

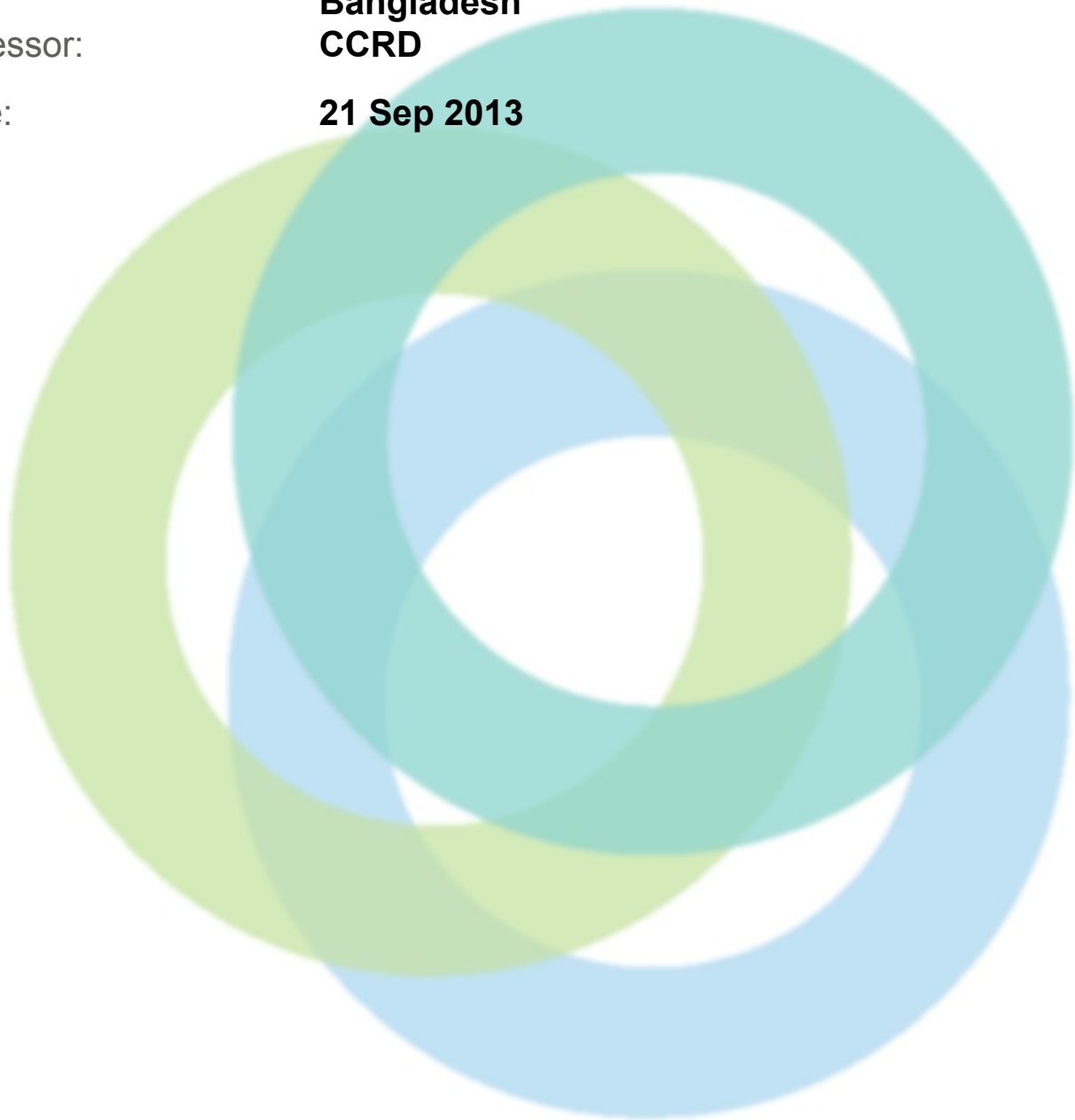
INITIAL FIRE ASSESSMENT REPORT (FAR)

