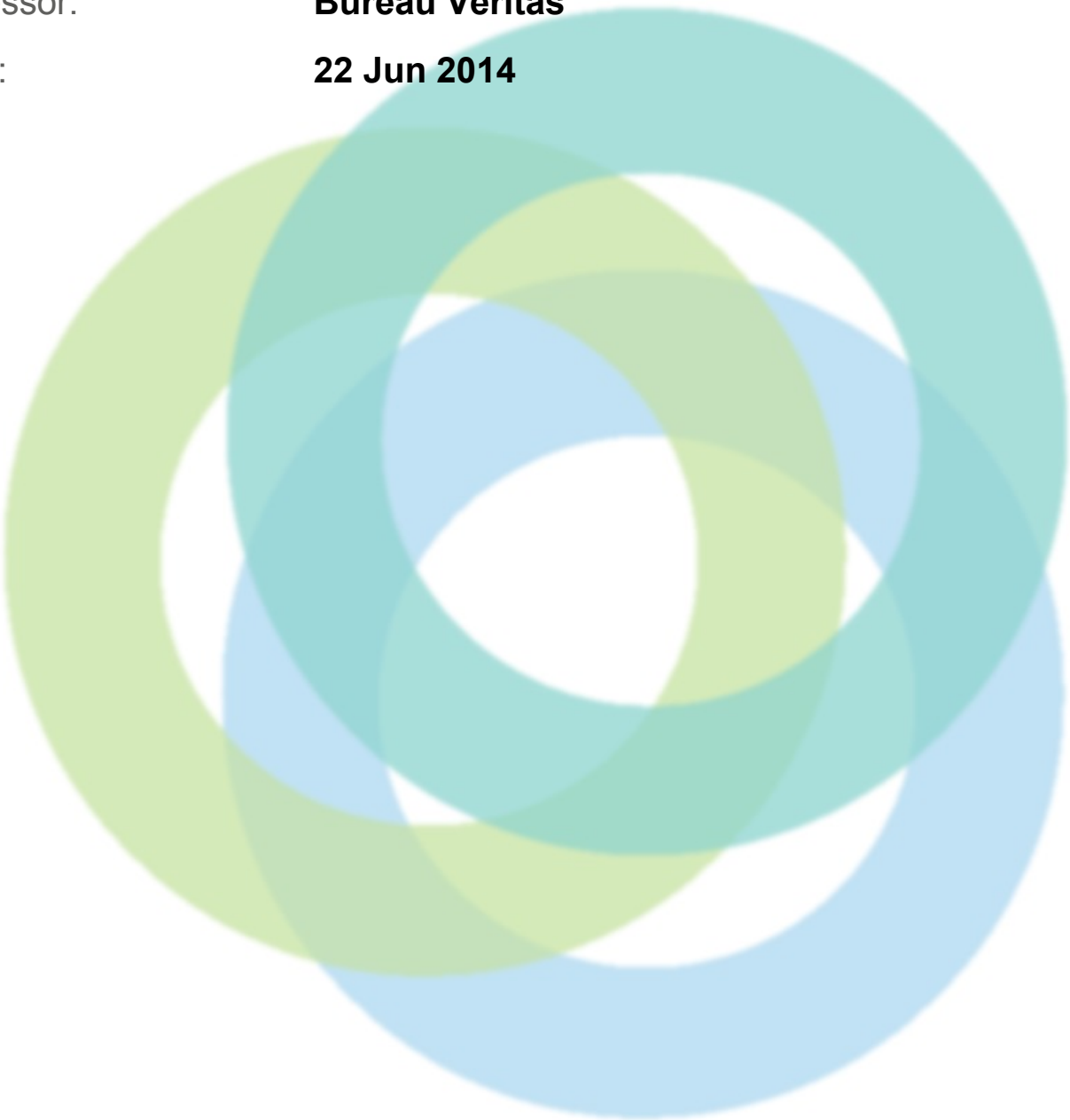


INITIAL FIRE ASSESSMENT REPORT (FAR)

Factory Name: **Sea Tex Limited**
Address: **Plot # 08-09, Sector # 06, CEPZ, Chittagong
Chittagong Chittagong Bangladesh**
Assessor: **Bureau Veritas**
Date: **22 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:	Sea Tex Limited
Address:	Plot # 08-09, Sector # 06, CEPZ, Chittagong Chittagong Chittagong Bangladesh
Country:	Bangladesh
Province:	Chittagong
City:	Chittagong
Zip Code:	4223
Audit Duration:	1 Days
Re-Audit:	Re-Audit After 0 Months
Draft Report Date:	06-22-2014
Final Report Date:	06-30-2014
Are all Action Items From Previous Assessment Completed?:	N/A
Buildings in Complex:	There are 14 buildings in the factory premises out of which four are main production buildings and ten are ancillary buildings. The buildings are named as: 1) Four story RCC production building-1, 2) Five story RCC production building-2, 3) Four story RCC production building-A, 4) Seven story RCC production building-B, 5) Two story RCC boiler building, 6) Two story RCC maintenance building, 7) Single story wastage building, 8) Single story substation building, 9) Single story boiler shed, 10) Single story chemical shed, 11) Single story gas meter shed, 12) Single story pump building, 13) Single story security building, 14) Single story ETP building.
Is the building(s) owned or rented by the Factory:	Owned
Number of Building Levels (Stories):	1) Four story RCC production building-1: Building height (Highest occupied floor level): 11.58 m or 38 ft [Height up to roof: 16.15 m or 53 ft], Stories above grade: 4, Stories below grade: 0, Occupied levels: 4, 2) Five story RCC production building-2: Building height (Highest occupied floor level): 14.63 m or 48 ft [Height up to roof: 19.21 m or 63 ft], Stories above grade: 5, Stories below grade: 0, Occupied levels: 5, 3) Four story RCC production building-A: Building height (Highest occupied floor level): 9.75 m or 32 ft [Height up to roof: 12.6 m or 41.167 ft], Stories above grade: 4, Stories below grade: 0, Occupied levels: 4, 4) Seven story RCC production building-B: Building height (Highest occupied floor level): 25.91 m or 85 ft [Height up to roof: 29.72 m or 97.5 ft], Stories above grade: 7 Stories below grade: 0, Occupied levels: 7 and see the description.
Approximate Building Area (SF):	Total area of all buildings in the factory premises: 263861 sft. Building wise breakdown as follows: 1) Four story RCC production building-1: 50400 sft (Ground floor: 12600 sft, 1st floor: 12600 sft, 2nd floor: 12600 sft, 3rd floor: 12600 sft). 2) Five story RCC production building-2: 72960 sft (Ground floor: 15300 sft, 1st floor: 15300 sft, 2nd floor: 15300 sft, 3rd floor: 15300 sft, 4th floor: 11760 sft), 3) Four story RCC main production



