

INITIAL FIRE SAFETY INSPECTION REPORT

PIMKIE APPARELS LTD. (New Building)

RSC ID: 24190

ADDRESS: Plot # 327, Block # F, Tongi, Industrial Area

23°52'56.3"N 90°23'47.9"E

Other Factories: PIMKIE APPARELS LTD(In this premise)



Inspected By: Ahammad Kabir & Md. Anisuzzaman

Date: 06-September-2021

Findings & Recommendations :

Table 1- summarizes the fire safety non-compliant issues identified during the inspection. Recommendations have been provided to address each issue with specific remediation timeline.

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 RSC for approval.

Table-1:Findings & Recommendations for new building & Utility building 01

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire Rated Construction	Exit Enclosures are not properly fire separated from other occupancy on each floor by fire rated construction. Location: New building	Provide minimum 2-hr fire rated separation exit enclosure. Provide minimum 1.5-hr fire rated doors and seal all unprotected openings and penetration to separate the exit stairs from work areas and other building spaces on all floor levels. The clearance under the bottom of a fire door shall be a maximum of 19mm. 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



F-2

Fire Rated
Construction

Elevator shafts are directly open into the exit
enclosure without proper fire separation.

Location: New building

Ensure minimum 2-hr listed/3rd part certified fire
rated lift landing doors for elevator shafts
otherwise close the area of the shaft with a 2-hr
fire-rated construction barrier.

Within 3 months



F-3	Fire Rated Construction	Areas used for storage of combustible materials are open to the surrounding occupancy which are not separated by fire rated construction. Location: ground, 2nd & 3rd floor of new building	Provide dedicated storage rooms separated by minimum 1-hr fire-rated construction. Or, Where separate storage rooms are not feasible, 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.	Within 3 months
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F-4	Fire Rated Construction	The main structural elements of the buildings are constructed by steel which is non-rated and were found in exposed condition without any fire protection. Location: New building	The buildings are new steel structure which shall be type-I or II construction. So, provide require rating in the structural elements of the buildings. Consult with a qualified fire protection engineer. Follow BNBC 2006-Table 3.2.4, 3.1.9 and 3.3.1 as reference.	Within 6 months
				
F-5	Fire Rated Construction	The exit discharge path (Passageway) is not fire-rated separated as the non-rated roof is continuous.	Provide minimum 2 hr. fire rated exit discharge path which will lead directly outside.	Within 3 months



F-6	Fire Rated Construction	The Dining area and prayer room are not separated by fire rated construction with the adjacent production occupancies. Location: 1st floor of new building	Separate the dining area and prayer room from production & other occupancies by minimum 3-hr fire rated construction. Provide rated exit passageways leading directly to the exit stairs of the same resistance rating.	Within 3 months
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F-7	Means of Egress	The exit discharge path (Egress Court) are obstructed by storage Location: West side of the building.	Means of egress shall be maintained continuously free and clear of all obstructions	Within 1 months
 				
F-8	Means of Egress	Parapets or guards are provided in occupied roof which is less than 1067mm (42 inch). Location: New Building	Provide parapets or guards with a minimum height of 1067mm (42 inch.).	Within 3 months



F-9	Egress lighting	Exit sign not provided at required location each location.	Illuminated 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. Illuminated exit signs shall be provided with either battery backup or uninterruptable power supply systems and shall be continuously illuminated.	Within 1 month
				

F-10	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 3 months
F-11	Egress lighting(ITM)	Inspection, testing, and maintenance for the exit sign and emergency lighting system was not in accordance with The ACCORD standard.	Inspect, test and maintain the exit sign and emergency lighting system in the accordance with The ACCORD standard. Keep written records on-site.	Within 3 months

F-12	Fire Alarm & Detection System (FADS)	An addressable fire alarm & detection system installation was ongoing during inspection day. The Required Fire Alarm system is not installed in accordance with the ACCORD standard and NFPA-72. Location: New building & Utility building 01	Design & Installation of Fire Alarm system shall be in accordance with ACCORD standard and NFPA 72. Submit design, documents and calculations to RSC for review prior installation/modification. After installation the owner shall contact the RSC for witness of conducting the final acceptance testing of the fire detection & alarm system installation. Also inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72.	Design within 2 months, Install within 4 months.
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F-13	Fire Detection System (ITM of FADS)	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 1 Month after installation.
F-14	Fire Protection System(Standpipe)	The Required Standpipe System is not installed in accordance with the ACCORD standard and NFPA-14, 20, 22 and 24. Location: New Building	Submit the standpipe system drawing to RSC for review. Once reviewed, install or modify the standpipe system throughout the building in accordance with Accord standard and NFPA 14, 20, 22 and 24. After installation the owner shall contact the RSC for witness of conducting the final acceptance testing of the standpipe system.	Design within 2 months, Install within 4 months.

F-15	Fire Protection System(ITM of Standpipe)	Inspection, testing, and maintenance for the Standpipe system is not in accordance with NFPA 14, 25 or as per Accord standard.	Inspect, test and maintain the standpipe system in accordance with NFPA 14, 25 or as per Accord standard and keep written records on-site.	Within 1 Month after installation.
F-16	Fire Protection System(ITM of Extinguisher)	Inspection, testing, and maintenance of the extinguisher system is not in accordance with NFPA 10 or as per Accord standard	Inspect, test and maintain the extinguisher system, and keep written records on-site, in accordance with NFPA 10 or as per Accord standard.	Within 3 months
F-17	Fire Protection System(ITM of fire pump)	Inspection, testing, and maintenance for the fire pump is not in accordance with NFPA 20, 25 or as per Accord standard.	Inspect, test and maintain the fire pump in accordance with NFPA 20, 25 or as per Accord standard and keep written records on-site.	Within 1 Month after installation.

F-18	Fire Rated Construction	Generator, Transformer & Substation are not properly separated from each other by fire rated construction.	Generator, Transformer & substation shall be separated from each other by a minimum 2-hr fire-rated construction (wall, floor, slab, etc.). Seal all penetrations and openings (door, window, etc.) by minimum 1.5-hr fire-rated materials to maintain the fire separation as required. All exhaust systems shall discharge to the exterior of the building in a safe location.	Within 3months
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