Factory Name: **Delta Fashions Ltd**

Address: **Fleet Club Cum Shopping Complex, Strand Road,
Bondor, Chittagong Chittagong Chittagong
Bangladesh**

Assessor: **CCRD**

Date: **21 Sep 2013**



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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:	Delta Fashions Ltd
Address:	Fleet Club Cum Shopping Complex, Strand Road, Bondor, Chittagong Chittagong Chittagong Bangladesh
Country:	Bangladesh
Province:	Chittagong
City:	Chittagong
Zip Code:	4100
Audit Duration:	
Re-Audit:	Re-Audit After 0 Months
Draft Report Date:	6/17/2014
Final Report Date:	6/30/2014
Are all Action Items From Previous Assessment Completed?:	N/A
Buildings in Complex:	1
Is the building(s) owned or rented by the Factory:	Owned
Number of Building Levels (Stories):	8
Approximate Building Area (SF):	102400 SF
Date of Building Construction:	unknown
Date of Last Building Renovation/Addition:	unknown
Ancillary Structures in Complex:	Warehouse area
Approximate Ancillary Structures Area (SF):	unknown
Number of Occupants:	1400

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ALLIANCE
FOR BANGLADESH WORKER SAFETY

Number of Ancillary Levels (Stories):	1
Occupancy Type:	Sewing factory
Construction Type:	Reinforced concrete and unprotected steel
Height of Highest Occupied Floor Level Above Grade:	21.35 m (70 ft)



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:	Penetrations are not protected with listed firestop systems.	
Source of Findings:	Visual Assessment: Penetrations not protected	
Suggested Plan of Action:	Install a listed firestop system at every penetration through a fire wall.	
Suggested Deadline Date:	31 Dec 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:	Floor penetrations are not protected with firestop systems.	
Source of Findings:	Visual Assessment: Penetrations not protected	
Suggested Plan of Action:	Install listed firestop systems at every penetration through floors.	
Suggested Deadline Date:	31 Dec 2014	
Standard:	Reference Alliance Standards Part 4 Section 4.5 Separation	
Question:	Are exit enclosures provided with fire-resistive rated construction barriers?	
Priority Level:	High	
Non-Compliance Level:	3	
Description:	All exit stairs in the factory building are open to all levels, with no fire rated separation.	
Source of Findings:	Visual Assessment: Stairs not enclosed	



Suggested Plan of Action:	Protect all egress stairs with a shaft enclosure including 2-hour fire-rated construction. Install fire rated doors.
Suggested Deadline Date:	31 Dec 2014
Standard:	Reference Alliance Standards Part 4 Section 4.5 Separation
Question:	Are separations between hazards provided with fire-resistive rated construction barriers.
Priority Level:	Medium
Non-Compliance Level:	3
Description:	Storage areas and hazardous areas are open to rest of building.
Source of Findings:	Visual Assessment: Separation not provided
Suggested Plan of Action:	Provide fire-resistive rated construction barriers between hazard types in accordance with Alliance Standard Sections 3.4.2 and 4.5. Consult a qualified fire protection engineer to design the required rated construction barrier.
Suggested Deadline Date:	31 Dec 2014
Standard:	Reference Alliance Standards Part 4 Section 4.5 Separation

