



EQUIVALENT INITIAL FIRE SAFETY ASSESSMENT

Factory Name: **Odyssey Dresses Ltd.**
Address: **Joy Bangla Road Kunia, Barabari, Gazipur Gazipur
Dhaka Bangladesh**
Assessor: **Bureau Veritas**
Date: **12 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:	Odyssey Dresses Ltd.
Address:	Joy Bangla Road Kunia, Barabari, Gazipur Gazipur Dhaka Bangladesh
Country:	Bangladesh
Province:	Dhaka
City:	Gazipur
Zip Code:	1704
Audit Duration:	
Re-Audit:	Re-Audit After 0 Months
Draft Report Date:	05-12-2014
Final Report Date:	06-28-2014
Are all Action Items From Previous Assessment Completed?:	N/A
Buildings in Complex:	There are seven buildings in the factory premises out of which one is main production building and six are ancillary buildings. The buildings are named as: 1) Eight story RCC main production building-1, 2) Two story RCC building-2 (Substation and Generator), 3) Two story medical and childcare shed-1, 4) Single story boiler shed-2, 5) Single story fire pump station shed-3, 6) Single story goods store shed-4, 7) Single story store shed-5.
Is the building(s) owned or rented by the Factory:	Owned
Number of Building Levels (Stories):	1) Eight story RCC main production building-1: Building height (Highest occupied floor level): 21.35 m or 70 ft [Height up to roof: 24.4 m or 80 ft], Stories above grade: 8, Stories below grade: 0, Occupied levels: 8, 2) Two story RCC building-2 (Substation and Generator): Building height (Highest occupied floor level): 3.45 m or 11.5 ft [Height up to roof: 6.10 m or 20 ft], Stories above grade: 2, Stories below grade: 0, Occupied levels: 2, 3) Two story medical and childcare shed-1: Building height (Highest occupied floor level): 3.45 m or 11.5 ft [Height up to roof: 6.1 m or 20 ft], Stories above grade: 2, Stories below grade: 0, Occupied levels: 2, 4) Single story boiler shed-2: Building height (Highest occupied floor level): 30 cm or 1 ft above grade [Height up to roof: 3.1 m or 10 ft], Stories above grade: 1, Stories below grade: 0, Occupied level: 1 and for remaining structures, see the description.
Approximate Building Area (SF):	Total area of buildings in the factory premises: 114644.00 sft. Building wise breakdown as follows: 1) Eight story RCC main production building-1: 106800.00sft (Ground floor: 16000.00 sft, Mezzanine floor: 6400.00 sft, 1st floor: 15660.00 sft, 2nd floor: 15660.00 sft, 3rd floor: 15660.00 sft, 4th floor: 15660.00 sft, 5th floor: 15660.00 sft, 6th floor: 6100.00 sft), 2) Two story RCC building-2 (Substation and Generator): 1800.00sft (Ground Floor: 900.00sft, 1st floor: 900.00 sft), 3) Two story medical and childcare shed-1: 3560.00 sft, 4)



