

FIRE SAFETY INSPECTION REPORT

SAMAD SWEATERS LIMITED
BATTALA ROAD, BOARD BAZAR, GAZIPUR.

OTHER FACTORIES: NONE



ACCORD
on Fire and Building Safety in Bangladesh

April 22, 2014

SUMMARY

Samad Sweaters Limited was surveyed for fire safety on 4/22/2014 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.

Tables 1 - 2 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 - East Building

No.	Category	Finding	Recommendation	Remediation Timeframe
F-1	Fire Rated Construction	The generator room is not separated by fire-rated construction.	Separate the generator room by a minimum 2-hr fire-rated construction. Seal and protect all openings to maintain the required fire separations	Within 3 months



F-2	Fire Rated Construction	On the first, second and third floors, areas used for combustible storage were not separated by fire-rated construction.	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 23 sq.m. Separate areas of unenclosed combustible storage by a minimum clear distance of 3m.	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.	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	Egress	Storage was located in the exit stair in multiple locations.	Remove all storage from exit stairs and egress paths.	Immediate
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F-5	Egress	Compressed natural gas and gas storage was located in the egress path without separation. Egress paths were obstructed in the Linking Shed.	Keep egress paths and stairs clear of storage.	Immediate
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F-6	Egress	Egress doors / gates with locking features were provided at building exits, exit stairs, along egress routes, exit discharge.	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
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F-7	Egress	Collapsible gates and sliding doors are provided at building exits, exit stairs, along egress routes, 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.	Within 1 month
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F-8	Egress	The width of egress aisles were less than 36-in. on the ground and second floor.	Provide minimum aisle widths of 36-in.	Within 3 months
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F-9	Egress	All the exit stairs discharges into an interior egress court that is not adequately protected.	Provide 2-hr fire-rated exit passageway leading directly outside.	Within 6 months
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F-10	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-11	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-12	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.	Remove single-station smoke alarms. Provide automatic smoke detection throughout the building, tied into the fire alarm system, in accordance with NFPA 72.	Within 6 months



F-13	Egress Lighting	Directional exit signs not pointing in the direction of the most immediate exit access were observed during the inspection.	Replace the incorrect pointing directional exit signs with directional signs pointing in the direction of the most immediate exit access.	Within 1 month
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F-14	Egress Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes.	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
F-15	Egress Lighting	Inspection, testing, and maintenance records for the emergency lighting system were not available.	Inspect, test and maintain the emergency lighting system in accordance with The ACCORD standard. Keep written records on-site.	Within 3 months

Table 2. Findings And Recommendations - West Building

No.	Category	Finding	Recommendation	Remediation Timeframe
F-1	Fire Rated Construction	The boiler and generator room is not separated by fire-rated construction.	Separate the boiler and generator room by a minimum 2-hr fire-rated construction. Seal and protect all openings to maintain the required fire separations	Within 3 months



F-2	Fire Rated Construction	On the ground and fourth floor, areas used for combustible storage are not separated by fire-rated construction.	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 23 sq.m. Separate areas of unenclosed combustible storage by a minimum clear distance of 3m.	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.	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 fire-rated floor/ceiling assemblies.	Provide a minimum 2-hr fire-rated shaft to separate the utility risers from each floor level. Seal all penetrations and openings in floor/ceiling assemblies to maintain the fire separation.	Within 3 months
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F-5	Egress	Storage was located in the exit stair in multiple locations.	Remove all storage from exit stairs and egress paths.	Immediate
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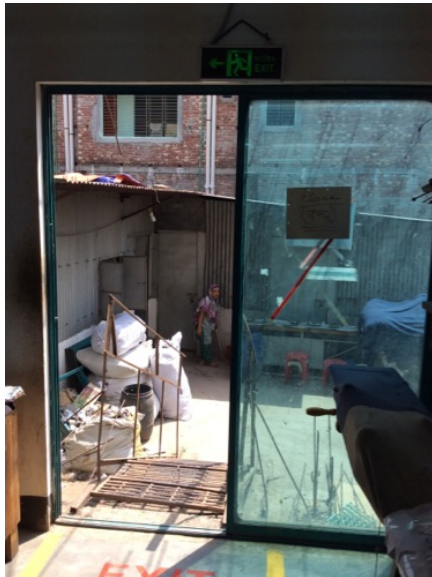
F-6	Egress	Compressed natural gas and gas storage was located in the egress path without separation.	Keep egress paths and stairs clear of storage.	Immediate
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F-7	Egress	Exit access impeded by thresholds and reduced doors and exit drops without stair.	Remove the impediments	Within 1 month
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F-8	Egress	Collapsible gates and sliding doors are provided at building exits, exit stairs, along egress routes, 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.	Within 1 month
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F-9

Egress

The width of egress aisles and exit doors were less than 36-in. and 32-in. at multiple locations on the ground and third floor.

Provide minimum aisle widths of 36-in.

Within 3 months



F-10	Egress	Exit stair door in the first floor from office and egress door of the iron and washing shade does not swing in the direction of egress travel.	Modify the egress door to swing in the direction of egress travel.	Within 3 months
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F-11	Egress	The exit stair in the south east discharges into an interior egress court that is not adequately protected.	Provide 2-hr fire-rated exit passageway leading directly outside (vestibules to separate any storage areas).	Within 6 months
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F-12	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-13	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-14	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.	Remove single-station smoke alarms. Provide automatic smoke detection throughout the building, tied into the fire alarm system, in accordance with NFPA 72.	Within 6 months



F-15	Egress Lighting	Directional exit signs not pointing in the direction of the most immediate exit access were observed on the ground floor.	Replace the incorrect pointing directional exit signs with directional signs pointing in the direction of the most immediate exit access.	Within 1 month
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F-16	Egress Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes.	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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F-17	Egress Lighting	Inspection, testing, and maintenance records for the emergency lighting system were not available.	Inspect, test and maintain the emergency lighting system in accordance with The ACCORD standard. Keep written records on-site.	Within 3 months
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