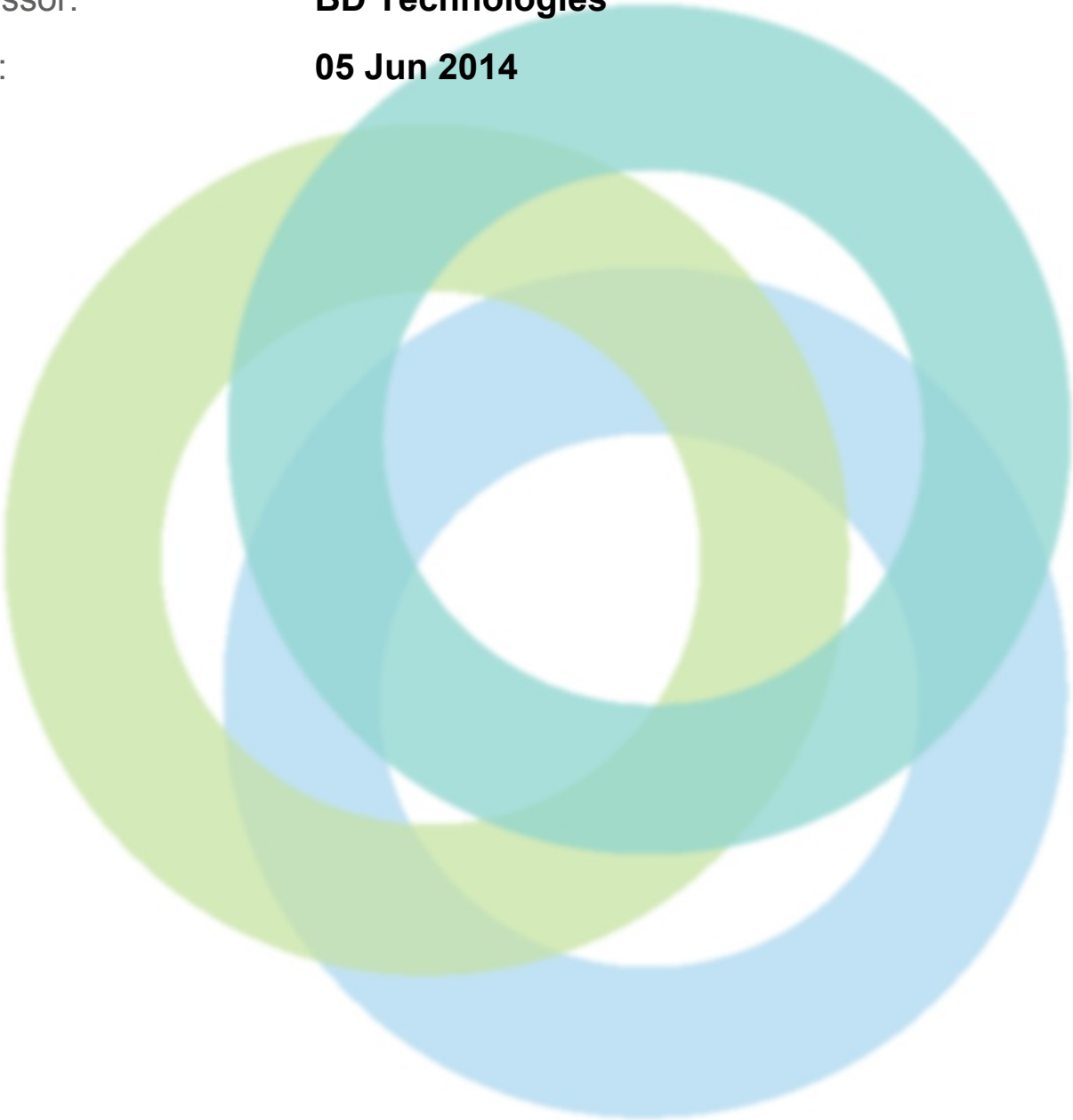


INITIAL FIRE ASSESSMENT REPORT (FAR)

