

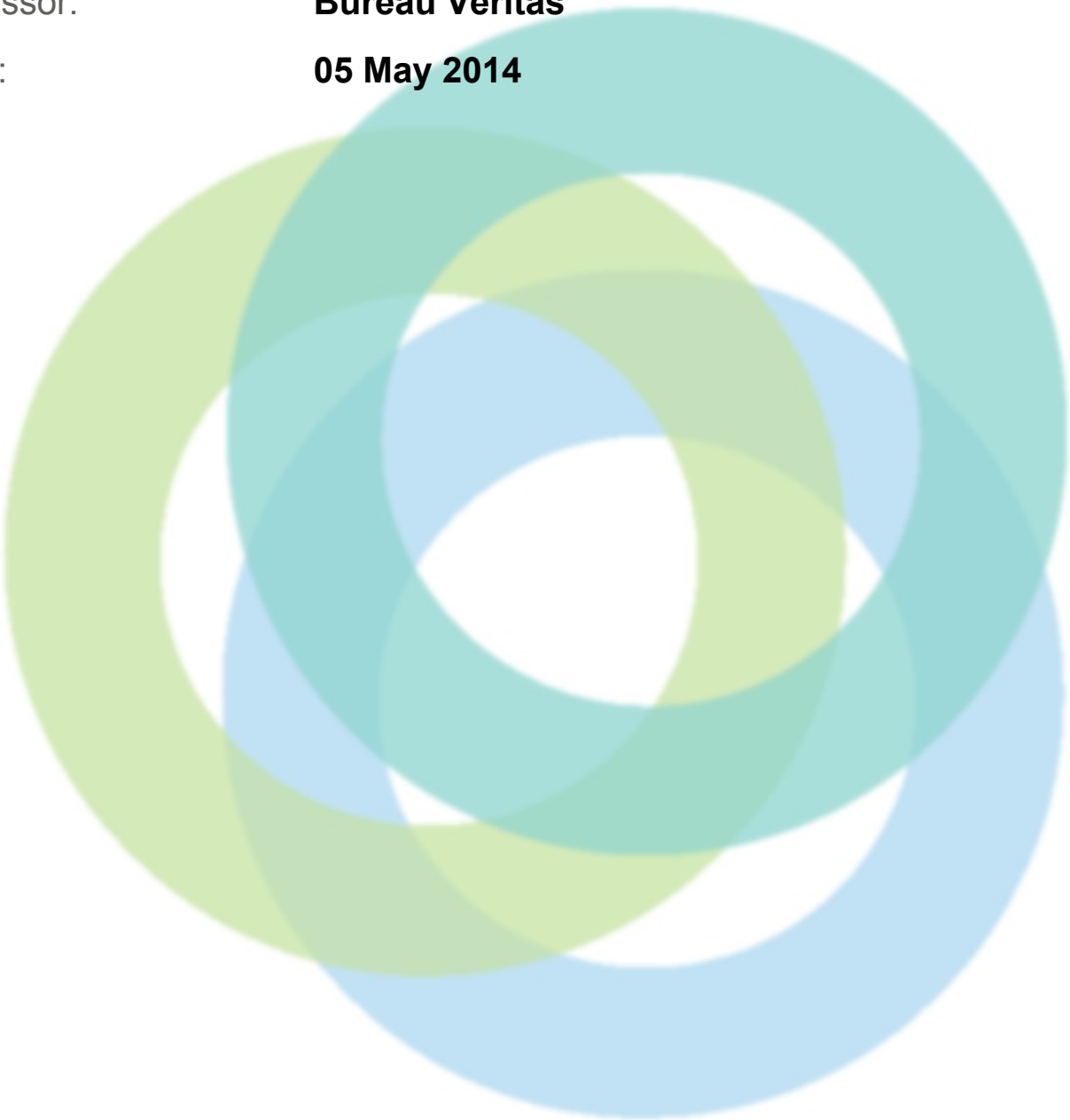
INITIAL FIRE ASSESSMENT REPORT (FAR)

Factory Name: **WALTZ FASHIONS LTD**

Address: **Badshamia School RD, Khalikur, National University
Gazipur Gazipur Dhaka Bangladesh**

Assessor: **Bureau Veritas**

Date: **05 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:	WALTZ FASHIONS LTD
Address:	Badshamia School RD, Khalikur, National University Gazipur Gazipur Dhaka Bangladesh
Country:	Bangladesh
Province:	Dhaka
City:	Gazipur
Zip Code:	1704
Audit Duration:	1 Days
Re-Audit:	Re-Audit After 0 Months
Draft Report Date:	05-05-2014
Final Report Date:	06-18-2014
Are all Action Items From Previous Assessment Completed?:	N/A
Buildings in Complex:	There are 4 buildings in the factory premises out of which two are main production building and two are ancillary buildings. The buildings are named as: 1) Five Story Waltz Fashions Ltd Main Building, 2) Four Story Rare Fashions Ltd Main Building, 3) Single Story Utility Building-1, 4) Single Story Utility Building-2.
Is the building(s) owned or rented by the Factory:	Owned
Number of Building Levels (Stories):	1) Five Story Waltz Fashions Ltd Main Building: Building height (Highest occupied floor level): 13.16 m or 43.16 ft [Height up to roof: 16.15 m or 52.3 ft], Stories above grade:5, Stories below grade:1, Occupied levels: 6, 2) Four Story Rare Fashions Ltd Main Building: Building height (Highest occupied floor level): 10.10 m or 33.13 ft [Height up to roof: 13.15 m or 43.13 ft], Stories above grade:4, Stories below grade:1, Occupied levels: 5, 3) Single Story Utility Building-1: Building height (Highest occupied floor level): 30 cm or 1 ft above grade [Height up to roof: 3.06 m or 10 ft], Stories above grade:1, Stories below grade:0, Occupied levels: 1, 4) Single Story Utility Building-2: Building height (Highest occupied floor level): 30 cm or 1 ft above grade [Height up to roof: 3.06 m or 10 ft], Stories above grade:1, Stories below grade:0, Occupied levels: 1.
Approximate Building Area (SF):	Total area of buildings in the factory premises: 90028.00 sft. Building wise breakdown as follows: 1) Five Story Waltz Fashions Ltd Main Building: 78331 sft (Basement: 13052 sft, Ground floor: 13036 sft, 1st floor: 13860 sft, 2nd floor: 13036 sft, 3rd floor: 13036 sft, 4th floor: 12311 sft), 2) Four Story Rare Fashions Ltd Main Building: 10097 sft (Basement: 1696 sft, Ground floor: 2182 sft, 1st floor: 2073 sft, 2nd floor: 2073 sft, 3rd floor: 2073 sft), 3) Single Story Utility Building-1: 600 sft, 4) Single Story Utility Building-2: 1000 sft.
Date of Building Construction:	Factory personnel informed the date of construction as follows: 1) Five Story Waltz Fashions Ltd Main Building: Finished in-2004, 2) Four Story Rare Fashions Ltd Main Building: Finished in-2010, 3) Single Story



