

FIRE SAFETY INSPECTION REPORT

SQUARE FASHIONS LTD

ROKEYAPUR, JAMIRDIA, HABIR BARI, VALUKA

OTHER FACTORIES: NONE



ACCORD
on Fire and Building Safety in Bangladesh

July 16, 2014

SUMMARY

Square Fashions Ltd was surveyed for fire safety on 7/16/2014 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 - 8 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 chemical store room discharges to the west exit stair at mezzanine 1.	Provide a 2-hr fire-rated vestibule from the storage room to the exit stair with a 1.5-hr fire door on the exit stair side and a 1-hr fire door on the storage room side. Alternately, provide access to the storage room by a route other than by means of the exit stair.	Within 3 months



F-2	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
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F-3	Fire Rated Construction	Areas used for combustible storage, open to the factory floor on the ground and second floors, were 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-4	Fire Rated Construction	Rooms used for combustible storage on the ground (embroidery store, finished goods store), first two (2) sample accessory rooms), and mezzanine 1 (chemical store room) floors were 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-5	Egress	Egress doors with locking features are provided at building exits 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-6	Egress	Storage was located in all exit stairs.	Remove all storage from exit stairs and egress paths.	Immediate
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F-7	Egress	Collapsible gates are provided at building exits.	Replace all gates 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-8	Egress	Egress door from the ground floor washing room does 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-9	Egress	Handrails are not provided throughout the south exit stair.	Provide handrails on at least one side of exit stair.	Within 3 months
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F-10	Fire Protection	During the inspection, many of the detectors observed still had covers on them that were not removed after installation.	Remove the covers from the smoke detectors so that they can function properly.	Immediate
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F-11	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
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F-12	Fire Protection	Based off observations, the existing smoke detectors tied to the fire alarm were not adequately provided.	Based on ceiling configuration, provide additional detectors where needed, and space them in accordance with NFPA 72.	Within 3 months
F-13	Egress Lighting	Lighted exit sign not provided at the ground floor exit from the washing room.	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

F-15	Egress Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along all 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
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Table 2. Findings And Recommendations - Building 2

No.	Category	Finding	Recommendation	Remediation Timeframe
F-1	Fire Rated Construction	The hazardous materials/flammable liquid storage room and area on the ground floor is not separated by fire-rated construction. The room is not separated due to openings and a non-rated doors and the area outside the room is open to the factory floor.	Separate the hazardous materials/flammable liquid storage room and area 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	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
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F-3	Fire Rated Construction	Areas used for combustible storage, open to the factory floor on the ground, first, and second floors, were 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-4	Fire Rated Construction	Rooms used for combustible storage on the ground (engineering store, finished fabrics store), west mezzanine (fabric store), east mezzanine (accessory store), first (fabric store), and second (waste storage room) floors were not separated by fire-rated construction. The entire basement area was dedicated to storage and discharged to all six (6) exit stairs that served the building.	Provide dedicated storage rooms separated by minimum 1-hr fire-rated construction. Provide a 2-hr fire-rated vestibule where a storage room discharges to an exit stair. Provide a 1.5-hr fire door on the exit stair side and a 1-hr fire door on the storage room side.	Within 3 months
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F-5	Fire Rated Construction	The boilers and generators located in the separate Building 2 structure and in Building 4 were not separated from each other by fire-rated construction due to openings. Also, the diesel fire pump in Building 4 was not separated from the boilers/generators or the adjacent 1000 L. diesel storage tank.	Separate the boilers, generator, diesel fore pump, and diesel storage tank from each other 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-6	Fire Rated Construction	The two (2) stentor machines on the ground floor in the east shed extension are not separated by fire-rated construction and open to the surrounding factory areas.	Separate the stentor machines 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	The exit discharge path serving a north door on the ground floor is less than 10 ft wide and is not separated from the sub station 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.	Within 6 months
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F-8	Fire Rated Construction	All exit stairs, excluding the west exit stair, were unenclosed in fire-rated construction on several/all floors	Enclose all exit stairs in 2-hr fire rated construction on all floors.	Within 6 months
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F-9	Egress	Egress doors with locking features are provided at building exits and exit stairs. 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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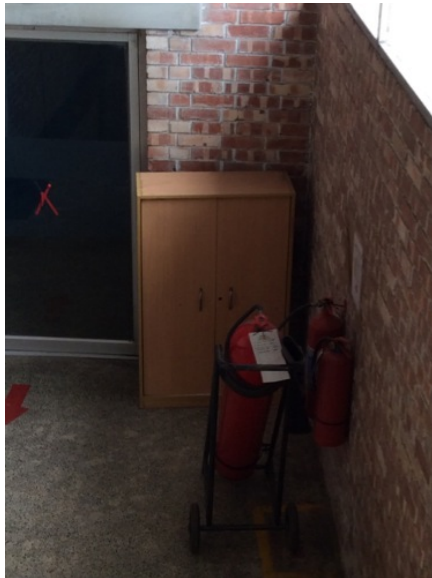
F-10 Egress