	Single story boiler shed-2: 216.00 sft, 5) Single story fire pump station shed-3: 168.00sft, 6) Single story goods store shed-4: 600.00 sft, 7) Single story store shed-5: 1500.00sft.
Date of Building Construction:	No record for date of construction was found from factory personnel.
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 (Substation and Generator), 2) Two story medical and childcare shed-1, 3) Single story boiler shed-2, 4) Single story fire pump station shed-3, 5) Single story goods store shed-4, 6) Single story store shed-5.
Approximate Ancillary Structures Area (SF):	1) Two story RCC building-2 (Substation and Generator): 1800.00sft (Ground Floor: 900.00sft, 1st floor: 900.00 sft), 2) Two story medical and childcare shed-1: 3560.00 sft, 3) Single story boiler shed-2: 216.00 sft, 4) Single story fire pump station shed-3: 168.00 sft, 5) Single story goods store shed-4: 600.00 sft, 6) Single story store shed-5: 1500.00sft.
Number of Occupants:	Total number of occupants: 2229. 1) Eight story RCC main production building-1: 2174 (Ground floor: 25, 1st floor: 400, Mezzanine Floor: 8, 2nd floor: 335, 3rd floor: 490, 4th floor: 450, 5th floor: 435, 6th floor: 31), 2) Two story RCC building-2 (Substation and Generator): 4, 2) Two story medical and childcare shed-1: 35, 4) Single story boiler shed-2: 1, 5) Single story fire pump station shed-3: 1, 6) Single story goods store shed-4: 2, 7) Single story store shed-5: 2.
Number of Ancillary Levels (Stories):	1) Two story RCC building-2 (Substation and Generator): Building height (Highest occupied floor level): 3.45 m or 11.5 ft [Height up to roof: 6.10 m or 20ft], Stories above grade: 2, Stories below grade: 0, Occupied levels: 2, 2) Two story medical and childcare shed-1: Building height (Highest occupied floor level): 3.45 m or 11.5 ft [Height up to roof: 6.1 m or 20 ft], Stories above grade: 2, Stories below grade: 0, Occupied levels: 2, 3) Single story boiler shed-2: Building height (Highest occupied floor level): 30 cm or 1 ft above grade [Height up to roof: 3.1 m or 10 ft], Stories above grade: 1, Stories below grade: 0, Occupied level: 1, 4) Single story fire pump station shed-3: Building height (Highest occupied floor level): 30 cm or 1 ft above grade [Height up to roof: 3.1 m or 10 ft], Stories above grade: 1, Stories below grade: 0, Occupied level: 1 and for remaining structures, see the description.
Occupancy Type:	1) Eight story RCC main production building-1: [Ground floor: E4 (Dining Room), H2 (ware house, Fabric store, Accessory store, Cartoon store), F1 (Office), Mezzanine floor: H2 (Finished goods store), 1st floor: G2 (Sewing, Cutting, Finishing, Packing), H2 (Miscellaneous store), F1 (Office), K (Mechanic room), 2nd floor: G2 (Sewing, Cutting, Finishing, Packing), H2 (Miscellaneous store, Finished goods store), F1 (Office), 3rd floor: G2 (Sewing, Cutting, Finishing, Packing), H2 (Miscellaneous store, Finished goods store), F1 (Office), K (Mechanic room), 4th floor: G2 (Sewing, Cutting, Finishing, Packing, Spot removing room), H2 (Miscellaneous store, Finished goods store), F1 (Office), 5th floor: G2 (Sewing, Cutting, Finishing, Metal detection), H2 (Accessory store), 6th floor: G2 (Sewing, Cutting), H2 (Miscellaneous store, Finished goods store), F1 (Office)], 2) Two story RCC building-2 (Substation and Generator): K (Substation and generator) and see the description.
Construction Type:	1) Eight story RCC main production building-1: Type 1, 2) Two story RCC building-2 (Substation and Generator): Type 1, 3) Two story medical and childcare shed-1: Non-rated, (Security and detection panel room is 2 storied and Type-1, remaining part is single storied masonry construction with non-rated tally slab), 4) Single story boiler shed-2: Non-rated, 5) Single story fire pump station shed-3: Non-rated, 6) Single story goods store shed-4: Non-rated, 7) Single story store shed-5: Non-rated.
Height of Highest Occupied Floor Level Above Grade:	1) Eight story RCC main production building-1: 21.35 m or 70 ft, 2) Two story RCC building-2 (Substation and Generator): 3.45 m or 11.5 ft, 3) Two story medical and childcare shed-1: 3.45 m or 11.5 ft, 4) Single story boiler shed-2: 30 cm or 1 ft above grade, 5) Single story fire pump station shed-3: 30 cm or 1 ft above grade, 6) Single story goods store shed-4: 30 cm or 1 ft above grade, 7) Single story store shed-5: 30 cm or 1 ft above grade.

