

FIRE SAFETY INSPECTION REPORT

**HAESONG KOREA
HAN COMPLEX (GROUND FLOOR), BARA
RANGAMATIA, ZIRABO**

OTHER FACTORIES: NONE



ACCORD
on Fire and Building Safety in Bangladesh



June 23, 2014

SUMMARY

Haesong Korea was surveyed for fire safety on 6/23/2014 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 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. Location: All floors.	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 23m ² - If sprinkler protected: maximum height of 3.66m and maximum area of 93m ² 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	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
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F-4	Fire Rated Construction	Storage rooms used for combustible storage are not separated by fire-rated construction.	Provide dedicated storage rooms separated by minimum 1-hr fire-rated construction.	Within 3 months
		Location: Storage rooms adjacent to stairs and other storage rooms at all floors.		



F-5	Fire Rated Construction	The boiler, generator, transformer, and EMR rooms are not separated by fire-rated construction (openings, non-rated doors, penetrations).	Separate the boiler, generator, transformer, and EMR rooms by a minimum 2-hr fire-rated construction. Seal and/or protected all openings to maintain the required fire separations	Within 3 months
		Location: Ground floor on the east end.		



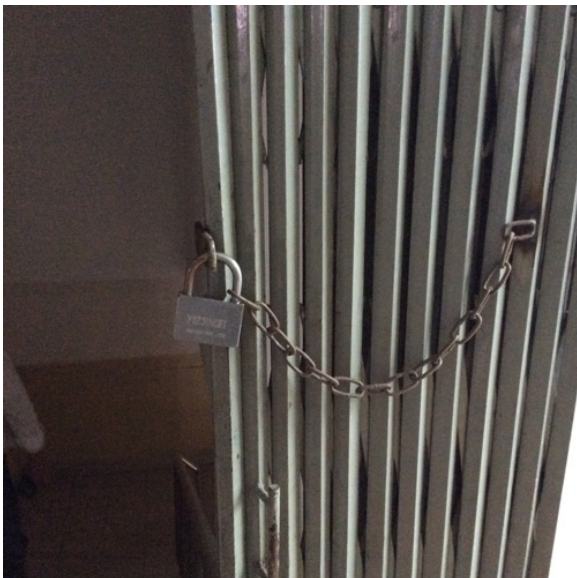
F-6	Fire Rated Construction	The area of large gas-fired dryers is not separated by fire-rated construction (openings, non-rated doors, penetrations). There is combustible storage in the same area.	Separate the gas-fired dryer room by a minimum 2-hr fire-rated construction. Seal and/or protected all openings to maintain the required fire separations. Do not store combustible materials in the room.	Within 3 months
		Location: Ground floor in the southeast corner.		



F-7	Fire Rated Construction	The exit discharge path the southeast exit stair is less than 10 ft wide and is not separated from the building interior, including the boiler room and warehouse.	Seal all penetrations and openings to the interior of the building along the discharge path, up to a height of 10 ft., to provide a minimum 1-hr fire separation.	Within 6 months
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F-8	Egress	Egress doors / gates with locking features are provided at building exits, exit stairs, and exit discharge. Location: All floors.	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-9	Egress	Storage was located in the exit stair. Location: All stairs at several floors.	Remove all storage from exit stairs and egress paths.	Immediate
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F-10	Egress	Collapsible gates / sliding doors are provided at building exits, exit stairs, and exit discharge.	Replace all gates / sliding doors along the means of egress with side-hinged, swinging egress doors.	Within 1 month
		Location: All floors.	If locks are required for security reasons, utilize special door locking features complying with NFPA 101.	



F-11 Egress

Exit stair doors do not swing in the direction of egress travel.

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


Within 3 months

Location: At 3rd floor and below at the southeast and northwest stairs.



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
F-13	Fire Protection	Inspection, testing, and maintenance for the fire alarm system were 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 in accordance with NFPA 72.	Within 6 months



F-15	Egress Lighting	Manual on-off switch is provided for emergency lighting units. Location: Exit stairs.	Remove manual on/off switches from emergency lighting units to prevent them from being switched off.	Within 1 month
				
F-16	Egress Lighting	Inspection, testing, and maintenance for the emergency lighting system were 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
F-17	Egress Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes. Location: All floors. Warehouse has not lights.	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

