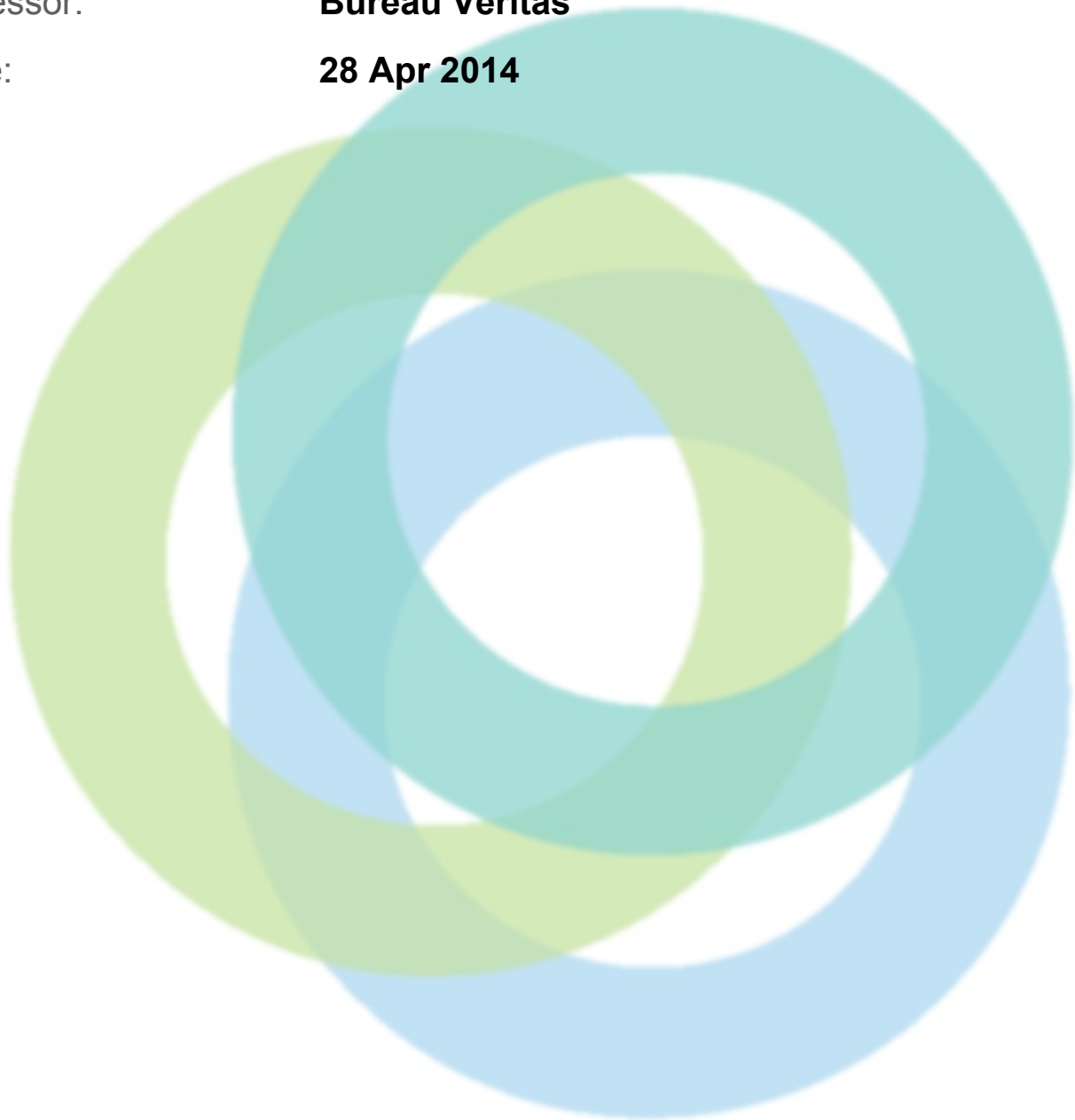


INITIAL FIRE ASSESSMENT REPORT (FAR)