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ALLIANCE
FOR BANGLADESH WORKER SAFETY



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:	There are unprotected openings in the west side wall of the ground floor warehouse (H2) where approximately 100 tons of fabrics are stored. There is a building with unprotected openings located within 3 m of west side wall. As per Alliance Standard, 0.75 hr fire resistive opening assemblies are required at that wall. The south wall of the stair has a window with grill and unprotected openings are present on each floor within 10ft of that stair. Such unprotected openings shall have 1.5 hr rating as per the Alliance Standard.
Source of Findings:	Visual Assessment: Some unprotected openings through rated walls were observed during site visit.
Suggested Plan of Action:	Provide fire resistance rated opening protectives at all windows and other openings on all the fire rated wall across the entire premises. Close these openings if they are not required.
Suggested Deadline Date:	18 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 two stairs in the main building. The south wall of the east stair has a window with a grill and unprotected openings are present on each floor within 10ft of that stair. Such unprotected openings shall have 1.5 hr rating as per the Alliance Standard. Moreover, doors fitted at exits do not have any credible certificates.
Source of Findings:	Visual Assessment: Unprotected openings were found within 10 ft of east staircase.
Suggested Plan of Action:	Provide 2 hr fire-resistive rated construction barriers at exit enclosures. Fit side-swinging, self-closing, non-lockable fire doors of 1.5 hr rating in all stairwell enclosures that swing in the direction of egress. Consult a qualified fire protection en
Suggested Deadline	18 Sep 2014





Date:		
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 cores beside the South evacuation stair but no elevator is yet installed. The RCC wall enclosing the lift cores have 2 hr fire rating and the door openings on each floor level are temporarily sealed by brick wall with required fire rating. However, non-rated opening between north- lift core and South evacuation stair were found on each floor level.	
Source of Findings:	Photograph: Non-rated opening between north- lift core and South evacuation stair were found on each floor level.	
Suggested Plan of Action:	Close or seal all those openings available between lift core and evacuation stairs by minimum 2 hr fire rated barrier.	
Suggested Deadline Date:	31 Dec 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:	2	
Description:	There is a spot removing room on 4th floor with glass and aluminum partitions. This room needs to be fire separated with a 1.0 hr rated construction barrier along with 0.75 hr rated opening assemblies. Store (H2) & production area (G2) on 2nd floor are not separated by fire-resistant rated construction barriers. These different occupancies need to be fire separated according to Alliance Standards. Similar problems were found on 3rd and 4th floors.	
Source of Findings:	Visual Assessment: The store and production area not fire separated.	
Suggested Plan of Action:	Provide fire-resistant rated construction barriers between hazard types in accordance with Alliance Standard. Consult a qualified fire protection engineer to design the required rated construction barrier.	
Suggested Deadline Date:	11 Dec 2014	
Standard:	Reference Alliance Standards Part 4 Section 4.5 Separation	
Question:	Certificates of Occupancy for each building have been issued and are on file.	
Priority Level:	Low	





Non-Compliance Level:	1
Description:	No occupancy certificate available for any building in the factory premises.
Source of Findings:	Document Review: There was no occupancy certificate for any of the buildings among the documents shown by the factory concerned people.
Suggested Plan of Action:	Apply to Tongi Pouroshova for issuance of occupancy certificate and pursue the matter to expedite.
Suggested Deadline Date:	07 Aug 2014
Standard:	Are certificates of occupancy provided for each building or ancillary structure?

