

FIRE SAFETY INSPECTION REPORT

GMS Textiles Ltd.

ACCORD ID: 23937

Google Coordinate: 24.088447, 90.193864

Tansutrapur, Kaliakoir, Gazipur.

Other Factories: None



Inspected By: Md. Rakibul Alam, Md. Zahidul Islam, Md. Foysal Ahmed, Nainine Nowrose

Date: 13-Jan-2020 & 16 Feb-2020.

Fire Safety Inspection Report

GMS Textiles Ltd.

Introduction:

GMS Textiles Ltd. complex was surveyed for fire safety on 13/01/2020 and 16/02/2020 by The Accord Inspection Team. The purpose of the 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.

Limitations

The information in this fire safety inspection report was obtained during a visit to the facility and during interviews with local factory management. It has not been possible to provide independent verification for all the information and data collected, and, therefore, The Accord cannot accept general responsibility for omissions or errors arising from inaccuracies in this report from the information obtained.

The findings and recommendations in this report are not intended to imply, guarantee, ensure or warrant compliance with any government regulations. Additionally, the results do not imply in any way that compliance with the findings or recommendations as stated in this report will eliminate all hazards, risks or exposures or that hazards, risks or exposures not referred to in this report do not exist. Compliance with the findings and recommendations stated in this report does not relieve the factory owner from obligation to comply with specific project requirements, industry standards, or the provisions of any local government regulations.



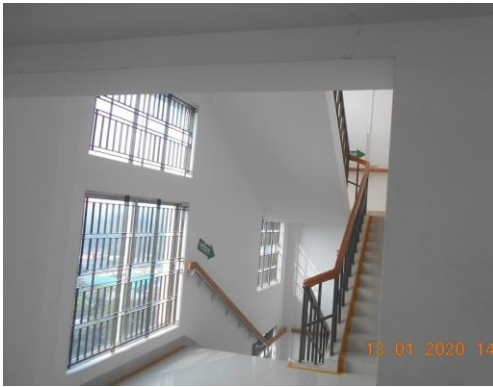
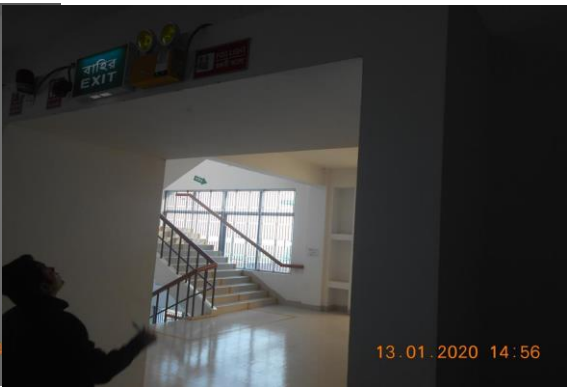
Findings & Recommendations :

Table-1 summarizes the major fire safety issues identified during the inspection of the factory building. 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

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-01	Building-02: Fire Rated Construction	The exit stairs are not separated from [work areas, other spaces] on each floor by fire-rated construction.	Provide minimum 2-hr fire rated construction for buildings 4 storied or more and 1-hr for upto 3 storied. Seal all unprotected openings to separate the exit stairs from work areas and other spaces on all floor levels by 90 minutes for 2 hr construction and 60 minutes for 1-hr construction. Ensure that the fire rated doors are self-closing and positive latching and that they are provided with fire exit (panic) hardware where serving production floors. If fire rated 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 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-02	Building-02 Fire Rated Construction	Elevator is open into an exit stair enclosure.	Openings into an exit enclosure other than unprotected exterior walls shall be limited to those necessary for exit access to the enclosure. In new construction, elevators shall not open into an exit enclosure. Openings from exit enclosures to storage areas, basements, transformer rooms, generator rooms, boiler rooms, and similar normally unoccupied spaces shall be provided with vestibules according to ACCORD standard 6.14.3.	Within 3 months
 				



F-03	Building-02 Fire Rated Construction	Room used for storage of combustible materials is not separated from the surrounding occupancy (dining).	Rooms used for storage of combustible materials shall be separated from the surrounding occupancy with a minimum 1 hour construction.	Within 3 months
				
