

FIRE SAFETY INSPECTION REPORT

**LIBERTY KNITWEAR LTD.
RAMARBAGH, KUTUBPUR, FATULLAH,
NARAYANGONJ**

OTHER FACTORIES: NONE



ACCORD
on Fire and Building Safety in Bangladesh

April 10, 2014

SUMMARY

Liberty Knitwear Ltd. was surveyed for fire safety on 4/10/2014 by Hughes Associates, Inc. This summary identifies the major deficiencies that were identified during the inspection.

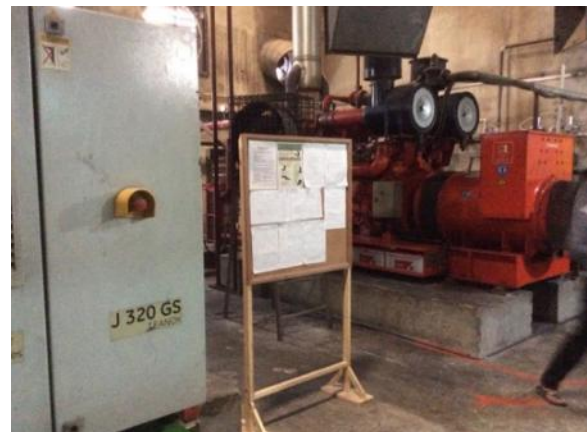
The purpose of this survey was to identify significant fire safety issues and to provide recommendations for remediation based on applicable standards specified by the Accord. The scope of this initial fire safety inspection was limited to the review and identification of major fire safety issues. The 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 generator room is not separated by fire-rated construction and openings, non-rated doors, penetrations.	Separate the generator room by a minimum 2-hr fire-rated construction. Seal and protected all openings to maintain the required fire separations	Within 3 months





F-2	Fire Rated Construction	The boiler room is not separated fire-rated construction and openings, non-rated doors, penetrations.	Separate the boiler room by a minimum 2-hr fire-rated construction. Seal and protected all openings to maintain the required fire separations	Within 3 months
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F-3	Fire Rated Construction	The two 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 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	Areas used for combustible storage on several floors are not 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-5	Fire Rated Construction	The second and third floor bridge leading to the other building are not separated from work areas and other spaces 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.	Within 3 months
			If fire doors are required to be held open for functional reasons, provide automatic-closing devices tied to the fire alarm system.	



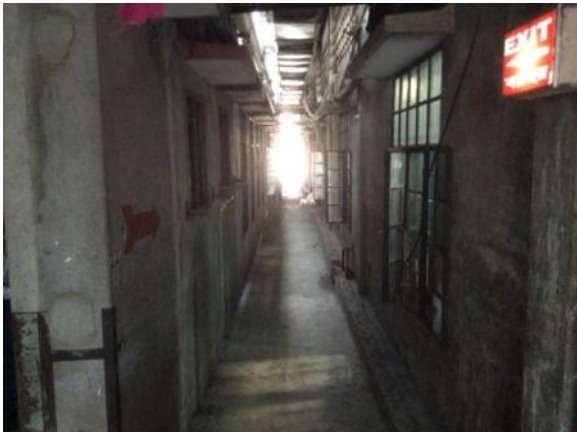
F-6	Fire Rated Construction	The EMR is not separated by fire-rated construction and openings, non-rated doors, penetrations.	Separate the EMR by a minimum 2-hr fire-rated construction. Seal and protected all openings to maintain the required fire separations	Within 3 months
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F-7 Egress

Exit discharge area is not separated by fire-rated construction.

Separate the exit discharge areas by a minimum 2-hr fire-rated construction. Seal and or protected all openings to maintain the required fire separations





F-8	Egress	Storage was located in the exit stair. (ground floor)	Remove all storage from exit stairs and egress paths.	Immediate
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F-9	Egress	Egress doors and gates with locking features are provided a several exit doors and exit stairs.	Remove locking features from all egress doors and gates. If locks are required for security reasons, utilize special door locking features complying with NFPA 101.	Immediate
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F-10	Egress	Storage was located in the exit stairs.	Remove all storage from exit stairs and egress paths.	Immediate
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F-11	Egress	Storage was located in the egress path.	Keep egress paths and stairs clear of storage.	Immediate
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F-12	Egress	Collapsible gates and sliding doors are provided at overall exit doors and exit stairs.	Replace all gates and 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-13	Egress	The width of egress aisles is less than 36-in.	Provide minimum aisle widths of 36-in.	Within 3 months
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F-14	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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F-15	Fire Protection	The fire alarm system is antiquated, not a listed system, and does not provide alarm and notification features consistent with acceptable standards.	Replace the fire alarm system with a new, listed addressable fire alarm system in accordance with NFPA 72.	Design within 4 months, install within 9 months
F-16	Fire Protection	Inspection, testing, and maintenance for the fire alarm system was not accordance with NFPA 72.	Inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72.	Within 3 months
F-17	Fire Protection	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.	Replace the single-station smoke alarms with automatic smoke detectors tied into the fire alarm system. Configure the fire alarm system to initiate occupant notification upon activation of any two smoke detectors in addition to the manual fire alarm stations.	Within 6 months

F-18	Egress Lighting	Exit sign not provided at exit.	Provide exit signs above all exits to the exterior and all doors to the exit stairs.	Within 3 months
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