	Utility Building-1: Finished in-2009, 4) Single Story Utility Building-2: Finished in-2009.
Date of Last Building Renovation/Addition:	Factory personnel informed the date of renovation as follows: From 05-01-2014 some construction works are going on: 1) In front of Five Story Waltz Fashions Ltd Main Building piling construction works is ongoing, 2) Fire hydrant installation back side of the Five Story Waltz Fashions Ltd Main Building is on process.
Ancillary Structures in Complex:	1) Single Story Utility Building-1, 2) Single Story Utility Building-2.
Approximate Ancillary Structures Area (SF):	1) Single Story Utility Building-1: 600 sft, 2) Single Story Utility Building-2: 1000 sft.
Number of Occupants:	Total number of occupants: 1094. 1) Five Story Waltz Fashions Ltd Main Building: 1014 (Basement: 16, Ground floor: 175, 1st floor: 297, 2nd floor: 66, 3rd floor: 324, 4th floor: 136, 2) Four Story Rare Fashions Ltd Main Building: 60 (Basement: 10, Ground floor: 15, 1st floor: 15, 2nd floor: 10, 3rd floor: 10, 3) Single Story Utility Building-1: 15, 4) Single Story Utility Building-2: 5.
Number of Ancillary Levels (Stories):	1) Single Story Utility Building-1: Building height (Highest occupied floor level): 30 cm or 1 ft above grade [Height up to roof: 3.06 m or 10 ft], Stories above grade: 1, Stories below grade: 0, Occupied levels: 1, 2) Single Story Utility Building-2: Building height (Highest occupied floor level): 30 cm or 1 ft above grade [Height up to roof: 3.06 m or 10 ft], Stories above grade: 1, Stories below grade: 0, Occupied levels: 1.
Occupancy Type:	1) Five Story Waltz Fashion Ltd Main Building: [Basement: F1 (Office), H1 (Accessory Store), H2 (Finished Store, Fabric Store), Ground floor: G2 (Spot removing room, Washing, Finishing), H2 (Finished Goods Store), K1 (Boiler, Sub-station, Generator), 1st floor: G2 (Trimming, Mending, Distribution), F1 (Office), 2nd floor: F1 (Office), G2 (Winding), H1 (Temporary Idle Machine Store), 3rd floor: G2 (Knitting, Distribution room), F1 (Office), E4 (Dining), 4th floor: G2 (Knitting, Inspection, Distribution room), F1 (Office)], 2) Four Story Rare Fashions Ltd. Main Building: [Basement: G2 (Knitting), H2 (Sub-Store), Ground floor: G2 (Knitting), F1 (Office), H2 (Finished Goods Store), 1st floor: H2 (Finished Goods Store), F1 (Office), 2nd floor: B2 (Childcare), D1 (Doctor room), E4 (Training room), G2 (Lab room), H2 (Finished Goods Store), 3rd floor: F1 (Office), H2 (Finished Goods Store)], see description.
Construction Type:	1) Five Story Waltz Fashions Ltd Main Building: Basement to 4th floor: Type 1 (Staircase Roof: Non-rated), 2) Four Story Rare Fashions Ltd Main Building: Basement to 3rd floor: Type 1 (Staircase Roof: Non-rated), 3) Single Story Utility Building-1: Type-1, 4) Single Story Utility Building-2: Type-1.
Height of Highest Occupied Floor Level Above Grade:	1) Five Story Waltz Fashions Ltd Main Building: 13.16 m or 43.16 ft, 2) Four Story Rare Fashions Ltd Main Building: 10.10 m or 33.13 ft, 3) Single Story Utility Building-1: 30 cm or 1 ft above grade, 4) Single Story Utility building-2: 30 cm or 1 ft above grade.



ASSESSMENT FINDINGS

Fire Protection Construction

Question:	Certificates of Occupancy for each building have been issued and are on file.	
Priority Level:	Low	
Non-Compliance Level:	1	
Description:	No occupancy certificate is available for any building in the factory premises.	
Source of Findings:	Document Review: No occupancy certificate was found.	
Suggested Plan of Action:	Apply to Rajuk for issuance of occupancy certificate and expedite the matter.	
Suggested Deadline Date:	05 Aug 2014	
Standard:	Are certificates of occupancy provided for each building or ancillary structure?	
Question:	Is the fire resistance materials of structural members in good condition and free of damage?	
Priority Level:	Medium	
Non-Compliance Level:		
Description:	There was no damage found in the fire resistance materials of the structural members in the five story main building, four story main building and utility buildings.	
Source of Findings:	Photograph: On visual inspection, no damage or distress was noticed in the structural members of the buildings.	
Suggested Plan of Action:		
Suggested Deadline Date:		
Standard:	BNBC Part 3 Chapter 3	



Question:	Are openings and penetrations through rated walls and/or assemblies protected?
Priority Level:	High
Non-Compliance Level:	3
Description:	1) There are openings through the rated walls of Utility Shed-2 for the boiler, generator, and gas meter. These openings must be fire rated as per the Alliance Standard. 2) Basement is used for fabric, accessories and finished goods storage and has high window openings. These high windows are open to outside and some portions are open to exit discharge.
Source of Findings:	Photograph: The above mentioned openings were found.
Suggested Plan of Action:	Install fire rated doors and windows or fill in unprotected openings with fire resistive rated assemblies.
Suggested Deadline Date:	16 Sep 2014
Standard:	Includes doors, windows, ducts, piping, etc. Reference Alliance Standards Part 4 Section 4.6 Opening Protectives and Section 4.7 Penetrations
Question:	Is each floor separated with a fire-resistive rated construction barrier?
Priority Level:	High
Non-Compliance Level:	
Description:	For both the main building (Five Story Waltz Fashions Ltd Four Story and Four Story Rare Fashions Ltd) slab thickness was found 6 inch as per drawing. From physical measurement, slab thickness was found 7.5 inch with finishing, which is capable of providing approximately 3.5 hour fire resistance. According to Alliance Standard Section 4.4 or BNBC Table 3.3.1 (pg-10383), slab for a Type 1 building needs to have 3 hour fire rating. From Alliance Standard Section 4.4.1 or BNBC Table 4.1.1 (pg-10409), fire rating of 6 inch and 8 inch RC slabs are 2.5 hour and 3.75 hour respectively. Therefore, the slab may be considered to have required fire rating to separate the floors.
Source of Findings:	Visual Assessment: Slab thickness was measured at landing.
Suggested Plan of Action:	
Suggested Deadline Date:	
Standard:	Reference Alliance Standards Part 4 Section 4.5 Separation





Question:	Are separations between hazards provided with fire-resistive rated construction barriers.
Priority Level:	Medium
Non-Compliance Level:	3
Description:	1. At ground floor of Waltz Fashions building, separation is not provided with required rating between generator, boiler and substation (K1) room and washing and finishing area (G2). 2. At Waltz fashions Ltd main building, spot removing rooms (G2) are located beside the production (G2) and finished foods storage area (H2) without fire construction barriers. 3. At 2nd floor of Rare Fashion Ltd Main Building childcare (B2) and doctor's room (D1) are located adjacent to the finished goods storage areas (H2) which are not separated by a rated construction barrier. As per Alliance Standard 3.4.2.1.5, Rooms used for storage of combustible materials shall be separated from the surrounding occupancy with a minimum 1 hour construction.
Source of Findings:	Photograph: Upon visual inspection, these above mentioned locations were found to have mixed occupancies without fire resistive rated separations.
Suggested Plan of Action:	Provide fire-resistive rated construction barriers between hazard types in accordance with the Alliance Standards. Consult a qualified fire protection engineer to design the required rated construction barrier.
Suggested Deadline Date:	09 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:	There are 3 stairs in Waltz Fashions Ltd main building and 2 stairs in the Rare Fashions Ltd main building. In the two exits enclosure of Waltz Fashions Ltd. Main building there is glass opening which is very close to production floor opening. In one staircase of Waltz Fashion there is glass window and within 7 ft distance there is glass window of production floor located in Rare fashion ltd main building. Installation fire rated windows or filling in unprotected openings with fire resistive rated assemblies is required in these staircases. Fire doors are installed at Waltz Fashion building (without credible certificates) and wooden, collapsible type doors are installed in Rare Fashion Ltd main building.