F-04	Building-02 Fire Rated Construction	Dining and prayer area is not separated by 3-hr fire rated separation from other occupancies (Stores).	Separate the dining and prayer area by a minimum 3-hr fire-rated construction having at least two (2) direct access to exit stair. Seal and/or protected all openings to maintain the required fire separations.	Within 3 months
				



F-05	Building-02 Fire Rated Construction	Areas used for in-process storage of combustible materials are open to the surrounding occupancy (several floors).	Provide defined storage areas and limit the storage arrangement as follows:- 1. General Condition: Maximum height of 2.4m and maximum area of 23m². Separate areas of unenclosed combustible storage by a minimum clear distance of 3m. 2. 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. or 3. Enclose the storage area from the surrounding occupancy with a minimum 1 hour construction.	Within 3 months
				
F-06	Building-02 Fire Rated Construction	Penetrations through floor/ceiling assemblies are found unsealed. Location: Electric Riser	Provide a minimum 2-hr fire rated shaft to separate the utility risers from each floor if required. Seal all penetrations and openings in floor/ceiling (full thickness of the floor/ceiling) assemblies by fire rated through penetration sealant materials to maintain the fire resistance rating.	Within 3 months



				
F-07	Building-02 Fire Rated Construction	The exit discharge path [discharge of exit 05] 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. Or Provide even, smooth and levels exit path with more than 10 ft width. Or Provide a second remote discharge path to the public way (only include this if feasible).	Within 3 months
				



F-08	Building-02 Egress	Doors along means of egress are provided with non compliant locking system.	1. Remove all non compliant locking features from egress doors. 2. If locks are required for security reasons, utilize special door locking features complying with NFPA 101. 3. Doors may be locked where the latch and lock are disengaged with one motion where the occupant load does not exceed 49 persons. 4. Doors may be provided with locking hardware from the ingress side provided that a panic bar is installed on any door with an occupant load exceeding 49 persons.	Immediately
				
F-09	Building-02 Egress	Parapets or guards provided in occupiable roof, height less than 42 inches	Provide parapets or guards with a minimum height of 1067mm (42 inch.).	Within 3 months
F-10	Building-02 Egress	Storage was located in the exit stair enclosure.	Remove all storage and obstruction from exits, exit stairs, egress aisles and egress paths.	Immediately



				
F-11	Building-02 Egress	Width of exit stair is less than 1.5m (60 inches).	Modify the stair to ensure a minimum width of 1.5 m (60 inches) as per ACCORD standard 6.5.6.2.1	Within 4 months
 				
F-12	Building-02 Egress	Re-entry is not available for six storied building.	Every door in a stair enclosure serving more than 5 stories shall be provided with re-entry as per ACCORD standard 6.8.3	Within 1 month



F-13	Fire Alarm & Detection System	The existing fire alarm and detection system is not a listed system and does not provide automatic alarm and notification features consistent with acceptable standards. (Applicable for all structure)	Replace the fire alarm and detection system with a new, listed addressable fire alarm system in accordance with NFPA 72.	Design within 2 months and installation within 4 months
F-14	Inspection, Testing, and Maintenance	Inspection, testing, and maintenance for the fire alarm system is not in accordance with NFPA 72 or as per Accord standard.	Inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with table 14.3.1 of NFPA 72.	Within 7 months
F-15	Fire Protection System	The standpipe system installation requires detailed review to confirm compliance with NFPA 14 and ACCORD standard. (Applicable for all structures which requires standpipe)	Submit as-built drawings, testing records, equipment certification and other relevant documentation to the ACCORD for review and approval/acceptance test.	Design within 2 months and modification within 4 months



F-16	Fire Protection System	The fire pump set installation requires detailed review to confirm compliance with NFPA 20 and ACCORD standard.	Submit as-built drawings, testing records, equipment certification and other relevant documentation to the ACCORD for review and approval/acceptance test.	Design within 2 months and modification within 4 months
F-17	Inspection, testing, and maintenance	Inspection, testing, and maintenance of the standpipe system is not in accordance with NFPA 14 or as per Accord standard.	Inspect, test and maintain the standpipe system, and keep written records on-site, in accordance with NFPA 25 or as per Accord standard.	Within 7 months
F-18	Inspection, testing, and maintenance	Inspection, testing and maintenance of the fire pump system is not in accordance with NFPA 25.	Inspect, test and maintain the fire pump system and keep written records on-site, in accordance with NFPA 25 and ACCORD standards.	Within 3 months
F-19	Building-02 Egress Lighting	Emergency lights not illuminated during testing (burned out, broken, etc.).	Regularly inspect all emergency lighting system as per Accord standard and replace/install lights as needed to illuminate signs.	Within 3 months
F-20	Building-02 Egress Lighting	Directional signs are not provided where direction of the path of travel to an exit has changed.	Illuminated directional signs shall be provided where there is a change in the direction for the path of travel and the direction to an exit is not obvious.	Within 3 months