Factory Name: **Talisman, Ltd.**
Address: **Plot 7-10 & 13-16, Extension Area, Dhaka EPZ,
Ganakbari, Savar Ashulia, Savar Dhaka Bangladesh**
Assessor: **Bureau Veritas**
Date: **28 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:	Talisman, Ltd.
Address:	Plot 7-10 & 13-16, Extension Area, Dhaka EPZ, Ganakbari, Savar Ashulia, Savar Dhaka Bangladesh
Country:	Bangladesh
Province:	Dhaka
City:	Ashulia, Savar
Zip Code:	1349
Audit Duration:	1 Days
Re-Audit:	Re-Audit After 0 Months
Draft Report Date:	05-11-2014
Final Report Date:	06-25-2014
Are all Action Items From Previous Assessment Completed?:	N/A
Buildings in Complex:	There are four buildings in the factory premises out of which one is main production building and three are ancillary buildings. The buildings are named as: 1) Three story prefab main production building (Main building including canteen building), 2) Single story wastage store and maintenance shed, 3) Single story security shed, 4) Single story wash processing room and workshop shed.
Is the building(s) owned or rented by the Factory:	Owned
Number of Building Levels (Stories):	1) Three story prefab main production building: Building height (Highest occupied floor level): 6.09 m or 20.00 ft [Height up to roof: 9.14 m or 30 ft], Stories above grade: 3, Stories below grade: 0, Occupied levels: 3, 2) Single story wastage store and maintenance shed: Building height (Highest occupied floor level): At grade [Height up to roof: 3.65 m or 12 ft], Stories above grade: 1, Stories below grade: 0, Occupied levels: 1, 3) Single story security shed: Building height (Highest occupied floor level): At grade [Height up to roof: 3.04 m or 10 ft], Stories above grade: 1, Stories below grade: 0, Occupied levels: 1, 4) Single story wash processing room and workshop shed: Building height (Highest occupied floor level): At grade [Height up to roof: 3.65 m or 12 ft], Stories above grade: 1, Stories below grade: 0, Occupied levels: 1.
Approximate Building Area (SF):	Total area of all buildings in the factory premises: 187648 sft. Building wise breakdown as follows: 1) Three story prefab main production building: 182535 sft, (Ground floor: 106667 sft, 1st floor: 72868 sft, 2nd floor: 3000 sft), 2) Single story wastage store and maintenance shed: 2585 sft, 3) Single story security shed: 200 sft, 4) Single story wash processing room and workshop shed: 2328 sft.
Date of Building Construction:	Factory personnel informed the date of construction as follows: Finished in 2003 (All buildings).