Fire Protection Systems

Question:	Does the building have a Standpipe System?
Priority Level:	High
Non-Compliance Level:	3
Description:	Height of the highest occupied floor of the main building is 21.35m(70ft) above grade, i.e above 10m (33 ft). An automatic sprinkler system is not provided in the building. A standpipe system (class-III) needs to be installed throughout the building where the highest occupied floor is more than 10 m (33 ft) above grade or more than 10 m (33 ft) below grade as per Alliance Standard, but there is no standpipe system in the main and ancillary buildings that meets NFPA requirement of NFPA. Only a class-II (40mm dia) standpipe system is available on floors, no class-I (65 mm dia) connections are available at stairwells. Moreover, no approved hydraulic design for standpipe system was found.
Source of Findings:	Visual Assessment: Only class-II standpipe system was found.
Suggested Plan of Action:	Install NFPA-14 compliant standpipe system at required locations.
Suggested Deadline Date:	18 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:	3
Description:	A fire pump set is available, however it does not comply with the requirements of Alliance Standards and NFPA requirements. Hydraulic calculation for installed standpipe is also not available. Therefore, required capacity of fire pump is not known. A suction lift is used whereas a suction head is required as per NFPA. Additionally, a detailed design of pump components and layout as






	per NFPA were not available.
Source of Findings:	Visual Assessment: A pump dedicated for fire fighting was found in the factory premises.
Suggested Plan of Action:	Have a qualified engineer review the pump capacity and ensure hydraulic calculation is done which can be supported by this pump in accordance with NFPA 20.. Also, identify all other performance data and ensure conformity to NFPA standards.
Suggested Deadline Date:	23 Aug 2014
Standard:	Alliance Standard Part 5 Fire Protection Systems
Question:	Are notification and initiation devices for the fire alarm system installed at required locations based on occupancy type?
Priority Level:	High
Non-Compliance Level:	1
Description:	No pull station was found at the exit discharge of both stairways. Smoke detectors were found sufficient in numbers.
Source of Findings:	Visual Assessment: Pull stations were not found as required.
Suggested Plan of Action:	Pull stations at egress points, smoke detectors in air handling equipment, visual and audible devices must be spaced appropriately based on occupancy type in accordance with NFPA 72 requirements.
Suggested Deadline Date:	18 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:	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 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 regarding inspection, maintenance and testing procedure of fire extinguisher was found in the documents shown by the factory
Suggested Plan of Action:	Fire extinguishers are to be inspected, tested, and maintained in accordance with requirements of NFPA 10. Prepare and maintain proper documentation of the inspection, testing, and maintenance of the fire extinguishers







	in accordance with NFPA 10.	
Suggested Deadline Date:	11 Dec 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:	An automatic fire alarm and detection system is available in the factory, but currently there is no monitoring company in Bangladesh. Fire service and civil defense is not capable of monitoring fire alarm and detection systems of the factories.	
Source of Findings:	Visual Assessment: Fire alarm and detection system not monitored centrally.	
Suggested Plan of Action:	Arrange for direct connection of the fire alarm system to a central monitoring station or Fire Service and Civil Defense as per Alliance Standard. Until that time that monitoring can be set up, arrange a monitoring system using factory's own central detec	
Suggested Deadline Date:	24 Jul 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:	A NFPA-14 compliant standpipe system is not installed in the building. Inspection, maintenance, and testing procedures of the installed class II standpipe and hose are not documented and up to date.	
Source of Findings:	Document Review: Relevant documents are not compliant with NFPA 25.	
Suggested Plan of Action:	Install a standpipe system at required locations in accordance with NFPA 14, designed by a qualified fire protection engineer and institute an inspection, testing and maintenance program for the system in accordance with NFPA 25.	
Suggested Deadline Date:	11 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:	A NFPA-14 compliant standpipe system is not installed in the building. for the available standpipe system is not installed.	
Source of Findings:	Visual Assessment: No signage for standpipe system was found during site visit.	
Suggested Plan of Action:	Once a NFPA-14 compliant standpipe system is installed at required locations, designed by a qualified fire protection engineer, provide signage in compliance with NFPA 14 for the new system.	
Suggested Deadline Date:	07 Aug 2014	
Standard:	Reference NFPA 14 Chapter 6	
Question:	Are inspection, maintenance, and testing procedures of the fire pump documented and up to date?	
Priority Level:	Low	
Non-Compliance Level:	2	
Description:	Inspection, maintenance, and testing procedures of the fire pump are not documented and up to date.	
Source of Findings:	Document Review: No document regarding inspection, maintenance and testing procedure of fire pump was found in the documents shown by the factory personnel.	
Suggested Plan of Action:	Install a pump dedicated for fire fighting or fire protection following NFPA requirements. Then establish an inspection, maintenance, and testing program for the fire pump in accordance with NFPA 20.	
Suggested Deadline Date:	11 Dec 2014	
Standard:	Reference NFPA 25 Chapter 8 Fire Pumps	
Means of Egress		
Question:	Occupant loads on each level (floor) do not exceed the capacity of the available means of egress.	
Priority Level:	High	
Non-Compliance Level:	3	
Description:	On 3rd floor of Main building, occupant load is 490, which is maximum among all floors. The floor area is 1456 m ² , so space per occupant is 2.97m ² , which is more than required 2.3 m ² (25 sft) according to Alliance Standard Part 6 Section 6.4.2.1. But the total width of 2 stairs in the main building is 3.46m; total width requirement as per for 490 occupants on 3rd floor is	