	building-A: 25600 sft (Ground floor: 6400 sft, 1st floor: 6400 sft, 2nd floor: 6400 sft, 3rd floor: 6400 sft) and see the description.
Date of Building Construction:	Factory personnel informed the date of construction as follows: Factory personnel informed the date of construction as follows: 1) Four story RCC production building-1: Started in June-2001 and finished in December-2002, 2) Five story RCC production building-2: Started in November-2004 and finished in November- 2005, 3) Four story RCC production building-A: Started in May-2006 and finished in December-2007, 4) Seven story RCC production building-B: Started in March-1997 and finished in April-1999. For rest of the buildings no record for date of construction was found.
Date of Last Building Renovation/Addition:	No record for date of renovation or addition was found from factory personnel.
Ancillary Structures in Complex:	1) Two story RCC boiler building, 2) Two story RCC maintenance building, 3) Single story wastage building, 4) Single story substation building, 5) Single story boiler shed, 6) Single story chemical shed, 7) Single story gas meter shed, 8) Single story pump building, 9) Single story security building, 10) Single story ETP building.
Approximate Ancillary Structures Area (SF):	1) Two story RCC boiler building: 1532 sft (Ground floor: 766 sft, 1st floor: 766 sft), 2) Two story RCC maintenance building: 1680 sft (Ground floor: 840 sft, 1st floor: 840 sft), 3) Single story wastage building: 108 sft, 4) Single story substation building: 560 sft, 5) Single story boiler shed: 1283 sft, 6) Single story chemical shed: 283 sft, 7) Single story gas meter shed: 115 sft, 8) Single story pump building: 200 sft, 9) Single story security building: 216 sft, 10) Single story ETP building: 2412 sft.
Number of Occupants:	Total number of occupants: 1870. The breakdown of occupant load is as follows- 1) Four story RCC production building-1: 350 (Ground floor: 60, 1st floor: 05, 2nd floor: 215, 3rd floor: 70), 2) Five story RCC production building-2: 673 (Ground floor: 20, 1st floor: 200, 2nd floor: 250, 3rd floor: 200, 4th floor: 03), 3) Four story RCC production building-A: 38 (Ground floor: 2, 1st floor: 5, 2nd floor: 1, 3rd floor: 30, 4) Seven story RCC production building-1: 781 (Ground floor: 38, 1st floor: 15, 2nd floor: 80, 3rd floor: 270, 4th floor: 280, 5th floor: 96, 6th floor: 2) and see the description.
Number of Ancillary Levels (Stories):	1) Two story RCC boiler building: Building height (Highest occupied floor level): 4.12 m or 13.5 ft [Height up to roof: 7.46 m or 24.5 ft], Stories above grade: 2, Stories below grade: 0, Occupied levels: 2, 2) Two story RCC maintenance building: Building height (Highest occupied floor level): 4.6 m or 15 ft [Height up to roof: 8.23 m or 27 ft], Stories above grade: 2, Stories below grade: 0, Occupied levels: 2, 3) Single story wastage building: Building height (Highest occupied floor level): 30 cm or 1 ft above grade [Height up to roof: 2.18 m or 4.167 ft], Stories above grade: 1, Stories below grade: 0, Occupied levels: 1 and see the description.
Occupancy Type:	1) Four story RCC production building-1: [Ground floor: H2 (Dyeing section), K (Oil filled transformer), F1 (Office), H2 (Chemical store), 1st floor: G2 (Cutting), G2 (Quality & Finishing), F1 (Office), G2 (Maintenance), H2 (Cartoon store), 2nd floor: G2 (Sewing), G2 (Finishing), F1 (Office), G2 (Maintenance), G2 (Spot removing), 3rd floor: G2 (Screen printing), G2 (Colour room), G2 (Dark room), H2 (Chemical store), G2 (Washing), G2 (Finishing)], 2) Five story RCC production building-2: [Ground floor: H2 (Dyeing sample section), H2 (wastage store), H2 (Chemical store), H2 (Fabric store), 1st floor: G2 (Sewing), G2 (Finishing), G2 (Spot removing), F1 (Office), J1 (Kitchen), H2 (Central store), E4 (Dinning), 2nd floor: G2 (Packing), G2 (Finishing), G2 (Sewing), G2 (Maintenance), G2 (Packing), 3rd floor: G2 (Packing), G2 (Finishing), F1 (Office), 4th floor: E3 (Dinning), K (Compressor), J1 (Kitchen)] and see the description.
Construction Type:	1) Four story RCC production building-1: [Ground floor to 2nd floor: Type 1 (RCC), 3rd floor: Non-rated (ceiling only)], 2) Five story RCC production building-2: [Ground floor to 3rd floor: Type 1 (RCC), 4th floor: Non-rated (ceiling only)], 3) Four story RCC production building-A: Type 1 (RCC), 4) Seven story RCC production building-B: Type 1 (RCC), 5) Two story RCC boiler building: [Ground floor: Type 1 (RCC), 1st floor: Non-rated (Only ceiling)], 6) Two story RCC maintenance building: Type 1 (RCC), 7) Single story wastage building: Non-rated (Only ceiling), 8) Single story substation building: Non-rated (Only ceiling), 9) Single story boiler shed: Non-rated, 10) Single story chemical shed: Non-rated, 11) Single story gas meter shed: Non-rated, 12) Single story pump building: Type 1 (RCC), 13) Single story security building: Type 1 (RCC), 14) Single story ETP building: Type 1 (RCC).