Source of Findings:	Photograph: Exit enclosure was found not to be fire rated.
Suggested Plan of Action:	Provide 2 hr fire-resistive rated construction barriers at exit enclosures. Provide self-closing, non-lockable, 1.5 hour fire-resistive rated doors that swing in the direction of egress in all stairwell enclosures. Install 1.5 hour fire rated windows or fill in unprotected openings with fire resistive rated assemblies. Consult a qualified fire protection engineer to design the required rated construction barriers.
Suggested Deadline Date:	16 Sep 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:	There are two lift core shafts available in the Waltz Fashions Ltd main building. Both are not fire rated. There is no such shaft in four story Rare fashions ltd building.
Source of Findings:	Visual Assessment: 2 lift core shafts were found without fire resistance rating.
Suggested Plan of Action:	Provide 1.5 hr fire protective opening assemblies in 2 hr rated exit enclosures as per Alliance Standards. If those shafts are not needed the seal them with 2 hr rated walls.
Suggested Deadline Date:	16 Sep 2014
Standard:	Reference Alliance Standards Part 4 Section 4.5.7.1 through 4.5.7.3
Question:	Fire dampers installed on air-conditioning and ventilation ducts appear to be in good condition and operational.
Priority Level:	Medium
Non-Compliance Level:	
Description:	No air-conditioning or ventilation duct available for which fire damper is required.
Source of Findings:	Visual Assessment: No air-conditioning or ventilation duct was found.
Suggested Plan of Action:	
Suggested Deadline Date:	
Standard:	Reference Alliance Standards Part 4 Section 4.6 Opening Protectives and





	Section 4.7 Penetrations	
Question:	If the building contains a vertical opening known as an atrium, have provisions been made to comply with Alliance Standard 3.7?	
Priority Level:	Medium	
Non-Compliance Level:		
Description:	No atrium is available in the buildings.	
Source of Findings:	Visual Assessment: No atrium was found.	
Suggested Plan of Action:		
Suggested Deadline Date:		
Standard:	Reference Alliance Standards Section 3.7 Atrium	
Fire Protection Systems		
Question:	Is the building protected by an automatic sprinkler system?	
Priority Level:	High	
Non-Compliance Level:		
Description:	Height of the highest occupied level of the Waltz Fashions main building is 43.16 ft (13.16m). Other buildings are shorter than the Waltz Fashions main building. Since the aforementioned height is less than 23m or 75 ft, automatic sprinkler system is not required for any of these buildings as per Alliance Standard part5, Section 5.3.	
Source of Findings:	Document Review: Height of the highest occupied level of the main building is 43.16ft(13.16m)	
Suggested Plan of Action:	Not applicable.	
Suggested Deadline Date:		
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:	Design criteria of sprinkler system?	
Priority Level:		
Non-Compliance Level:		
Description:	As an automatic sprinkler system is not required for the buildings, design criteria of sprinkler system is not applicable.	



Source of Findings:	Visual Assessment: No sprinkler system was found installed.	
Suggested Plan of Action:	Not applicable.	
Suggested Deadline Date:		
Standard:	Provide the criteria used in the design of the sprinkler system.	
Question:	Commodity Class used for the design of the sprinkler system?	
Priority Level:		
Non-Compliance Level:		
Description:	As an automatic sprinkler system is not required for the buildings, commodity class used for the design of sprinkler system is not applicable.	
Source of Findings:		
Suggested Plan of Action:	Not applicable.	
Suggested Deadline Date:		
Standard:	Reference NFPA 13 Chapter 5	
Question:	Occupancy Classification used for the design of the sprinkler system?	
Priority Level:		
Non-Compliance Level:		
Description:	As an automatic sprinkler system is not required for the buildings, occupancy classification used for the design of sprinkler system is not applicable.	
Source of Findings:		
Suggested Plan of Action:	Not applicable.	
Suggested Deadline Date:		
Standard:	Reference NFPA 13 Chapter 5	
Question:	Are inspection, maintenance, and testing procedures of the sprinkler system documented and up to date?	
Priority Level:	Low	
Non-Compliance Level:		
Description:	Not applicable because an automatic sprinkler system is not required for the	



	buildings.	
Source of Findings:		
Suggested Plan of Action:	Not applicable.	
Suggested Deadline Date:		
Standard:	Reference NFPA 25 Chapter 5 Sprinkler Systems Table 5.1.1.2	
Question:	Are identification signs for the sprinkler system installed at the required locations?	
Priority Level:	Low	
Non-Compliance Level:		
Description:	Not applicable because an automatic sprinkler system is not required for the buildings.	
Source of Findings:		
Suggested Plan of Action:	Not applicable.	
Suggested Deadline Date:		
Standard:	Reference NFPA 13	
Question:	Sprinkler system piping is free of mechanical damage, leakage, and corrosion.	
Priority Level:	Medium	
Non-Compliance Level:		
Description:	Not applicable because an automatic sprinkler system is not required for the buildings.	
Source of Findings:		
Suggested Plan of Action:	Not applicable.	
Suggested Deadline Date:		
Standard:	NFPA 25 Chapter 5 Section 5.2.2 Pipe and Fittings	
Question:	Sprinkler system piping is not subjected to external loads by materials either resting on the pipe or hung from the pipe?	
Priority Level:	Low	



Non-Compliance Level:		
Description:	Not applicable because an automatic sprinkler system is not required for the buildings.	
Source of Findings:		
Suggested Plan of Action:	Not applicable.	
Suggested Deadline Date:		
Standard:	Reference NFPA 25 Chapter 5 Section 5.2.2.2	
Question:	Are hangers, bracing, and restraints properly installed and supporting the system piping?	
Priority Level:	Medium	
Non-Compliance Level:		
Description:	Not applicable because an automatic sprinkler system is not required for the buildings.	
Source of Findings:		
Suggested Plan of Action:	Not applicable.	
Suggested Deadline Date:		
Standard:	Reference NFPA 13 Chapter 9 Hanging, Bracing, and Restraint of System Piping.	
Question:	Sprinklers do not show signs of leakage, are free of corrosion, have not been painted, and are not physically damaged.	
Priority Level:	Medium	
Non-Compliance Level:		
Description:	Not applicable because an automatic sprinkler system is not required for the buildings.	
Source of Findings:		
Suggested Plan of Action:	Not applicable.	
Suggested Deadline Date:		
Standard:	Reference NFPA 25 Chapter 5	



Question:	All valves controlling the automatic sprinkler systems are electrically supervised by a listed fire alarm system control unit.	
Priority Level:	Medium	
Non-Compliance Level:		
Description:	Not applicable because an automatic sprinkler system is not required for the buildings.	
Source of Findings:		
Suggested Plan of Action:	Not applicable.	
Suggested Deadline Date:		
Standard:	Reference Alliance Standard Part 5 Section 5.3.5 Supervision and Alarms.	
Question:	Does the automatic sprinkler system have an approved audible device activated by waterflow equal to the flow of one sprinkler?	
Priority Level:	Low	
Non-Compliance Level:		
Description:	Not applicable because an automatic sprinkler system is not required for the buildings.	
Source of Findings:		
Suggested Plan of Action:	Not applicable.	
Suggested Deadline Date:		
Standard:	Reference Alliance Standards Part 5 Section 5.3.5.2 Alarms.	
Question:	Are sprinklers spaced and installed at the required heights in order to provided required coverage and protection?	
Priority Level:	High	
Non-Compliance Level:		
Description:	Not applicable because an automatic sprinkler system is not required for the buildings.	
Source of Findings:		
Suggested Plan of Action:	Not applicable.	
Suggested Deadline		



