

FIRE SAFETY INSPECTION REPORT

Factory Name: United Costume Ltd.

ACCORD ID: 23445

ADDRESS:

**Malancha Nagar I/A, R#02, West Isdair, Fatullah, Narayanganj
23.6300665, 90.4867348**

Other Factories: RN Knit Tex Ltd.



Inspected By: Kazi Raian Mahmood

Date: 07 January, 2019.

Fire Safety Inspection Report

Factory Name: United Costume Ltd.

ADDRESS: Malancha Nagar I/A, R#02, West Isdair, Fatullah, Narayanganj

Summary:

United Costume Ltd. was surveyed for fire safety on 7th January 2019 by The Accord Inspection Team. This summary identifies the major deficiencies that were identified during the inspection. The purpose of this survey was to identify significant fire safety issues and to provide recommendations for remediation based on applicable standards specified by the Accord. The scope of this initial fire safety inspection was limited to the review and identification of major fire safety issues. The inspection did not include identification of minor deficiencies, which will be further addressed as part of follow-up inspections. Table 1 summarizes the major fire safety issues identified during the inspection. Recommendations have been provided to address each issue. An implementation schedule shall be developed by the factory to remediate each of the findings. The specific timing of improvements, including any requested extensions due to design / installation constraints, shall be submitted to the Accord for approval.



Findings & Recommendations :

Table 1 summarizes the major fire safety issues identified during the inspection. Recommendations have been provided to address each issue.

An implementation schedule shall be developed by the factory to remediate each of the findings. The specific timing of improvements, including any requested extensions due to design / installation constraints, shall be submitted to the Accord for approval.

Table-1:

SI No.	Category	Findings	Required Action	Remediation Time Frame
1	Fire Rated Construction	Elevator shaft is located inside the production floor and is not separated by proper fire rated construction (openings, non-rated doors, penetrations)	Provide a minimum 2-hr fire rated elevator shaft to separate it from each floor. Seal and/or protect all openings to maintain fire separations	Within 3 months





2	Fire Rated Construction	The exit stair enclosures are not separated from work areas and other spaces on each floor by fire-rated construction. Fire Doors have been provided with proper hour rating. Doors are kept open and installation of magnetic hold open device to interface with Fire Alarm System is ongoing.	The exit stair enclosure shall be provided with a minimum 1-hr fire resistance rating for buildings with 3 or fewer stories and a minimum of 2- hr. fire resistance rating for buildings 4 or more stories. Provide 0.75 hr. fire rated door and seal all penetrations and openings by 1 hr. fire rated fire rated barrier construction for building with 3 or fewer stories. Provide 1.5 hr. fire rated door and seal all penetrations and openings by 2 hr. fire rated fire rated barrier construction for building with 4 or more stories. 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. The rated assembly shall be approved and/or designed by a qualified fire protection engineer. Ensure that the fire doors are self-closing and positive latching and that they are provided with fire exit (panic) hardware where serving production floors. If fire doors are required to be held open for functional reasons, provide automatic closing devices tied to the fire alarm system.	Within 3 months
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3	Fire Rated Construction	Penetrations through floor/ceiling assemblies are found unsealed in the Electrical risers near west exit stairs at all floors.	Seal all penetrations and openings in floor/ceiling (full thickness of the floor/ceiling) assemblies by fire rated materials to maintain the fire resistance rating. Provide a minimum 2-hr fire rated shaft to separate the utility risers from each floor if required.	Within 2 months
 				



4	Fire Rated Construction	Transformer room and Meter room has unprotected opening at ground floor and is not properly separated with required Fire rated separation.	Oil filled transformer shall be separated from other occupancies by a minimum 4-hr fire rated construction (wall, floor, slab etc.). Switch gears and transformer bays shall be separately housed with a 4-hr rated wall in between. Seal all penetrations and openings (door, window etc.) should be protected by 2-hr fire rated materials to maintain the fire separation if required. All exhaust systems shall discharge to the exterior of the building in a safe location.	Within 3 months
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5	Fire Rated Construction	Worker's Dinning is not separated from the lift machine room and other occupancies with proper Fire rated Separation.	Provide a minimum 2-hr Fire sated separation to dinning and a minimum 1.5 hr. rated Fire door where there is a exit and seal all the penetration and unsealed opening with 2-hr fire rated separation	Within 3 months
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6	Fire Rated Construction	Areas used for in-process storage of combustible materials are open to the surrounding occupancy at cutting section at 6th Floor of Building 1.	Provide defined storage areas and limit the storage arrangement as follows:- 1. General Condition: Maximum height of 2.4m and maximum area of 23m². Separate areas of unenclosed combustible storage by a minimum clear distance of 3m. 2. If sprinkler protected: maximum height of 3.66m and maximum area of 93m². Separate areas of unenclosed combustible storage by a minimum clear distance of 3m. or 3. Enclose the storage area from the surrounding occupancy with a minimum 1 hour construction.	Within 3 months
				