F-21	Building-02 Egress Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes.	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
				
F-22	Inspection, testing, and maintenance	Inspection, testing, and maintenance for the exit sign and emergency lighting system was not in accordance with The ACCORD standard.	Inspect, test and maintain the exit sign and emergency lighting system in the accordance with The ACCORD standard. Keep written records on-site.	Within 3 months



F-23	Building 03: Fire Rated Construction	Areas used for in-process storage of combustible materials are open to the surrounding occupancy (several floors).	Provide defined storage areas and limit the storage arrangement as follows:- 1. General Condition: Maximum height of 2.4m and maximum area of 23m². Separate areas of unenclosed combustible storage by a minimum clear distance of 3m. 2. 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. or 3. Enclose the storage area from the surrounding occupancy with a minimum 1 hour construction.	Within 3 months
				
F-24	Building 03: Fire Rated Construction	Storage room discharges directly into exit stair enclosures(1st floor, 2nd floor).	Openings from exit enclosure to storage spaces shall be provided with a vestibule with fire rated construction and openings. Provide a 2-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



				
F-25	Building 03: Fire Rated Construction	The exit stairs are not separated from [work areas, other spaces] on each floor by fire-rated construction.	Provide minimum 2-hr fire rated construction for buildings 4 storied or more and 1-hr for upto 3 storied. Seal all unprotected openings to separate the exit stairs from work areas and other spaces on all floor levels by 90 minutes for 2 hr construction and 60 minutes for 1-hr construction. Ensure that the fire rated doors are self-closing and positive latching and that they are provided with fire exit (panic) hardware where serving production floors. If fire rated 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 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-26	Building 03: Fire Rated Construction	Penetrations through floor/ceiling assemblies are found unsealed. Location: Electric Riser, PVC pipe in toilet area	Provide a minimum 2-hr fire rated shaft to separate the utility risers from each floor if required. Seal all penetrations and openings in floor/ceiling (full thickness of the floor/ceiling) assemblies by fire rated through penetration sealant materials to maintain the fire resistance rating.	Within 3 months
		 		
F-27	Building 03: Egress	Parapets or guards provided in occupiable roof, height less than 42 inches	Provide parapets or guards with a minimum height of 1067mm (42 inch.).	Within 3 months



F-28	Egress	Floor designation, occupant load and stair designation sign were not present in the exit stairs (All building where missing).	Provide floor no., maximum & present occupant load, stair designation sign in every stair in all floors	Within 1 month
F-29	Building 04: Fire Rated Construction	The exit stairs are not separated from [work areas, other spaces] on each floor by fire-rated construction.	Provide minimum 2-hr fire rated construction for buildings 4 storied or more and 1-hr for upto 3 storied. Seal all unprotected openings to separate the exit stairs from work areas and other spaces on all floor levels by 90 minutes for 2 hr construction and 60 minutes for 1-hr construction. Ensure that the fire rated doors are self-closing and positive latching and that they are provided with fire exit (panic) hardware where serving production floors. If fire rated 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 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-30	Building 04: Fire Rated Construction	Storage room discharges directly into exit stair enclosures(1st floor, 2nd floor).	Openings from exit enclosure to storage spaces shall be provided with a vestibule with fire rated construction and openings. Provide a 2-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
				
F-31	Building 04: Egress	The discharge path and means of egress (exit) have been interrupted by obstruction/storage.	Means of egress shall be maintained continuously free and clear of all obstructions/storage. Or Keep egress paths and stairs clear of storage.	Immediately





