

# **FIRE SAFETY INSPECTION REPORT**

**TANZILA TEXTILE LTD**  
**BAROYPARA, ASHULIA, SAVAR, DHAKA**



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

March 19, 2014

## **SUMMARY**

**Tanzila Textile Ltd was surveyed for fire safety on 3/19/2014 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>Hazardous materials / flammable liquid storage area is not separated by fire-rated construction (openings, non-rated doors, penetrations).</p> <p>This was located next to the transformer and generator shed.</p> | Separate the hazardous materials / flammable liquid storage room 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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| F-2 | Fire Rated Construction | The boiler / generator / transformer room is not separated by fire-rated construction (openings, non-rated doors, penetrations). | Separate the boiler / generator / 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 |
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|-----|-------------------------|-----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| F-3 | Fire Rated Construction | The exit stairs are not separated from work areas, other spaces on each floor by fire-rated construction. | <p>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.</p> <p>If fire doors are required to be held open for functional reasons, provide automatic-closing devices tied to the fire alarm system.</p> | Within 3 months |
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| F-4 | Fire Rated Construction | Unsealed penetrations and openings are located in the fire-rated floor/ceiling assemblies. | Provide a minimum 2-hr fire-rated shaft to separate the utility risers from each floor level.   | Within 3 months |
|     |                         |                                                                                            | Seal all penetrations and openings in floor/ceiling assemblies to maintain the fire separation. |                 |





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| F-5 | 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-6                          | Egress | Egress doors / gates with locking features are provided at building exits, exit stairs, along egress routes, and exit discharge. | Remove locking features from all egress doors / gates.<br><br>If locks are required for security reasons, utilize special door locking features complying with NFPA 101. | Immediate |
| Locations:<br>All exit areas |        |                                                                                                                                  |                                                                                                                                                                          |           |





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| F-7 | Egress | Storage was located in the egress path. | Keep egress paths and stairs clear of storage. | Immediate |
|-----|--------|-----------------------------------------|------------------------------------------------|-----------|

Locations:

Ground Floor  
2nd Floor



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| F-8 | Egress | Storage was located in the exit stair. | Remove all storage from exit stairs and egress paths. | Immediate |
|-----|--------|----------------------------------------|-------------------------------------------------------|-----------|



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| F-9 | Egress | <p>Collapsible gates / sliding doors are provided at building exits, exit stairs, along egress routes, exit discharge.</p> <p>Locations:<br/>All exit areas</p> | <p>Replace all gates / sliding doors along the means of egress with side-hinged, swinging egress doors.</p> <p>If locks are required for security reasons, utilize special door locking features complying with NFPA 101.</p> | <p>Within 1 month</p> |
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| F-10 | Egress | The width of egress aisles is less than 36-in. | Provide minimum aisle widths of 36-in. | Within 3 months |
|      |        | locations:<br>Ground floor                     |                                        |                 |

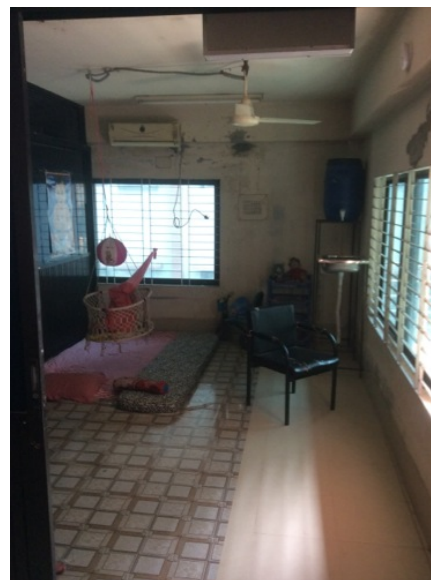
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| F-11 | Egress | The day-care room is located on the second floor in accessory building and is not separated from other uses. | - Provide a minimum 2-hr fire-rated exit corridor between the day-care room and exit stair. | Within 3 months |
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F-12 Egress

Exit stair door does not swing in the direction of egress travel.

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

Within 3 months

1st floor of the accessory building where the day care is located.

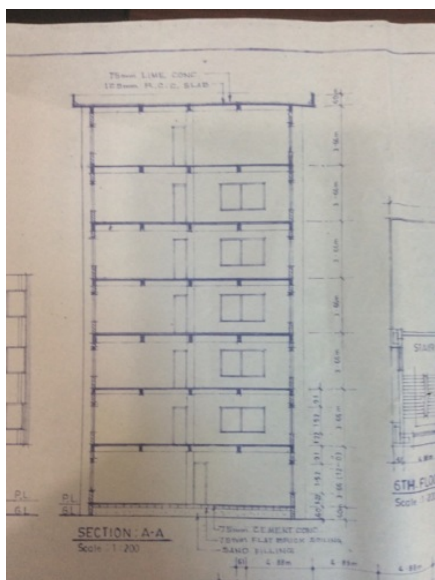


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| F-13 | Fire Protection | The fire alarm system is antiquated, not a listed system, and does not provide alarm and notification features consistent with acceptable standards. | Replace the fire alarm system with a new, listed addressable fire alarm system in accordance with NFPA 72. | Design within 4 months, install within 9 months |
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| F-14 | 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 |
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| F-15 | Fire Protection | Activation of the fire alarm system by a manual fire alarm station provides automatic occupant notification only on the floor of alarm and not throughout the building. | Configure the fire alarm system to initiate automatic occupant notification on all floor levels to facilitate whole-building evacuation upon any manual fire alarm station activation. | Within 1 months |
| 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 | Fire Protection | The fire alarm system does not appear to provide adequate audible notification coverage.<br><br>Functional test was performed.                                          | Provide additional notification appliances such that the fire alarm system is audible throughout the building in accordance with NFPA 72.                                              | Within 6 months |

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| F-18 | 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 |
|------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|

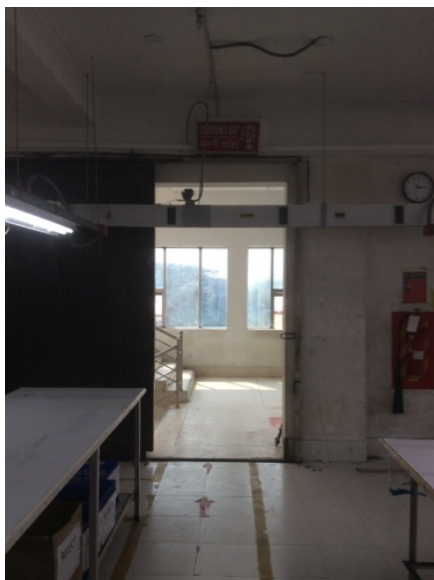
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| F-19 | Egress Lighting | Exit signage not illuminated (burned out, broken, etc.). | Regularly inspect all exit signage and replace/install lights as needed to illuminate signs. | Within 1 month |
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|------|-----------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|----------------|
| F-20 | Egress Lighting | Emergency lighting did not function in test mode (burned out, broken, etc.). | Regularly test the emergency lighting system on each floor and replace/repair lights as needed. | Within 1 month |
|------|-----------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|----------------|

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|------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| F-21 | Egress Lighting | Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes.<br><br>Locations:<br><br>Entire building | 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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