Date of Last Building Renovation/Addition:	Factory personnel informed the date of last building renovation as follows: 1) Three story prefab main production building (Canteen portion): Finished in 2010.
Ancillary Structures in Complex:	1) Single story wastage store and maintenance shed, 2) Single story security shed, 3) Single story wash processing room and workshop shed.
Approximate Ancillary Structures Area (SF):	1) Single story wastage store and maintenance shed: 2585 sft, 2) Single story security shed: 200 sft, 3) Single story wash processing room and workshop shed: 2328 sft.
Number of Occupants:	Total number of occupants: 2950. 1) Three story prefab main production building: 2900 (Ground floor: 2300, 1st floor: 600 2nd floor: 0), 2) Single story wastage store and maintenance shed: 20, 3) Single story security shed: 10, 4) Single story wash processing room and workshop shed: 20.
Number of Ancillary Levels (Stories):	1) Single story wastage store and maintenance shed: Building height (Highest occupied floor level): At grade [Height up to roof: 3.65 m or 12 ft], Stories above grade: 1, Stories below grade: 0, Occupied levels: 1, 2) Single story security shed: Building height (Highest occupied floor level): At grade [Height up to roof: 3.04 m or 10 ft], Stories above grade: 1, Stories below grade: 0, Occupied levels: 1, 3) Single story wash processing room and workshop shed: Building height (Highest occupied floor level): At grade [Height up to roof: 3.65 m or 12 ft], Stories above grade: 1, Stories below grade: 0, Occupied levels: 1.
Occupancy Type:	1) Three story prefab main production building: [Ground floor: G2 (Sewing, iron section, finishing, packing), H2 (fabric ware house, idle machine room), K (Generator room, Boiler room, Transformer room, Compressor room), F1 (Office), J1 (Spot removal room), E3 (Canteen), B2 (Day care), 1st floor: G2 (Cutting, sewing, quality check, iron section, finishing, packing), H2 (Fabric store), F1 (Office), K (ATS room), E3 (Canteen, prayer room), 2nd floor: E3 (Canteen)], 2) Single story wastage store and maintenance shed: H2 (Jute room, wastage ware house), A3 (Driver room), 3) Single story security shed: 4) Single story wash processing room and workshop shed: G2 (Wash process), H1 (Workshop).
Construction Type:	1) Three story prefab main production building: Non-rated, 2) Single story wastage store and maintenance shed: Non-rated, 3) Single story security shed: Non-rated, 4) Single story wash processing room and workshop shed: Non-rated.
Height of Highest Occupied Floor Level Above Grade:	1) Three story prefab main production building: 6.09 m or 20.0 ft, 2) Single story wastage store and maintenance shed: At grade, 3) Single story security shed: At grade, 4) Single story wash processing room and workshop shed: At 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:	Doors & windows of generator room, Boiler room (at ground floor), Pump room, ATS room (at 1st floor) are not protected.	
Source of Findings:	Photograph: Wall at generator room on ground floor has openings with MS grill.	
Suggested Plan of Action:	Install fire rated doors and windows or fill in unprotected openings with fire resistive rated assemblies.	
Suggested Deadline Date:	03 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:	3	
Description:	Slab thickness of the (3 storied building) is 4 inch only. Day care room is in ground floor and production area in 1st floor, therefore 3 hr fire separation is required according to Alliance Standard Part 4 Section 4.5 and BNBC Table 3.2.1 (pg-10352). The elevator (Food Lift) of canteen portion is open to production floor and no vertical separation.	
Source of Findings:	Visual Assessment: As per visual inspection Slab thickness of the (2 storied PEB shed building) is 4 inch.	
Suggested Plan of Action:	Provide fire-resistive rated construction barriers between floors in accordance with Alliance standard, Part-4, Section-4.4.1 and BNBC, Part-4, Table-4.1.1. Consult a qualified fire protection engineer to design the rated construction barriers.	
Suggested Deadline Date:	03 Sep 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:	All internal stairs are open to the floor and don't have rated exit enclosures. Among those internal staircases located only in canteen side has two exit enclosures which are not fire rated. The walls of the exit enclosure are not 1 hr fire rated as required by clause 6.3.1.2.1 of Alliance Standard. The doors on these stairs need to be 1.0 hour rated as per clause 4.6 (4) of Alliance Standard. It may be also mentioned that as per occupant load minimum required number of exits on ground floor is 4 and required number of stairs is 3 on first floor.
Source of Findings:	Photograph: Exit enclosure is not fire rated.
Suggested Plan of Action:	All doors on these stairs needs to be 1.0 hour rated. Provide fire-resistive rated construction barriers at exit enclosures in accordance with Alliance Standards Part 4 Section 4.5. Consult a qualified fire protection engineer to design the required rated construction barriers.
Suggested Deadline Date:	03 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:	2
Description:	The elevator(Lift for food) of canteen portion is open, the openings of shaft is not fire rated as required in accordance with Alliance Standards Part 4 Section 4.5.7.
Source of Findings:	Photograph: Shaft is open with in the production floor.
Suggested Plan of Action:	Provide a shaft enclosure of required rating by increasing the thickness of the enclosure.
Suggested Deadline Date:	03 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:	Occupancy separations are not fire rated and the opening protective are not fire rated as well. Office and prayer room on 1st floor are not separated by fire-