Factory Name: **K M Apparels Ltd.**
Address: **8/A, Chanpara, Uttarkhan Uttara, Dhaka Dhaka Dhaka
Bangladesh**
Assessor: **BD Technologies**
Date: **05 Jun 2014**





Introduction to the Report

The following report contains a site profile and summary of non-conformities identified during an onsite assessment commissioned by the Alliance for Bangladesh Worker Safety (Alliance) and conducted by a third-party Qualified Assessment Firm (QAF). The assessment was conducted against the Alliance for Bangladesh Worker Safety Assessment Protocols (APs) and Fire Safety and Structural Integrity Standard, which is harmonized with the factory assessment guidelines developed by Bangladesh University of Engineering and Technology (BUET) for the Bangladesh National Tripartite Plan of Action (NTPA). The goal of the Alliance process is to provide clear and practical technical requirements by which Bangladeshi Ready Made Garment (RMG) Factories producing for Alliance members may be consistently and fairly evaluated for fire, structural, and electrical safety in a non-duplicative manner. Each assessment will prompt action plans that will be used by RMG factories to systematically and sustainably improve safety conditions for garment workers. Beyond tracking and reporting on action steps taken in a transparent manner, the Alliance organization and its members will seek to further support factory improvements through technical assistance, training, implementation support for functional Worker Committees, and in some cases financial assistance and wage support for workers if factories are closed for remediation.

The contents of the report do not constitute a guarantee of compliance with the applicable laws, the Alliance Standard or the absolute or continued safety against fire, electrical and/or structural integrity issues that may lead to injury or loss of life. The report is designed to provide a non-exhaustive summary of risk issues, based on a limited sampling and duration of time onsite by the named QAF. Neither the QAF nor the Alliance can certify or guarantee the quality, outcome, or effectiveness of actions taken in response to the report.

For more information and report feedback please go to: www.bangladeshworkersafety.org.





GENERAL INFORMATION

General Information	
Factory Name:	K M Apparels Ltd.
Address:	8/A, Chanpara, Uttarkhan Uttara, Dhaka Dhaka Dhaka Bangladesh
Country:	Bangladesh
Province:	Dhaka
City:	Dhaka
Zip Code:	1230
Audit Duration:	8 Hours
Re-Audit:	Re-Audit After 0 Months
Draft Report Date:	10/06/2014
Final Report Date:	11/06/2014
Are all Action Items From Previous Assessment Completed?:	N/A
Buildings in Complex:	<ul style="list-style-type: none"> • Building #1 -4 story R.C.C. main factory building using as sewing, cutting, finishing, inspection, sample, packing, substation, sub store and office room. • Building #2 – single story ancillary building using as generator room, • Building #3 – single story ancillary shed using as fabric store, wastage store, canteen and prayer room.
Is the building(s) owned or rented by the Factory:	Owned
Number of Building Levels (Stories):	<ul style="list-style-type: none"> • Building # 1 -4 story R.C.C. factory building (Height = 41 ft.) • Building # 2 –single story Generator room (Height = 10 ft.), • Building # 3 –ancillary shed GF.
Approximate Building Area (SF):	<ul style="list-style-type: none"> • Building # 1 -4 story R.C.C. factory building (Area= 10,000 + 8,000 + 8,000 + 8,000=34,000 sft) • Ancillary # 1 –single story Generator room (200 sft), • Ancillary # 2 –ancillary shed (2,000 sft). Total=36,200 sft.
Date of Building Construction:	Date of Building Construction: Main Building (2006-2007).
Date of Last Building Renovation/Addition:	Date of Last Building Renovation/ Addition: Ancillary shed (2013-2014).
Ancillary Structures in Complex:	<ul style="list-style-type: none"> • Ancillary # 1 –single story Generator room (Level-1), • Ancillary # 2 –ancillary shed (Level-1).
Approximate Ancillary	<ul style="list-style-type: none"> • Ancillary # 1 –single story Generator room (200 sft), • Ancillary # 2 –ancillary shed (2,000 sft). Total=2,200

