

FIRE SAFETY INSPECTION REPORT

EPYLLION KNITWEARS LIMITED

**PLOT # I/6,8,10,12, ROAD # 06, SECTION # 07,
MIRPUR-I/A, MIRPUR, DHAKA-1216**



ACCORD
on Fire and Building Safety in Bangladesh

April 15, 2014

SUMMARY

Epyllion Knitwears Limited was surveyed for fire safety on 4/15/2014 by Hughes Associates, Inc. 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.

Table 1. Findings And Recommendations

No.	Category	Finding	Recommendation	Remediation Timeframe
F-1	Fire Rated Construction	The boiler, generators, and transformers are not separated from adjacent areas by fire-rated construction (openings, penetrations).	Separate the boiler, generators, and transformers by a minimum 2-hr fire-rated construction. Seal and/or protect all openings to maintain the required fire separations.	Within 3 months



F-2	Fire Rated Construction	Areas used for combustible storage are not separated by fire-rated construction. Locations: - Storage rooms on various floors had gated doors and open, security mesh walls that compromise the fire barrier. - General storage on multiple floors was open to production areas.	Provide dedicated storage rooms separated by minimum 1-hr fire-rated construction. Where separate storage rooms are not feasible, provide defined storage areas and limit the storage arrangement as follows: - Maximum height of 2.4m and maximum area of 23m² - 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-3	Fire Rated Construction	The exit stairs are not separated from work areas and other spaces on each floor by fire-rated construction.	Provide minimum 1.5-hr fire rated doors and seal all unprotected openings to separate the exit stairs and bridge from work areas and other building spaces on all floor levels. 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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F-4	Fire Rated Construction	Unsealed penetrations and openings are located in the fire-rated wall and ceiling assemblies. Location: All floors.	Provide a minimum 2-hr fire-rated shaft to separate the utility risers from each floor level. Seal all penetrations and openings in wall and ceiling assemblies to maintain the fire separation.	Within 3 months
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F-5	Fire Rated Construction	Hazardous materials / flammable liquid storage areas are not separated by fire-rated construction (openings, non-rated doors, penetrations).	Separate the hazardous materials / flammable liquid storage areas by a minimum 2-hr fire-rated construction. Seal and/or protected all openings to maintain the required fire separations.	Within 3 months
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Locations:

- Fuel storage area adjacent to Ground floor storage spaces.
- Tanks filled with unknown substance in immediate vicinity of boiler.
- Possible hazardous areas on various floors where masked personnel was spraying unknown substance in an unsealed, non-ventilated area.





F-6	Fire Rated Construction	Unsealed penetrations and openings are located in exit stair enclosures.	Seal all penetrations and openings in exit stair enclosure walls to maintain the fire separation.	Within 3 months
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F-7	Fire Rated Construction	Corrugated metal roofing is used to cover the exit stairs at the Roof level, which does not constitute the classification of fire-rated construction for the stairs.	Enclose the stairs with a minimum 2-hr fire-rated construction.	Within 3 months
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F-8	Egress	Egress doors / gates with locking features are provided at building exits, exit stairs, along egress routes, and exit discharge. Locations: Collapsible gates and sliding doors on all floors. Doors were open and unlocked during the survey.	Remove locking features from all egress doors / gates. If locks are required for security reasons, utilize special door locking features complying with NFPA 101.	Immediat
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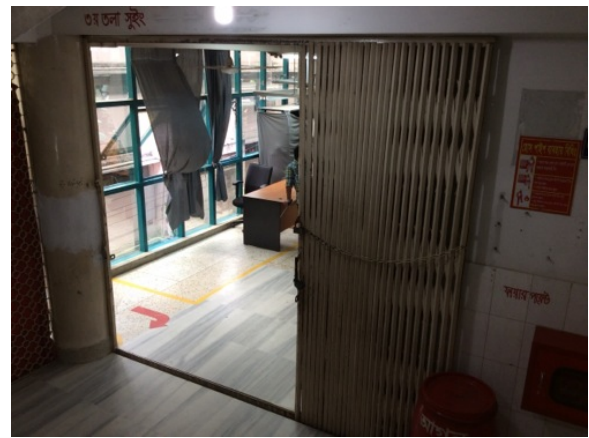


F-9	Egress	Storage was located in the exit stair.	Remove all storage from exit stairs and egress paths.	Immediat
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Locations:
-Combustible fabric material located in Unit 2 exit stair.
-Substantial fabric storage in and above other Unit 2 exit stair.



F-10	Egress	Collapsible gates / sliding doors are provided at building exits, exit stairs, along egress routes, and exit discharge. Locations: Collapsible gates and sliding doors on all floors.	Replace all gates / sliding doors along the means of egress with side-hinged, swinging egress doors. If locks are required for security reasons, utilize special door locking features complying with NFPA 101.	Within 1 month
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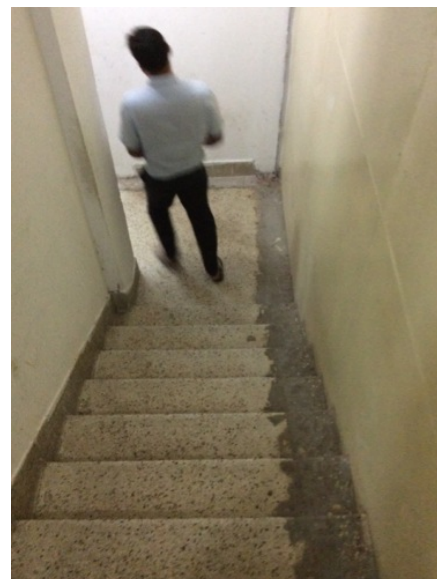
F-11	Egress	Evacuation plan on Seventh floor of Unit 1 does not indicate use of the second exit (marked as exit) that leads to an exit stair at the roof of Unit 2.	Update evacuation plans to indicate relevant exits and to provide adequate exit knowledge.	Within 1 month
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F-12	Egress	Handrails are not provided in the exit stair.	Provide handrails on at least one side of exit stair.	Within 3 months
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Locations:

- Exit stair shared by Unit 2 and Unit 3.
- Exit stair in Unit 3.





F-13	Egress	Exit discharge path from exit stair shared by Unit 2 and Unit 3 is a covered egress court less than 10 feet wide.	Remove covered area and provide minimum 1-hr fire-rated factory exterior wall up to 10ft above grade. OR Provide a 1- or 2-hr fire-rated enclosure (exterior building wall and covering) commensurate with the exit enclosure rating. Seal and/or protect all openings to maintain the required fire separations.	Within 3 months
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F-14	Egress	The width of egress aisles is less than 36-in.	Provide minimum aisle widths of 36-in.	Within 3 months
		Locations: Ground floor of Unit 1.		
				
F-15	Egress	The exits are not remotely located from each other such that a single fire event could compromise both exits.	Provide additional exit.	Within 6 months
		Locations: Two exits from Ground floor through Sixth floor of Unit 1.		
F-16	Fire Protection	Inspection, testing, and maintenance records for the fire alarm system were not available.	Inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72.	Within 3 months
F-17	Egress Lighting	Storage areas on Ground floor of Unit 1 are dark due to a low level of lighting and storage is stacked above eye level. Illuminated, directional exit signage is not provided.	Provide illuminated, directional exit signage throughout so that the direction of paths of egress are clearly indicated.	Within 1 month



F-18	Egress Lighting	Manual on-off switch is provided for emergency lighting units. Locations: All floors.	Remove manual on/off switches from emergency lighting units to prevent them from being switched off.	Within 1 month
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F-19	Egress Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes. Locations: All areas.	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
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