Date:		
Standard:	Reference NFPA 13	
Question:	Are storage racks and shelves compliant based on class of commodity storage?	
Priority Level:	High	
Non-Compliance Level:		
Description:	Not applicable because an automatic sprinkler system is not required for the buildings.	
Source of Findings:		
Suggested Plan of Action:	Not applicable.	
Suggested Deadline Date:		
Standard:	Reference NFPA 13 Chapter 13, 14, 15, 16, or 17	
Question:	Aisles in storage areas are free of storage based on design criteria used for the sprinkler system.	
Priority Level:	Medium	
Non-Compliance Level:		
Description:	Not applicable because an automatic sprinkler system is not required for the buildings.	
Source of Findings:		
Suggested Plan of Action:	Not applicable.	
Suggested Deadline Date:		
Standard:	Alliance Standard Part 5 Section 5.3.6.3	
Question:	All storage is maintained with a 460 mm (18 in.) minimum clearance from the top of storage to the sprinkler deflector.	
Priority Level:	Medium	
Non-Compliance Level:		
Description:	Not applicable because an automatic sprinkler system is not required for the buildings.	
Source of Findings:		



Suggested Plan of Action:	Not applicable.
Suggested Deadline Date:	
Standard:	Reference Alliance Standards Part 5 Section 5.3.6.1 Storage Clearance
Question:	Does the building have a Standpipe System?
Priority Level:	High
Non-Compliance Level:	3
Description:	The height of the highest occupied floor of the Waltz Fashions main building and Rare Fashions Ltd Main Building is 13.16m (43.16 ft) and 10.10 m (33.13 ft) respectively. Therefore, a class-III standpipe system needs to be installed throughout the building. There is no standpipe system in the main and ancillary buildings that meets NFPA requirements. No class-I standpipe hose connection (65 mm) is installed at stairwells on each floor level including occupiable roof and no class-II (40mm) hose connection is installed inside floors. Installation of the standpipe system is ongoing and 25mm plastic hose connection is available on the floors.
Source of Findings:	Photograph: Construction of standpipe system is ongoing.
Suggested Plan of Action:	Install a NFPA-14 compliant class-III standpipe system at required locations designed by a qualified fire protection engineer. The hydraulic calculations should be reviewed by the Alliance prior to start of work. All standpipe system installations shall be reviewed by the Alliance prior to commencement of installation. Testing of the installation shall be conducted in accordance with NFPA acceptance testing requirements. Documentation of all testing shall be submitted for review by the Alliance. Final inspection and testing of the installation shall be witnessed by the Alliance.
Suggested Deadline Date:	16 Sep 2014
Standard:	Does the building have a standpipe system installed where required. Alliance Standard Part 5 Section 5.4.2
Question:	Are inspection, maintenance, and testing procedures of the standpipe and hose system documented and up to date? Including inspection and testing of hoses if provided.
Priority Level:	Low
Non-Compliance Level:	1
Description:	There is no test and maintenance plan or record for testing and maintaining existing standpipe system as per NFPA requirements.
Source of Findings:	Document Review: 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	Establish an inspection, maintenance, and testing program for the standpipe





Action:	and hose system. Program must comply with NFPA-25 requirements.	
Suggested Deadline Date:	09 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:	Installation of the standpipe system is ongoing and signage for the standpipe system is not provided.	
Source of Findings:	Visual Assessment: No signage for the existing standpipe system available.	
Suggested Plan of Action:	Install identification signs at the required locations as per NFPA-14.	
Suggested Deadline Date:	05 Aug 2014	
Standard:	Reference NFPA 14 Chapter 6	
Question:	Standpipe system piping is free of mechanical damage, leakage, and corrosion?	
Priority Level:	Medium	
Non-Compliance Level:		
Description:	Installation of the standpipe system ongoing and existing standpipe is free of mechanical damage, corrosion, leakage.	
Source of Findings:	Photograph: Existing standpipe is free of mechanical damage, corrosion, leakage.	
Suggested Plan of Action:		
Suggested Deadline Date:		
Standard:	NFPA 25 Chapter 6 Standpipe and Hose Systems	





Question:	Are fire department connections provided and clearly identified for the Fire Protection Systems?	
Priority Level:	Medium	
Non-Compliance Level:	2	
Description:	Fire department inlet connection (Siamese) is present but not clearly visible from road face and is obstructed by fire pump shed. Also, fire department outlet connections are not provided to allow fire department pumper vehicles to draw water from ground-level or underground water storage tanks.	
Source of Findings:	Photograph: Fire department inlet connection is not visible and is obstructed by the fire pump shed.	
Suggested Plan of Action:	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. Both the inlet and outlet connection should be clearly visible and should be in reach of fire department pumper vehicle.	
Suggested Deadline Date:	09 Dec 2014	
Standard:	Alliance Standard Part 5 Section 5.5.4 Fire Department Connections	
Question:	Does the building have a fire pump?	
Priority Level:	High	
Non-Compliance Level:	3	
Description:	Fire pump installation is in progress. However, no document is available regarding hydraulic calculation of the standpipe system.	
Source of Findings:	Visual Assessment: Fire pump installation is on progress.	
Suggested Plan of Action:	Install a pump dedicated for fire fighting or fire protection following NFPA 20 requirements. Fire pump installation is to be tested for final acceptance in presence of the Alliance and a final inspection of the installation shall be conducted by the Alliance prior to final acceptance. Acceptance testing of the installation shall be in accordance with NFPA 20 testing requirements. Documentation of all testing shall be submitted to the Alliance for review prior to final acceptance. This pump is to be connected to alternative power source such as a generator, and the generator is to be connected with ATS (auto starter).	
Suggested Deadline Date:	31 Aug 2014	
Standard:	Alliance Standard Part 5 Fire Protection Systems	
Question:	Are inspection, maintenance, and testing procedures of the fire pump documented and up to date?	
Priority Level:	Low	



Non-Compliance Level:		
Description:	Inspection, maintenance, and testing procedures for the fire pump are not documented and up to date as the installation process is ongoing.	
Source of Findings:	Visual Assessment: Fire pump installation is in progress.	
Suggested Plan of Action:		
Suggested Deadline Date:		
Standard:	Reference NFPA 25 Chapter 8 Fire Pumps	
Question:	Are portable fire extinguishers installed throughout the building at required locations and mounted at the correct height?	
Priority Level:	Medium	
Non-Compliance Level:		
Description:	Portable fire extinguishers installed throughout the building at required locations and mounted height is 4'-10" from floor to fire extinguisher top.	
Source of Findings:	Visual Assessment: Fire Extinguishers are mounted at 4'-10" from floor.	
Suggested Plan of Action:		
Suggested Deadline Date:		
Standard:	BNBC Part 4 Section 4.10 and NFPA 10	
Question:	Portable fire extinguishers have been selected based on potential fire class and hazards?	
Priority Level:	Medium	
Non-Compliance Level:		
Description:	Portable fire extinguishers have been placed according to potential fire class and hazards.	
Source of Findings:	Visual Assessment: Fire Extinguishers have been selected based on potential fire class and hazards.	
Suggested Plan of Action:		
Suggested Deadline Date:		
Standard:	NFPA 10 Chapter 5	



