INITIAL FIRE ASSESSMENT REPORT (FAR)

Factory Name:	**Rose Sweaters Ltd (Unit 2)**
Address:	**Vogra, By-pass Bishaw Road, Joydebpur, Gazipur Joydebpur, Gazipur Dhaka Bangladesh**
Assessor:	**Bureau Veritas**
Date:	**23 Apr 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:	Rose Sweaters Ltd (Unit 2)
Address:	Vogra, By-pass Bishaw Road, Joydebpur, Gazipur Joydebpur, Gazipur Dhaka Bangladesh
Country:	Bangladesh
Province:	Dhaka
City:	Joydebpur, Gazipur
Zip Code:	1704
Audit Duration:	1 Days
Re-Audit:	Re-Audit After 0 Months
Draft Report Date:	05-15-2014
Final Report Date:	06-28-2014
Are all Action Items From Previous Assessment Completed?:	N/A
Buildings in Complex:	There are 5 buildings in the factory premises out of which one is main production building and four are ancillary buildings. The buildings are named as: 1) Eight story RCC building-1 with basement (Main building), 2) Two story RCC building-2, 3) Single story store room (Tin shed), 4) Single story security rest house (Tin shed), 5) Single story generator room (Tin shed).
Is the building(s) owned or rented by the Factory:	Owned
Number of Building Levels (Stories):	Information provided below as per following format: Highest occupied floor level [Height up to roof], Stories above grade, Stories below grade, Occupied level. 1) Eight story RCC building-1 with basement (Main building): 21.96 m or 72.03 ft [25.01 m or 82.03 ft], 8, 1, 9. 2) Two story RCC building-2: 3.35 m or 11 ft [6.71 m or 22 ft], 2, 0, 2. 3) Single story store room (Tin shed): 50 cm or 1.65 ft above grade [3.66 m or 12 ft], 1, 0, 1. 4) Single story security rest house (Tin shed): 50 cm or 1.65 ft above grade [3.05 m or 10 ft], 1, 0, 1. 5) Single story generator room (Tin shed): 50 cm or 1.65 ft above grade [3.05 m or 10 ft], 1, 0, 1.
Approximate Building Area (SF):	Total area of all buildings in the factory premises: 154633.29 sft. Building wise breakdown as follows: 1) Eight story RCC building-1 with basement (Main building): 144224.29 sft (Basement: 14645.76 sft, Ground Floor: 18377.93 sft, 1st floor: 19262.10 sft, 2nd floor: 19262.10 sft, 3rd floor: 19262.10 sft, 4th floor: 19262.10 sft, 5th floor: 19262.10 sft, 6th floor: 10000.00 sft, 7th Floor: 4890.10 sft), 2) Two story RCC building-2: 5414 sft (Ground floor: 2707 sft, 1st floor: 2707 sft), 3) Single story store room (Tin shed): 1665 sft, 4) Single story security rest house (Tin shed): 1665 sft, 5) Single story generator room (Tin shed): 1665 sft.
Date of Building Construction:	Factory personnel informed the date of construction as follows: 1) Eight story RCC building-1 with basement (Main building): Finished in May-2008, 2) Two story RCC building-2: Finished in May-2008, 3) Single story

