

FIRE SAFETY INSPECTION REPORT

Factory Name: Apex Fashion Wear Limited

ACCORD ID: 23353

ADDRESS: Chandora, Shafipur, Kailakoir

Other Factories: None



Inspected By: Md. Mah mudur Rahman & Safawan Abyaz

Date: 24 November 2018

Fire Safety Inspection Report

Factory Name: Apex Fashion Wear Limited

Introduction:

Apex Fashion Wear Limited complex was surveyed for fire safety on 24/11/2018 by The Accord Inspection Team. The purpose of the 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.

Limitations

The information in this fire safety inspection report was obtained during a visit to the facility and during interviews with local factory management. It has not been possible to provide independent verification for all the information and data collected, and, therefore, The Accord cannot accept general responsibility for omissions or errors arising from inaccuracies in this report from the information obtained.

The findings and recommendations in this report are not intended to imply, guarantee, ensure or warrant compliance with any government regulations. Additionally, the results do not imply in any way that compliance with the findings or recommendations as stated in this report will eliminate all hazards, risks or exposures or that hazards, risks or exposures not referred to in this report do not exist. Compliance with the findings and recommendations stated in this report does not relieve the factory owner from obligation to comply with specific project requirements, industry standards, or the provisions of any local government regulations.



General Factory Information

Factory Building name(s): 1. Apex Fashion Wear Garments Building **(B7)** 2. Apex Fashion Wear Store Building **(B8)** 3. Processing Hall Shed **(B6)**
4. Yarn Store **(B15)**

Factory Address: Chandora, Shafipur, Kailakoir

Points of contact:

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Findings & Recommendations :

The following "Table" 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.

Sl No.	Category	Findings	Required Action	Remediation Time Frame	Pictorial Evidence
1	Fire rated construction	The exit stairs are not separated from [work areas, other spaces] on each floor by fire-rated construction. Location: Building- 7 & 8	Stair shall be enclosed with a minimum 2-hr fire-rated construction. Seal all unprotected openings and provide minimum 1.5-hr fire rated doors to separate the exit stairs from work areas and other building spaces on all floor levels. Ensure that the fire doors are self-closing, 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 03 Months	



Sl No.	Category	Findings	Required Action	Remediation Time Frame	Pictorial Evidence
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2	Fire rated construction	Areas used for in-process storage of combustible materials are open to the surrounding occupancy Location: Building- 7 or others	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 03 Months	
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Sl No.	Category	Findings	Required Action	Remediation Time Frame	Pictorial Evidence
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3

Fire rated construction

Rooms used for storage of combustible materials are not separated from the surrounding occupancy/areas

Rooms used for storage of combustible materials shall be separated from the surrounding occupancy with a minimum 1 hour construction.

Within 03 Months



Sl No.	Category	Findings	Required Action	Remediation Time Frame	Pictorial Evidence
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4	Fire rated construction	Rooms containing boilers having a capacity of more than 22.76 liter is not properly separated by fire rated construction with other Occupancies/Areas Location: 2nd floor, Building-7	Boilers or other heat producing equipment shall be separated from other occupancies by a minimum 1-hr (2-hr for high-rise building) fire rated construction (wall, floor, slab etc.). Seal all penetrations and openings (door, window etc.) should be protected by 0.75-hr (45 min) 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 03 Months	
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Sl No.	Category	Findings	Required Action	Remediation Time Frame	Pictorial Evidence
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5

Fire rated construction

Compressors located at ground floor are not separated by fire rated constructions from other occupancies.

Location: Ground floor, Building-7

Compressor room shall be separated from other occupancies by a minimum 2-hr fire rated construction (wall, floor, slab etc.). Seal all penetrations and openings (door, window etc.) should be protected by 1.5-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 03 Months



Sl No.	Category	Findings	Required Action	Remediation Time Frame	Pictorial Evidence
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6	Fire rated construction	Dining room having a capacity more than 500 is not separated from others occupancies. Location: 1st floor, Building-7	Separate the dining room from others occupancy by 2 hr. fire rated construction. Seal all penetrations and openings (door, window etc.) should be protected by 1.5-hr fire rated materials to maintain the fire separation if required. Direct access to exit stair shall be ensured.	Within 03 Months	
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SI No.	Category	Findings	Required Action	Remediation Time Frame	Pictorial Evidence
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7	Fire rated construction	Penetrations through floor/ceiling assemblies are found unsealed.	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.	Within 03 Months	
		Location(s): All floors, South side, Building-7	Or Provide a minimum 2-hr fire rated shaft to separate the utility risers from each floor if required.		



Sl No.	Category	Findings	Required Action	Remediation Time Frame	Pictorial Evidence
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8

Fire rated construction

Unsealed penetrations and openings are located in exit stair enclosures.