7	Fire rated Construction	Rooms used for storage of combustible materials are not separated from the surrounding occupancy/area at ground floor of building 1.	Rooms used for storage of combustible materials shall be separated from the surrounding occupancy with a minimum 1 hour construction.	Within 3 months
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8	Fire Rated Construction	Both the exit stair(s) of Building 1 discharge the occupants inside the building.	1. Modify stair to discharge directly outside. Or 2. Provide 2-hr fire-rated exit passageway leading directly outside (vestibules to separate any storage areas).	Within 3 months
 				
9	Egress	Fire Assembly Point is used as the parking space	Fire Assembly point shall be kept empty all the time and shall be used in case of emergency only. Remove parking space from the area or relocate the assembly point elsewhere.	Immediate





10	Egress	Doors along means of egress are provided with non compliant locking system at exit 3 of the ground floor.	1. Remove all non compliant locking features from egress doors. 2. If locks are required for security reasons, utilize special door locking features complying with NFPA 101. 3. Doors may be locked where the latch and lock are disengaged with one motion where the occupant load does not exceed 49 persons. 4. Doors may be provided with locking hardware from the ingress side provided that a panic bar is installed on any door with an occupant load exceeding 49 persons.	Immediate
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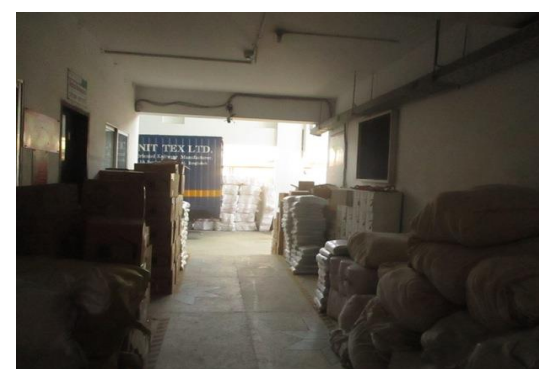




11	Egress	Storage was located in the exit stair.	Remove all storage from exit stairs.	Immediate
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12	Egress Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes.	Test the emergency lighting system on each floor and provide additional emergency fixtures to provide adequate illumination along the means of egress. Provide a minimum illumination of 10 lux at the floor level within exit stairs and exit discharge paths and minimum 2.5 lux along exit access aisles.	Within 2 months
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13	Egress Lighting	Exit sign not provided at exit at warehouse, compressor room at ground floor	Lighted exit signs shall be placed at entrance to an exit. Additional exit signs shall be placed throughout the facility anywhere the continuation of the egress is not obvious. Lighted exit signs shall be provided with either battery backup or uninterruptable power supply systems and shall be continuously illuminated.	Immediate
14	Fire Detection and Alarm System	The Fire Alarm System is antiquated and not listed. Reviewed design of fire alarm system was not found during inspection	Submit the as-built design of fire alarm system to Accord in accordance with NFPA 72. Installation of the system should be as per the reviewed design.	Design within 3 months and installation within 9 months



15	ITM of Fire Detection System	Inspection, testing, and maintenance for the fire alarm system is not in accordance with NFPA 72 or as per Accord standard.	Inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72 or as per Accord standard.	Within 2 months from the system installation
16	Fire Protection System	The existing high-rise building with an occupiable floor greater than 23 m (75 ft.) above the finished grade is not protected with an approved automatic sprinkler system. The large occupant loads, heavy fuel loading, and anticipated extended egress times warrant sprinkler protection.	Provide an automatic sprinkler protection throughout the building in accordance with NFPA 13.	Design within 4 months and installation within 9 months



17	ITM of Fire Protection System	Inspection, testing, and maintenance of the automatic sprinkler system is not in accordance with NFPA 25 or as per Accord standard.	Inspect, test and maintain the automatic sprinkler system, and keep written records on-site, in accordance with NFPA 25 or as per Accord standard.	Within in 2 months after the installation
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