	store room (Tin shed): Finished in 2011, 4) Single story security rest house (Tin shed): Finished in 2011, 5) Single story generator room (Tin shed): Finished in 2008.
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 building-2, 2) Single story store room (Tin shed), 3) Single story security rest house (Tin shed), 4) Single story generator room (Tin shed).
Approximate Ancillary Structures Area (SF):	1) Two story RCC building-2: 5414 sft (Ground floor: 2707 sft, 1st floor: 2707 sft), 2) Single story store room (Tin shed): 1665 sft, 3) Single story security rest house (Tin shed): 1665 sft, 4) Single story generator room (Tin shed): 1665 sft.
Number of Occupants:	Total number of occupants: 1921. 1) Eight story RCC building-1 with basement (Main building): 1722 (Basement: 65, Ground Floor: 210, 1st floor: 250, 2nd floor: 270, 3rd floor: 280, 4th floor: 280, 5th floor: 280, 6th floor: 85 (Dining capacity 500), 7th Floor: 02), 2) Two story RCC building-2: 185 (Ground floor: 110, 1st floor: 75), 3) Single story store room (Tin shed): 2, 4) Single story security rest house (Tin shed): 5, 5) Single story generator room (Tin shed): 7.
Number of Ancillary Levels (Stories):	1) Two story RCC building-2: Building height (Highest occupied floor level): 3.35 m or 11 ft [Height up to roof: 6.71 m or 22 ft], Stories above grade: 2, Stories below grade: 0, Occupied levels: 2, 2) Single story store room (Tin shed): Building height (Highest occupied floor level): 50 cm or 1.65 ft above grade [Height up to roof: 3.66 m or 12 ft], Stories above grade: 1, Stories below grade: 0, Occupied levels: 1, 3) Single story security rest house (Tin shed): Building height (Highest occupied floor level): 50 cm or 1.65 ft above grade [Height up to roof: 3.05 m or 10 ft], Stories above grade: 1, Stories below grade: 0, Occupied levels: 1, 4) Single story generator room (Tin shed): Building height (Highest occupied floor level): 50 cm or 1.65 ft above grade [Height up to roof: 3.05 m or 10 ft], Stories above grade: 1, Stories below grade: 0, Occupied levels: 1.
Occupancy Type:	1) Eight story RCC building-1 with basement (Main building): [Basement: H2 (Yarn store), H2 (General store), Ground Floor: G2 (Knitting), B2 (Child care), D2 (Medical room), J2 (Water based chemical store), K (Generator), K (Boiler), 1st floor: G2 (Sewing), G2 (Dyeing), F1 (Office), H2 (Accessories store), J2 (Water based chemical store), 2nd Floor: G2 (Knitting), G2 (Sampling), G2 (Trimming), G2 (Mending), F1 (Office), E4 (Dinning), J1 (Cooking), 3rd floor: G2 (Sewing), G2 (Sampling), 4th floor: G2 (Linking), G2 (Knitting), G2 (Trimming), E4 (Prayer room), H2 (Yarn store), H2 (Finished goods store), 5th floor: G2 (Sewing), H2 (Fabric store), H2 (Metal detection), 6th floor: G2 (Sewing) ,E4 (Prayer room) ,E4 (Dining room), 7th floor: A3 (Staff rest house), E4 (Dining room)], 2) Two story RCC building-2: [Ground floor: H2 (Wastage room), K (Generator), K (Compressor), 1st floor: G2 (knitting), H2 (Yarn store)],
Construction Type:	1) Eight story RCC building-1 with basement (Main building): Type 1, 2) Two story RCC building-2: Type 1, 3) Single story store room (Tin shed): Non-rated, 4) Single story security rest house (Tin shed): Non-rated, 5) Single story generator room (Tin shed): Non-rated.
Height of Highest Occupied Floor Level Above Grade:	1) Eight story RCC building-1 with basement (Main building): 21.96 m or 72.03 ft, 2) Two story RCC building-2: 3.35 m or 11 ft, 3) Single story store room (Tin shed): 50 cm or 1.65 ft above grade, 4) Single story security rest house (Tin shed): 50 cm or 1.65 ft above grade, 5) Single story generator room (Tin shed): 50 cm or 1.65 ft above grade.

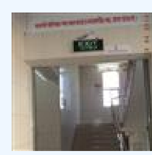
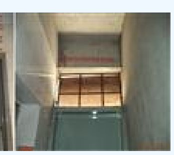
ASSESSMENT FINDINGS

Fire Protection Construction

Question:	Are openings and penetrations through rated walls and/or assemblies protected?
Priority Level:	High
Non-Compliance Level:	3
Description:	In Main Building; Doors and windows in rated walls or assemblies are not fire rated as per Alliance Standard. The exit doors of stair enclosures and doors in rated separation barriers are not fire rated. Also, there is a penetration on a rated wall on the 2nd floor which is not fire rated as per Alliance Standard.
Source of Findings:	Photograph: Openings and penetrations in rated walls are not protected at Main Building.
Suggested Plan of Action:	Provide fire-resistive rated opening and penetration protection for rated walls and assemblies at the abovementioned locations. Consult a qualified fire protection engineer to design the required opening protectives or penetration systems.
Suggested Deadline Date:	06 Sep 2014
Standard:	Includes doors, windows, ducts, piping, etc. Reference Alliance Standards Part 4 Section 4.6 Opening Protectives and Section 4.7 Penetrations