Storage was located in all exit stairs.

Remove all storage from exit stairs and egress paths.

Immediate

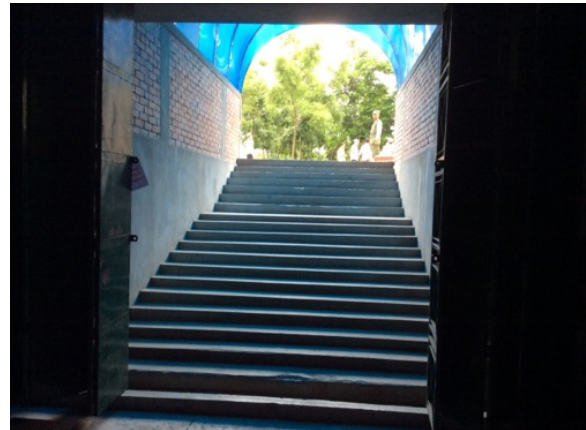
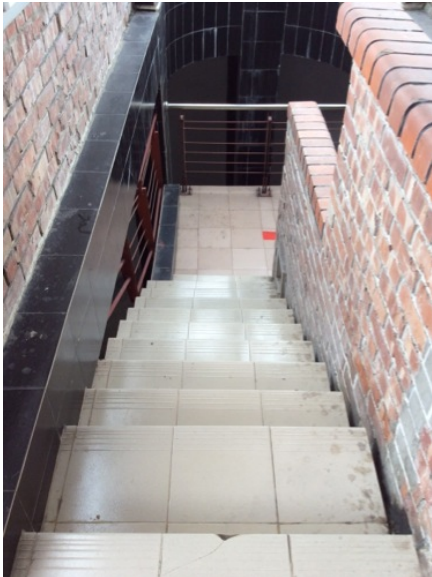




F-11	Egress	Sliding doors are provided along egress routes.	Replace all gates along the means of egress with side-hinged, swinging egress doors.	Within 1 month
		If locks are required for security reasons, utilize special door locking features complying with NFPA 101.		



F-12	Egress	Handrails were missing from the east shed exit stair, a basement exit stair to the exterior, and in the northeast exit stair to the basement.	Provide handrails on at least one side of exit stair.	Within 3 months
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F-13	Egress	Egress travel distance exceeds 200 ft. from a remote location in the ground floor shed extension and in the basement area.	Reconfigure the egress arrangement to reduce the travel distance to not more than 200 ft. in both areas.	Within 3 months
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F-14	Egress	The southwest exit stairs discharge inside the building on the ground floor, adjacent to a store room and offices.	Provide 2-hr fire-rated exit passageway leading directly outside (vestibules to separate any storage areas).	Within 6 months
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F-15	Fire Protection	During the inspection, many of the detectors observed still had covers on them that were not removed after installation.	Remove the covers from the smoke detectors so that they can function properly.	Immediate
				