F-32	Building 05: Fire Rated Construction	The exit stairs are not separated from [work areas, other spaces] on each floor by fire-rated construction.	Provide minimum 2-hr fire rated construction for buildings 4 storied or more and 1-hr for upto 3 storied. Seal all unprotected openings to separate the exit stairs from work areas and other spaces on all floor levels by 90 minutes for 2 hr construction and 60 minutes for 1-hr construction. Ensure that the fire rated doors are self-closing and positive latching and that they are provided with fire exit (panic) hardware where serving production floors. If fire rated 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 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-33	Building 05: Fire Rated Construction	Storage room discharges directly into exit stair enclosures(1st floor, 2nd floor).	Openings from exit enclosure to storage spaces shall be provided with a vestibule with fire rated construction and openings. Provide a 2-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
				
F-34	Building 05: Egress	Parapets or guards provided in occupiable roof, height less than 42 inches	Provide parapets or guards with a minimum height of 1067mm (42 inch.).	Within 3 months



F-35	Building 06: Fire Rated Construction	The exit stairs are not separated from [work areas, other spaces] on each floor by fire-rated construction.	Provide minimum 2-hr fire rated construction for buildings 4 storied or more and 1-hr for upto 3 storied. Seal all unprotected openings to separate the exit stairs from work areas and other spaces on all floor levels by 90 minutes for 2 hr construction and 60 minutes for 1-hr construction. Ensure that the fire rated doors are self-closing and positive latching and that they are provided with fire exit (panic) hardware where serving production floors. If fire rated 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 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-36	Building 06: Fire Rated Construction	Areas used for in-process storage of combustible materials are open to the surrounding occupancy.	Provide defined storage areas and limit the storage arrangement as follows:- 1. General Condition: Maximum height of 2.4m and maximum area of 23m². Separate areas of unenclosed combustible storage by a minimum clear distance of 3m. 2. 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. or 3. Enclose the storage area from the surrounding occupancy with a minimum 1 hour construction.	Within 3 months
				
F-37	Building 06: Egress	Parapets or guards provided in occupiable roof, height less than 42 inches	Provide parapets or guards with a minimum height of 1067mm (42 inch.).	Within 3 months
F-38	Building 06: Egress	Landings were not provided as required at 1st floor	A landing shall be provided on both sides of doors used in the means of egress. Door shall not swing out over stairs. Landings with same width as the stair clear width shall be provided at each level and at intermediate landings. Existing landings that are less than the stair width, shall reduce the overall available capacity of the stair as calculated in 6.5.	Within 3 months





F-39	Building 07: Fire Rated Construction	The exit stairs are not separated from [work areas, other spaces] on each floor by fire-rated construction.	Provide minimum 2-hr fire rated construction for buildings 4 storied or more and 1-hr for upto 3 storied. Seal all unprotected openings to separate the exit stairs from work areas and other spaces on all floor levels by 90 minutes for 2 hr construction and 60 minutes for 1-hr construction. Ensure that the fire rated doors are self-closing and positive latching and that they are provided with fire exit (panic) hardware where serving production floors. If fire rated 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 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-40	Building 07: Fire Rated Construction	Room used for storage of combustible materials is not separated from the surrounding occupancy.	Rooms used for storage of combustible materials shall be separated from the surrounding occupancy with a minimum 1 hour construction.	Within 3 months
F-41	Building 07: Fire Rated Construction	Penetrations through floor/ceiling assemblies are found unsealed. Location: Electric Riser	Provide a minimum 2-hr fire rated shaft to separate the utility risers from each floor if required. Seal all penetrations and openings in floor/ceiling (full thickness of the floor/ceiling) assemblies by fire rated through penetration sealant materials to maintain the fire resistance rating.	Within 3 months
				



F-42	Building 07: Egress	Fire evacuation maps is not posted at the entrance of all exit stair. Location: All floors	Fire evacuation maps shall be posted at the entrance to each exit stair.	Within 1 month
F-43	Building 08: Fire Rated Construction	The exit stairs are not separated from [work areas, other spaces] on each floor by fire-rated construction.	Provide minimum 2-hr fire rated construction for buildings 4 storied or more and 1-hr for upto 3 storied. Seal all unprotected openings to separate the exit stairs from work areas and other spaces on all floor levels by 90 minutes for 2 hr construction and 60 minutes for 1-hr construction. Ensure that the fire rated doors are self-closing and positive latching and that they are provided with fire exit (panic) hardware where serving production floors. If fire rated 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 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-44	Building 08: Fire Rated Construction	Unsealed penetrations and openings are located in exit stair enclosures.	Penetrations into and through an exit enclosure shall be prohibited with the exception of required exit doors, sprinkler piping, standpipes, electrical raceway for fire alarm equipment, and electrical conduit serving the exit enclosure. Seal all penetrations and openings in the wall of exit enclosure walls (full thickness of the wall) by fire rated materials to maintain the fire resistance rating.	Within 3 months
-------------	--	--	--	-----------------