Factory Name: **Sea Tex Limited**
Address: **Plot # 08-09, Sector # 06, CEPZ, Chittagong Chittagong Chittagong Bangladesh**

Assessor: **Bureau Veritas**

Date: **22 Jun 2014**



ALLIANCE
FOR BANGLADESH WORKER SAFETY

Height of Highest Occupied Floor Level Above Grade:

1) Four story RCC production building-1: 11.58 m or 38 ft, 2) Five story RCC production building-2: 14.63 m or 48 ft, 3) Four story RCC production building-A: 9.75 m or 32 ft, 4) Seven story RCC production building-B: 25.91 m or 85 ft, 5) Two story RCC boiler building: 4.12 m or 13.5 ft, 6) Two story RCC maintenance building: 4.6 m or 15 ft, 7) Single story wastage building: 30 cm or 1 ft above grade, 8) Single story substation building: 30 cm or 1 ft above grade, 9) Single story boiler shed: 15 cm or 0.5 ft above grade, 10) Single story chemical shed: 15 cm or 0.5 ft above grade, 11) Single story gas meter shed: 45 cm or 1.5 ft above grade, 12) Single story RCC pump building: 30 cm or 1 ft above grade, 13) Single story security building: 30 cm or 1 ft above grade, 14) Single story ETP building: 30 cm or 1 ft above grade.



ASSESSMENT FINDINGS

Fire Protection Construction

Question:	Are openings and penetrations through rated walls and/or assemblies protected?
Priority Level:	High
Non-Compliance Level:	2
Description:	Door and windows of oil-filled transformer with dyeing section, chemical store with dyeing section at ground floor, and chemical store with printing section at 3rd floor of building-1 are not protected. Door and windows of fabric store with office and fabric store & chemical store with dyeing section at ground floor, door of central store with sewing section at 1st floor of building-2, and door of chemical store shed near dyeing section of building 2 at ground floor are not protected. Door of oil-filled transformer shed near dyeing section of building-B, door and windows of boiler shed and dyeing section of building-2 are not protected. Such unprotected openings are not allowed according to Alliance Standards. If those openings protect by fire rated protective, these occupancy will be separated from other occupancy.
Source of Findings:	Photograph: Unprotected oil-filled transformer and dyeing section, chemical store and printing section, fabric store and office, boiler shed and dyeing section are not separated., Visual Assessment: Occupancy separations are not fire rated and the opening protectives are not fire rated as well at noted locations.
Suggested Plan of Action:	Install fire rated doors and windows or fill in unprotected openings with fire resistive rated assemblies.
Suggested Deadline Date:	09 May 2015
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:	2
Description:	There are 2 stairs in building-1, 2stairs in building-2, 1 stair in building-A and 3 stairs in building-B. Fire door installed only in exits of southeast stair of building-1, northeast stair of building-2 and building-b, but there are windows with production floor at 4th floor of building-1, at all floors of building-2 and at ground floor of building-b, which are non-rated. These doors appear to be fire doors, however credible certificates and label marking on fire door are not available. All other exit enclosures of all main buildings are not provided with fire-resistive rated construction.
Source of Findings:	Photograph: Glass window between printing section and exit enclosure of southeast stair at 3rd floor of building 1, finishing section and exit enclosure of northeast stair at 2nd floor of building 2 in exit., Visual Assessment: Non-rated exit enclosure was observed.
Suggested Plan of Action:	Provide 2 hr fire-resistive rated construction barriers at exit enclosures. Fit Doors that swing in the direction of egress., side-swinging, self-closing, non-lockable fire doors of 1.5 hr rating in all stairwell enclosures. Consult a qualified fire protection engineer to design the required rated construction barriers. Provide 1 hr fire protective opening assemblies in 1 hr rated exit enclosure when Exits connecting three or fewer stories.
Suggested Deadline Date:	09 May 2015
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:	2
Description:	The cargo lift of building-b is near to production floor at all levels. The passenger lift of building-a is open to the sample room at 1st floor. Enclosure of these lift are found fire rated but the doors of these lift are not fire rated as required in accordance with Alliance Standards.
Source of Findings:	Photograph: Door of cargo lift., Visual Assessment: Door of cargo lift and passenger lift were found non-rated.
Suggested Plan of Action:	Provide a shaft enclosure of required rating by constructing the enclosure with rated material of required thickness. Protect the openings of shaft enclosure by providing rated opening protectives.
Suggested Deadline Date:	09 May 2015
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:	2
Description:	Chemical store & screen printing at 3rd floor of building-1, is not separated by fire-resistive rated construction barriers. The wall separating these two occupancies is not up to the ceiling. Boiler shed near building-2 is not separated by fire-resistive rated construction barriers.
Source of Findings:	Photograph: Occupancy separation was not found at noted locations.
Suggested Plan of Action:	Provide fire-resistive rated construction barriers between hazard types following Table 4.4.1 of Alliance Standard. Consult a qualified fire protection engineer to design the required rated construction barrier.
Suggested Deadline Date:	01 Aug 2015
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 certificates for the buildings in the factory premises were not found.
Source of Findings:	Document Review: There was no occupancy certificate for any of the buildings among the documents shown by the factory concerned people.
Suggested Plan of Action:	Apply to BEPZA for issuance of occupancy certificate and pursue the matter to expedite.
Suggested Deadline Date:	28 Mar 2015
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:	The height of the highest occupied level of the seven story RCC production building-B is 25.91 m or 85 ft. Automatic sprinkler systems are to be provided throughout buildings with an occupied floor greater than 23 m (75 ft) above the finished grade in accordance with NFPA 13. But a sprinkler system is not provided in building-B. Since other buildings are lower in height than 23 m or