	resistive rated construction barriers. Dining and Production floor on 1st floor are not separated by fire-resistive rated construction barriers.(Door is not rated) Boiler Room,Generator room and Production area on ground floor are not separated by fire-resistive rated construction barriers (fire doors not used at exits).	
Source of Findings:	Visual Assessment: Visual assessment found that occupancy separations are not fire rated and the opening protective are not fire rated as well.	
Suggested Plan of Action:	Provide fire-resistive rated construction barriers between hazard types following Table 4.4.1 of Alliance Standard or Table 4.1.1 from BNBC Part 4. Consult a qualified fire protection engineer to design the required rated construction barrier.	
Suggested Deadline Date:	26 Nov 2014	
Standard:	Reference Alliance Standards Part 4 Section 4.5 Separation	
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:	1	
Description:	The atrium is not fire separated from the adjacent space by 1 hr fire barrier. Automatic sprinkler system also not installed. This violates the requirements of Alliance Standards Section 3.7.	
Source of Findings:	Visual Assessment: The atrium is not fire separated.	
Suggested Plan of Action:	Provide 1 hr fire barrier to separate the atrium from the adjacent space. Otherwise, use glass walls and inoperable windows and follow the requirements of Alliance Standard 3.7.4.	
Suggested Deadline Date:	26 Nov 2014	
Standard:	Reference Alliance Standards Section 3.7 Atrium	
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 available for any building in the factory premises.	
Source of Findings:	Document Review: Document review shows that the factory does not have a occupancy certificate from BEPZA(DEPZ) for any of its structures.	
Suggested Plan of Action:	Apply to BEPZA(DEPZ) for issuance of occupancy certificate and pursue the matter to expedite.	
Suggested Deadline	22 Jul 2014	



Date:	
Standard:	Are certificates of occupancy provided for each building or ancillary structure?

Fire Protection Systems

Question:	Are notification and initiation devices for the fire alarm system installed at required locations based on occupancy type?
Priority Level:	High
Non-Compliance Level:	1
Description:	Centralized call point and alarm system are available. In 3 story canteen building, only 2 number automatic smoke detectors installed over an area 3000 sft on each floor which does not comply with the minimum requirements as per standard.
Source of Findings:	Visual Assessment: Centralized call point and alarm system available.
Suggested Plan of Action:	Install fire alarm system as per NFPA 72. Include listed pull stations at all entrances to exits. Install strobes and horns for complete notification. Automatic area smoke detectors are required throughout G2 buildings per Section 5.7.3.6.
Suggested Deadline Date:	02 Sep 2014
Standard:	Pull stations at egress points, smoke detectors in air handling equipment, visual and audible devices spaced appropriately based on occupancy type. Reference NFPA 72



Question:	Is the fire alarm and detection system monitored by a central station monitoring service or directly connected to the Fire Service and Civil Defense?
Priority Level:	Medium
Non-Compliance Level:	2
Description:	Automatic fire alarm and detection system is available in the factory. But currently there is no monitoring company in Bangladesh. Fire service and civil defence is not also capable of monitoring fire alarm and detection systems of the factories.
Source of Findings:	Visual Assessment: Fire alarm and detection system are not monitored by a central station monitoring service or directly connected to the Fire Service and Civil Defence.
Suggested Plan of Action:	Arrange for direct connection of the fire alarm system to a central monitoring station or Fire Service and Civil Defence as per Alliance Standard Part 5 Section 5.7.5 Monitoring. Until that time that monitoring can be set up, arrange



