

FIRE SAFETY INSPECTION REPORT

MASCO INDUSTRIES LTD.

ACCORD ID: 11869

**222-223, KHARTAIL, SHATAISH ROAD, TONGI,
GAZIPUR, BANGLADESH**

OTHER FACTORIES: NONE



ACCORD
on Fire and Building Safety in Bangladesh

October 25, 2015

SUMMARY

Masco Industries Ltd. was surveyed for fire safety on 10/25/2015 by Jensen Hughes. 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	Diesel fuel storage was located inside the generator room.	Remove all diesel fuel storage from the generator room and relocate to the exterior such that the diesel fuel storage is at least 10 ft from required egress paths. If located along egress paths or in a utility building, separate the diesel fuel storage with 2-hr fire rated construction. There shall be no diesel fuel storage in a factory production building.	Immediately
				
F-2	Fire Rated Construction	Electrical panels were located in the northeast exit stair enclosure.	Remove and re-locate all electrical panels from exit stair enclosures.	Within 3 months



F-3	Fire Rated Construction	The fire pump room is not provided with adequate fire separation.	Provide fire pump room with 2 hr rated fire separation when not sprinklered and 1 hr rated fire separation when provided with automatic sprinklers, in accordance with NFPA 20.	Within 3 months
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F-4	Fire Rated Construction	Hazardous materials area on ground floor is not separated by fire-rated construction due to non-rated doors.	Separate the hazardous materials and 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-5	Fire Rated Construction	Rooms used for combustible storage on ground and first floors are not separated by a minimum 1-hr 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	The EMR and compressor rooms are not separated by fire-rated construction due to non-rated doors.	Separate the EMR and compressor rooms by a minimum 2-hr fire rated construction for high rise. Seal and/or protect all openings to maintain the required fire separations. Provide proper ventilation and consult a qualified engineer.	Within 3 months
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F-7	Fire Rated Construction	Exit stairs are not separated from work areas and other spaces on each floor by fire-rated construction due to unprotected openings and penetrations.	Separate the exit stairs from from work areas and other building spaces on all floor levels by minimum 2-hr fire-rated construction. Provide minimum 1.5-hr fire rated doors and seal all unprotected openings and penetrations to maintain the fire separation.	Within 3 months
			Ensure that all fire doors are self-closing and positive latching, and are provided with fire exit (panic) hardware where serving production floors or assembly occupancies. If fire doors are required to be held open for functional reasons, provide automatic-closing devices tied to the fire alarm system.	
			Once fire doors are installed, every door in a stair enclosure serving more than 5 stories shall be provided with re-entry unless it meets ACCORD standard 6.8.3.1.	



F-8	Fire Rated Construction	There were unsealed penetrations located in the northeast exit stair on the eighth floor.	Separate the exit stairs from from work areas and other building spaces on all floor levels by minimum 2-hr fire-rated construction.	Within 3 months
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F-9	Fire Rated Construction	The northeast exit stair on the ground and first floors were open to factory areas due to unenclosed stairwells.	Separate the exit stairs from from work areas and other building spaces on all floor levels by minimum 2-hr fire-rated construction.	Within 3 months
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F-10	Fire Rated Construction	Storage room on first floor discharges directly into exit stair enclosure.	Openings from exit enclosure to storage spaces shall be provided with a vestibule with fire rated construction and openings. Provide a 1.5 hr fire rated door on the exit stair side and a 1-hr fire rated door on the storage room side. Ensure that the fire rating of the vestibule construction matches that of the exit stair enclosure.	Within 3 months
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F-11	Fire Rated Construction	The exit discharge path serving the is less than 10 ft wide and is not separated from the building interior.	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. Alternatively, provide a second remote discharge path to the public way (only include this if feasible).	Within 6 months
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F-12	Egress	Obstructions was located in the all exit stairs.	Remove all obstructions from exit stairs.	Immediately
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F-13	Egress	Collapsible gates and sliding doors are provided at building exits and exit stairs.	Replace all gates and sliding doors along the means of egress with side-hinged, swinging egress doors in accordance with ACCORD standard 6.8.1.	Within 1 month
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F-14	Egress	Exit stairs serve more than 5 stories and do not have required re-entry provisions.	Every door in a stair enclosure serving more than 5 stories shall be provided with re-entry unless it meets ACCORD standard 6.8.3.1.	Within 3 months
F-15	Egress	Handrails are not provided on both sides of the exit stairs.	Provide handrails on both sides of the exit stair and ramp. New handrails shall have a minimum height of 865 mm (34 in.) and a maximum height of 965 mm (38 in.) as measured from the leading edge of the tread. Intermediate handrails shall be provided when the stair width exceeds 2.2 m (87 in.) .	Within 3 months



F-16	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 automatic fire alarm system in accordance with NFPA 72 and ACCORD standards.	Design within 4 months, install within 9 months
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F-17	Fire Protection	The high-rise building has an occupied floor greater than 23m (75 ft). Partial automatic sprinkler protection was provided in the building for the storage room. However, automatic sprinkler protection is required throughout the entire building based on the height of the highest occupiable floor.	Provide automatic sprinkler protection throughout the building in accordance with NFPA 13 and ACCORD standards.	Design within 6 months, install within 12 months
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F-18	Fire Protection	Fire pump installation requires detailed review to confirm compliance with NFPA 20 and ACCORD standards.	Submit as-built drawings, testing records, equipment certification and other relevant documentation to the ACCORD for review and approval.	Within 1 month
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F-19	Fire Protection	Inspection, testing and maintenance for 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 and ACCORD standards.	Within 3 months
F-20	Fire Protection	Fire department connection is not provided.	Provide fire department connection in accordance with ACCORD standard 5.5.4.	Within 3 months
F-21	Fire Protection	Inspection, testing and maintenance of portable fire extinguishers is not in accordance with NFPA 10.	Inspect, test and maintain the portable fire extinguishers and keep written records on-site, in accordance with NFPA 10 and ACCORD standards.	Within 3 months
F-22	Fire Protection	Inspection, testing and maintenance of the fire pump system is not in accordance with NFPA 20.	Inspect, test and maintain the fire pump system and keep written records on-site, in accordance with NFPA 20 and ACCORD standards.	Within 3 months

F-23	Fire Protection	Inspection, testing and maintenance of the standpipe system is not in accordance with NFPA 14.	Inspect, test and maintain the standpipe system and keep written records on-site, in accordance with NFPA 14 and ACCORD standards.	Within 3 months
F-24	Fire Protection	Inspection, testing and maintenance of the automatic sprinkler system is not in accordance with NFPA 25.	Inspect, test and maintain the automatic sprinkler system and keep written records on-site, in accordance with NFPA 25 and ACCORD standards.	Within 3 months
F-25	Fire Protection	Standpipe system is required for the building, which has an occupiable floor 10 m (33 ft) or more above grade.	Install a new class III standpipe system in accordance with ACCORD standard 5.4 and NFPA 14. A class I system shall be permitted in buildings protected throughout by an approved automatic sprinkler system.	Within 6 months



F-26	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 and ACCORD standards.	Within 9 months
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F-27	Egress Lighting	Inspection, testing and maintenance for the emergency lighting system was not in accordance with ACCORD standards.	Inspect, test and maintain the emergency lighting system in the accordance with ACCORD standards. Keep written records on-site.	Within 3 months
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