	75 ft, an automatic sprinkler system is not required for any of these buildings as per the Alliance Standard.
Source of Findings:	Visual Assessment: The height of the buildings were measured and it was found that a sprinkler system is required in building-B.
Suggested Plan of Action:	Install an automatic sprinkler system throughout building-B designed by a qualified fire protection engineer. The hydraulic design of the sprinkler system must be pre-approved by the CoE of Alliance. All installation and design requirements outlined in BNBC Part 4 Chapter 4 shall be replaced by the requirements of NFPA 13. Pipe schedules shall not be used to size pipe. All systems shall be hydraulically calculated to meet the required NFPA 13 design requirements. Installation of new automatic sprinkler systems are required to provide shop drawings and hydraulic calculations as per NFPA requirements. The test and performance report of the installed system must be submitted to Alliance for review. Final inspection and testing shall be witnessed by Alliance.
Suggested Deadline Date:	09 May 2015
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:	Does the building have a Standpipe System?
Priority Level:	High
Non-Compliance Level:	2
Description:	The height of the highest occupied floor of four story RCC production building-1 is 11.58 m or 38 ft and five story RCC production building-2 is 14.63 m or 48 ft above grade i.e. above 10 m (33 ft). Therefore, a class III standpipe system needs to be installed throughout the building at required locations as per the Alliance Standard. One class II standpipe system (40 mm) and one 25mm hose connection are installed on each floors of main building-1 and 2. There is no hydraulic design for the installed system. The height of the highest occupied floor of the four story RCC production building-A is 9.75 m or 32 ft above grade i.e. below 10 m (33 ft). Therefore, a standpipe system is not required in this building. One class II standpipe connection (40 mm) and one 25mm hose connection are installed in each floor of main building-A. There is no hydraulic design for the installed system. The height of the highest occupied floor of the seven story RCC production building-B is 25.91 m or 85 ft. Therefore, a class I standpipe system must be installed throughout the building at required stairwells as per the Alliance Standard, as well as an automatic sprinkler system. But only a class II stand pipe system is installed in the seven story RCC production building-B. One class II standpipe connection (40 mm) and one 25mm hose connection are installed on each floor of main building-B. There is no hydraulic design for the installed system. Water capacity is 433,000 liters.
Source of Findings:	Photograph: Only a class II standpipe system was found in all buildings.
Suggested Plan of Action:	Install class III standpipe system at required locations of four storey RCC production building 1 & five storey RCC production building 2 and class I standpipe system at required locations of seven storey RCC production building B designed by a qualified fire protection engineer. The system is to be compliant with the requirements of NFPA 14.





Suggested Deadline Date:	09 May 2015
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:	2
Description:	A fire pump set is available with backup power, however it does not comply with the requirements of Alliance Standards. Hydraulic calculation for required standpipe and sprinkler systems is not available. Therefore, required capacity of fire pump is not known. Additionally, detailed design of pump components and layout as per NFPA 20 were not found.
Source of Findings:	Photograph: Diesel pump and jockey pump were found with ATS.
Suggested Plan of Action:	Have a qualified engineer review the pump capacity and ensure hydraulic calculation is done which can be supported by this pump. Also, identify all other performance data and ensure conformity to NFPA standards. If pump does not meet the standards or performance requirements install a new fire pump that does.
Suggested Deadline Date:	09 May 2015
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:	2
Description:	Smoke detectors are insufficient in all floors of the seven story RCC production building-B and the five story RCC production building-2. However, sprinkler system is not installed for seven story RCC production building-B. No detector was found in boiler shed, wastage building and chemical shed. Pull stations and other notifications were sufficient at appropriate locations throughout all buildings .
Source of Findings:	Visual Assessment: Smoke detectors were not found as required.
Suggested Plan of Action:	Provide an adequate number of detectors based on coverage of a detector specified by manufacturer. Maximum possible coverage of a detector is 900 sft (if not confined by bays) as per NFPA 72. Each zone indicated in control panel shall cover 22,500 sft area or less. According to Alliance standard 5.7.3.1, When complete sprinkler protection is provided throughout a floor with waterflow devices designed to initiate the alarm notification, smoke and fire detection devices can be eliminated throughout that floor.
Suggested Deadline	09 May 2015





Date:		
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:	1	
Description:	Fire department (Siamese) inlet connection is provided and clearly identified for the fire protection system, but the outlet connection is not available.	
Source of Findings:	Photograph: Fire department inlet connection was found but no outlet connection was found.	
Suggested Plan of Action:	Install fire department connections where required and in compliance with the Standard. 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.	
Suggested Deadline Date:	01 Aug 2015	
Standard:	Alliance Standard Part 5 Section 5.5.4 Fire Department Connections	
Question:	Portable fire extinguishers have been selected based on potential fire class and hazards?	
Priority Level:	Medium	
Non-Compliance Level:	1	
Description:	Portable fire extinguishers have not been placed according to potential fire class and hazards. Fire extinguishers not found in boiler shed.	
Source of Findings:	Photograph: Extinguishers were not found in boiler shed.	
Suggested Plan of Action:	Select fire extinguishers based on potential fire class and hazards following NFPA 10 Chapter 5.	
Suggested Deadline Date:	09 May 2015	
Standard:	NFPA 10 Chapter 5	
Question:	Fire extinguishers are inspected, tested, and maintained as required.	
Priority Level:	Medium	
Non-Compliance Level:	1	



Description:	Extinguishers are inspected monthly by factory's concerned people, but no document was found in support of i) annual maintenance of extinguishers by a servicing agent and ii) annual testing of nozzle of CO2 extinguisher. These are required as per NFPA 10.	
Source of Findings:	Document Review: Document regarding inspection and maintenance procedure for fire extinguishers was found in the documents shown by the factory personnel, but it is not as per NFPA 10 requirements. Also, annual maintenance & testing of extinguishers record was found.	
Suggested Plan of Action:	Inspect, test, and maintain fire extinguishers in accordance with NFPA 10 requirements.	
Suggested Deadline Date:	01 Aug 2015	
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:	1	
Description:	An automatic fire alarm and detection system is available in the factory, but currently there is no monitoring company in Bangladesh. Fire service and civil defense is not capable of monitoring fire alarm and detection systems of the factories.	
Source of Findings:	Photograph: Fire alarm and detection system are not monitored centrally.	
Suggested Plan of Action:	Arrange for direct connection of the fire alarm system to a central monitoring station or Fire Service and Civil Defense as per Alliance Standards. Until that time that monitoring can be set up, arrange a monitoring system using factory's own central detection system and personnel. A person shall be assigned to contact the fire department in the event of fire alarm activation. An annunciator shall be located in a constantly attended location (such as a fire control room) to alert this person.	
Suggested Deadline Date:	14 Mar 2015	
Standard:	Alliance Standard Part 5 Section 5.7.5 Monitoring	
Question:	Are inspection, maintenance, and testing procedures of the fire pump documented and up to date?	
Priority Level:	Low	
Non-Compliance Level:	3	
Description:	Inspection, maintenance, and testing procedures of the fire pump are not documented and up to date.	
Source of Findings:	Document Review: No document regarding inspection, maintenance and	