Factory Name: **K M Apparels Ltd.**

Address: **8/A, Chanpara, Uttarkhan Uttara, Dhaka Dhaka Dhaka Bangladesh**

Assessor: **BD Technologies**

Date: **05 Jun 2014**



ALLIANCE
FOR BANGLADESH WORKER SAFETY

Structures Area (SF):	sft.
Number of Occupants:	GF = 92, 1st floor = 198, 2nd floor = 195, 3rd floor = 86 employee, Total= 571 employee.
Number of Ancillary Levels (Stories):	• Ancillary # 1 –single story Generator room (Level-1), • Ancillary # 2 –ancillary shed (Level-1).
Occupancy Type:	Occupancy Type: G-2 (assumed As per visual assessment).
Construction Type:	Construction Type-2 (As per visual assessment).
Height of Highest Occupied Floor Level Above Grade:	• Building#1- Heights Occupied level= 33 ft. • Ancillary # 1 –single story Generator room (Level-1), • Ancillary # 2 –ancillary shed (Level-1).



ASSESSMENT FINDINGS

Fire Protection Construction

Question:	Are exit enclosures provided with fire-resistive rated construction barriers?
Priority Level:	High
Non-Compliance Level:	3
Description:	Openings (exit doors, windows, ventilation and penetrations etc.) in 2-stairs (External stair case and west side large stair case) en-closer were not fire protected.
Source of Findings:	Visual Assessment: According to visual assessment and evidence Photo of this factory.
Suggested Plan of Action:	Provide minimum 2 hr. fire-resistive rated construction barriers at exit enclosures and 1.5 hour fire rated protection (fire door and window and penetration sill) in all openings which are connected to stair case (including 3 stair cases). Consult a qualified fire protection engineer to design the required rated construction barriers (as per Alliance Standards Part 4 Sections 4.5, 4.5.4.1, 4.5.7 (shaft), 4.6 (opening protective), 4.5.7.1 & BNBC Part 4 Section 2.5.
Suggested Deadline Date:	29 Sep 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:	Occupancy certificate not found for any of the building.
Source of Findings:	Document Review: According to document review and management interview of this factory.
Suggested Plan of Action:	Collect occupancy certificate for each building (mention occupancy type).
Suggested Deadline Date:	18 Aug 2014
Standard:	Are certificates of occupancy provided for each building or ancillary structure?



Fire Protection Systems



Question:	Does the building have a Standpipe System?
Priority Level:	High
Non-Compliance Level:	2
Description:	Undersized hose connections were provided and standpipe hose connection provisions for Fire Service & Civil defence were not available.
Source of Findings:	Photograph: Undersized hose system
Suggested Plan of Action:	Modify or install the Standpipe System to meet the requirements of the required Standpipe System Class as per NFPA-14 (install class-I standpipe hose connection provisions and class-II hose connections at all required stair cases on each level). Consult a qualified fire protection engineer before modify or installing a new system.
Suggested Deadline Date:	29 Sep 2014
Standard:	Does the building have a standpipe system installed where required. Alliance Standard Part 5 Section 5.4.2
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:	3
Description:	Smoke detectors are provided but there are some blind spots in each floor. The fire alarm and detection system monitored by a central station monitoring service but not directly connected to the Fire Service and Civil Defense.
Source of Findings:	Visual Assessment: According to visual assessment of this factory.
Suggested Plan of Action:	Install detection system so that it will cover the entire floor area (detectors properly spaced in accordance with NFPA 72). A person shall be assigned to contact with the fire department in the event of fire alarm activation as per Alliance Standard Part 5 Section 5.7.5 Monitoring.
Suggested Deadline Date:	03 Aug 2014
Standard:	Alliance Standard Part 5 Section 5.7.5 Monitoring
Question:	Are there additional areas of non-compliance related to the Fire Protection Systems?
Priority Level:	Medium
Non-Compliance Level:	3
Description:	A pipeline entered into substation room beside transformer and penetration found beside transformer. Also a battery and IPS placed beside the water tank and pipeline.





