

# **FIRE SAFETY INSPECTION REPORT**

## **SHAMRIN TEXTILE LTD.**

**62, Kathgora, Amtola, Ashulia, Dhaka**

**OTHER FACTORIES: YOLK APPARELS LTD,  
AGAMI APPARELS LTD**



**ACCORD**  
on Fire and Building Safety in Bangladesh

August 25, 2014

## **SUMMARY**

**Shamrin Textile Ltd. was surveyed for fire safety on 8/25/2014 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	<p>The boiler room is not separated by fire-rated construction due to non-rated doors and penetrations.</p> <p>One of the boiler room doors was adjacent to the exit discharge of the southwest exit stair.</p>	<p>Separate the boiler room by a minimum 2-hr fire-rated construction. Seal and/or protected all openings to maintain the required fire separations.</p> <p>If the maximum travel distance to an exit is 25 ft., the boiler room door adjacent to the exit discharge of the southwest exit stair can be sealed and a single exit on the south side of the boiler room can be provided. If not, fire-rated doors are required at all boiler room entrances.</p>	Within 3 months





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F-2	Fire Rated Construction	The generator and transformer room is not separated by fire-rated construction due to non-rated doors and penetrations.  The generators are not separated from the transformer.	Separate the generator and transformer room by a minimum 2-hr fire-rated construction. Seal and/or protected all openings to maintain the required fire separations.  Separate the generators from the transformer by 2-hr fire-rated construction.	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 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 northwest exit stair enclosure on every floor.	Provide a minimum 2-hr fire-rated shaft to separate the electrical penetrations to the exit stairs from the factory floors.	Within 3 months
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F-5	Fire Rated Construction	Rooms used for combustible storage are not separated by fire-rated construction. Specifically, the building had dedicated storage rooms on the ground (accessory store, fabric store) and fourth (two (2) finished goods areas) floors.	Provide dedicated storage rooms separated by minimum 1-hr fire-rated construction.	Within 3 months
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F-6	Fire Rated Construction	Areas used for combustible storage, open to the factory floor, were not separated by fire-rated construction. Specifically, storage was open to the factory floor on the fourth 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 23m <sup>2</sup> -If sprinkler protected: maximum height of 3.66m and maximum area of 93m <sup>2</sup>  Separate areas of unenclosed combustible storage by a minimum clear distance of 3m.	Within 3 months
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F-7	Fire Rated Construction	The exit discharge path serving the ground floor, cutting section building exit is less than 10 ft. wide and is not separated from the building interior.	Seal all penetrations and openings to the interior of the building along the discharge path, up to a height of 10 ft., to provide a minimum 1-hr fire separation.  Alternatively, provide a second remote discharge path to a public way.	Within 6 months
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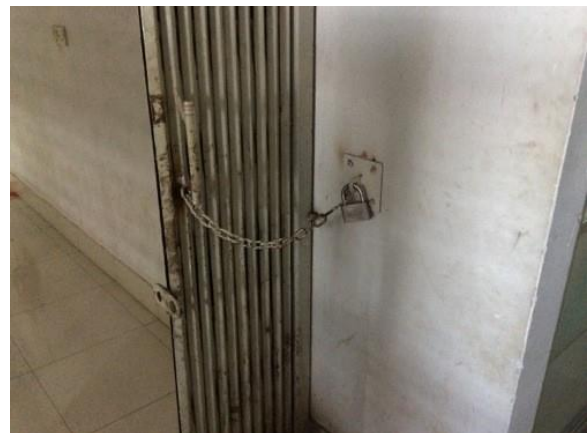






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F-8	Egress	Egress doors and gates with locking features are provided at building exits, exit stairs, along egress routes and at exit discharge. All gates and doors were open and unlocked during the inspection.	Remove locking features from all egress 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-9	Egress	<p>Storage was located in each exit stair. Specifically, trash bins were located throughout all exit stairs, the southwest exit stair had storage racks at the main floor landings from the ground to third floor and a security room on the ground floor, and the northwest exit stair had a washroom on the ground floor.</p>	<p>Remove all storage from exit stairs and egress paths.</p>	<p>Immediate</p>
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F-10 Egress

Collapsible gates and sliding doors are provided at building exits, exit stairs, along egress routes and at exit discharge.

Replace all gates and 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.



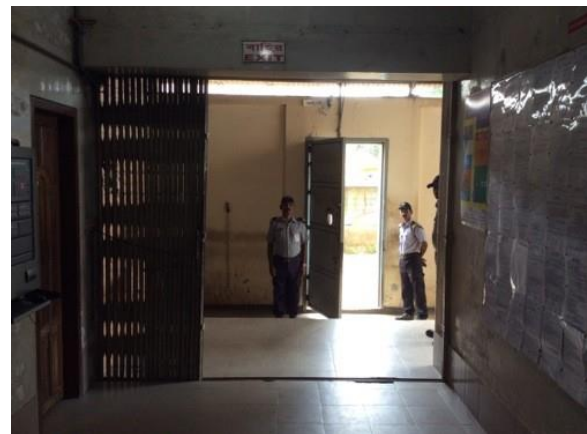


F-11 Egress

The two (2) egress doors from the ground floor cutting section, the egress doors after exit discharge from the southwest and northwest exit stairs and the two (2) egress doors from the fourth floor sample section did not swing in the direction of egress.

Modify the egress door to swing in the direction of egress travel.

Within 3 months





F-12 Egress

The exits from the fourth floor dining area are not remotely located from each other such that a single fire event could compromise both exits.

Provide additional, remote exit.

Within 6 months



F-13	Fire Protection	When tested during the inspection, the new addressable fire alarm system did not alarm immediately when tested (took several minutes).	Test the addressable fire alarm system for functionality and ensure that all components function properly. Repair any non functioning components or electrical connections as needed.	Within 1 month
F-14	Fire Protection	The older fire alarm system is antiquated, not a listed system, and does not provide alarm and notification features consistent with acceptable standards.	Remove the old fire alarm system.	Within 3 months



F-15	Fire Protection	Based off observation, it did appear that the existing interconnected detectors were not adequately provided.	Based on ceiling configuration, provide additional detectors where needed, and space them in accordance with NFPA 72.	Within 3 months
F-16	Fire Protection	Inspection, testing, and maintenance of the fire alarm system is not in 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	No records of inspection, testing, and maintenance of the automatic sprinkler system were provided at the time of the inspection.	Inspect, test and maintain the automatic sprinkler system, and keep written records on-site, in accordance with NFPA 25.	Within 3 months
F-18	Egress Lighting	Not all exit signs were in working order (burned out, broken, etc.). Specifically, the exit sign to the fourth floor exit stair and the two (2) exit signs from the fourth floor sample section were not light.	Regularly inspect all exit signage and replace/install lights as needed to illuminate signs.	Within 1 month



F-19	Egress Lighting	<p>Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along all egress routes.</p> <p>Also, no emergency lighting was provided in the southeast exit stair.</p>	<p>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.</p> <p>Provide emergency lighting in the southeast exit stair.</p>	Within 3 months
F-20	Egress Lighting	<p>Inspection, testing, and maintenance for the emergency lighting system was not in accordance with The ACCORD standard.</p>	<p>Inspect, test and maintain the emergency lighting system in accordance with The ACCORD standard. Keep written records on-site.</p>	Within 3 months