	testing procedure of fire pump was found in the documents shown by the factory personnel.	
Suggested Plan of Action:	Establish required inspection, testing, and maintenance program for the fire pump. Program must comply with NFPA 25.	
Suggested Deadline Date:	01 Aug 2015	
Standard:	Reference NFPA 25 Chapter 8 Fire Pumps	
Question:	Are inspection, maintenance, and testing procedures of the standpipe and hose system documented and up to date? Including inspection and testing of hoses if provided.	
Priority Level:	Low	
Non-Compliance Level:	2	
Description:	Class II standpipe system is installed in four main buildings. Inspection, maintenance and testing procedures of the installed class II standpipe and hose is not documented and up to date.	
Source of Findings:	Document Review: During site tour, class II standpipe system was found in all four main buildings. But no document regarding inspection, maintenance and testing procedure of standpipe and hose system was found among the documents shown by the factory personnel.	
Suggested Plan of Action:	Establish an inspection, maintenance, and testing program for the available standpipe and hose system. Program must comply with the requirements of NFPA 25 Chapter 6 Table 6.1.1.2.	
Suggested Deadline Date:	01 Aug 2015	
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 for the available class II standpipe system is not installed.	
Source of Findings:	Visual Assessment: No signage for the installed class II standpipe system was found in all four main buildings.	
Suggested Plan of Action:	Install identification signs at the noted locations for available system. Signage must comply with NFPA 14 Chapter 6.	
Suggested Deadline Date:	28 Mar 2015	
Standard:	Reference NFPA 14 Chapter 6	



Means of Egress

Question:	Occupant loads on each level (floor) do not exceed the capacity of the available means of egress.	
Priority Level:	High	
Non-Compliance Level:	3	
Description:	At 2nd floor of building-1, occupant load is 215, which is maximum of all floors. The floor area is 1171 m², so space per occupant is 5.44 m², which is higher than required 2.3 m² (25 sft) according to Alliance Standard Part 6 Section 6.4.2.1. Available means of egress also meet the requirement of this occupant load. Total width of aisles, exit doors and stairs(2nos) are 4.8 m, 3.6 m and 3.15 m respectively whereas required total widths for these means of egress are 1.08 m, 0.86 m and 1.72 m respectively. At 2nd floor of building-2, occupant load is 250, which is maximum of all floors. The floor area is 1421 m², so space per occupant is 5.68 m², which is higher than required 2.3 m² (25 sft) according to Alliance Standard Part 6 Section 6.4.2.1. Available means of egress also meet the requirement of this occupant load. Total width of aisles, exit doors and stairs(2nos) are 6.4 m, 2.18 m and 3.38 m respectively whereas required total widths for these means of egress are 1.25 m, 1 m and 2 m respectively At 3rd floor of building-a, occupant load is 30, which is maximum of all floors. The floor area is 594 m², so space per occupant is 19.8 m², which is higher than required 2.3 m² (25 sft) according to Alliance Standard Part 6 Section 6.4.2.1. Available means of egress also meet the requirement of this occupant load. Total width of exit doors and stairs(1no) are 1.85 m and 1.8 m respectively whereas required total widths for these means of egress are 0.12 m and 0.24 m respectively. But in the four story RCC production building-A, there is only one stair of width 1.83m which is not comply with the alliance standard At 4th floor of building-b, occupant load is 280, which is maximum of all floors. The floor area is 1626 m², so space per occupant is 5.8 m², which is higher than required 2.3 m² (25 sft) according to Alliance Standard Part 6 Section 6.4.2.1. Available means of egress also meet the requirement of this occupant load. Total width of aisles, exit doors and stairs(3nos) are 6.58 m, 4.03 m and 3.99 m respectively whereas required total widths for these means of egress are 1.4 m, 1.12 m and 2.24 m respectively.	
Source of Findings:	Visual Assessment: During site tour, number of occupants was counted. Widths of aisles, exit doors and stairs were measured but in four story RCC production building there is only one stair.	
Suggested Plan of Action:	Provide at least additional one stair in building four story RCC production building-A to fulfill the requirement of alliance standard clause 4.5.3.2.	
Suggested Deadline Date:	28 Feb 2015	
Standard:	Alliance Standard Part 6 Section 6.4 Occupant Load	
Question:	Exit discharge is directly to the exterior of the building, unless the requirements of 6.17.2 are met, at grade or provides direct access to grade. Exit discharge shall not reenter a building.	
Priority Level:	High	



Non-Compliance Level:	2	
Description:	Southeast exit stairway terminates directly at ground floor and is open to dyeing section of building-1, violating the requirement of the Alliance Standard. Northwest exit stairway terminates at a non-rated exit passageway near chemical store of building-1. There is no fire barrier on right side and top of the exit passageway which, violating the requirement of the Standard. South-middle exit stairway terminates at ground floor dyeing section of building-B, which fails to meet the requirements. All remaining stairs of other main buildings terminates directly to the exterior of building.	
Source of Findings:	Visual Assessment: Noted stairs were found terminating at non-rated interior locations.	
Suggested Plan of Action:	Protect the exit passageway with protective opening assemblies. Construct 2-hr fire resistive rated walls for the open exit passageway.	
Suggested Deadline Date:	09 May 2015	
Standard:	Alliance Standard Part 6 Section 6.17 Exit Discharge. See Section 16.7.2 and 16.7.3 for exceptions.	
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:	There are steel doors with locking arrangements at northwest stair egress location of building-1. There are glass doors with locking arrangements at south middle stair of building-2 and at east middle stair egress location of building-A. There are steel doors with locking arrangements at northwest and south middle stair egress location of building-B.	
Source of Findings:	Photograph: Locking devices were found at exit doors.	
Suggested Plan of Action:	Remove all hasps, locks and slide bolts from exit doors in compliance with the Alliance Standard.	
Suggested Deadline Date:	28 Feb 2015	
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:	2	
Description:	The width of the doors of all buildings are more than 0.8 m. Fire door installed only in exits of south-east stair of building-1, north-east stair of building-2 and	



