

# **FIRE SAFETY INSPECTION REPORT**

## **HANNAN FASHIONS LTD**

**1153-54, SHAHID SIDDIQUE ROAD, KHAILKUR,  
BOARD BAZAR, GAZIPUR 1704**



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



April 15, 2014

## **SUMMARY**

**Hannan Fashions Ltd 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 ground floor boiler, generator, transformer, and chemical storage sheds have unprotected openings within 30 ft of the factory building.	Separate the boilers, generator, transformer, and chemical storage sheds from adjacent areas by a minimum 2-hr fire-rated construction. Seal and/or protected all openings to maintain the required fire separations.	Within 3 months



F-2	Fire Rated Construction	<p>Areas used for combustible storage are not separated by fire-rated construction. Locations include the Ground Floor, 1st, 2nd, and 3rd floors.</p>	<p>Provide dedicated storage rooms separated by minimum 1-hr fire-rated construction.</p> <p>Where separate storage rooms are not feasible, provide defined storage areas and limit the storage arrangement as follows:</p> <ul style="list-style-type: none"> <li>- Maximum height of 2.4m and maximum area of 23m<sup>2</sup></li> </ul> <p>Separate areas of unenclosed combustible storage by a minimum clear distance of 3m.</p>	Within 3 months
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F-3	Fire Rated Construction	The exit stairs are not separated from 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>	Within 3 months
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If fire doors are required to be held open for functional reasons, provide automatic-closing devices tied to the fire alarm system.



F-4	Fire Rated Construction	Unsealed penetrations and unprotected openings are located in the utility risers.	Provide minimum 1.5-hr fire rated doors and seal all unprotected openings to elevator shafts and utility risers.	Within 3 months
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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	Fire Rated Construction	Diesel storage area is not separated by fire-rated construction (openings, non-rated doors, penetrations).	Separate the diesel storage area 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-7	Fire Rated Construction	The natural gas dryers on the Ground Floor are not separated by fire-rated construction (openings, non-rated doors, penetrations).	Separate the natural gas dryers 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-8	Egress	<p>Egress doors / gates with locking features are provided at building exits, exit stairs, along egress routes, and means of exit discharge.</p> <p>All gates/doors within the factory were open and unlocked during the inspection.</p>	<p>Remove locking features from all egress doors / gates that serve the high-rise.</p> <p>If locks are required for security reasons, utilize special door locking features complying with NFPA 101.</p>	Immediate
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F-9	Egress	<p>Storage was located in the exit stairs.</p>	<p>Remove all storage from exit stairs and egress paths.</p>	Immediate
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F-10 Egress

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

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.

Immediate



F-11	Egress	Common path of egress travel appears to exceed 23 m on the 5th floor (access to the mosque was not available at the time of the survey). Common path of egress travel exceeds 23 m in the yarn storage warehouse.	Reconfigure the egress arrangement to reduce the maximum common path of travel to not more than 23 m or provide an additional exit.	Within 3 months
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F-12	Egress	Electrical panels are located in the exit stairs.	Remove all electrical equipment from the exit stair that does not specifically serve the stair.	Within 3 months
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F-13	Egress	Egress court is less than 10 ft wide.	Separate the interior of the building from the exit path by 1-hr fire rated construction up to a height of 10 ft above grade.	Within 3 months
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F-14	Egress	The west exit stairs discharge inside the building.	Provide a 2-hr fire-rated exit passageway from the exit stairs leading directly outside.	Within 6 months
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F-15	Egress	Exit capacity (501) is not adequate for the 4th floor occupant load (550).	Reduce occupant load to not more than available exit capacity or provide additional exits.	Within 6 months
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F-16	Fire Protection	The fire alarm system is not a listed system, does not provide full coverage smoke detection, 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-17	Fire Protection	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-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 throughout the building that are 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	Fire Protection	The fire alarm system does not provide adequate audible notification coverage.  A 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
F-20	Fire Protection	Fire water tanks on roof are used for fire water and domestic.	Fire water tanks should be dedicated for fire water only.	Within 6 months
F-21	Egress Lighting	Exit signs are not provided on the 5th floor.	Provide exit signs above all exits to the exterior and all doors to the exit stairs.	Within 3 months

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