Question:	Are exit enclosures provided with fire-resistive rated construction barriers?
Priority Level:	High
Non-Compliance Level:	3
Description:	There are 3 stairs in the main building. Not all of the stairs are provided with fire-resistant construction barriers, as there are doors and other openings adjacent to the production floor which are not rated accordingly. The wall thickness is approximately 5.75 inches after finishing, which has an approximate 2 hour rating.
Source of Findings:	Photograph: Doors and openings of exit enclosure are not protected.
Suggested Plan of	Provide 1.5 hr rated doors for the stair enclosures with fire-resistive rated

Action:	construction barriers at exit enclosures. Consult a qualified fire protection engineer to design the required rated construction barriers and opening protectives.	
Suggested Deadline Date:	06 Dec 2014	
Standard:	Reference Alliance Standards Part 4 Section 4.5 Separation	
Question:	Are shafts provided with the minimum fire-resistance rating?	
Priority Level:	High	
Non-Compliance Level:	2	
Description:	The elevator shaft is open to the production floor and no evidence was found that proves the door of elevator shaft has 1.5 hour rating as per Alliance Standard.	
Source of Findings:	Photograph: The lift is open to the production floor.	
Suggested Plan of Action:	Provide protected opening of 1.5 hour rating for the shaft enclosure.	
Suggested Deadline Date:	06 Sep 2014	
Standard:	Reference Alliance Standards Part 4 Section 4.5.7.1 through 4.5.7.3	
Question:	Are separations between hazards provided with fire-resistive rated construction barriers.	
Priority Level:	Medium	
Non-Compliance Level:	3	
Description:	In Main Building; there is a spot removing room on 3rd floor separated by non-rated glass and aluminum partitions from knitting section. At the ground floor, the generator & boiler room are not fire protected which are adjacent to production area and the distance from production area is less than 10 ft. Combustible material stores at different floors are not separated from the surrounding occupancy with a minimum 1 hour construction throughout the building.	
Source of Findings:	Photograph: Non-rated separations of generator, boiler, and spot removing rooms with knitting and knitting distribution areas.	
Suggested Plan of Action:	Spot removing room must be 1 hour fire separated with 45 minute fire-resistant doors. Provide fire-resistant rated construction barriers between hazard types in accordance with Alliance Standards throughout the building. Consult with a qualified fire protection engineer to design the required rated construction barrier in accordance with Alliance Standards.	
Suggested Deadline Date:	29 Nov 2014	

Standard:	Reference Alliance Standards Part 4 Section 4.5 Separation	
Question:	Fire dampers installed on air-conditioning and ventilation ducts appear to be in good condition and operational.	
Priority Level:	Medium	
Non-Compliance Level:	2	
Description:	Air-conditioning and ventilation ducts are available. Fire dampers are not installed on air-conditioning ducts on 4th floor of Main Building.	
Source of Findings:	Photograph: Ventilation ducts are available.	
Suggested Plan of Action:	Install fire dampers in air-conditioning ducts as per Alliance Standard.	
Suggested Deadline Date:	29 Nov 2014	
Standard:	Reference Alliance Standards Part 4 Section 4.6 Opening Protectives and Section 4.7 Penetrations	
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: The factory does not have an occupancy certificate from LGED of Gazipur Sadar for any of its structures.	
Suggested Plan of Action:	Apply to LGED of Gazipur Sadar for issuance of occupancy certificate and pursue the matter to expedite.	
Suggested Deadline Date:	26 Jul 2014	
Standard:	Are certificates of occupancy provided for each building or ancillary structure?	
Fire Protection Systems		
Question:	Does the building have a Standpipe System?	
Priority Level:	High	
Non-Compliance Level:	2	
Description:	The building is required to be protected by a standpipe system, as the main building's highest occupied floor level is 21.96m (72.03 ft). However, there are only class II hose stations available in the main building.	
Source of Findings:	Photograph: The pressure and type of hose pipe was observed., Visual Assessment: There is a class II standpipe system installed in the main and	

