

FIRE SAFETY INSPECTION REPORT

**STARLIGHT SWEATERS LTD.
VOGRA NATIONAL UNIVERSITY, GAZIPUR, SADAR**

OTHER FACTORIES: NONE



ACCORD
on Fire and Building Safety in Bangladesh

March 22, 2014

SUMMARY

Starlight Sweaters Ltd. was surveyed for fire safety on 3/22/2014 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 exit stairs are not separated from work areas, other spaces on each floor by fire-rated construction. No fire rated doors installed throughout the stairwells.	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





F-2	Fire Rated Construction	Unsealed penetrations and openings are located in the fire-rated floor/ceiling assemblies throughout the building. (electrical shafts).	Provide a minimum 2-hr fire-rated shaft to separate the utility risers from each floor level.	Within 3 months
-----	-------------------------	---	---	-----------------





F-3	Fire Rated Construction	Unsealed penetrations and unprotected openings are located in north exit stairwells enclosures.	Seal all penetrations and openings in exit stair enclosure walls to maintain the fire separation.	Within 3 months
-----	-------------------------	---	---	-----------------





F-4	Fire Rated Construction	The elevator shaft are not separated from work areas on each floor by fire-rated construction due to elevator opening.	Provide minimum 1.5-hr fire rated doors and seal all unprotected openings to separate the elevator shaft from work areas and other building spaces on all floor levels.	Within 3 months
-----	-------------------------	--	---	-----------------





F-5	Fire Rated Construction	The boiler, generator and transformer room on the ground floor is not separated by fire-rated construction (openings, non-rated doors, penetrations).	Separate the boiler, generator and transformer room by a minimum 2-hr fire-rated construction. Seal and/or protected all openings to maintain the required fire separations	Within 3 months
-----	-------------------------	---	---	-----------------





F-6	Fire Rated Construction	Gas fired dryer is not separated from the factory.	Separate the gas fired dryers by a minimum 2-hr fire-rated construction. Seal or protected all openings to maintain the required fire separations	Within 3 months
-----	-------------------------	--	---	-----------------





F-7	Fire Rated Construction	Areas used for combustible storage in several location are not separated by fire-rated construction. Locations; 9th, 8th, 6th, 4th, ground floor.	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
-----	-------------------------	---	--	-----------------



F-8	Fire Rated Construction	Diesel storage area is not separated by fire-rated construction.	Separate the diesel storage by a minimum 2-hr fire-rated construction. Seal and/or protected all openings to maintain the required fire separations.	Within 3 months
-----	-------------------------	--	--	-----------------

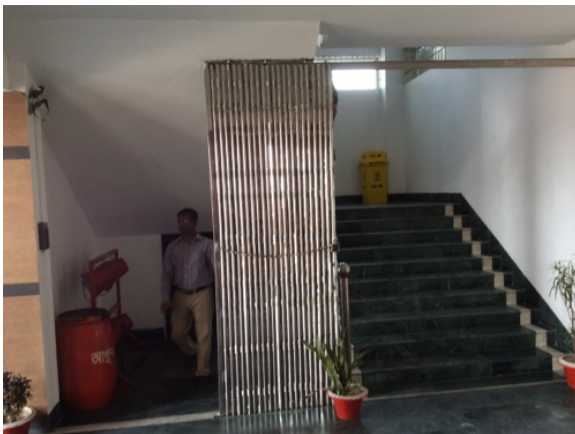


F-9	Egress	Egress doors, exit stair doors, gates with locking features are provided throughout the building. During the inspection all gates and doors are open and unlocked.	Remove locking features from all egress doors / gates. If locks are required for security reasons, utilize special door locking features complying with NFPA 101.	Immediate
-----	--------	--	---	-----------





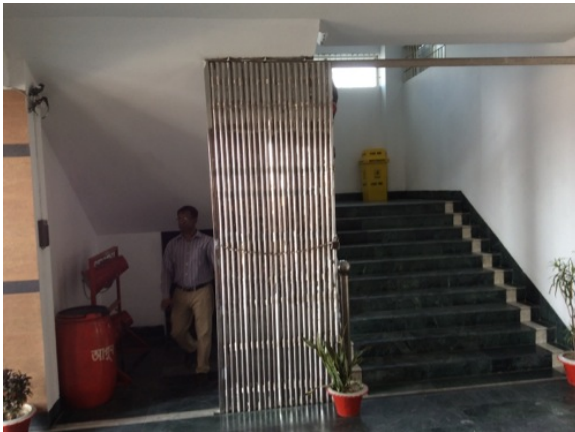
F-10	Egress	Storage is located in all exit stair.	Remove all storage from exit stairs and egress paths.	Immediate
			Provide fire separation and fire rated doors.	