	490X0.008=3.92m. So available stair width does not satisfy the requirement of Alliance Standard.	
Source of Findings:	Visual Assessment: Widths of aisles, exit doors and stairs are measured on sample basis.	
Suggested Plan of Action:	Satisfy total width requirement for stairways as per BNBC requirements and the Alliance Standard by reducing the occupant load on 3rd floor or provide another stair to satisfy the required width of stair.	
Suggested Deadline Date:	01 Dec 2014	
Standard:	Alliance Standard Part 6 Section 6.4 Occupant Load	
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:	Corridors on 2nd to 5th floor that serve the production area, office and storage area are not protected by 1 hour fire-resistance construction. On one side of the corridor there is a steel net which is not capable of providing required fire separation as per the Alliance Standard.	
Source of Findings:	Visual Assessment: Exit access corridors were found without fire separation.	
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. Exit access corridors serving an occupant load exceeding 30 are to be separated by w	
Suggested Deadline Date:	18 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 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. Some of the doors appear to be fire doors. However, no credible certificate is available. Fire doors of proper rating are required in accordance with Alliance Standards.	
Source of Findings:	Document Review: No credible certificate for the exit doors were found.	
Suggested Plan of Action:	Replace non-compliant doors and frames in the means of egress with side-swinging doors. Replacement doors shall be a minimum width of 0.8 m (32 in), and are listed, approved, self-closing, fire rated door assemblies (door and	



	frame) with latching panic ha		
Suggested Deadline Date:	18 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:	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:	Highest occupant load is 490 on 3rd floor; total aisle width on 3rd floor is 5.91m; total required width of aisles is 2.45m. Available aisle width satisfies the requirement of Alliance Standard. Total width of 2 stairs in the main building is 3.46m; total width requirement for 490 occupants on 3rd floor is $490 \times 0.008 = 3.92\text{m}$. Available stair width does not satisfy the requirement of Alliance Standard. Total width of 2 exit doors in the main building is 3.23m; total exit width requirement for 490 occupants on 3rd floor is $490 \times 0.004 = 1.96\text{m}$. Available exit door width satisfies the requirement of Alliance Standard.		
Source of Findings:	Visual Assessment: Widths of aisles, exit doors and stairs are measured on sample basis.		
Suggested Plan of Action:	Satisfy total width requirement for stairways as per BNBC requirements and the Alliance Standard.		
Suggested Deadline Date:	18 Sep 2014		
Standard:	Alliance Standard Part 6 Section 6.5 Egress Width and BNBC Table 4.3.2		
Question:	Means of egress are free from impediments, obstructions, and stored materials.		
Priority Level:	High		
Non-Compliance Level:	2		
Description:	Some finished goods are stored beside corridor on 1st and 2nd floor of main building. In the aisles on 5th floor, some finished packets are also piled up. These findings violate the Alliance Standard.		
Source of Findings:	Visual Assessment: Finished goods were found to be stored at aisles or corridors in different floors of main building.		
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:	26 Jun 2014		