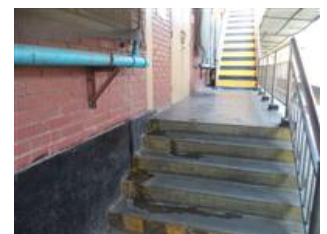


	a monitoring system using own central detection system and personnel. A person shall be assigned to contact the fire department in the event of fire alarm activation. An annunciator shall be located in a constantly attended location (such as a fire control room) to alert this person.
Suggested Deadline Date:	09 Jul 2014
Standard:	Alliance Standard Part 5 Section 5.7.5 Monitoring
Question:	Fire extinguishers are inspected, tested, and maintained as required.
Priority Level:	Medium
Non-Compliance Level:	1
Description:	Extinguishers are inspected monthly by factory's concerned people. But no document was found in support of i) annual maintenance of extinguishers by a servicing agent and ii) annual testing of nozzle of CO2 extinguisher. These are required as per NFPA 10.
Source of Findings:	Document Review: No document found that fire extinguisher maintained in accordance with NFPA 10 Chapter 7 as demanded in Alliance Standard Part 13 Section 13.10.3., Photograph: Fire extinguishers are inspected, tested and maintained every month but not in accordance with NFPA 10 Chapter 7 as demanded in Alliance Standard Part 13 Section 13.10.3.
Suggested Plan of Action:	Fire extinguishers are to be inspected, tested, and maintained in accordance with NFPA 10 Chapter 7 as demanded in Alliance Standard Part 13 Section 13.10.3.
Suggested Deadline Date:	12 Nov 2014
Standard:	NFPA 10 Chapter 7



Means of Egress

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:	On ground floor level, there are 11 exits and 10 stairs. Out of these 10 stairs, 4 lead the exit discharges to production area and storage. This is violation of Alliance Standard Part 6 Section 6.17.
Source of Findings:	Visual Assessment: 4 lead the exit discharges reenter the production floor and storage.
Suggested Plan of Action:	Provide 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:	03 Sep 2014	
Standard:	Alliance Standard Part 6 Section 6.17 Exit Discharge. See Section 16.7.2 and 16.7.3 for exceptions.	
Question:	Doors are not locked in the direction of egress under any conditions. All hasps, locks, slide bolts, and other locking devices have been removed where required.	
Priority Level:	High	
Non-Compliance Level:	3	
Description:	Doors are found locked in the direction of egress. This violates Alliance Standard Part 6 Section 6.8.2.	
Source of Findings:	Visual Assessment: There are steel leaf doors with locking arrangement at fabric stores of GF and hatch system steel doors are found in chemical store and in washing section.	
Suggested Plan of Action:	Remove all hasps, locks, slide bolts, or other locking devices in the direction of egress.	
Suggested Deadline Date:	25 Jun 2014	
Standard:	Alliance Standards Part 6 Section 6.8 Doors and Gates	
Question:	Doors along the path of egress have a minimum width of 0.8 m (32 in) and have required ratings.	
Priority Level:	High	
Non-Compliance Level:	3	
Description:	Door widths are more than 0.8m but doors are not fire rated violates Alliance standard section 6.3.1.2.1 and 4.6.	
Source of Findings:	Photograph: Door widths are more than 0.8m but doors are not fire rated.	
Suggested Plan of Action:	Install 1 hr fire protective opening assemblies in 1 hr rated exit enclosure respectively at required locations based on occupancy. Install approved fire rated doors that are listed, permanently labeled, automatic-closing, in compatible fire rated frames with latching hardware.	
Suggested Deadline Date:	03 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:	3
Description:	There are steel leaf doors in fabric stores and collapsible door in one exit, other then that all doors are side-hinged swinging type which are not fire rated. This violates Alliance Standard Part 6 Section 6.8.1. It may be mentioned that as per occupant load required number of exits on ground floor is 6 and required number of stairs is 4 on first floor.
Source of Findings:	Visual Assessment: There are steel leaf doors in fabric stores and collapsible door in one exit, other then that all doors are side-hinged swinging type.
Suggested Plan of Action:	Replace all collapsible, sliding, roll-down gates and shutters in means of egresses with side-hinged swinging type doors of proper width and rating.
Suggested Deadline Date:	03 Sep 2014
Standard:	Alliance Standards Part 6 Section 6.8 Doors and Gates
Question:	Exterior exit stairs are separated from the building with the required rating. The rating of the exterior wall shall extend 3.05 m (10 ft) beyond the ends of the stair structure.
Priority Level:	High
Non-Compliance Level:	3
Description:	The external steel stair of this building is not having a fire separation from the building beyond 10 feet of its span as required as per clause 6.3.1.3.
Source of Findings:	Visual Assessment: The external steel stair of this building is not having a fire separation from the building beyond 10 feet of its span.
Suggested Plan of Action:	Provide a fire-resistive rated assembly between the exterior exit stairs and the building up to 10 ft beyond the end of the stair to achieve the required separation. Install fire rated doors at openings to exterior stair. The rated assembly should be approved and/or designed by a qualified fire protection engineer
Suggested Deadline Date:	03 Sep 2014
Standard:	Alliance Standard Part 6 Section 6.3.1.2. Three stories or less 1-hr rating. Four stories of more 2-hr rating