Fire Protection Systems

Question:	Does the building have a Standpipe System?
Priority Level:	High
Non-Compliance Level:	3
Description:	Hose stations were installed on each floor.
Source of Findings:	Photograph: Two hose stations were installed on each floor, supplied from a 25000 gallon roof tank which is refilled from a 40000 gallon underground cistern.
Suggested Plan of Action:	Install a Class I standpipe system in the building with fire department valves at the floor landings in each stair. The standpipe will be part of the combined standpipe/sprinkler system supply. Standpipes should be designed to supply 250 gpm at 100 psi at the four most remote fire department valves.
Suggested Deadline Date:	31 Dec 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:	No fire pump was installed.	
Source of Findings:	Visual Assessment: No fire pump	
Suggested Plan of Action:	Install a fire pump that will deliver the greatest calculated requirement of the sprinkler and standpipe systems. Design per NFPA 20 and submit for approval.	
Suggested Deadline Date:	31 Dec 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:	3	
Description:	There is a manual fire alarm system in the factory. The system is activated with rocker switches at the entrances to the exit stairs. Only one switch was installed for the dining level near one exit. The system is interconnected throughout the building so that all floors are notified when switches are activated. Horns were installed for notification. Single station smoke alarms were installed. These are battery powered and not connected to the fire alarm system.	
Source of Findings:	Visual Assessment: Non automatic fire alarm	
Suggested Plan of Action:	Design and install fire alarm system per NFPA 72. Install pull stations at each entrance to an exit. Install notification horns and strobes so that all occupants are notified in an alarm. Extend the fire alarm to all areas of the building including tenant spaces.	
Suggested Deadline Date:	31 Dec 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:	3	
Description:	No centrally reporting system was present.	
Source of Findings:	Visual Assessment: No central fire alarm reporting	
Suggested Plan of	Arrange for direct connection of the fire alarm and detection system to a	



Action:	central station monitoring service or the Fire Service and Civil Defense as per Alliance Standard Part 5 Section 5.7.5 Monitoring. Until that time that a central station monitoring service or direct connection to the Fire Service and Civil Defense can be set up, a person shall be assigned to contact the fire department in the event of fire alarm activation. An annunciator shall be located in a constantly attended location (such as a fire control room) to alert this person.
Suggested Deadline Date:	31 Dec 2014
Standard:	Alliance Standard Part 5 Section 5.7.5 Monitoring