Source of Findings:	Photograph: Some photos of substation room.
Suggested Plan of Action:	Remove the water pipe line from substation room and sill the penetration with fire rated construction. Also remove the battery and IPS from this place.
Suggested Deadline Date:	31 Aug 2014
Standard:	Not Applicable
Question:	Are fire department connections provided and clearly identified for the Fire Protection Systems?
Priority Level:	Medium
Non-Compliance Level:	2
Description:	Fire department connections were not provided and clearly identified for the Fire Protection Systems.
Source of Findings:	Document Review: According to management interview and documents review.
Suggested Plan of Action:	Install fire department connections where required and in compliance with the Alliance Standard Part 5 Section 5.5.4. Connections shall match the Fire Service and Civil Defense hose thread standard. It will allow fire department pumper vehicles to draw water from ground -level or underground water storage tanks. Also provide a provision to feed water from civil defense vehicle in the stand pipe system.
Suggested Deadline Date:	23 Dec 2014
Standard:	Alliance Standard Part 5 Section 5.5.4 Fire Department Connections
Question:	Fire extinguishers are inspected, tested, and maintained as required.
Priority Level:	Medium
Non-Compliance Level:	2
Description:	Inspection, maintenance, and testing records of Fire extinguishers were not found.
Source of Findings:	Document Review: According to management interview and documents review.







Suggested Plan of Action:	Establish an inspection, testing, and maintenance program for all fire extinguishers. Program must comply with the requirements of NFPA 10 (Alliance standard: 13.10.3).	
Suggested Deadline Date:	23 Dec 2014	
Standard:	NFPA 10 Chapter 7	
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:	Factory building had standpipe with hose connection but inspection, maintenance, and testing records were not found.	
Source of Findings:	Document Review: According to management interview and documents review.	
Suggested Plan of Action:	Establish an inspection, maintenance, and testing program for the standpipe and hose system. Program must comply with the requirements of NFPA 25 (Reference NFPA 25 Chapter 6 Standpipe and Hose Systems Table 6.1.1.2).	
Suggested Deadline Date:	23 Dec 2014	
Standard:	Reference NFPA 25 Chapter 6 Standpipe and Hose Systems Table 6.1.1.2	
Question:	Is signage for the standpipe system installed at required locations and on required components?	
Priority Level:	Low	
Non-Compliance Level:	2	
Description:	Signage was not found and it was not installed at required locations.	
Source of Findings:	Visual Assessment: According to visual assessment of this factory.	
Suggested Plan of Action:	Install required identification signs at the noted locations. Signage and installation must comply with NFPA 14 (Reference NFPA 14 Chapter 6).	
Suggested Deadline Date:	18 Aug 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:	There were no document for inspection, maintenance, and testing procedures of the fire pump.	
Source of Findings:	Document Review: According to management interview and documents review.	
Suggested Plan of Action:	Establish an inspection, maintenance, and testing program for the fire pump. Program must comply with NFPA 25.	
Suggested Deadline Date:	23 Dec 2014	
Standard:	Reference NFPA 25 Chapter 8 Fire Pumps	
Means of Egress		
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 were not protected, had openings of exhaust fan and ground floor door of main factory building.	
Source of Findings:	Visual Assessment: According to visual assessment and evidence Photo of this factory.	
Suggested Plan of Action:	Provide minimum 2-hr fire-resistive rated construction to enclose the openings connected with exterior exit stairs (extend 3.05 m (10 ft) beyond the ends of the stair structure). Consult a qualified fire protection engineer to design the required rated construction barriers (as per Alliance Standards Part 6 Sections 6.3.1.2.2 & 6.3.1.3).	
Suggested Deadline Date:	29 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:	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:	Aisles were not found in the Sub store, Fabric store, Canteen and cartoon store.	
Source of Findings:	Visual Assessment: According to visual assessment of this factory.	