	ancillary buildings.	
Suggested Plan of Action:	Install Class-III standpipe system at required locations designed by a qualified fire protection engineer. The system must be compliant with the requirements of NFPA 14. The hydraulic calculations must be reviewed by the Alliance.	
Suggested Deadline Date:	06 Sep 2014	
Standard:	Does the building have a standpipe system installed where required. Alliance Standard Part 5 Section 5.4.2	
Question:	Does the building have a fire pump?	
Priority Level:	High	
Non-Compliance Level:	2	
Description:	Fire pump set is available with backup power. However, it does not comply with the requirements of Alliance Standards and NFPA 20. Hydraulic calculation for required standpipe systems is also not available. Therefore, required capacity of fire pump is not known. Additionally, a detailed design of pump components and layout as per NFPA 20 were not found.	
Source of Findings:	Photograph: A fire pump set is available, but it does not meet the requirement.	
Suggested Plan of Action:	Bring current fire pump up to standard or install a new fire pump in accordance NFPA 20.	
Suggested Deadline Date:	31 Aug 2014	
Standard:	Alliance Standard Part 5 Fire Protection Systems	
Question:	Are fire department connections provided and clearly identified for the Fire Protection Systems?	
Priority Level:	Medium	
Non-Compliance Level:	2	
Description:	No fire department connections are provided in the factory premises.	
Source of Findings:	Visual Assessment: There are no fire department connections available in the buildings.	
Suggested Plan of Action:	According to Alliance Standard Part-5 Section-5.5.4, fire department (Siamese) inlet connections shall be provided to allow fire department pumper equipment to supplement the fire protection systems. Fire department outlet connections shall be provided to allow fire department pumper vehicles to draw water from ground-level or underground water storage tanks. Connections shall match the Fire Service and Civil Defense hose thread standard.	
Suggested Deadline Date:	29 Nov 2014	

Standard:	Alliance Standard Part 5 Section 5.5.4 Fire Department Connections	
Question:	Fire extinguishers are inspected, tested, and maintained as required.	
Priority Level:	Medium	
Non-Compliance Level:	2	
Description:	Fire extinguishers are not inspected, tested and maintained as per NFPA 10 requirements. However, records of monthly inspection of the extinguishers were found.	
Source of Findings:	Photograph: Fire extinguishers are inspected and maintained every month.	
Suggested Plan of Action:	Inspect, test and maintain fire extinguishers in accordance with NFPA 10.	
Suggested Deadline Date:	29 Nov 2014	
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:	2	
Description:	The fire alarm and detection system is monitored centrally by a control panel at ground floor of the main building, but it is not connected to the Fire Service and Civil Defense.	
Source of Findings:	Photograph: Addressable fire alarm control panel was found.	
Suggested Plan of Action:	Arrange for a direct connection of the fire alarm and detection system to a central station monitoring service or the Fire Service and Civil Defense as per Alliance Standards. Until a central station monitoring service or direct connection to the Fire Service and Civil Defense can be set up, a trained person to contact the Fire Service and Civil Defense in the event of fire alarm activation shall be provided. An annunciator shall be located in a constantly attended location (such as a fire control room) to alert this person.	
Suggested Deadline Date:	14 Aug 2014	
Standard:	Alliance Standard Part 5 Section 5.7.5 Monitoring	
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:	There was no testing and maintenance plan found for the existing system.	
Source of Findings:	Document Review: There was no proper testing and maintenance plan for the present system available.	
Suggested Plan of Action:	Establish an inspection, testing and maintenance program in compliance with NFPA 25 requirements.	
Suggested Deadline Date:	29 Nov 2014	
Standard:	Reference NFPA 25 Chapter 6 Standpipe and Hose Systems Table 6.1.1.2	
Question:	Is signage for the standpipe system installed at required locations and on required components?	
Priority Level:	Low	
Non-Compliance Level:	2	
Description:	Signage for the present system is not available.	
Source of Findings:	Visual Assessment: There was no signage for the currently installed system.	
Suggested Plan of Action:	Provide signage in compliance with NFPA 14 for the standpipe system.	
Suggested Deadline Date:	26 Jul 2014	
Standard:	Reference NFPA 14 Chapter 6	
Question:	Are inspection, maintenance, and testing procedures of the fire pump documented and up to date?	
Priority Level:	Low	
Non-Compliance Level:	2	
Description:	Inspection, maintenance and testing procedures per NFPA 25 for currently installed fire pump are not available.	
Source of Findings:	Document Review: No records of inspection and testing program of the fire pump was found.	
Suggested Plan of Action:	Establish an inspection, testing and maintenance program for the fire pump. Program must comply with NFPA 25 requirements.	
Suggested Deadline Date:	30 Sep 2014	
Standard:	Reference NFPA 25 Chapter 8 Fire Pumps	
Means of Egress		