Question:	Fire extinguishers are inspected, tested, and maintained as required.
Priority Level:	Medium
Non-Compliance Level:	2
Description:	Extinguishers are inspected monthly by factory's concerned people, but no document was found in support of: 1) annual maintenance of extinguishers by a servicing agent, 2) annual testing of nozzle and 3) internal inspection of extinguishers at 5 year interval.
Source of Findings:	Document Review: No document regarding annual inspection or maintenance of fire extinguishers was found.
Suggested Plan of Action:	Inspect, test, and maintain fire extinguishers in accordance with NFPA 10 requirements.
Suggested Deadline Date:	09 Dec 2014
Standard:	NFPA 10 Chapter 7
Question:	Are there any other fire suppression systems installed within the building?
Priority Level:	
Non-Compliance Level:	
Description:	No other fire suppression system is available within the buildings.
Source of Findings:	Visual Assessment: No other fire suppression system was found.
Suggested Plan of Action:	
Suggested Deadline Date:	
Standard:	
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:	An automatic fire alarm and detection control panel 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:	Visual Assessment: Fire alarm and detection system are not monitored centrally.
Suggested Plan of	Arrange for direct connection of the fire alarm system to a central monitoring





Action:	station or Fire Service and Civil Defense as per the Alliance Standard. Until that time that monitoring can be set up, 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:	22 Jul 2014
Standard:	Alliance Standard Part 5 Section 5.7.5 Monitoring
Question:	Trouble or alarm notifications were not indicated on the fire alarm control panel.
Priority Level:	High
Non-Compliance Level:	
Description:	Panel power, zone light (to address zone wise), fault light (if anything is disconnected) etc. on fire alarm control panel are functional during site visit.
Source of Findings:	Photograph: Centralized fire alarm system was found in the factory premises.
Suggested Plan of Action:	
Suggested Deadline Date:	
Standard:	Alliance Standard Part 13 Section 13.10 Maintenance of Fire Protection Equipment
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:	
Description:	Pull stations, smoke detectors, visual and audible devices are placed where required but approved shop drawing was not found.
Source of Findings:	Photograph: During site tour, pull station, smoke detector, audible alarm, visual alarm were found as required.
Suggested Plan of Action:	
Suggested Deadline 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



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:		
Description:	In the 3rd floor of Waltz Fashions Ltd Main building, 324 workers were working. The area per person is 40.23 sft which is greater than Alliance standard (25 sft) according to Alliance Standard Part 6 Section 6.4.2.1. On 3rd floor of Waltz Fashion Ltd main building the total width of aisles, exits and stairs(3) is 6.09 m, 4.62 m and 4.30 m respectively. Required width of aisles, exits and stairs as per occupant load is 1.62 m, 1.30 m and 2.59 m respectively. Means of egress satisfy as per occupant load. On Ground and 1st floor of Rare Fashions Ltd Main building, the occupant load is 15 which are highest in the building. The area of 1st floor is 2073 sft. So, the area per person is 138.20 sft which is greater than Alliance standard (25 sft) according to Alliance Standard Part 6 Section 6.4.2.1. On 1st floor of Rare Fashions Ltd Main building the total width of aisles, exits and stairs(2) is 3.04 m, 1.83 m and 2.51 m respectively. Required width of aisles, exits and stairs as per occupant load is 0.08 m, 0.06 m and 0.12 m respectively. Means of egress satisfy as per occupant load.	
Source of Findings:	Visual Assessment: Highest occupant loads on the 3rd floor of Waltz Fashion and 1st of Rare Fashion do not exceed the capacity of available means of egress.	
Suggested Plan of Action:		
Suggested Deadline Date:		
Standard:	Alliance Standard Part 6 Section 6.4 Occupant Load	
Question:	Occupied roofs are provided with the minimum number of exits required as a story.	
Priority Level:	High	
Non-Compliance Level:		
Description:	Roof is not occupied.	
Source of Findings:	Visual Assessment: Roof was found unoccupied.	
Suggested Plan of Action:		
Suggested Deadline Date:		
Standard:	Alliance Standards Part 6 Section 6.6 Number of Means of Egress	



Question:	All occupied roofs are provided with parapets or guards with a minimum height of 1067 mm (42 in.).
Priority Level:	Medium
Non-Compliance Level:	
Description:	Roof is not occupied.
Source of Findings:	Visual Assessment: Roof was found unoccupied.
Suggested Plan of Action:	
Suggested Deadline Date:	
Standard:	Alliance Standard Part 6 Section 12 Handrails and Guards
Question:	Occupant loads are posted for every assembly and production floor in a conspicuous space near the main point of egress.
Priority Level:	Medium
Non-Compliance Level:	2
Description:	Occupant loads are not posted in any assembly or production floor as required.
Source of Findings:	Visual Assessment: No occupant loads were found posted on any assembly or production floor near the main point of egress.
Suggested Plan of Action:	Post the occupant load for every 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:	22 Jul 2014
Standard:	Alliance Standards Part 6 Section 6.4.4 Posting of Occupant Load
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:	
Description:	All the aisles width is more than 0.9m, which satisfies the requirements of Alliance Standard Part 6 Section 6.5.1. On 3rd floor (Highest occupant load) of Waltz Fashion ltd main building the total width of aisles is 6.09 m. Required width of aisles as per occupant load is 1.62 m. On 1st floor (Highest occupant load) of Rare Fashions ltd Main building the total width of aisles is 3.04 m. Required width of aisles as per occupant load is 0.08 m. In both the buildings the total widths of aisles satisfy as per requirement.
Source of Findings:	Visual Assessment: Aisles width was found more than 0.9m.





Suggested Plan of Action:		
Suggested Deadline Date:		
Standard:	Higher occupancy loads will require a greater width to accommodate the increased load. Alliance Standard Part 6 Section 6.5 Egress Width	
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:		
Description:	The path of egress along the means of egress is not reduced at any point along the path of travel.	
Source of Findings:	Visual Assessment: Widths of aisles, exit doors and stairs are measured on sample basis.	
Suggested Plan of Action:		
Suggested Deadline Date:		
Standard:	Alliance Standard Part 6 Section 6.5 Egress Width and BNBC Table 4.3.2	
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:		
Description:	Means of egress have ceiling height more than 2.3 m (7ft 6in) and projections from the ceiling is also more than 2.03 m (6ft-8in).	
Source of Findings:	Visual Assessment: Ceiling height was measured on sample basis.	
Suggested Plan of Action:		
Suggested Deadline Date:		
Standard:	Alliance Standard Part 6 Section 6.3.3 Headroom	



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:	There are 3 stairs at Waltz Fashion Ltd main building and 2 stairs at Rare Fashion main building where none of the exit discharges are directly to the exterior of the building.
Source of Findings:	Photograph: No exit discharge is directly to the exterior of the building.
Suggested Plan of Action:	Provide fire rated exit passageway i.e. protected path of egress from the exit enclosure to the public way. The rating of the exit passageway is to be equal to fire rating requirement of the exit that is being served and shall not be less than 1 hr fire-resistance rated.
Suggested Deadline Date:	16 Sep 2014
Standard:	Alliance Standard Part 6 Section 6.17 Exit Discharge. See Section 16.7.2 and 16.7.3 for exceptions.
Question:	Travel distance to reach an exit does not exceed the maximum distance allowed by Occupancy Type.
Priority Level:	High
Non-Compliance Level:	
Description:	Maximum travel distance to exit is within 24m in all the buildings. Though standpipe system is not provided in accordance with Alliance Standard. Travel distance does not exceed the allowable limit 45m set by Alliance Standard Part 6 Section 13 and BNBC Part 4 Section 3.15.1.
Source of Findings:	Visual Assessment: Travel distances are measured on sample basis.
Suggested Plan of Action:	
Suggested Deadline Date:	
Standard:	Alliance Standard Part 6 Section 13 Travel Distance and BNBC Part 4 Section 3.15.1
Question:	Exit access corridors serving an occupant load exceeding 30 are separated by walls having a fire-resistance rating of 1 hr.
Priority Level:	High
Non-Compliance Level:	2
Description:	There are 2 exit access corridors and 1 passage available on ground floor and