Suggested Plan of Action:	Make aisles marking with proper direction and with minimum 36 in. width. Keep aisles free of obstruction and higher occupancy loads will require a greater width to accommodate the increased load (Alliance Standard Part 6 Section 6.5 Egress Width).	
Suggested Deadline Date:	29 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:	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:	2	
Description:	Doors were found open in the audit period but they had locking devices.	
Source of Findings:	Visual Assessment: According to visual assessment and evidence Photo of this factory.	
Suggested Plan of Action:	Remove all hasps, locks, slide bolts, or other locking devices at the noted locations. Alliance Standards Part 6 Section 6.8 Doors and Gates.	
Suggested Deadline Date:	20 Jul 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:	2	
Description:	Some of the doors were collapsible or sliding type.	
Source of Findings:	Visual Assessment: According to visual assessment and evidence Photo of this factory.	
Suggested Plan of Action:	Provide side-hinged swinging type doors in all means of egress (Alliance Standards Part 6 Section 6.8 Doors and Gates).	
Suggested Deadline Date:	29 Sep 2014	
Standard:	Alliance Standards Part 6 Section 6.8 Doors and Gates	
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:	Testing records of emergency power for means of egress illumination were not found.
Source of Findings:	Document Review: According to management interview and documents review.
Suggested Plan of Action:	Develop a testing and maintenance program that ensures the operations of all emergency lights are 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 (Alliance Standards Part 10 Section 10.12 Illumination of Exit Signs and Means Of Escape Lighting).
Suggested Deadline Date:	03 Aug 2014
Standard:	Alliance Standards Part 10 Section 10.12 Illumination of Exit Signs and Means Of Escape Lighting
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:	Testing records of Emergency power exit signs were not found.
Source of Findings:	Document Review: According to management interview and documents review of this factory.
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 lights are tested on a monthly basis. Functional testing of battery powered signs is provided for a minimum 90 min once per year (Alliance Standard Part 10 Section 10.12 Illumination of Exit Signs and Means Of Escape).
Suggested Deadline Date:	03 Aug 2014
Standard:	Alliance Standard Part 10 Section 10.12 Illumination of Exit Signs and Means Of Escape.
Question:	Walking surfaces along the path of egress are uniformly slip resistant.
Priority Level:	Medium
Non-Compliance Level:	2
Description:	Walking surfaces along the path of egress were not uniformly slip resistant.





Source of Findings:	Visual Assessment: According to visual assessment of this factory.
Suggested Plan of Action:	Provide slip resistant surface in all the way of means of egress (Alliance Standard Part 6 Section 6.3.6 Slip Resistance).
Suggested Deadline Date:	23 Dec 2014
Standard:	Alliance Standard Part 6 Section 6.3.6 Slip Resistance
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 provided on single side of each stairway.
Source of Findings:	Visual Assessment: According to visual assessment of this factory.
Suggested Plan of Action:	Provided handrails on both sides of each stairway. Intermediate handrails shall be provided when the stair width exceeds 2.2 m (87 in.). Mount handrails height in between 30 in. to 44 in as per Alliance Standard Part 6 Section 6.9 Stairs and 6.12 Handrails and Guards.
Suggested Deadline Date:	23 Dec 2014
Standard:	Alliance Standard Part 6 Section 6.9 Stairs and 6.12 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:	1
Description:	Occupant loads are not posted anywhere in the assembly and production floor of the factory building.
Source of Findings:	Visual Assessment: According to visual assessment of this factory.
Suggested Plan of Action:	Provide the occupant load signage for every assembly and production floor in a facility in a conspicuous space near the main exit or exit access doorway for the space as per Alliance Standards Part 6 Section 6.4.4.
Suggested Deadline Date:	03 Aug 2014
Standard:	Alliance Standards Part 6 Section 6.4.4 Posting of Occupant Load
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 were not provided at each floor entrance from the stair to the floor in English and Bengali.
Source of Findings:	Visual Assessment: According to visual assessment of this factory.
Suggested Plan of Action:	Install signage adjacent to each stair door indicating the stair name and the floor level at the noted locations in English and Bengali (Alliance Standard Part 6 Section 6.9 Stairs).
Suggested Deadline Date:	03 Aug 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:	3
Description:	As per factory management interview some peoples were trained but its not sufficient. No documents were found about this.
Source of Findings:	Document Review: According to management interview, workers interview and documents review.
Suggested Plan of Action:	Arrange required (25%) number of people (trained and certified) in fire fighting, first aid, and rescue training by the appropriate authority accordance with the Alliance Safety Training Curriculum (Alliance standards part 13).
Suggested Deadline Date:	13 Dec 2014
Standard:	Alliance Standard Part 13 Human Element Programs
Question:	An emergency evacuation plan has been developed and communicated to all employees.
Priority Level:	Medium
Non-Compliance Level:	3
Description:	Emergency evacuation plan was not well known with the workers of this factory.
Source of Findings:	Worker Interviews: According to Worker Interviews of this factory.
Suggested Plan of	Develop an emergency evacuation plan which includes all components