Standard:	Alliance Standard Part 6 Section 6.3.8 Impediments to means of egress and Section 6.3.9 Reliability	
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 and production floor as demanded in Alliance Standard Part 6 Section 6.4.4.	
Source of Findings:	Visual Assessment: Occupant loads were not found posted at the required locations.	
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:	24 Jul 2014	
Standard:	Alliance Standards Part 6 Section 6.4.4 Posting of Occupant Load	
Question:	Emergency power for means of egress illumination is verified at least once per year. If battery operated lights are used, these lights are tested on a monthly basis. Functional testing of battery powered lights is provided for a minimum 90 min once per year.	
Priority Level:	Medium	
Non-Compliance Level:	2	
Description:	Record of verifying emergency power for means of egress illumination was not found which is required as per Alliance Standards.	
Source of Findings:	Document Review: No document regarding verification of emergency power for means of egress was found among the documents shown by the factory personnel.	
Suggested Plan of Action:	Develop a testing and maintenance program that ensures the emergency power for all egress lighting is 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 power	
Suggested Deadline Date:	24 Jul 2014	
Standard:	Alliance Standards Part 10 Section 10.12 Illumination of Exit Signs and Means Of Escape Lighting	



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:	2
Description:	Changes in elevation at east side stair exit doors on 2nd, 3rd, and 4th floors exceed 50 mm, which is not allowed according to Alliance Standards.
Source of Findings:	Visual Assessment: Change in elevation of walking surfaces was observed.
Suggested Plan of Action:	Provide a uniform slope/ramp for the walking surface. Slope should not exceed 1 in 20 in the direction of travel. Any changes in elevation (protrusions or lips) must not exceed 1/4 in.
Suggested Deadline Date:	11 Dec 2014
Standard:	Alliance Standard Part 6 Section 6.3.4 Walking Surfaces
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 required.
Source of Findings:	Document Review: No document regarding testing of emergency power for exit signs was found among the documents shown by the factory personnel.
Suggested Plan of Action:	Develop a testing and maintenance program that ensures the emergency power for exit 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 s
Suggested Deadline Date:	24 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:	Handrails were found at one side of both staircases in the main building and no handrail was found in the stair of sub-station building. No stair is available in other ancillary sheds.
Source of Findings:	Visual Assessment: Handrails were not provided on both sides of stairways.
Suggested Plan of Action:	Provide handrails on both side of each stairway. Provide handrail of height between the range 865 mm (34 in.) and 965 mm (38 in.) as per the Alliance Standard.
Suggested Deadline Date:	11 Dec 2014
Standard:	Alliance Standard Part 6 Section 6.9 Stairs and 6.12 Handrails and Guards
Question:	Exit signs have appropriate illumination levels and contrasting graphics.
Priority Level:	Low
Non-Compliance Level:	2
Description:	Some exit signs do not have appropriate illumination levels and contrasting graphics as per the Alliance Standard.
Source of Findings:	Visual Assessment: Illumination levels of exit signs were observed during site visit.
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 ill
Suggested Deadline Date:	11 Dec 2014
Standard:	Alliance Standard Part 10 Section 10.12.1 Exit Signs
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.
Source of Findings:	Visual Assessment: No stair name or designation was found.
Suggested Plan of Action:	Install signage adjacent to each stair door indicating the stair name at the noted locations in both Bengali and English.
Suggested Deadline Date:	24 Jul 2014
Standard:	Alliance Standard Part 6 Section 6.9 Stairs