Question:	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:	Four interior exit stairways lead the discharge re-enters into production area on ground floor instead of terminating at exit discharge or public way as per clause 6.15.4.
Source of Findings:	Visual Assessment: The exit passageway re-enters production area instead of terminating at exit discharge or public way.
Suggested Plan of Action:	Divert the exit passageway to the exit discharge or continue the rated passageway through production area up to discharge. as per clause 4.6.
Suggested Deadline Date:	03 Sep 2014
Standard:	Alliance Standard Part 6 Section 6.14 Exit Enclosures
Question:	Occupant loads on each level (floor) do not exceed the capacity of the available means of egress.
Priority Level:	High
Non-Compliance Level:	1
Description:	At ground floor of main building, highest occupant load is 2300 people working at the time of audit and the floor area is 9910 m ² , so space per occupant is 4.30 m ² , which is more than required 2.3 m ² (25 sft) according to Alliance Standard Part 6 Section 6.4.2.1. In ground floor occupant load is 2300 and total width of aisles and exit doors are 31.93 m and 15.85 m respectively whereas required total widths for these means of egress are 11.5 m, 9.2 m respectively. In 1st floor occupant load is 600 and total width of aisles, exit doors and stairs are 35.7 m, 13.41 m and 12.64 m respectively whereas required total widths for these means of egress are 3 m, 2.4 m and 4.8 m respectively. In 2nd floor there is no occupant load always working (as it is used as canteen), but canteen capacity is 550 during lunch period (who come from ground & 1st floor), there may be possibility of fire during that time and total width of aisles, exit doors and stairs are 1.22 m, 3.66 m and 2.24 m respectively whereas required total widths for these means of egress are 2.75 m, 2.2 m and 4.4 m respectively. So occupant loads on each level (floor) do not exceed the capacity of the available means of egress except 2nd floor.
Source of Findings:	Visual Assessment: Number of occupants was counted during site tour. Widths of exit doors, aisles and stairs of the concerned floor were measured.
Suggested Plan of Action:	Immediately reduce the dining capacity to 243 on 2nd floor to satisfy the available means of egress capacity. Or, provide additional aisles and stairs to meet the requirement. Otherwise, provide sprinkler system along with shortage means of egress (aisles and stairs) to satisfy the requirements as per Alliance Standard-6.5.4.1 (BNBC- Table 4.3.2)
Suggested Deadline Date:	24 Jun 2014