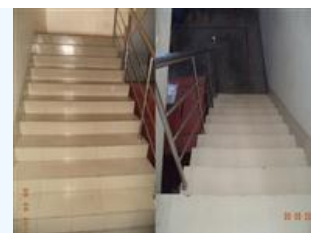




	2nd floor at Waltz Fashions Ltd main building. The occupant load through these corridors and passage is more than 30 but the corridors are not separated by the walls with fire-resistance ratings of 1 hr. There is no such corridor in Rare Fashion limited main building	
Source of Findings:	Photograph: There are 2 exit access corridors on ground and 2nd floors.	
Suggested Plan of Action:	Provide fire-resistive rated assemblies at the required exit access corridors. The rated assembly should be approved and designed by a qualified fire protection engineer in accordance with the Alliance Standard.	
Suggested Deadline Date:	16 Sep 2014	
Standard:	Alliance Standard Part 6 Section 6.3 and Part 4 Section 4.5. Does not apply if an automatic sprinkler system is installed throughout the building.	
Question:	Interior finishes for means of egress meet the rating requirements for Class A, B and C materials.	
Priority Level:	Medium	
Non-Compliance Level:		
Description:	The interior finishes of the means of egress are of plaster and non-combustible paint.	
Source of Findings:	Photograph: Interior finishes for means of egress are observed.	
Suggested Plan of Action:		
Suggested Deadline Date:		
Standard:	Alliance Standard Part 6 Section 6.3.2 Interior Finish	
Question:	Exits are limited to Class A and Class B interior materials.	
Priority Level:	Medium	
Non-Compliance Level:		
Description:	All exits are made of brick wall.	
Source of Findings:	Photograph: During site tour, interior materials of exits were observed.	
Suggested Plan of Action:		
Suggested Deadline Date:		
Standard:	Alliance Standard Part 6 Section 6.3.2 Interior Finish	



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:	
Description:	There are 3 exits in Waltz fashions ltd main building and 2 exits in Rare fashions Ltd main building.
Source of Findings:	Photograph: Required minimum numbers of means of egress were found.
Suggested Plan of Action:	
Suggested Deadline Date:	
Standard:	Alliance Standard Part 6 Section 6.6 Number of Means of Egress
Question:	The number of means of egress from any floor or story is not less than 3 when the occupant load exceeds 500 per story and not less than 4 when the occupant load exceeds 1000 per story.
Priority Level:	High
Non-Compliance Level:	
Description:	There is no floor or story with over 500 occupants.
Source of Findings:	Visual Assessment: Number of emergency exit doors were counted and occupant load was checked.
Suggested Plan of Action:	
Suggested Deadline Date:	
Standard:	Alliance Standard Part 6 Section 6.6 Number of Means of Egress
Question:	All paths of egress are provided with compliant means of illumination.
Priority Level:	Medium
Non-Compliance Level:	
Description:	Aisles, exit access corridors and staircases are provided with compliant means of illumination.
Source of Findings:	Photograph: Aisles, exit access corridors, exit doors and stairways were found sufficiently illuminated while auditing.
Suggested Plan of Action:	





Suggested Deadline Date:		
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:	Means of egress are free from impediments, obstructions, and stored materials.	
Priority Level:	High	
Non-Compliance Level:	3	
Description:	Materials were stored along the means of egress on the ground floor, 2nd floor and 4th floor of Waltz Fashions Ltd Main building. Also, in Rare Fashions Ltd Main Building, storage were found on 1st and 3rd floors, which is a violation of the Alliance Standard.	
Source of Findings:	Photograph: Materials were stored at means of egress.	
Suggested Plan of Action:	Keep means of egress continuously free and clear of all obstructions or impediments to full instant use in the case of fire or other emergency.	
Suggested Deadline Date:	24 Jul 2014	
Standard:	Alliance Standard Part 6 Section 6.3.8 Impediments to means of egress and Section 6.3.9 Reliability	
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:	The emergency lights are checked everyday, but no proper document for verification or tests on a monthly basis or functional testing on yearly basis for emergency power for means of illumination was found.	
Source of Findings:	Document Review: No specific document regarding verification or functional testing was found.	
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 shall be tested on a monthly basis. Functional testing of battery powered signs shall be provided for a minimum 90 min once per year. Emergency power for means of egress illumination shall be verified at least once per year. If battery operated lights are used, these lights shall be tested on a monthly basis. Functional testing of battery powered lights shall be provided for a minimum 30 min once per year.	
Suggested Deadline Date:	22 Jul 2014	



Standard:	Alliance Standards Part 10 Section 10.12 Illumination of Exit Signs and Means Of Escape Lighting	
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:	There were locks and slide bolts at the exit doors and many doors were found locked during audit.	
Source of Findings:	Photograph: Exit doors were found with provision of locks and slide bolts.	
Suggested Plan of Action:	Remove all hasps, locks, slide bolts, or other locking devices at the noted locations. Doors may be locked where the latch and lock are disengaged with one motion where the occupant load does not exceed 49 persons. Turning a door handle and disengaging a lock is considered two motions.	
Suggested Deadline Date:	08 Jul 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:	2	
Description:	Door widths are more than 0.8m. Some of the doors are collapsible and wooden doors, therefore non-rated. Visually some of the doors are fire doors. However, no credible certificate for those doors is available. Fire doors of proper rating are required in accordance with the Alliance Standard.	
Source of Findings:	Photograph: No fire doors with credible certification was found.	
Suggested Plan of Action:	Provide 1.5 hr fire protective opening assemblies in 2 hr rated exit enclosures as per the Alliance Standard.	
Suggested Deadline Date:	16 Sep 2014	
Standard:	Alliance Standard Part 6 Section 6.5.6 Minimum Widths. Increased occupant loads will require a door width greater than 0.8 m.	
Question:	All doors in a means of egress are of the side-hinged swinging type.	
Priority Level:	High	
Non-Compliance Level:	2	
Description:	All doors in means of egress are not side hinged swinging type.	



