

FIRE SAFETY INSPECTION REPORT

Pentagon Knit Com. Ltd.

ACCORD ID: 12659

**123, JAYMAT KHAN ROAD, PAGAR, TONGI, GAZIPUR, BANGLADESH
(23.894774,90.421400)**

Other Factories: Global Apparel Park Ltd.



Inspected By: Nasif Javed Tofa, Safawan Abayez

Date: 17 January, 2017

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.

Sl No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire Rated Construction	Areas used for in-process storages of combustible materials are open to the factory floors. Location: Ground, 2nd & 5th floors Note: Both factories are owned by same owner	Provide defined storage areas and limit the storage arrangement as follows:- 1. General Condition: Maximum height of 2.4m and maximum area of 23m ² . 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 93m ² . 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





F-2	Fire Rated Construction	The fire doors provided at exit stairs were held open in unacceptable means in some cases, compromising the function of self closing of fire door leaves. The door holding devices were not interfaced with the fire alarm control panel.	Fire doors shall always be kept closed. If fire rated doors are required to be held open for functional reasons, ensure automatic closing devices tied to the fire alarm system. Each & every component of fire doors shall be put through proper maintenance for proper functioning & sustainability. Every door in a stair enclosure serving more than 5 stories shall be provided with re-entry unless it meets ACCORD standard 6.8.3.1	Within 3 months
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F-3	Fire Rated Construction	Unsealed penetrations and openings are located in the exit stair enclosures.	Seal all penetrations and openings in exit stair enclosure walls to maintain the fire separations.	Within 3 months
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F-3	Fire Rated Construction	Penetrations through fire rated floor/ceiling assemblies are found unsealed. Location: BBT riser	Seal all penetrations and openings in floor/ceiling (full thickness of the floor/ceiling) assemblies by fire rated materials to maintain the required fire resistance rating or, Provide a minimum 2-hr fire rated shaft to separate the utility risers from each floor if required.	Within 3 months
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F-4	Fire Rated Construction	The generator room is not separated by fire rated construction from the adjacent liquefied gas storage space. (openings, non-rated doors, penetrations) Location: Utility building	Separate the generator room by a minimum 2-hr fire rated construction. Seal and/or protect all openings to maintain fire separations.	Within 3 months





F-5	Fire Rated Construction	The boiler room is not separated by fire rated construction from the egress path (openings, non-rated doors, penetrations) Location: South-East corner of the building	Separate the boiler room by a minimum 2-hr fire rated construction. Seal and/or fire protect all openings to maintain fire separations.	Within 3 months
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F-6	Fire Rated Construction	The air compressor room is not separated by fire rated construction (openings, non-rated doors, penetrations) Location: Ground floor (South-East)	Separate the air compressor room by a minimum 2-hr fire rated construction. Seal and/or fire protect all openings to maintain fire separations.	Within 3 months
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F-7	Egress	Egress doors/gates with locking features not complying with NFPA101 are provided at ground floor exit discharge.	Remove locking features from all egress doors/gates. If locks are required for security reasons, utilize specialized door locking features complying with NFPA101.	Immediate
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F-8	Egress	Storage and electrical panel were located in exit stair.	Remove storages from the exit stairs and egress paths. Relocate the electrical panels from exit stair enclosure.	Immediate
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F-9	Fire Detection System	Fire detection & alarm system installation requires detailed review to confirm compliance with NFPA 72 and ACCORD standards	Submit as-built drawings, testing records, equipment certification and other relevant documentation to the ACCORD for review and approval, modification shall have to be done as per the reviewed design (if required) Upon approval & installation/modification the owner shall contact the Accord prior to conducting the final acceptance testing of the fire detection & alarm system installation.	Design within 1 month; Modification of the system (if required) within 4 months



				
F-11	Fire Detection System	Inspection, testing, and maintenance for the fire detection & alarm system is not in accordance with NFPA 72	Inspect, test and maintain the fire detection & alarm system, and keep written records on-site, in accordance with NFPA 72.	Within 3 months
F-12	Fire Protection System	The existing building has an occupied floor greater than 10 meter (33 feet) and is not provided with standpipe system.	Design & install a new class III standpipe system & fire department (Siamese) connection in accordance with NFPA 14. A class I system shall be permitted in buildings protected throughout by an automatic sprinkler system. The standpipe system shall be connected to a dedicated fire pump meeting minimum hydraulic demands at the required points. Installation of the fire pump shall be as per NFPA 20. Upon installation inspect, test and maintain the standpipe system & fire pumps, and keep written records on-site, in accordance with NFPA 14, 20 and ACCORD standards.	Design within 2 months; Install within 6 months.



F-13	Fire Protection System	Inspection, testing, and maintenance for the exit lighting system was not in accordance with The ACCORD standard.	Emergency power for exit signs shall be verified at least once per year. If battery-operated signs are used, these lights shall be tested on a monthly basis. Functional testing of battery powered signs shall be provided for a minimum 90 min once per year	Within 3 months
F-14	Egress Lighting	Manual on-off switch facility available for exit signage's units.	Remove manual on/off switches from emergency lighting units or exit signage's units to prevent them from being switched off.	Within 1 month



F-15	Egress Lighting	Emergency lighting for means of egress was not provided in the factory building.	Means of egress illumination shall be provided with emergency power or supplemented with battery powered lights that provide minimum 10 lux for no less than 30 min in the event of failure of normal lighting. The means of egress paths shall be illuminated at all times the building is occupied. Illumination shall be a minimum of 10 lux for all corridors, exit doors, and stairways. Aisles shall be provided with a minimum 2.5 lux Inspect, test and maintain the emergency lighting system in the accordance with The ACCORD standard. Keep written records on-site.	Within 3 months
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F-16	Parapets or Guards	Parapets or guards are provided in occupied roof which is less than 1067mm (42 inch.).	Provide parapets or guards with a minimum height of 1067mm (42 inch.).	Within 3 months
				
F-17	Fire Extinguishers ITM	Inspection, testing and maintenance of portable fire extinguishers is not in accordance with NFPA 10.	Inspect, test and maintain the portable fire extinguishers and keep written records onsite, in accordance with NFPA 10 and ACCORD standards.	Within 3 months