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:	Gnd Floor Load= 10 Capacity=285, 1st Floor Load= 50 Capacity=285, 2nd Floor Load= 10 Capacity=285, 3rd Floor Load=280 Capacity=285, 4th Floor Load=250 Capacity=285, 5th Floor Load=300 Capacity=285, 6th Floor Load=300 Capacity=285, Roof Din. Load=200 Capacity=285.
Source of Findings:	Visual Assessment: Occupant load exceeded on 5th and 6th floor
Suggested Plan of Action:	Limit the number of allowable occupants per floor to 285 on all floors. Alternately, provide automatic sprinkler protection throughout the building to increase the width factor and allow 456 occupants.
Suggested Deadline Date:	31 Dec 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:	3
Description:	Security gates reduced the effective width of some passages and doorways.
Source of Findings:	Photograph: Security gates that reduced the effective width of egress paths.
Suggested Plan of Action:	Remove all existing gates from egress paths.
Suggested Deadline Date:	31 Dec 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:	3
Description:	The exit from the dining shed included thresholds at the stair entrances, pipes run across the roof, and other trip hazards on the roof in the egress path. Storage on the Ground floor included clutter that blocked the back door of the warehouse.
Source of Findings:	Photograph: The exit from the dining shed included thresholds at the stair entrances, pipes across the roof, and other trip hazards on the roof.
Suggested Plan of Action:	Remove tripping hazards including thresholds and pipes on the roof. Install 1:12 ramps instead of thresholds. Remove clutter from storage area. Remove all excess storage from office areas.
Suggested Deadline Date:	31 Dec 2014
Standard:	Alliance Standard Part 6 Section 6.3.8 Impediments to means of egress and Section 6.3.9 Reliability
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:	Stair 1 includes a security gate installed between the 2nd and 3rd floor. Sliding doors with hasps at the top. Gates and doors are normally open during operation. Stair 2 included swinging doors with bolts and some sliding security gates. Discharge was through a breezeway where security gates remain open. Security gates reduced the effective width of some passages and doorways.
Source of Findings:	Photograph: Stair 2 included swinging doors with bolts and some sliding security gates.
Suggested Plan of Action:	Remove all hasps, locks, sliding gates and doors, tracks, and other non-compliant devices.
Suggested Deadline Date:	31 Dec 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:	All doors were unrated.
Source of Findings:	Visual Assessment: Unrated doors
Suggested Plan of Action:	Install listed, labeled, approved, automatic-closing, side-swinging, fire rated doors in fire rated frames with latching panic hardware. These doors should be a minimum of 39 inches wide with a total opening of at least half the width of the stair. Doors should swing in the direction of egress from the floors into the stair.
Suggested Deadline Date:	31 Dec 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:	Emergency stairs included sliding doors.
Source of Findings:	Visual Assessment: Sliding doors
Suggested Plan of Action:	Remove sliding doors and all associated hardware. Install listed, approved, automatic-closing, side-swinging doors that swing in the direction of egress.
Suggested Deadline Date:	31 Dec 2014
Standard:	Alliance Standards Part 6 Section 6.8 Doors and Gates
Question:	Occupant loads are posted for every assembly and production floor in a conspicuous space near the main point of egress.
Priority Level:	Medium
Non-Compliance Level:	3
Description:	No occupant load signs are posted.
Source of Findings:	Visual Assessment: No signage provided
Suggested Plan of Action:	Install occupant load signs at every floor landing in each stair.
Suggested Deadline Date:	31 Dec 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:	2	
Description:	Handrails were not installed on both sides of stairs.	
Source of Findings:	Photograph: Handrails only on inside of stairs.	
Suggested Plan of Action:	Install handrails on both sides of all stairs. Install handrails at stair discharge steps and ramps.	
Suggested Deadline Date:	31 Dec 2014	
Standard:	Alliance Standard Part 6 Section 6.9 Stairs and 6.12 Handrails and Guards	
Question:	All paths of egress are provided with compliant means of illumination.	
Priority Level:	Medium	
Non-Compliance Level:	1	
Description:	Some emergency lights were present and installed on emergency power.	
Source of Findings:	Visual Assessment: Insufficient emergency egress lighting	
Suggested Plan of Action:	Provide illumination of egress paths at all times the building is occupied. Illumination needs to be a minimum of 10 lux for all corridors, exit doors, and stairways. Illumination for aisles needs to be a minimum of 2.5 lux.	
Suggested Deadline Date:	31 Dec 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:	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:	1	
Description:	Lighted exit signs were installed only at the exits.	
Source of Findings:	Visual Assessment: Insufficient exit signage	
Suggested Plan of Action:	Provide continuously illuminated exit signs at all required exits and along egress paths, especially where path has a change of direction.	
Suggested Deadline Date:	31 Dec 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	



Date:	
Standard:	Alliance Standard Part 6 Section 6.11 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:	3
Description:	Stair designation signs are not provided.
Source of Findings:	Visual Assessment: No signage provided
Suggested Plan of Action:	Install stair designation signs at every floor landing.
Suggested Deadline Date:	31 Dec 2014
Standard:	Alliance Standard Part 6 Section 6.9 Stairs

Fire Safety Programs

Question:	A written housekeeping policy is established and enforced.
Priority Level:	Low
Non-Compliance Level:	1
Description:	27 workers are dedicated to housekeeping. Blowdown of lint is performed monthly. Equipment is cleaned and lubricated monthly. Some little used areas were found cluttered. Factory areas were generally clear. Storage on the Ground floor included clutter that blocked the back door of the warehouse.
Source of Findings:	Photograph: Storage on the ground floor included clutter that blocked back door of the warehouse.
Suggested Plan of Action:	Remove all excess storage from office areas. Remove clutter from warehouse.
Suggested Deadline Date:	31 Dec 2014
Standard:	Alliance Standards Part 13 Section 13.6 Housekeeping