	north east stair of building-b. However, visually the doors are fire rated. But credible certificate for fire door and label marking on fire door are not available. The other doors in egress location are not fire rated in all buildings. Fire doors of proper rating are required in accordance with section 6.3.1.2.1 and 4.6.	
Source of Findings:	Visual Assessment: During site tour, door width were found more than 0.8 m, but without required ratings.	
Suggested Plan of Action:	Provide 1.5 hr fire protective opening assemblies in 2 hr rated exit enclosure when exits connecting three or fewer stories .Provide 1 hr fire protective opening assemblies in 1 hr rated exit enclosure when exits connecting four or more stories.	
Suggested Deadline Date:	09 May 2015	
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:	2	
Description:	There are steel sliding doors in northwest stair of building-1, south middle stair of building-2, and south middle & northwest stair of building-B. There are glass doors in east middle stair of building-A.	
Source of Findings:	Visual Assessment: Steel sliding and glass type exit doors were found.	
Suggested Plan of Action:	Replace all non-compliant doors and frames in the means of egress with doors that are listed, approved, automatic-closing, side-swinging, fire rated doors in compatible fire rated frames with latching panic hardware.	
Suggested Deadline Date:	09 May 2015	
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:	2	
Description:	Southeast exit stairway terminates directly at ground floor and is open to dyeing section of building-1, violating the requirement of the Alliance Standard. Northwest exit stairway terminates at a non-rated exit passageway near chemical store of building-1. There is no fire barrier on right side and top of the exit passageway which, violating the requirement of the Standard. South-middle exit stairway terminates at ground floor dyeing section of building-B, which fails to meet the requirements. All remaining stairs of other main buildings terminates directly to the exterior of building.	 



Source of Findings:	Photograph: Southeast exit stairway terminates at ground floor dyeing section and northwest exit stairway terminates at non-rated exit passageway near chemical store of building-1., Visual Assessment: Noted stairs were found terminating at non-rated interior locations.	
Suggested Plan of Action:	Protect the exit passageway with protective opening assemblies. Construct 2-hr fire resistive rated walls for the open exit passageway.	
Suggested Deadline Date:	09 May 2015	
Standard:	Alliance Standard Part 6 Section 6.14 Exit Enclosures	
Question:	The number of means of egress from any floor or story is not less than 2 except where a single exit is permitted or where a greater number is required.	
Priority Level:	High	
Non-Compliance Level:	1	
Description:	In all four main buildings except main building-A, the number of means of egress from any floor is not less than 2. On 2nd floor of building-1, 2nd floor of building-2, 4th floor of building-b, maximum occupant load are 215, 250 and 280. Based on occupant load, the required maximum number of stairs is sufficient for all main buildings except main building-A. On 3rd floor of main building-A, maximum occupant load is 30. there is only one stair available on all floors.	
Source of Findings:	Visual Assessment: The number of means of egress for all buildings were counted and occupant load was checked.	
Suggested Plan of Action:	Only single exit shall be permitted in existing buildings where the occupant load is 30 occupants and travel distance is 23m for second story building. Here Building-A is four storey so additional stair shall be provided.	
Suggested Deadline Date:	09 May 2015	
Standard:	Alliance Standard Part 6 Section 6.6 Number of Means of Egress	
Question:	Landings are provided on both sides of doors used along the path of egress. Doors do not swing out over stairs.	
Priority Level:	High	
Non-Compliance Level:	1	
Description:	Door of southeast stair of building-1 swings out over stair. Door of south-middle & northeast stair of building-2 swings out over stair. These are violations of the Alliance Standards. Landings are sufficiently wide others building such that doors do not swing out over stairs.	
Source of Findings:	Photograph: Door of northeast stair swings out over stair at 3rd floor of building-2., Visual Assessment: Doors were found swinging over stairs.	
Suggested Plan of	Replace doors from existing positions towards the inside of the floor so that	



Action:	door does not swing out over the stairs.	
Suggested Deadline Date:	09 May 2015	
Standard:	Alliance Standards Part 6 Section 6.8 Doors and Gates	
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 in any assembly or production floor as required.	
Source of Findings:	Visual Assessment: Occupant loads were not posted in any assembly or production floor.	
Suggested Plan of Action:	Post the occupant load for any assembly and production floor in a facility in a conspicuous space near the main exit or exit access doorway for the space.	
Suggested Deadline Date:	14 Mar 2015	
Standard:	Alliance Standards Part 6 Section 6.4.4 Posting of Occupant Load	
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:	3	
Description:	No plan or record of conducting periodic tests of the emergency battery backup for illumination of exit signs was found as required.	
Source of Findings:	Document Review: No document regarding exit sign backup power was found.	
Suggested Plan of Action:	Develop a testing and maintenance program that ensures the emergency power for exit signs is tested at least once per year. If battery operated signs are used, these signs must be tested on a monthly basis. Functional testing of battery powered signs is provided for a minimum 90 min once per year.	
Suggested Deadline Date:	14 Mar 2015	
Standard:	Alliance Standard Part 10 Section 10.12 Illumination of Exit Signs and Means Of Escape.	
Question:	All paths of egress are provided with compliant means of illumination.	
Priority Level:	Medium	



