

FIRE SAFETY INSPECTION REPORT

GLOBAL OUTWEAR LTD.

PLOT # M/1, ROAD # 7, SECTION # 7, MIRPUR, DHAKA



ACC  **RD**
on Fire and Building Safety in Bangladesh

March 3, 2014

SUMMARY

Global Outwear Ltd. was surveyed for fire safety on 3/3/2014 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 |
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| F-1 | Fire Rated Construction | <p>The boiler / generator and transformer room is not separated by fire-rated construction and is open to each other in the one service room openings, non-rated doors and penetrations all present located on the ground floor.</p> <p>The services room is open to the factory floor due to no adequate fire rated construction i.e. penetrations and door openings.</p> | <p>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</p> | <p>Within 3 months</p> |





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| F-2 | Fire Rated Construction | <p>Areas used for combustible storage are not separated by fire-rated construction on the main store located on the ground floor and minor storage spaces throughout the factory. No adequate fire rated doors and penetrations present.</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"> - Maximum height of 2.4m and maximum area of 23m² - If sprinkler protected: maximum height of 3.66m and maximum area of 93m² <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 | Unsealed penetrations and openings are located in the fire-rated floor/ceiling assemblies to each floor located at all service shaft zones, daylight can be seen through each level allowing smoke to rise up each floor in the event of a fire. | 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-4 | Fire Rated Construction | Unsealed penetrations and openings are located in all exit stair enclosures i.e electrical cabling service shafts open, open walling above doors and walls with no windows allowing smoke to rise up stairwell shaft. | Seal all penetrations and openings in exit stair enclosure walls to maintain the fire separation. | Within 3 months |
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| F-5 | Fire Rated Construction | Voltage stabilizer and IPS system located beneath stairwells, area is not separated by fire-rated construction (openings, non-rated doors, penetrations). | Separate the electrical supply 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-6 | Egress | <p>All egress steel sliding gates have locking features located at all exits on floor plates, storage areas and main egress routes to assembly points. All doors were open and unlocked during the inspection.</p> | <p>Remove locking features from all egress doors / gates.</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-7 | Egress | Combustable storage was located in the East most facing exit stair. | Remove all storage from exit stairs and egress paths. | Immediate |
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| F-8 | Egress | Collapsible gates are provided at all building exits, exit stairs, along egress routes and main 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 is less than 36-in, due to employees desks and work type storage of completed garments is being placed in a basket on the egress path, this path must be kept clear to a minimum of 36 inch. | Provide minimum aisle widths of 36-in. | Within 3 months |
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| F-10 | Egress | <p>Two (2) Exit stairs discharge inside the building.</p> <p>The East stairwell discharges to ground floor, the closest main exit is shared with the South stair and is 65ft away with no adequate 2 hour fire protection in place.</p> <p>The North most stair gives egress from the 10th and 9th floor to the 8th floor however this opens to the factory floor and the next main egress is 20 ft away with no adequate fire construction/protection. See attached floor plan for better understanding of layout.</p> | <p>Specify appropriate upgrade based on conditions:</p> <ul style="list-style-type: none"> - Provide 2-hr fire-rated exit passageway leading directly outside (vestibules to separate any storage areas). | <p>Within 6 months</p> |
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| F-11 | 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-12 | Fire Protection | It was observed that 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-13 | 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 |
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| F-14 | Fire Protection | The fire alarm system does not appear to provide adequate audible notification coverage. | 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-15 | 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-16 | Egress Lighting | Manual on-off switch is provided for battery backup emergency lighting/exit signage units. | Remove manual on/off switches from emergency lighting/exit signage units to prevent them from being switched off. | Within 1 month |
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| F-17 | Egress Lighting | Emergency lighting did not function in test mode throughout all stairwells suggesting maintenance plans not being carried out as stated.(burned out, broken, etc. | Regularly test the emergency lighting system on each floor and replace/repair lights as needed. | Within 3 months |
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