F-11	Egress	Sliding gates / doors are provided throughout the stairwells, building exits, along egress routes, exit discharge.	Replace all gates / sliding doors along the means of egress with side-hinged, swinging egress doors.	Within 1 month
			If locks are required for security reasons, utilize special door locking features complying with NFPA 101.	





F-12	Egress	The width of egress aisles in the 8th floor production area is less than 36-in. Headroom is lower than 60-in. due to indoor AC.	Provide minimum aisle widths of 36-in. and arranges aisle away from indoor AC.	Within 3 months
------	--------	---	--	-----------------





F-13	Egress	Handrails are not provided in the exit stair.	Provide handrails on at least one side of exit stair.	Within 3 months
		Location- NW landing stairwell.		



F-14	Egress	The storages was located at all exit stairs top floors.	Remove all storage from exit stairs and egress paths.	Within 3 months
------	--------	---	---	-----------------



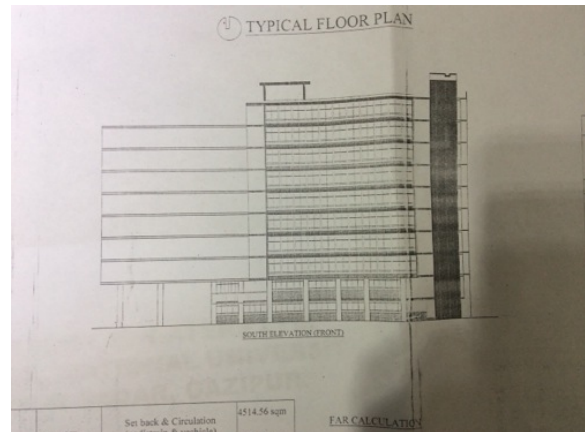
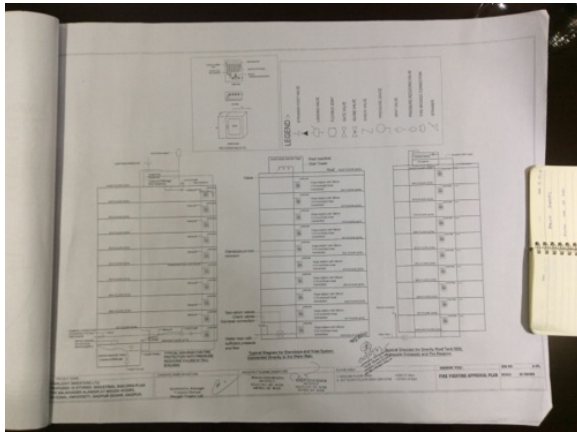
F-15	Egress	NW exit stairs discharge inside the building.	- Modify stair to discharge directly outside. Within 6 months or - Provide 2-hr fire-rated exit passageway leading directly outside (vestibules to separate any storage areas). or - Provide sprinkler protection for discharge floor in accordance with NFPA 13.	
------	--------	---	---	--



F-16	Fire Protection	The fire alarm system is antiquated, not a listed system, and does not provide alarm and notification features consistent with acceptable standards. Automatic smoke detection coverage is incomplete.	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-17	Fire Protection	The high-rise building has an occupied floor greater than 23m (75 ft) and is not provided with automatic sprinkler protection. The large occupant loads, heavy fuel loading, and anticipated extended egress times warrant sprinkler protection.	Provide automatic sprinkler protection throughout the building in accordance with NFPA 13.	Design within 6 months, install within 12 months
------	-----------------	--	--	--



F-18	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-19	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-20	Egress Lighting	The 9th floor office do not have exit sign on both exit doors.	Provide exit signs above all exits.	Within 3 months
------	-----------------	--	-------------------------------------	-----------------



F-21	Egress Lighting	The emergency lighting at the 7th floor NW stair did not function during testing.	Regularly test the emergency lighting system on each floor and replace/repair lights as needed.	Within 3 months
------	-----------------	---	---	-----------------