Non-Compliance Level:	2
Description:	Aisles, exit doors and stairways are not provided with required means of illumination and emergency power is not provided for sufficient number of bulbs, therefore in case of power failure or load shedding, all the paths of egress will not be illuminated as required in accordance with Alliance Standards.
Source of Findings:	Visual Assessment: Aisles, exit doors, stairways were found insufficiently illuminated.
Suggested Plan of Action:	Install emergency lighting for all paths of egress in accordance with Alliance Standards. Illumination shall be a minimum of 10 lux for all corridors, exit doors, and stairways. Aisles shall be provided with a minimum 2.5 lux.
Suggested Deadline Date:	01 Aug 2015
Standard:	Alliance Standards Part 6 Section 6.7 Egress Illumination and Part 10 Section 10.12 Illumination of Exit Signs and Means Of Escape
Question:	Emergency power for means of egress illumination is verified at least once per year. If battery operated lights are used, these lights are tested on a monthly basis. Functional testing of battery powered lights is provided for a minimum 90 min once per year.
Priority Level:	Medium
Non-Compliance Level:	2
Description:	Record of verifying emergency power for means of egress illumination was not found as required in accordance with Alliance Standards.
Source of Findings:	Document Review: No document regarding verification of emergency power for means of egress was found among the documents shown by the factory personnel.
Suggested Plan of Action:	Develop a testing and maintenance program that ensures the operation of all exist signs is verified at least once per year. If battery-operated signs are used, these signs must 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:	14 Mar 2015
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 are placed at entrances to exits, but along the path of egress additional exit or directional signs are not provided where there is a change in direction and where the continuation of egress is not obvious. This condition fails to satisfy requirements stated in Alliance Standards.
Source of Findings:	Photograph: Illuminated exit sign location was observed and found insufficient.
Suggested Plan of Action:	Install illuminated exit signs at entrances to exits and along the path of egress anywhere the continuation of egress is not obvious or there is a change in the direction of the path of travel.
Suggested Deadline Date:	01 Aug 2015
Standard:	Alliance Standard Part 6 Section 6.11 Exit Signs
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:	All the stairs of all buildings have handrails on only one side. Handrails are mounted not lower than 30 inches.
Source of Findings:	Visual Assessment: Handrails were found on one side of all stairs and height of handrail was measured on sample basis.
Suggested Plan of Action:	Provide handrails on both sides of each stairway. If the stair width exceeds 2.2m (87 inch) then provide intermediate handrail. The height of handrail shall be between the range 865 mm (34 in.) and 965 mm (38 in.).
Suggested Deadline Date:	01 Aug 2015
Standard:	Alliance Standard Part 6 Section 6.9 Stairs and 6.12 Handrails and Guards
Question:	Illuminated exit signs are provided with battery backup or emergency power and are continuously illuminated.
Priority Level:	Medium
Non-Compliance Level:	1
Description:	The backup used does not provide sufficient illumination (50 lux at surface of exit sign) as required.





Source of Findings:	Visual Assessment: An IPS battery backup power was found.
Suggested Plan of Action:	Provide an emergency power source, either by battery backup or by connecting to the emergency power system, for compliantly illuminated exit signs.
Suggested Deadline Date:	01 Aug 2015
Standard:	Alliance Standards Part 6 Section 6.11 Exit Signs and Part 10 Section 10.12 Illumination of Exit Signs and Means of Escape
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:	1
Description:	Building-B is 7 stories, but doors are not provided with re-entry. Stair doors with re-entry are required in at least 2 floors according to Alliance Standards. The other buildings are less than 6 stories, therefore re-entry is not required for those buildings.
Source of Findings:	Visual Assessment: No re-entry door was found in building-B.
Suggested Plan of Action:	Every door in a stair enclosure serving more than 5 stories shall be provided with re-entry unless it meets the following requirements. Stair doors may be permitted to be locked from the stair (ingress) side that prevents re-entry to the floor provided at least two floors allowing re-entry to access another exit are provided, there are not more than 4 stories intervening between re-entry floors, re-entry is allowed on the top or next to top level, reentry doors are identified as such on the stair side, and locked doors shall be identified as to the nearest re-entry floors. When the discharge floor is determined to be a required re-entry floor using the above requirements, re-entry does not have to be provided back into the building on this level.
Suggested Deadline Date:	09 May 2015
Standard:	Alliance Standards Part 6 Section 6.8 Doors and Gates
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:	Floor level and stair name or designation are not posted at each floor entrance from the stair to the floor in English and Bengali.
Source of Findings:	Visual Assessment: Floor level and stair designation was not posted at each floor entrance.



Suggested Plan of Action:	Install signage adjacent to each stair door indicating the stair name and the floor level at the noted locations.
Suggested Deadline Date:	14 Mar 2015
Standard:	Alliance Standard Part 6 Section 6.9 Stairs
Question:	Exit signs have appropriate illumination levels and contrasting graphics.
Priority Level:	Low
Non-Compliance Level:	2
Description:	All exit signs do not have appropriate illumination levels and contrasting graphics as required.
Source of Findings:	Photograph: No exit signs were observed with appropriate illumination levels and contrasting graphics.
Suggested Plan of Action:	Make sure all required exit signs are illuminated continuously at all times. Exit signs may be illuminated either by lamps external to the sign or by lamps contained within the sign. The source of illumination shall provide not less than 50 lux at the illuminated surface with a contrast of not less than 0.5. Approved self-luminous signs which provide evenly illuminated letters having a minimum luminance of 0.2cd/m2 may also be used.
Suggested Deadline Date:	01 Aug 2015
Standard:	Alliance Standard Part 10 Section 10.12.1 Exit Signs



Fire Safety Programs



Question:	Are the required number of people trained and certified in fire fighting, first aid, and rescue training by the appropriate authority.
Priority Level:	High
Non-Compliance Level:	2
Description:	160 people are trained and certified in fire fighting, first aid and rescue by BKMEA.
Source of Findings:	Document Review: Certificate was found for 160 people. , Photograph: Certificate and training list.
Suggested Plan of Action:	Train and certify more 308 occupants to complete 25 percent of occupants in fire fighting, first aid and rescue by the proper authority.
Suggested Deadline Date:	01 Aug 2015
Standard:	Alliance Standard Part 13 Human Element Programs
Question:	Training programs are implemented and documented in accordance with the Alliance Safety Training Curriculum.
Priority Level:	Medium
Non-Compliance Level:	3
Description:	No document of any training program in accordance with the Alliance Safety Training Curriculum found.
Source of Findings:	Document Review: No document of any training program was found.
Suggested Plan of Action:	Impart training in accordance with Alliance Safety Training Curriculum and keep record with proper documentation.
Suggested Deadline Date:	14 Mar 2015
Standard:	Alliance Standards Part 13
Question:	An emergency evacuation plan has been developed and communicated to all employees.
Priority Level:	Medium
Non-Compliance Level:	2