Source of Findings:	Photograph: Some doors were not found to be side-hinged swinging type.
Suggested Plan of Action:	Replace all collapsible, sliding, roll-down gates and shutters in means of egress with side-hinged type doors of proper width and rating which swing in the direction of egress in accordance with the Alliance Standard.
Suggested Deadline Date:	16 Sep 2014
Standard:	Alliance Standards Part 6 Section 6.8 Doors and Gates
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 signs 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 signs were not found at all required locations.
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:	09 Dec 2014
Standard:	Alliance Standard Part 6 Section 6.11 Exit Signs
Question:	Changes in elevation of walking surfaces do not exceed 6.35 mm (1/4 in) unless provided with a beveled slope of 1 in 2 that does not exceed 12.7 mm (1/2 in).
Priority Level:	Medium
Non-Compliance Level:	
Description:	No such elevation difference is available in the buildings.
Source of Findings:	Visual Assessment: No such elevation difference was found.
Suggested Plan of Action:	
Suggested Deadline Date:	
Standard:	Alliance Standard Part 6 Section 6.3.4 Walking Surfaces





Question:	Illuminated exit signs are provided with battery backup or emergency power and are continuously illuminated.
Priority Level:	Medium
Non-Compliance Level:	
Description:	Illuminated exit signs are provided with battery backup for continuous illumination.
Source of Findings:	Visual Assessment: Exit signs are provided with battery backup.
Suggested Plan of Action:	
Suggested Deadline Date:	
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:	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:	No plan or record of conducting periodic tests of the emergency battery backup for illumination of exit signs was found as per the Alliance Standard.
Source of Findings:	Visual Assessment: No relevant document available.
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 are to tested on a monthly basis. Functional testing of battery powered signs is provided for a minimum 90 min once per year.
Suggested Deadline Date:	22 Jul 2014
Standard:	Alliance Standard Part 10 Section 10.12 Illumination of Exit Signs and Means Of Escape.
Question:	Exit signs have appropriate illumination levels and contrasting graphics.
Priority Level:	Low
Non-Compliance Level:	2
Description:	Exit signs do not have appropriate illumination levels or contrasting graphics as required.
Source of Findings:	Photograph: Exit signs do not have appropriate illumination levels or contrasting graphics.

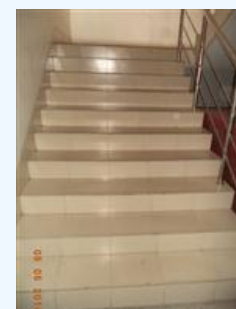




Suggested Plan of Action:	Make sure all required exit signs are illuminated continuously at all times. Exit signs may be illuminated either by lamps external to the sign or by lamps contained within the sign. The source of illumination shall provide not less than 50 lux at the illuminated surface with 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:	09 Dec 2014	
Standard:	Alliance Standard Part 10 Section 10.12.1 Exit Signs	
Question:	Walking surfaces along the path of egress are uniformly slip resistant.	
Priority Level:	Medium	
Non-Compliance Level:		
Description:	Walking surfaces are made of tiles which are not slippery and will not cause slip during quick evacuation under emergency.	
Source of Findings:	Photograph: Walking surfaces are made of non slippery tiles.	
Suggested Plan of Action:		
Suggested Deadline Date:		
Standard:	Alliance Standard Part 6 Section 6.3.6 Slip Resistance	
Question:	Stairs are constructed of noncombustible materials.	
Priority Level:	Low	
Non-Compliance Level:		
Description:	All the stairs of the buildings are made of concrete.	
Source of Findings:	Photograph: Stairs are constructed of concrete.	
Suggested Plan of Action:		
Suggested Deadline Date:		
Standard:	Alliance Standard Part 6 Section 6.9 Stairs	



Question:	Stairs have a minimum width of 0.9 m (35 in.).
Priority Level:	High
Non-Compliance Level:	
Description:	All stairs in the buildings are wider than 0.9m .
Source of Findings:	Photograph: Stair width was measured during site visit.
Suggested Plan of Action:	
Suggested Deadline Date:	
Standard:	Alliance Standard Part 6 Section 6.5 Egress Width. Applies to existing construction.
Question:	Stair treads are of nominal uniformity.
Priority Level:	Medium
Non-Compliance Level:	
Description:	Stair treads and risers are of nominal uniformity.
Source of Findings:	Photograph: Stair treads and risers were measured.
Suggested Plan of Action:	
Suggested Deadline Date:	
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:	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:	
Description:	All stair landings are provided on both sides of doors used along the path of egress. Doors do not swing out over stairs.
Source of Findings:	Photograph: Landings are provided on both sides of doors.
Suggested Plan of Action:	
Suggested Deadline Date:	





Standard:	Alliance Standards Part 6 Section 6.8 Doors and Gates	
Question:	Landings are provided with the same width in the direction of egress travel as the stair clear width provided at each level and at intermediate landings. Existing landings that are less than the stair width, shall reduce the overall available capacity of the stair.	
Priority Level:	High	
Non-Compliance Level:		
Description:	Landings are not provided with the same width as the stair clear width. At each level of Waltz Fashions Ltd main building in south east stair, the width of stair is 1.52 m and the width of landing is 1.1m which is greater than 0.9m. As per highest occupant load on 3rd floor the required total width of stair is 2.59 m and existing total width of stair is 4.30 m (reduction due to landing is considered). So, there is no need to increase the landing width.	
Source of Findings:	Photograph: Landings are not provided with the same width in the direction of egress travel.	
Suggested Plan of Action:		
Suggested Deadline Date:		
Standard:	Alliance Standard Part 6 Section 6.9 Stairs and Section 6.5	
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 only on one side of stairs.	
Source of Findings:	Visual Assessment: Handrails were not found on both sides of stairs.	
Suggested Plan of Action:	Install handrails on both sides of the stairs in accordance with the Alliance Standard.	
Suggested Deadline Date:	09 Dec 2014	
Standard:	Alliance Standard Part 6 Section 6.9 Stairs and 6.12 Handrails and Guards	
Question:	Every door in a stair enclosure serving more than 5 stories is provided with re-entry unless it meets the requirements of Alliance Standards Part 6 Section 6.8.3.1.	
Priority Level:	Medium	
Non-Compliance Level:		



Description:	The building is 5 storied, so re-entry door is not necessary for this building as per Alliance Standards Part 6 Section 6.8.3.1	
Source of Findings:	Visual Assessment: Re-entry door was not required.	
Suggested Plan of Action:		
Suggested Deadline Date:		
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:		
Description:	No exterior stair available in the main buildings.	
Source of Findings:	Visual Assessment: No exterior stair was found.	
Suggested Plan of Action:		
Suggested Deadline Date:		
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:	There are 3 stairs at Waltz Fashion Ltd main building and 2 stairs at Rare Fashion main building where none of the exit discharges are directly to the exterior of the building.	
Source of Findings:	Photograph: Interior exit stairways terminate at non-rated exit passageway.	
Suggested Plan of Action:	Provide fire rated exit passageway i.e. protected path of egress from the exit enclosure to the public way. The rating of the exit passageway is to be equal to fire rating requirement of the exit that is being served and shall not be less than 1 hr fire-resistance rated.	
Suggested Deadline Date:	16 Sep 2014	



Standard:	Alliance Standard Part 6 Section 6.14 Exit Enclosures	
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 not provided at each floor entrance from the stair to the floor in English and Bengali.	
Source of Findings:	Photograph: Stair designation signs are not available all through the buildings.	
Suggested Plan of Action:	Install signage adjacent to each stair door indicating the stair name and the floor level in accordance with Alliance Standard.	
Suggested Deadline Date:	22 Jul 2014	
Standard:	Alliance Standard Part 6 Section 6.9 Stairs	
Question:	Stairwells are not utilized as storage spaces.	
Priority Level:	High	
Non-Compliance Level:		
Description:	Stairwells are not utilized as storage spaces .	
Source of Findings:	Photograph: Stairwells were found free of storage.	
Suggested Plan of Action:		
Suggested Deadline Date:		
Standard:	Alliance Standard Part 13 Section 13.9 Safety Inspections	
Question:	Ramps used in a means of egress do not reduce the overall means of egress width. The minimum width shall be 1.1 m (44 in.).	
Priority Level:	High	
Non-Compliance Level:		
Description:	A ramp was found having a width of 6'-0" in front of Rare Fashion Ltd Main building.	
Source of Findings:	Visual Assessment: Ramp width was found 72".	
Suggested Plan of Action:		