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:	3	
Description:	On the ground floor, there is an exit access corridor from childcare to the exit which is not protected by a fire rated construction barrier.	
Source of Findings:	Photograph: The exit access corridor on ground floor is not protected.	
Suggested Plan of Action:	Provide fire-resistant rated assemblies at the required exit access corridors designed by a qualified fire protection engineer in accordance with Alliance Standard.	
Suggested Deadline Date:	06 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:	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 are sliding doors and steel leaf doors with locking mechanisms at each egress location. This violates Alliance Standards.	
Source of Findings:	Photograph: Sliding door gates with locking mechanisms.	
Suggested Plan of Action:	Remove all hasps, locks and slide bolts from exit doors in compliance with the Alliance Standard. Doors may be provided with locking hardware from the ingress side provided that a panic bar is installed on any door with an occupant load exceeding 49 persons.	
Suggested Deadline Date:	28 Jun 2014	
Standard:	Alliance Standards Part 6 Section 6.8 Doors and Gates	
Question:	All doors in a means of egress are of the side-hinged swinging type.	
Priority Level:	High	
Non-Compliance Level:	3	
Description:	Only 1 door is a side-hinged type. Others are sliding doors, collapsible doors, steel leaf doors and wooden swinging doors (MD & chairman room to main exit) with locking mechanisms at each egress location.	
Source of Findings:	Photograph: No side-hinged swinging type door is available.	

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. These doors are to open in the direction of egress.	
Suggested Deadline Date:	06 Sep 2014	
Standard:	Alliance Standards Part 6 Section 6.8 Doors and Gates	
Question:	Aisles are provided with the minimum unobstructed clear width of 0.9 m (36 in) based on occupant loads.	  
Priority Level:	High	
Non-Compliance Level:	2	
Description:	Some aisle widths on the 3rd floor are 0.76m, which violates the Alliance Standard.	
Source of Findings:	Photograph: Aisle widths are insufficient.	
Suggested Plan of Action:	Remove existing aisle markings and draw new markings to fulfil the minimum aisles width requirement. Relocate the machines accordingly if necessary.	
Suggested Deadline Date:	06 Sep 2014	
Standard:	Higher occupancy loads will require a greater width to accommodate the increased load. Alliance Standard Part 6 Section 6.5 Egress Width	
Question:	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:	2	
Description:	The aisle widths on the 3rd floor are 0.76m, which violates Alliance Standards. But total width of aisles is sufficient for the occupant load. The total unobstructed width of 7 aisles on the 3rd floor is 5.88m and the occupant load is 280. Total required width of aisles is 1.4m. Total width of 3 stairs in the main building is 4.04m. The maximum number of occupants are on the 3rd floor. Total width requirement for 280 occupants on the 3rd floor is 280X0.008=2.24m. The available stair width satisfies the requirement of Alliance Standards. Total width of 3 exit doors in the main building is 5.03m. The maximum number of occupants are on the 3rd floor. Total width requirement for 280 occupants on 3rd floor is 280X0.004=1.12m. The available exit door width satisfies the requirement of the Alliance Standard.	
Source of Findings:	Visual Assessment: The widths of aisles, exit doors and stairs are measured on a sample basis.	

Suggested Plan of Action:	Remove aisle marking and mark aisles again as per Alliance Standard.	
Suggested Deadline Date:	30 Aug 2014	
Standard:	Alliance Standard Part 6 Section 6.5 Egress Width and BNBC Table 4.3.2	
Question:	Travel distance to reach an exit does not exceed the maximum distance allowed by Occupancy Type.	
Priority Level:	High	
Non-Compliance Level:	2	
Description:	Maximum travel distance for one exit at 4th floor of main building is 49 m.	
Source of Findings:	Visual Assessment: Maximum travel distance found at 4th floor which was 49 m.	
Suggested Plan of Action:	Provide complete automatic fire detection system, portable fire extinguishers, and standpipe system to have the maximum travel distance limit up to 60 m in accordance with Alliance Standard.	
Suggested Deadline Date:	04 May 2015	
Standard:	Alliance Standard Part 6 Section 13 Travel Distance and BNBC Part 4 Section 3.15.1	
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:	2	
Description:	At main building, up to 6th floor there are 3 emergency exits in each floor. At 7th floor (partially occupied) only one exit is there and the occupant load is 2.	
Source of Findings:	Photograph: At 7th floor the number of means of egress is only one.	
Suggested Plan of Action:	Provide an additional exit at 7th floor to meet the requirement of Alliance Standard.	
Suggested Deadline Date:	04 May 2015	
Standard:	Alliance Standard Part 6 Section 6.6 Number of Means of Egress	

