

FIRE SAFETY INSPECTION REPORT

TOKIO MODE LTD.

**98/173 CHOYDANA, NATIONAL UNIVERSITY,
GAZIPUR**

OTHER FACTORIES: NONE



ACCORD
on Fire and Building Safety in Bangladesh

May 31, 2014

SUMMARY

Tokio Mode Ltd. was surveyed for fire safety on 5/31/2014 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 boiler, transformer and generator rooms are not separated by fire-rated construction (openings, non-rated doors, penetrations). The transformer and generator rooms are open to egress path.	Separate the boiler, transformer and generator 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 in the ground and 2nd floors 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 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	The exit stairs are not separated from work areas or 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 northeast and east 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-5	Fire Rated Construction	Rooms used for combustible storage in the ground, 2nd, 3rd and roof floors are not separated by fire-rated construction. Also storage rooms on the shed 1 and 3 are not separated by fire-rated construction.	Provide dedicated storage rooms separated by minimum 1-hr fire-rated construction.	Within 3 months
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F-6	Fire Rated Construction	Hazardous materials / flammable liquid storage area on the ground floor is not separated by fire-rated construction (openings, non-rated doors, penetrations).	Separate the hazardous materials / flammable liquid storage room 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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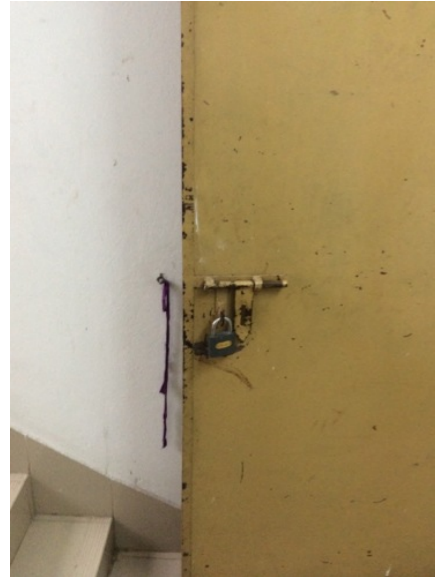
F-7	Fire Rated Construction	Unsealed penetrations and openings in the northwest corner of all floors are located in the fire-rated floor/ceiling assemblies.	Provide a minimum 2-hr fire-rated shaft to separate the utility risers from each floor level.	Within 3 months
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F-8	Fire Rated Construction	Unsealed penetrations and openings are located in the northwest exit stair enclosures. The northwest exit stairs are open to work area.	Seal all penetrations and openings in exit stair enclosure walls to maintain the fire separation.	Within 3 months
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F-9	Egress	Egress doors / gates with locking features are provided at building exits and exit stairs. All gates/doors were open and unlocked during the inspection.	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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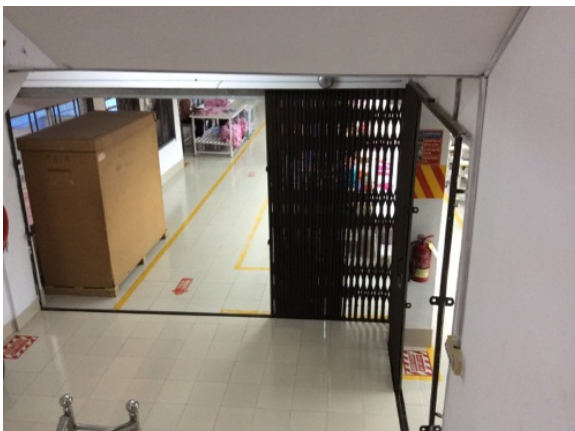


F-10	Egress	Storage was located in the northwest and east exit stairs.	Remove all storage from exit stairs and egress paths.	Immediate
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F-11	Egress	Collapsible gates / sliding doors are provided at building exits and exit stairs.	Replace all gates / sliding doors along the means of egress with side-hinged, swinging egress doors.	Within 1 month
			If locks are required for security reasons, utilize special door locking features complying with NFPA 101.	



F-12	Egress	Exit doors out of the complex building do 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-13	Egress	The east exit stairs in ground floor discharge inside the building.	Provide 2-hr fire-rated exit passageway leading directly outside (vestibules to separate any storage areas).	Within 6 months
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F-14	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-15	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-16	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. Also the shed 1 and 3 do not provide automatic fire alarm and detection system.	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-17	Egress Lighting	Manual on-off switches in several locations are provided for 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-18	Egress Lighting	Exit sign not provided at exit in the office room of 2nd floor.	Provide exit signs above all exits to the exterior and all doors to the exit stairs.	Within 1 month
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F-19	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
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