F-16	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-17	Fire Protection	Based off observations, the existing smoke detectors tied to the fire alarm were not adequately provided.	Based on ceiling configuration, provide additional detectors where needed, and space them in accordance with NFPA 72.	Within 3 months
F-18	Egress Lighting	Lighted exit signs not provided in the entire basement area and from a ground floor exit to the exterior, on the north side of the building.	Provide exit signs above all exits to the exterior and all doors to the exit stairs.	Within 1 month



F-19	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
F-20	Egress Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along all 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

Table 3. Findings And Recommendations - Building 3

No.	Category	Finding	Recommendation	Remediation Timeframe
F-1	Fire Rated Construction	Some of the ground floor and all of the first floor was a warehouse used for combustible storage, the warehouse was not separated by fire-rated construction.	Provide dedicated storage rooms separated by minimum 1-hr fire-rated construction.	Within 3 months
F-2	Egress	Egress doors with locking features are provided at building exits. 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



F-3	Egress	Storage was located in a egress path on the first floor.	Keep egress paths and stairs clear of storage.	Immediate
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F-4	Egress	Sliding doors are provided along egress routes.	Replace all sliding doors along the means of egress with side-hinged, swinging egress doors.	Within 1 month
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If locks are required for security reasons, utilize special door locking features complying with NFPA 101.



F-5	Egress	The width of egress aisles was less than 36-in. in several locations on the first floor.	Provide minimum aisle widths of 36-in.	Within 3 months
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F-6	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
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F-7	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
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F-8	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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F-9	Egress Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along all 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
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Table 4. Findings And Recommendations - Building 5

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. The exterior exit stairs had unprotected openings to the building interior adjacent to and extending to a distance of 10 ft. beyond the ends of the exit stair.	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. Seal all unprotected openings to the building interior, adjacent to and extending at a distance of 10 ft. beyond the ends of the east, exterior exit stair.	Within 3 months



F-2	Fire Rated Construction	The interior exit stairs were not enclosed in fire-rated construction on any floor.	Enclose the interior exit stairs in 2-hr fire-rated construction on all floors.	Within 3 months
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F-3	Fire Rated Construction	The elevator serving the ground to second floor was not enclosed in fire-rated construction on any floor.	Enclose the elevator in 2-hr fire rated construction on all floors.	Within 3 months
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F-4	Egress	Egress doors with locking features are provided at building exits. 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 the southeast exit stair on the ground floor.	Remove all storage from exit stairs and egress paths.	Immediate
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F-6	Egress	Sliding doors are provided at building exits.	Replace all 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-7	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-8	Fire Protection	Based off observations, the existing smoke/heat detectors tied to the fire alarm were not adequately provided.	Based on ceiling configuration, provide additional detectors where needed, and space them in accordance with NFPA 72.	Within 3 months
				
F-9	Egress Lighting	Lighted exit signs were not provided throughout the building.	Provide exit signs above all exits to the exterior and all doors to the exit stairs.	Within 1 month



F-10	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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F-11	Egress Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along all 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
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Table 5. Findings And Recommendations - Building 6

No.	Category	Finding	Recommendation	Remediation Timeframe
F-1	Fire Rated Construction	Areas used for combustible storage, open to the first floor, 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