Location(s): Stair-2, Building-7 & 8

Seal all penetrations and openings in the wall of exit enclosure walls (full thickness of the wall) by fire rated materials to maintain the fire resistance rating.

Within 03 Months



Sl No.	Category	Findings	Required Action	Remediation Time Frame	Pictorial Evidence
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9

Fire rated construction

The exterior exit stair is not separated from the building.
Location: Generator & Chiller Building: B9

Exterior exit stairs shall be separated by minimum 2-hr fire-rated construction and The rating of the exterior wall shall extend 3.05 m (10 ft.) beyond the ends of the stair structure. Provide minimum 1.5-hr fire rated doors to separate the exit stairs from work areas and other building spaces on all floor levels. Ensure that the fire doors are self-closing, 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 03 Months



Sl No.	Category	Findings	Required Action	Remediation Time Frame	Pictorial Evidence
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10 Egress

Doors along means of egress are provided with non compliant locking system.

Location: Building-7&8

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



Sl No.	Category	Findings	Required Action	Remediation Time Frame	Pictorial Evidence
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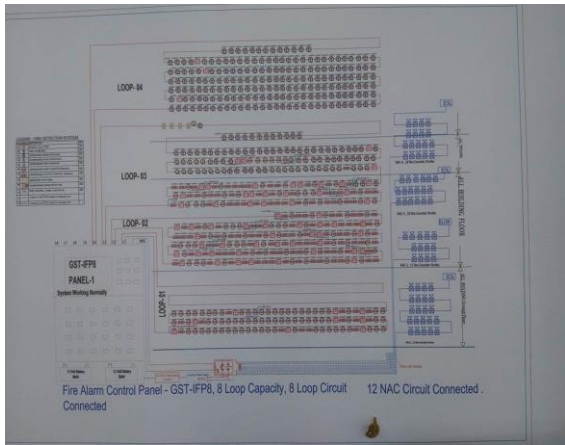
11	Egress	Occupants of store building-8 could find the secondary exit through building-7, but door swing is not to egress travel. Location: All floors of building-8	Modify the door swing to egress travel	Within 01 Month	
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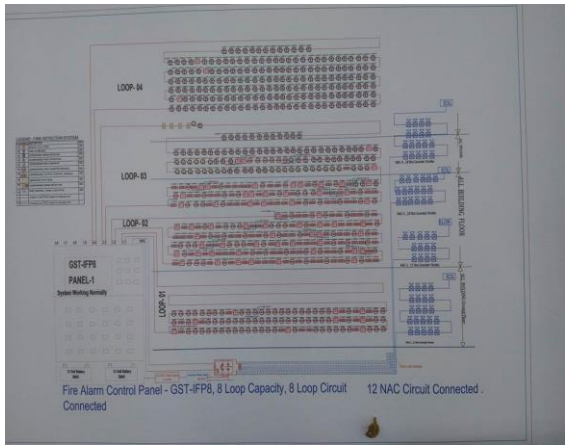


12	Egress	Exits are not remotely located from each other. Due to this reason, travel distance/dead end of aisles/common path of travel is exceeding from the requirements. Building: Shed-6 & 15	Modify exit arrangement or Provide additional exit(s) or Reconfigure the egress arrangement to reduce the maximum common path of travel to not more than 23m or Provide automatic sprinkler system throughout the building as per NFPA 13	Within 01 Month	
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SI No.	Category	Findings	Required Action	Remediation Time Frame	Pictorial Evidence
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13	Fire Alarm & Detection System	Currently the factory has designed the fire alarm and detection system and started to installation. The design has not been reviewed/approved by any AHJ. Location: All buildings & Sheds	Submit the addressable fire alarm & detection system drawing to Accord for review. Modify/replace the fire alarm system with a new, listed addressable fire alarm system in accordance with NFPA 72.	Design Submission within 02 Months & Installation within 06 Months	 
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SI No.	Category	Findings	Required Action	Remediation Time Frame	Pictorial Evidence
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14	Fire Alarm & Detection System	The building is equipped with single-station smoke alarms. Smoke alarm activation sounds only a local alarm and does not provide automatic fire alarm notification of occupants.	Remove single-station smoke alarms. Provide automatic smoke detection throughout the building, tied into the fire alarm system, in accordance with NFPA 72.	Within 06 Months	
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15	Fire Alarm & 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 03 Months	
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SI No.	Category	Findings	Required Action	Remediation Time Frame	Pictorial Evidence
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16	Water Based 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 Location: Building 7&8	Provide an automatic sprinkler protection throughout the building in accordance with NFPA 13. Pump Installation shall be as per NFPA 20. Required materials shall be listed/3rd party certified.	Design Submission within 02 Months & Installation within 09 Months	
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17	Egress Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes. Location: All buildings & Sheds	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 03 Months	
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