Description:	Workers are aware of the evacuation procedure upon commencing of the alarm. However, no procedure defining evacuation process was available.
Source of Findings:	Document Review: No document regarding emergency evacuation plan was found.
Suggested Plan of Action:	Develop an emergency evacuation plan which includes duties and responsibilities of various people/groups, interfacing between groups and fire brigade, headcount and identification of trapped victims, physically disabled people and their rescue, etc. and all components required by the Alliance Standards and communicate the plan to all employees.
Suggested Deadline Date:	14 Mar 2015
Standard:	Alliance Standards Part 13 Section 13.1 Fire Safety Director
Question:	Fire Drills are conducted at required intervals based on building use type.
Priority Level:	Medium
Non-Compliance Level:	2
Description:	Fire drills are conducted monthly without plans and checklists in all buildings, and not under the direction of a Fire Safety Director. This does not meet the requirements of Alliance Standards.
Source of Findings:	Document Review: Fire drill record was found but not conducted under a Fire Safety Director.
Suggested Plan of Action:	Conduct fire drills on a quarterly basis as outlined in BNBC Part 4 Appendix A for all garment facilities. Fire drills shall be conducted under the direction of a Fire Safety Director. All other requirements for fire drills shall be conducted in accordance with BNBC requirements.
Suggested Deadline Date:	14 Mar 2015
Standard:	Alliance Standards Part 13 Section 13.3 Fire Drills
Question:	Storage areas underneath the cutting tables are clear of combustibles.
Priority Level:	Medium
Non-Compliance Level:	1
Description:	Fabrics are stored underneath the cutting tables of cutting section on 5th floor of building-B.
Source of Findings:	Photograph: Fabrics were found underneath the cutting tables on 5th floor of building-B.
Suggested Plan of Action:	Remove all combustibles stored underneath the cutting tables at the noted locations.
Suggested Deadline	01 May 2015



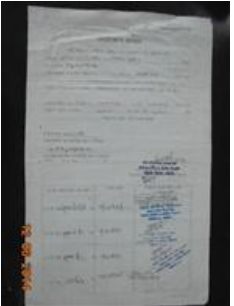


Date:		
Standard:	Alliance Standard Part 17 Section 13.7.2 Cutting tables.	
Question:	Are there additional areas of non-compliance to report?	
Priority Level:	Medium	
Non-Compliance Level:	1	
Description:	There was a kitchen on the 4th floor near dining section and at 1st floor near office of building-2, which is not permitted as per BNBC table 3.2.1 page 10352.	
Source of Findings:	Photograph: Kitchen and dining at 4th floor of building-2., Visual Assessment: Kitchen was found at 1st & 4th floors of building 2.	
Suggested Plan of Action:	Remove the kitchen or use in approved enclosure with nearest section in a safe manner as per the Alliance Standard 5.10.	
Suggested Deadline Date:	09 May 2015	
Standard:	Not Applicable	
Question:	A hot-work permit program has been established.	
Priority Level:	Low	
Non-Compliance Level:	3	
Description:	A hot-work permit program is not established. It is required as per Alliance Standards. However, hot-work is not going on in the factory right now.	
Source of Findings:	Document Review: No hot-work permit was shown by the factory personnel.	
Suggested Plan of Action:	Develop a NFPA 51B-compliant hot-work permit program. In general, this program should address the process of request and approval of authorities, necessary checks prior to 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:	01 Aug 2015	
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:	No viable documentation or physical presence of Fire Safety Director was found. However, factory has informed that they have a designated person for this.	



Source of Findings:	Document Review: No record of filling the position of Fire Safety Director was found.	
Suggested Plan of Action:	Create a Fire Safety Director position and fill the position with an individual that has had sufficient training to be able to carry the required duties. The duties of the Fire Safety Director shall include the following: (1) Establish internal and external rally points and communicate to all employees in the building. (2) Fire department pre-planning. (3) Conduct safety inspections as outlined in Alliance Standard. (4) Ensure all testing of fire protection equipment is conducted in accordance with Alliance Standard.	
Suggested Deadline Date:	01 Aug 2015	
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:	2	
Description:	A written housekeeping policy was not found, which is required as per Alliance Standards.	
Source of Findings:	Document Review: A written housekeeping policy was not found.	
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:	24 Oct 2015	
Standard:	Alliance Standards Part 13 Section 13.6 Housekeeping	
Question:	Fire Department pre-planning has been completed.	
Priority Level:	Low	
Non-Compliance Level:	1	
Description:	Fire department pre-planning was not found.	
Source of Findings:	Document Review: No fire department pre-planning was found.	
Suggested Plan of Action:	Complete fire department pre-planning activities with the local Fire Service and Civil Defense.	
Suggested Deadline Date:	14 Mar 2015	



Standard:	Alliance Standards Part 13 Section 13.1 Fire Safety Director	
Question:	Are all applicable permits up to date including Fire License & Boiler License.	  
Priority Level:	Low	
Non-Compliance Level:	1	
Description:	A BERC license for one 48 KW capacity diesel generator is not available. Electrician license is not available. Trade license, factory license, fire licenses and boiler license are up-to-date. Building approval drawings are available from BEPZA for all main buildings and ancillary buildings.	
Source of Findings:	Document Review: Electrician license and BERC license for 48 KW generator were not available.	
Suggested Plan of Action:	Apply to Biddyt Paridaptor for electrician license and Bangladesh Energy Regulatory Commission for BERC license.	
Suggested Deadline Date:	19 Aug 2014	
Standard:	Alliance Standard Part 13 Human Element Programs	