Action:	required by the Alliance Standards and communicate the plan to all employees (Alliance Standards Part 13 Section 13.1 Fire Safety Director).	
Suggested Deadline Date:	03 Aug 2014	
Standard:	Alliance Standards Part 13 Section 13.1 Fire Safety Director	
Question:	Emergency egress maps are posted at the entrance to each exit stair or main point of egress.	
Priority Level:	Medium	
Non-Compliance Level:	3	
Description:	Emergency egress maps were posted but not in appropriate location of this factory.	
Source of Findings:	Visual Assessment: According to visual assessment and Photograph of Emergency egress maps.	
Suggested Plan of Action:	Post emergency egress maps at the entrance to each exit stair or main point of egress (Alliance Standards Part 13 Section 13.4 Evacuation Plan).	
Suggested Deadline Date:	03 Aug 2014	
Standard:	Alliance Standards Part 13 Section 13.4 Evacuation Plan	
Question:	Training programs are implemented and documented in accordance with the Alliance Safety Training Curriculum.	
Priority Level:	Medium	
Non-Compliance Level:	3	
Description:	Certificates and proper documentations were not found about training program.	
Source of Findings:	Document Review: According to document review and management interview of this factory.	
Suggested Plan of Action:	Provide training programs and record document in accordance with the Alliance Safety Training Curriculum (Alliance Standards Part 13).	
Suggested Deadline Date:	03 Aug 2014	
Standard:	Alliance Standards Part 13	



Question:	Storage areas underneath the cutting tables are clear of combustibles.
Priority Level:	Medium
Non-Compliance Level:	2
Description:	Storage areas underneath the cutting tables were not clear of combustibles.
Source of Findings:	Visual Assessment: According to visual assessment of this factory.
Suggested Plan of Action:	Remove all combustibles stored underneath the cutting tables at the noted locations.
Suggested Deadline Date:	20 Jul 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
Description:	A hot-work permit program had not established yet.
Source of Findings:	Document Review: According to documents review of this factory.
Suggested Plan of Action:	: According to Alliance Standard, Part-9, Section-9.1.7, develop a hot work permit program. The program must comply with the requirements of NFPA 51B. In general, this program should address process of request and approval authorities, necessary checks prior approval, standby fire watch and fire fighting equipment, sounding of alarm procedure, duration and expiry of permit and re-approval procedure etc.
Suggested Deadline Date:	23 Dec 2014
Standard:	Alliance Standards Part 13 Section 13.4 Hot Work Permit and NFPA 51B
Question:	A Fire Safety Director position has been filled.
Priority Level:	Low
Non-Compliance Level:	2
Description:	Fire Safety Director was not found.
Source of Findings:	Visual Assessment: According to management interview and documents review.
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 out the required duties (Alliance Standards Part 13 Section 13.1 Fire Safety Director).
Suggested Deadline	23 Dec 2014





Date:	
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 has not completed.
Source of Findings:	Document Review: According to management interview and documents review.
Suggested Plan of Action:	Complete fire department pre-planning activities with the local Fire Service and Civil Defense (Alliance Standards Part 13 Section 13.1 Fire Safety Director).
Suggested Deadline Date:	03 Aug 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:	A written housekeeping policy was not established and enforced.
Source of Findings:	Visual Assessment: According to management interview and documents 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 m ² (500 ft ²). Limit dense deposits to 6 mm (¼ in.) and oil saturated deposits to 3.2 mm (⅛ in.) (Alliance Standards Part 13 Section 13.6 Housekeeping).
Suggested Deadline Date:	18 Mar 2015
Standard:	Alliance Standards Part 13 Section 13.6 Housekeeping