Standard:	Alliance Standard Part 6 Section 6.4 Occupant Load
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:	1
Description:	The path of egress along the means of egress is not reduced at any point along the path of travel. In ground floor occupant load is 2300 and total width of aisles and exit doors are 31.93 m and 15.85 m respectively whereas required total widths for these means of egress are 11.5 m, 9.2 m respectively satisfy the requirement. In 1st floor occupant load is 600 and total width of aisles, exit doors and stairs are 35.7 m, 13.41 m and 12.64 m respectively whereas required total widths for these means of egress are 3 m, 2.4 m and 4.8 m respectively satisfy the requirement. In 2nd floor there is no fixed occupant load always working (as it is used as canteen), but canteen capacity is 550 during lunch period (who come from ground & 1st floor), there may be possibility of fire during that time and total width of aisles, exit doors and stairs are 1.22 m, 3.66 m and 2.24 m respectively whereas required total widths for these means of egress are 2.75 m, 2.2 m and 4.4 m respectively which does not satisfy the requirement. Available aisles and stair width does not satisfy the requirement of Alliance Standard Part 6 Section 6.5.4 or BNBC Part 4 Table 4.3.2 in 2nd floor of canteen building only.
Source of Findings:	Visual Assessment: The path of egress is not reduced at any point and the capacity is sufficient except 2nd floor.
Suggested Plan of Action:	Immediately reduce the dining capacity to 243 on 2nd floor to satisfy the available means of egress capacity. Or, provide additional aisles and stairs to meet the requirement. Otherwise, provide sprinkler system along with shortage means of egress (aisles and stairs) to satisfy the requirements as per Alliance Standard-6.5.4.1 (BNBC- Table 4.3.2)
Suggested Deadline Date:	02 Sep 2014
Standard:	Alliance Standard Part 6 Section 6.5 Egress Width and BNBC Table 4.3.2
Question:	Occupant loads are posted for every assembly and production floor in a conspicuous space near the main point of egress.
Priority Level:	Medium
Non-Compliance Level:	3
Description:	Occupant loads are not posted in any assembly and production floor as demanded in Alliance Standard Part 6 Section 6.4.4.
Source of Findings:	Visual Assessment: Occupant loads are not posted in any assembly and production floor as demanded in Alliance Standard Part 6 Section 6.4.4.
Suggested Plan of Action:	Occupant loads must be posted as per Alliance Standards Part 6, Section 6.4.4:

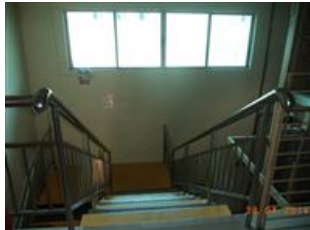


Suggested Deadline Date:	09 Jul 2014	
Standard:	Alliance Standards Part 6 Section 6.4.4 Posting of Occupant Load	
Question:	Handrails are provided on both sides of each stairway. Intermediate handrails are provided when the stair width exceeds 2.2 m (87 in.). Handrails are not mounted lower than 760 mm (30 in.) or higher than 1100 mm (44 in.).	
Priority Level:	Medium	
Non-Compliance Level:	3	
Description:	Out of 10 stair cases, four nos of staircases have handrails in one side which is not allowed as per clause 6.9.2.4. and 6.12.1.2 as these four are also used as the means of egress. However, as per occupant load required number of stair at means of egress on first floor is 4.	
Source of Findings:	Photograph: Out of 10 stair cases, 4 nos of staircase has handrail in one side.	
Suggested Plan of Action:	Provide handrails on both side of each stairway. Provide intermediate handrail when the stair width exceeds 2.2m (87 inch). Provide handrail of height between the range 865 mm (34 in.) and 965 mm (38 in.).	
Suggested Deadline Date:	26 Nov 2014	
Standard:	Alliance Standard Part 6 Section 6.9 Stairs and 6.12 Handrails and Guards	
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:	IPS is found as emergency power but record of verifying emergency power for means of egress illumination was not found as required in accordance with Alliance Standards Part 10 Section 10.12.2.3.	
Source of Findings:	Visual Assessment: IPS is found as emergency power but Record of verifying emergency power for means of egress illumination was not 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 lights shall be tested on a monthly basis. Functional testing of battery powered signs shall be provided for a minimum 90 min once per year	
Suggested Deadline Date:	09 Jul 2014	
Standard:	Alliance Standards Part 10 Section 10.12 Illumination of Exit Signs and Means Of Escape Lighting	