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 minimum width of doors is 0.9 m, which is more than the required 0.8m, but 3 doors along the path of egress (i.e. doors leading to staircase) of each floor are not fire rated or do not have a sufficient rating of 1.5 hour as required.	
Source of Findings:	Photograph: Doors along the path of egress are not fire rated.	
Suggested Plan of Action:	Provide 1.5 hr fire protective opening assemblies in 2 hr rated exit enclosures. Exits connecting three or fewer stories shall be enclosed with a minimum 1-hr fire-resistance rating. Exits connecting four or more stories shall be enclosed with a minimum 2-hr fire-resistance rating or in accordance with Alliance Standard.	
Suggested Deadline Date:	06 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:	Every door in a stair enclosure serving more than 5 stories is provided with re-entry unless it meets the requirements of Alliance Standards Part 6 Section 6.8.3.1.	
Priority Level:	Medium	
Non-Compliance Level:	3	
Description:	There are no re-entry doors on the 1st floor and the 6th floor when starting at the top level in the main building in accordance with Alliance Standard.	
Source of Findings:	Visual Assessment: There are no re-entry doors provided in the main building as required.	
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:	06 Sep 2014	
Standard:	Alliance Standards Part 6 Section 6.8 Doors and Gates	

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:	2	
Description:	On the roofs of 5th and 6th floor, there were two open terraces which were occupiable. The height of the parapets of both terraces were measured at 30 in., which is less than the required 42 in.	
Source of Findings:	Photograph: Parapet walls are shorter than the required 30 in. on the main building.	
Suggested Plan of Action:	Provided parapets or guards for all occupied roofs of a minimum height of 1067 mm (42 in.).	
Suggested Deadline Date:	29 Nov 2014	
Standard:	Alliance Standard Part 6 Section 12 Handrails and Guards	
Question:	Occupant loads are posted for every assembly and production floor in a conspicuous space near the main point of egress.	
Priority Level:	Medium	
Non-Compliance Level:	2	
Description:	Occupant loads are not posted in a conspicuous space near the main exits or exit access doorways as per Alliance Standards.	
Source of Findings:	Visual Assessment: Occupant loads were not posted on each floor of the building.	
Suggested Plan of Action:	Post occupant loads for every assembly and production floor in a conspicuous space near the main point of egress as per Alliance Standards.	
Suggested Deadline Date:	12 Jul 2014	
Standard:	Alliance Standards Part 6 Section 6.4.4 Posting of Occupant Load	
Question:	All paths of egress are provided with compliant means of illumination.	
Priority Level:	Medium	
Non-Compliance Level:	2	
Description:	Not all paths of egress are provided with compliant means of illumination. Ordinary CFL bulbs are used to illuminate the means of egress, as well as emergency lights. Illuminated exit signs are not installed per Alliance Standard.	
Source of Findings:	Visual Assessment: Ordinary CFL bulbs are used to illuminate the means of egress, as well as emergency lights and insufficient exit signs.	

Suggested Plan of Action:	Install emergency lighting for all paths of egress in accordance with Alliance Standard. 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:	29 Nov 2014	
Standard:	Alliance Standards Part 6 Section 6.7 Egress Illumination and Part 10 Section 10.12 Illumination of Exit Signs and Means Of Escape	
Question:	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:	A record of verifying emergency power for means of egress illumination was not found as required.	
Source of Findings:	Document Review: No relevant document was found.	
Suggested Plan of Action:	Develop a testing and maintenance program that ensures the operation of all emergency lights are 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 of 90 min once per year.	
Suggested Deadline Date:	12 Jul 2014	
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 not placed along the path of egress.	
Source of Findings:	Photograph: Illuminated exit signs are not placed where exit direction changed.	
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 as per Alliance Standard.	
Suggested Deadline Date:	29 Nov 2014	

