

FIRE SAFETY INSPECTION REPORT

GH HAEWAE CO, LTD.

**PLOT NO. 19-24, SECTOR-8 EXPORT PROCESSING
ZONE CHITTANGONG.**

OTHER FACTORIES: NONE.



ACCORD
on Fire and Building Safety in Bangladesh

August 21, 2014

SUMMARY

GH Haewae Co, Ltd. was surveyed for fire safety on 8/21/2014 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 - Building # 1.

No.	Category	Finding	Recommendation	Remediation Timeframe
F-1	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



F-2	Fire Rated Construction	Areas used for combustible storage are not separated by fire-rated construction. (2nd,3rd and 4th 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 23m² - If sprinkler protected: maximum height of 3.66m and maximum area of 93m² 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	Rooms used for combustible storage are not separated by fire-rated construction. (1st and 2nd floor).	Provide dedicated storage rooms separated by minimum 1-hr fire-rated construction.	Within 3 months
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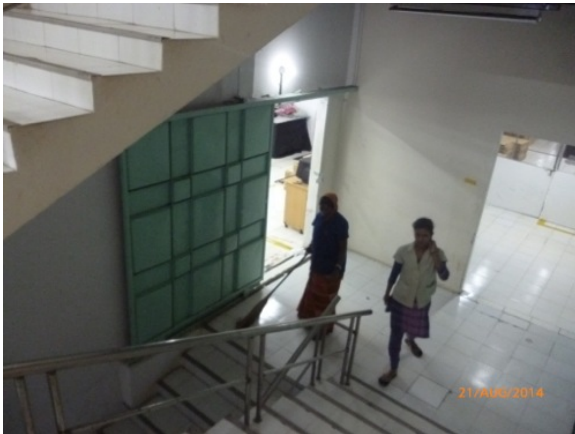
F-4	Egress	Egress doors with locking features are provided at building exits, exit stairs and along egress routes. All doors were open and unlocked during the inspection.	Remove locking features from all egress doors. If locks are required for security reasons, utilize special door locking features complying with NFPA 101.	Immediate
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F-5	Egress	Storage was located in both exit stair.	Remove all storage from exit stairs and egress paths.	Immediate
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F-6	Egress	Collapsible sliding doors are provided at building exits, exit stairs and along egress routes.	Replace all 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-7	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-8	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-9	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-10	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



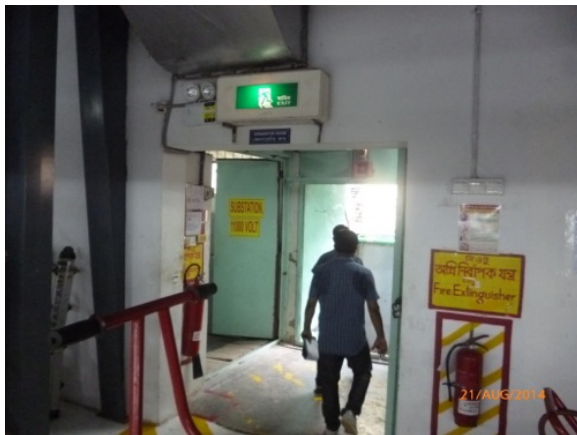
F-11	Fire Protection	During functional test it was observe that the fire alarm system does not appear to provide adequate audible notification coverage.	Provide additional notification appliances such that the fire alarmsystem is audible throughout the building in accordance with NFPA 72.	Within 6 months
F-12	Egress Lighting	Several 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



F-13	Egress Lighting	Inspection, testing, and maintenance for the emergency lighting system was not in accordance with The ACCORD standard.	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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Table 2. Findings And Recommendations - Building # 2.

No.	Category	Finding	Recommendation	Remediation Timeframe
F-1	Fire Rated Construction	The boiler, generator and transformer rooms are not separated by fire-rated construction (openings, non-rated doors, penetrations).	Separate the boiler, generator and transformer rooms 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	Areas used for combustible storage are not separated by fire-rated construction on all 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 23m² - If sprinkler protected: maximum height of 3.66m and maximum area of 93m² Separate areas of unenclosed combustible storage by a minimum clear distance of 3m.	Within 3 months
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F-3	Egress	Egress doors with locking features are provided at building exits, exit stairs and along egress routes. All doors were open and unlocked during the inspection.	Remove locking features from all egress doors. If locks are required for security reasons, utilize special door locking features complying with NFPA 101.	Immediate
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F-4	Egress	Storage was located in all exit stair.	Remove all storage from exit stairs and egress paths.	Immediate
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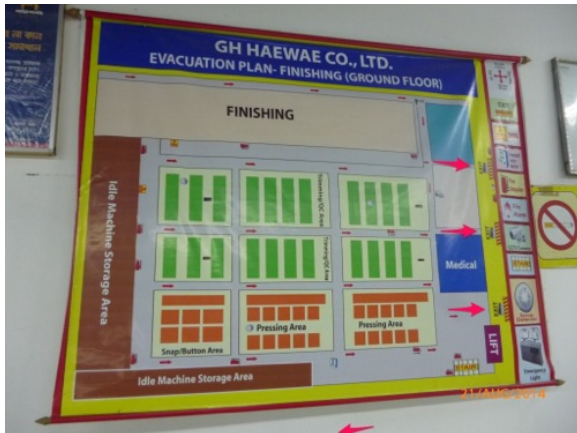


F-5	Egress	Exit capacity (950) on 1st floor is not adequate for the occupant load (1350).	Reduce occupant load to not more than available exit capacity (950). Or Provide additional exits.	Immediate
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F-6	Egress	Storage and equipment was located in the egress path.	Keep egress paths and stairs clear of storage.	Immediate
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F-7	Egress	The exits are not remotely located from each other such that a single fire event could compromise both exits. (Ground floor North side)	Provide additional exits on other side of this room..	Within 6 months
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F-8	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-9	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-10	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-11	Fire Protection	During functional test it was observe that the fire alarm system does not appear to provide adequate audible notification coverage. (Offices, Childcare and Doctor room).	Provide additional notification appliances such that the fire alarmsystem is audible throughout the building in accordance with NFPA 72.	Within 6 months
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F-12	Egress Lighting	Several 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-13	Egress Lighting	Exit sign not provided at exit on storage area.	Provide exit signs above all exits to the exterior and all doors to the exit stairs.	Within 1 month
F-14	Egress Lighting	Inspection, testing, and maintenance for the emergency lighting system was not in accordance with The ACCORD standard.	Inspect, test and maintain the emergency lighting system in accordance with The ACCORD standard. Keep written records on-site.	Within 3 months