Question:	Emergency power for exit signs is tested at least once per year. If battery operated, these lights are tested on a monthly basis. Functional testing of battery powered signs is provided for a minimum 90 min once per year.	
Priority Level:	Medium	
Non-Compliance Level:	2	
Description:	No record of testing emergency power for exit signs was found as demanded in section 10.12.1.4 of Alliance Standard.	
Source of Findings:	Visual Assessment: No record of testing emergency power for exit signs was found.	
Suggested Plan of Action:	Develop a testing and maintenance program that ensures the emergency power for exit signs is tested at least once per year. If battery operated signs are used, these lights are tested on a monthly basis. Functional testing of battery powered signs is provided for a minimum 90 min once per year	
Suggested Deadline Date:	09 Jul 2014	
Standard:	Alliance Standard Part 10 Section 10.12 Illumination of Exit Signs and Means Of Escape.	
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:	Floor level mentioned but stair name or designation is not mentioned. Floor level is not mentioned in Bangla as well.	
Source of Findings:	Visual Assessment: Floor level mentioned but stair name or designation is not mentioned. Floor level is not mentioned in Bangla as well.	
Suggested Plan of Action:	Install signage adjacent to each stair door indicating the stair name and the floor level at the noted locations.	
Suggested Deadline Date:	09 Jul 2014	
Standard:	Alliance Standard Part 6 Section 6.9 Stairs	
Question:	Exit signs have appropriate illumination levels and contrasting graphics.	
Priority Level:	Low	
Non-Compliance Level:	1	
Description:	Some Exit signs do not have appropriate illumination level and contrasting graphics as demanded in section 10.12.1.2 of Alliance Standard.	



Source of Findings:	Visual Assessment: Some Exit signs do not have appropriate illumination level and contrasting graphics.	
Suggested Plan of Action:	Make sure all required exit signs are illuminated continuously at all times. Exit signs may be illuminated either by lamps external to the sign or by lamps contained within the sign. The source of illumination shall provide not less than 50 lux at the illuminated surface with a contrast of not less than 0.5. Approved self-luminous signs which provide evenly illuminated letters having a minimum luminance of 0.2cd/m2 may also be used.	
Suggested Deadline Date:	14 Nov 2014	
Standard:	Alliance Standard Part 10 Section 10.12.1 Exit Signs	
Question:	Stairs are constructed of noncombustible materials.	
Priority Level:	Low	
Non-Compliance Level:	1	
Description:	All external/internal steel stairs are not noncombustible as required according to section 6.9.2.1 of Alliance Standard	
Source of Findings:	Photograph: Picture: All external/internal steel stairs are not noncombustible.	
Suggested Plan of Action:	Insulate or coat the steel stair to provide required fire resistance. the stair of the 3 storied main building is to be 1 hr fire rated.	
Suggested Deadline Date:	18 Feb 2015	
Standard:	Alliance Standard Part 6 Section 6.9 Stairs	
Fire Safety Programs		
Question:	Fire Department pre-planning has been completed.	
Priority Level:	Low	
Non-Compliance Level:	2	
Description:	Fire Department pre-planning has not been completed yet. However, some documents were found which do not comply with the Alliance Standard.	
Source of Findings:	Document Review: No document regarding fire department pre-planning was found among the documents shown by factory personnel.	
Suggested Plan of Action:	Complete fire department pre-planning activities with the local Fire Service and Civil Defense.	
Suggested Deadline Date:	22 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:	1
Description:	Written housekeeping policy was not found, which is required as per Alliance Standards Part 13 Section 13.6.
Source of Findings:	Document Review: Written housekeeping policy was not found.
Suggested Plan of Action:	Establish written corporate and plant policies on housekeeping to ensure scheduled cleaning for floor, wall, ceiling, supply and return air ventilation systems. Promptly reschedule skipped cleanings. Provide a documented line of authority for authorizing a cleaning delay and rescheduling. As a general rule the maximum tolerable deposit thickness for loose fluffy lint is 13 mm (½ in.) over a maximum of 46.5 m ² (500 ft ²). Limit dense deposits to 6 mm (¼ in.) and oil saturated deposits to 3.2 mm (⅛ in.).
Suggested Deadline Date:	18 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:	Hot work permit program not found, which is required as per Alliance Standards Part 13 Section 13.4.
Source of Findings:	Document Review: Hot work permit program not found.
Suggested Plan of Action:	Develop a hot work permit program. The program must comply with the requirements of NFPA 51B. In general, this program should address process of request and approval authorities, necessary checks prior approval, standby fire watch and fire fighting equipment, sounding of alarm procedure, duration and expiry of permit and re-approval procedure etc.
Suggested Deadline Date:	26 Nov 2014
Standard:	Alliance Standards Part 13 Section 13.4 Hot Work Permit and NFPA 51B