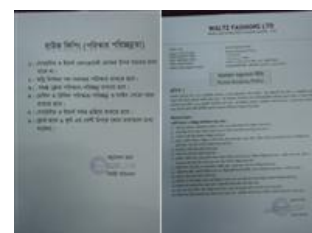
Suggested Deadline Date:		
Standard:	Alliance Standards Part 6 Section 10 Ramps	
Question:	Ramps do not have a running slope greater than 1 in 8 (12.5 percent) and have handrails on both sides of the ramp.	
Priority Level:	Medium	
Non-Compliance Level:	2	
Description:	A ramp was available with a running slope greater than 1 in 16. It did not have handrails on both sides of the ramp.	
Source of Findings:	Photograph: A ramp with a greater running slope than allowed and without handrails on both sides was found.	
Suggested Plan of Action:	Reconstruct the ramp with slope 1 in 12 and provide handrails on both sides of the ramp as per the Alliance Standard.	
Suggested Deadline Date:	09 Dec 2014	
Standard:	Alliance Standard Part 6 Section 10 Ramps	
Fire Safety Programs		
Question:	A Fire Safety Director position has been filled.	
Priority Level:	Low	
Non-Compliance Level:	3	
Description:	No physical presence of Fire Safety Director was found.	
Source of Findings:	Visual Assessment: Fire Safety Director was not available.	
Suggested Plan of Action:	Create a Fire Safety Director position and fill the position with an individual that has had sufficient training to be able to carry the required duties. 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:	09 Dec 2014	
Standard:	Alliance Standards Part 13 Section 13.1 Fire Safety Director	
Question:	An emergency evacuation plan has been developed and communicated to all employees.	
Priority Level:	Medium	



Non-Compliance Level:	3	
Description:	Workers are aware of the evacuation procedure upon commencing of the alarm. However, no procedure defining the evacuation process was available.	
Source of Findings:	Document Review: No detailed evacuation plan was available.	
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.	
Suggested Deadline Date:	22 Jul 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:		
Description:	Emergency egress maps are posted at the entrance to each exit stair or main point of egress.	
Source of Findings:	Visual Assessment: Egress maps are posted at required locations.	
Suggested Plan of Action:		
Suggested Deadline Date:		
Standard:	Alliance Standards Part 13 Section 13.4 Evacuation Plan	
Question:	Fire Department pre-planning has been completed.	
Priority Level:	Low	
Non-Compliance Level:	2	
Description:	Fire Department pre-planning has not been completed.	
Source of Findings:	Document Review: No fire department pre-planning document was found.	
Suggested Plan of Action:	Complete fire department pre-planning activities with the local Fire Service and Civil Defense in accordance with Alliance Standard.	
Suggested Deadline Date:	22 Jul 2014	
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 at required intervals in all buildings but not under the direction of a Fire Safety Director. This does not meet the requirements of the Alliance Standard.
Source of Findings:	Document Review: Document regarding fire drill was found but fire drills were not conducted under the direction of a Fire Safety Director.
Suggested Plan of Action:	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 Part 4 Appendix A.
Suggested Deadline Date:	09 Dec 2014
Standard:	Alliance Standards Part 13 Section 13.3 Fire Drills
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:	No certificate for training on fire fighting, first aid and rescue is available.
Source of Findings:	Document Review: Relevant document was not found.
Suggested Plan of Action:	Train and certify at least 274 numbers of workers (which is 25 percent of total occupant load of the factory) in fire fighting, first aid and rescue by the proper authority.
Suggested Deadline Date:	09 Dec 2014
Standard:	Alliance Standard Part 13 Human Element Programs
Question:	A written housekeeping policy is established and enforced.
Priority Level:	Low
Non-Compliance Level:	
Description:	A written housekeeping policy is established and enforced, which is required as per Alliance Standards Part 13 Section 13.6.
Source of Findings:	Document Review: Documents regarding housekeeping policy have been found among the documents shown by factory personnel.
Suggested Plan of Action:	





Suggested Deadline Date:		
Standard:	Alliance Standards Part 13 Section 13.6 Housekeeping	
Question:	A hot-work permit program has been established.	
Priority Level:	Low	
Non-Compliance Level:	2	
Description:	A hot-work permit program has not established in factory.	
Source of Findings:	Document Review: No document regarding hot-work permit was found.	
Suggested Plan of Action:	Develop a hot-work permit program in accordance with NFPA 51B requirements.	
Suggested Deadline Date:	09 Dec 2014	
Standard:	Alliance Standards Part 13 Section 13.4 Hot Work Permit and NFPA 51B	
Question:	Storage areas underneath the cutting tables are clear of combustibles.	
Priority Level:	Medium	
Non-Compliance Level:		
Description:	Storage areas underneath the cutting tables are clear of combustibles.	
Source of Findings:	Photograph: No storage was found underneath the cutting table.	
Suggested Plan of Action:		
Suggested Deadline Date:		
Standard:	Alliance Standard Part 17 Section 13.7.2 Cutting tables.	
Question:	Training programs are implemented and documented in accordance with the Alliance Safety Training Curriculum.	
Priority Level:	Medium	
Non-Compliance Level:	2	
Description:	No record of training program was available in accordance with the Alliance Safety Training Curriculum on fire safety.	
Source of Findings:	Document Review: No record of training program was available on fire safety.	
Suggested Plan of Action:	Implement training program with proper documentation in accordance with the Alliance Safety Training Curriculum on fire safety.	



Suggested Deadline Date:	22 Jul 2014	
Standard:	Alliance Standards Part 13	
Question:	Smoking is only allowed at designated areas.	
Priority Level:	Low	
Non-Compliance Level:		
Description:	Smoking is prohibited as per verbal information of factory personnel and signs posted in Bengali and English at all building entrances.	
Source of Findings:	Visual Assessment: Smoking is prohibited in factory premises.	
Suggested Plan of Action:		
Suggested Deadline Date:		
Standard:	Alliance Standards Part 13 Section 13.5 Smoking	
Question:	Are all applicable permits up to date including Fire License & Boiler License.	
Priority Level:	Low	
Non-Compliance Level:	2	
Description:	Electrician license expired on 17 August, 2008.	
Source of Findings:	Document Review: Electrician license was expired.	
Suggested Plan of Action:	Apply to Biddyt Paridaptor for Electrician license.	
Suggested Deadline Date:	22 Jul 2014	
Standard:	Alliance Standard Part 13 Human Element Programs	
Question:	Are there additional areas of non-compliance to report?	
Priority Level:	Medium	
Non-Compliance Level:	3	
Description:	Childcare located on the 2nd floor of Rare Fashion Ltd main building does not have direct access to the exit. This violates the Alliance Standard.	
Source of Findings:	Photograph: Childcare is located on 2nd floor.	
Suggested Plan of Action:	Daycare occupancies that are accessory to other occupancies shall be located on the ground floor with a maximum travel distance of 9 m (30 ft). If located on	



Factory Name: **WALTZ FASHIONS LTD**
Address: **Badshamia School RD, Khalikur, National University Gazipur Gazipur Dhaka Bangladesh**

Assessor: **Bureau Veritas**

Date: **05 May 2014**



ALLIANCE
FOR BANGLADESH WORKER SAFETY

	a higher floor, direct access to an exit enclosure shall be provided as per the Alliance Standard.
Suggested Deadline Date:	30 Sep 2014
Standard:	Not Applicable