Standard:	Alliance Standard Part 6 Section 6.11 Exit Signs	
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 record of testing emergency power for exit signs was found as per Alliance Standard.	
Source of Findings:	Document Review: No testing document 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, ensure these signs are 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:	12 Jul 2014	
Standard:	Alliance Standard Part 10 Section 10.12 Illumination of Exit Signs and Means Of Escape.	
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:	None of the stairs have handrails on both sides in each building of the factory premises.	
Source of Findings:	Photograph: No handrails are available on both sides of stair.	
Suggested Plan of Action:	Install handrails on both sides of the stair in accordance with Alliance Standard.	
Suggested Deadline Date:	29 Nov 2014	
Standard:	Alliance Standard Part 6 Section 6.9 Stairs and 6.12 Handrails and Guards	
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:	There is a ramp in the basement which has a slope of 1:5.72 and there are no	

	handrails on either side.	
Source of Findings:	Photograph: The ramp in the basement has a slope of 1:5.72.	
Suggested Plan of Action:	Reconstruct the ramp with slope 1:12 and provide handrails on both sides of the ramp as per Alliance Standards.	
Suggested Deadline Date:	29 Nov 2014	
Standard:	Alliance Standard Part 6 Section 10 Ramps	
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:	The floor level is posted, but stair designation sign is not mentioned. Floor level is not mentioned in Bengali.	
Source of Findings:	Photograph: No stair designation signage is available.	
Suggested Plan of Action:	Install signage adjacent to each stair door indicating the stair name and the floor level at the noted locations in accordance with Alliance Standard.	
Suggested Deadline Date:	12 Jul 2014	
Standard:	Alliance Standard Part 6 Section 6.9 Stairs	
Fire Safety Programs		
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: A developed evacuation plan was unavailable.	
Suggested Plan of Action:	Develop an emergency evacuation plan which includes all components required by the Alliance Standards and communicate the plan to all employees.	
Suggested Deadline Date:	12 Jul 2014	
Standard:	Alliance Standards Part 13 Section 13.1 Fire Safety Director	

Question:	Training programs are implemented and documented in accordance with the Alliance Safety Training Curriculum.	
Priority Level:	Medium	
Non-Compliance Level:	2	
Description:	No documentation of any training program in accordance with the Alliance Safety Training Curriculum was found.	
Source of Findings:	Document Review: No record of training program on fire safety was available.	
Suggested Plan of Action:	Impart training in accordance with Alliance Safety Training Curriculum and keep records with proper documentation.	
Suggested Deadline Date:	12 Jul 2014	
Standard:	Alliance Standards Part 13	

Question:	Are there additional areas of non-compliance to report?	  
Priority Level:	Medium	
Non-Compliance Level:	2	
Description:	A horizontal passageway located at the 1st floor connecting building 1 and building 2 was not fire rated. Materials in storage are not properly arranged. There is a staff restroom on the 7th floor of the main building and a single story security rest house (tin shed). This is not an approved residence.	
Source of Findings:	Photograph: Unrated passageway and materials in storage.	
Suggested Plan of Action:	The horizontal passageway should be removed. Store materials in proper stacks. Remove all residences from factory premises.	
Suggested Deadline Date:	31 Aug 2014	
Standard:	Not Applicable	

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 documentation was found.	
Suggested Plan of Action:	Complete fire department pre-planning activities with the local Fire Service and Civil Defense in accordance with Alliance Standards.	

Suggested Deadline Date:	12 Jul 2014	
Standard:	Alliance Standards Part 13 Section 13.1 Fire Safety Director	
Question:	A written housekeeping policy is established and enforced.	
Priority Level:	Low	
Non-Compliance Level:	2	
Description:	A written housekeeping policy is not established and enforced.	
Source of Findings:	Document Review: No documentation of written housekeeping policy was 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.	
Suggested Deadline Date:	21 Feb 2015	
Standard:	Alliance Standards Part 13 Section 13.6 Housekeeping	
Question:	A hot-work permit program has been established.	
Priority Level:	Low	
Non-Compliance Level:	1	
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 documentation is available.	
Suggested Plan of Action:	Develop a hot-work permit program as per NFPA 51B requirements.	
Suggested Deadline Date:	29 Nov 2014	
Standard:	Alliance Standards Part 13 Section 13.4 Hot Work Permit and NFPA 51B	