F-45	Building 08: Egress	Fire evacuation maps is not posted at the entrance of all exit stair. Location: All floors	Fire evacuation maps shall be posted at the entrance to each exit stair.	Within 1 month
F-46	Building 08: Egress	Doors along means of egress are provided with non compliant locking system.	1. Remove all non compliant locking features from egress doors. 2. If locks are required for security reasons, utilize special door locking features complying with NFPA 101. 3. Doors may be locked where the latch and lock are disengaged with one motion where the occupant load does not exceed 49 persons. 4. Doors may be provided with locking hardware from the ingress side provided that a panic bar is installed on any door with an occupant load exceeding 49 persons.	Immediately

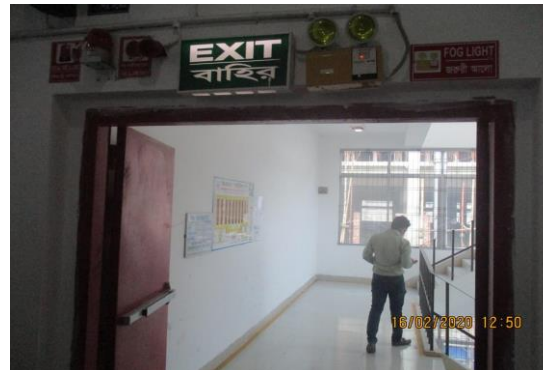




F-47	Building 11 & 17: Structural Fire Protection	Structure is constructed by steel members which is not recognized as fire rated construction material.	Construction of new non-high-rise factories containing G and/or H2 occupancies (factories) shall be Type 1 or Type 2 construction as required in BNBC Part 2 Table 3.2.4. Ensure fire-resistive rated construction following Section 4.4 and Table 4.4.1 of the Accord Standard or Table 3.3.1 and Table 4.1.1 from BNBC Part 4.	Within 6 months
------	--	--	---	-----------------



F-48	Building 12: Fire Rated Construction	The exit stairs are not separated from [work areas, other spaces] on each floor by fire-rated construction.	Provide minimum 2-hr fire rated construction for buildings 4 storied or more and 1-hr for upto 3 storied. Seal all unprotected openings to separate the exit stairs from work areas and other spaces on all floor levels by 90 minutes for 2 hr construction and 60 minutes for 1-hr construction. Ensure that the fire rated doors are self-closing and positive latching and that they are provided with fire exit (panic) hardware where serving production floors. If fire rated 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 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-49	Building 12: Egress	Storage was located in the exit stair.	Remove all storage and obstruction from exits, exit stairs, egress aisles and egress paths.	Immediately
------	------------------------	--	---	-------------





F-50	Building 13: Fire Rated Construction	The exit stairs are not separated from [work areas, other spaces] on each floor by fire-rated construction.	Provide minimum 2-hr fire rated construction for buildings 4 storied or more and 1-hr for upto 3 storied. Seal all unprotected openings to separate the exit stairs from work areas and other spaces on all floor levels by 90 minutes for 2 hr construction and 60 minutes for 1-hr construction. Ensure that the fire rated doors are self-closing and positive latching and that they are provided with fire exit (panic) hardware where serving production floors. If fire rated 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 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-51	Building 13: Egress	A single means of exit has been provided.	Basement/Ground floor 1. Maintain maximum 50 occupants having a travel distance of 23m (75 ft). Or Provide additional exit. First Floor 1. Maintain maximum 30occupants having a travel distance of 23m (75 ft). Or Provide additional exit.	Within 3 months
F-52	Building 14: Fire Rated Construction	Exhaust is not available at RMS Building	Factory shall ensure cross ventilation for the RMS Building/Room.	Immediately