Fire Safety Programs

Question:	Are the required number of people trained and certified in fire fighting, first aid, and rescue training by the appropriate authority.
Priority Level:	High
Non-Compliance Level:	3
Description:	Document or certificate by appropriate authority for training on fire fighting, first aid and rescue is not available. The factory authority claims that some of their workers have been trained.
Source of Findings:	Document Review: No document regarding fire training has been found among the documents shown by factory personnel.
Suggested Plan of Action:	Train and certify at least 25 percent of workers in fire fighting, first aid and rescue by the proper authority and pursue for issuance of the training certificate from the authority.
Suggested Deadline Date:	11 Dec 2014
Standard:	Alliance Standard Part 13 Human Element Programs
Question:	Storage areas underneath the cutting tables are clear of combustibles.
Priority Level:	Medium
Non-Compliance Level:	3
Description:	Fabrics are stored underneath the cutting tables of cutting section on 1st floor.
Source of Findings:	Visual Assessment: Combustibles were found underneath the cutting tables.
Suggested Plan of Action:	Remove all combustibles stored underneath the cutting tables at the noted locations.
Suggested Deadline Date:	25 Jul 2014
Standard:	Alliance Standard Part 17 Section 13.7.2 Cutting tables.
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:	Worker Interviews: Among the documents shown by the factory personnel, no proper emergency evacuation plan was found.





Suggested Plan of Action:	Develop an emergency evacuation plan which includes duties and responsibilities of various people/groups, interfacing between groups and fire brigade, headcount and identification of trapped victims, physically disabled people and their rescue, etc. and a	
Suggested Deadline Date:	24 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 monthly in all buildings but not under the direction of a Fire Safety Director. This does not meet the requirements of Alliance Standards.	
Source of Findings:	Document Review: Fire drill documents have been found but not as per Alliance Standard.	
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 requirements.	
Suggested Deadline Date:	11 Dec 2014	
Standard:	Alliance Standards Part 13 Section 13.3 Fire Drills	
Question:	Training programs are implemented and documented in accordance with the Alliance Safety Training Curriculum.	
Priority Level:	Medium	
Non-Compliance Level:	2	
Description:	No document of any training program in accordance with the Alliance Safety Training Curriculum was found.	
Source of Findings:	Document Review: Alliance Safety Training Curriculum was not found among the documents shown by factory personnel.	
Suggested Plan of Action:	Impart training in accordance with Alliance Safety Training Curriculum and keep record with proper documentation.	
Suggested Deadline Date:	24 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:	Two rooms on 2nd floor of substation building were fully sealed and inaccessible.
Source of Findings:	Visual Assessment: Two rooms in the sub-station building were found inaccessible.
Suggested Plan of Action:	Remove all hasps, locks, slide bolts, or other locking devices at the noted locations.
Suggested Deadline Date:	15 Oct 2014
Standard:	Not Applicable
Question:	A Fire Safety Director position has been filled.
Priority Level:	Low
Non-Compliance Level:	3
Description:	No viable documentation or physical presence of Fire Safety Director was noted.
Source of Findings:	Document Review: No documents regarding the appointment of fire safety director was found.
Suggested Plan of Action:	Create a Fire Safety Director position and fill the position with an individual that has had sufficient training to be able to carry the required duties. The duties of the Fire Safety Director shall include the following: (1) Establish internal and
Suggested Deadline Date:	11 Dec 2014
Standard:	Alliance Standards Part 13 Section 13.1 Fire Safety Director
Question:	Fire Department pre-planning has been completed.
Priority Level:	Low
Non-Compliance Level:	2
Description:	Fire department pre-planning was not found.
Source of Findings:	Document Review: No document regarding fire department pre-planning has been 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	24 Jul 2014



Factory Name: **Odyssey Dresses Ltd.**
 Address: **Joy Bangla Road Kunia, Barabari, Gazipur Gazipur Dhaka Bangladesh**

Assessor: **Bureau Veritas**

Date: **12 May 2014**



ALLIANCE
 FOR BANGLADESH WORKER SAFETY

Date:	
Standard:	Alliance Standards Part 13 Section 13.1 Fire Safety Director
Question:	A hot-work permit program has been established.
Priority Level:	Low
Non-Compliance Level:	2
Description:	Hot work permit program is not established yet. It is required as per Alliance Standards Part 13 Section 13.4.
Source of Findings:	Document Review: No hot work permit could be presented by the factory personnel
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 equipm
Suggested Deadline Date:	11 Dec 2014
Standard:	Alliance Standards Part 13 Section 13.4 Hot Work Permit and NFPA 51B