F-2	Fire Rated Construction	The Building 7 store room discharges to the west exit stair on the first floor.	Provide a 2-hr fire-rated vestibule from the store room to the west exit stair. Provide a 1.5-hr fire door on the exit stair side and a 1-hr fire door on the store room side. Alternately, seal the door with 2-hr fire rated construction.	Within 3 months
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F-3	Fire Rated Construction	The exit discharge path serving the ground floor west building exit is less than 10 ft wide and is not separated from the Building 7 pump house.	Seal all penetrations and openings to the interior of Building 7 along the discharge path, up to a height of 10 ft., to provide a minimum 1-hr fire separation. Provide access to the pump house by an alternate means. Alternately, provide a 1-hr fire door to the pump house.	Within 6 months
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F-4	Egress	Egress doors with locking features are provided along egress routes and at building exits. 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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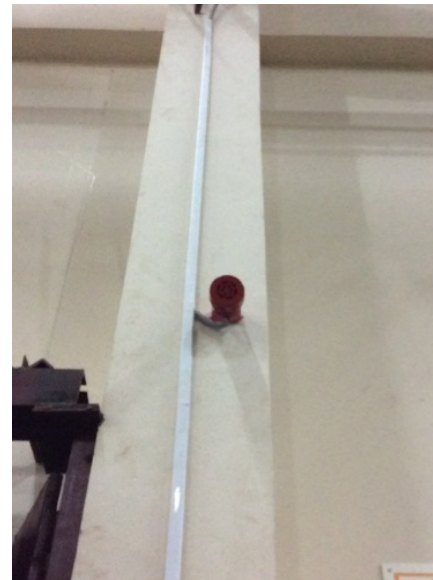
F-5	Egress	Storage was located in the east exit stair at roof level.	Remove all storage from exit stairs and egress paths.	Immediate
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F-6	Egress	Sliding doors and gates are provided at building exits.	Replace all sliding doors along the means of egress 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-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	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
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F-9	Fire Protection	No fire detection system was provided in the building.	Provide automatic smoke detection throughout the building, tied into the fire alarm system, in accordance with NFPA 72.	Within 6 months
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F-10	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
F-11	Egress Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along all 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

Table 6. Findings And Recommendations - Shade 1

No.	Category	Finding	Recommendation	Remediation Timeframe
F-1	Fire Rated Construction	Areas used for combustible storage, open to the factory floor, were 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



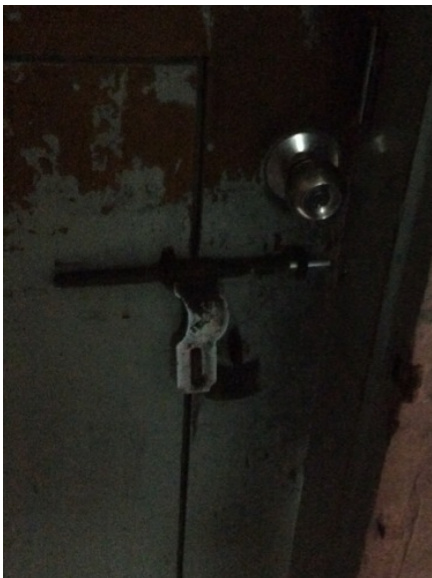


F-2	Fire Rated Construction	The entire finished fabrics and accessory store (ground and top two (2) mezzanines) was a room used for combustible storage and was not separated by fire-rated construction.	Provide dedicated storage rooms separated by minimum 1-hr fire-rated construction.	Within 3 months
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F-3	Egress	Egress doors with locking features are provided at building exits 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 a egress path on the ground floor.	Keep egress paths and stairs clear of storage.	Immediate
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F-5	Egress	The exit capacity of the ground floor (3312) is not adequate for the reported occupant load (4062). An exit sign can be added along an available egress route, which will increase the exit capacity by 197, however an additional 87 in. of exit door width from the ground floor will still be required.	Immediately reduce occupant load of the ground floor to not more than available exit capacity. Alternately, provide additional exits.	Immediate
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F-6	Egress	Sliding doors are provided along egress routes.	Replace all gates along the means of egress with side-hinged, swinging egress doors.	Within 1 month
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If locks are required for security reasons, utilize special door locking features complying with NFPA 101.



F-7	Egress	Both male and female general entrance doors (5 per each entrance) 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-8	Egress	A required exit from the cutting room passes through the finished fabrics and accessory store.	Provide an 2-hr fire-rated exit passageway through to finished fabrics and accessory store to the exterior building discharge. Alternately, provide a separate remote exit from the cutting room.	Within 3 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
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F-10	Fire Protection	Based off observations, the existing smoke detectors tied to the fire alarm were not adequately provided. Only single station smoke alarms were provided on the main factory floor.	Based on ceiling configuration, provide additional detectors where needed, and space them in accordance with NFPA 72.	Within 3 months
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F-11	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.	Within 3 months
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F-12	Egress Lighting	A lighted exit sign to the sewing floor line 50-55 was not provided.	Provide exit signs above all exits to the exterior and all doors to the exit stairs.	Within 1 month
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F-13	Egress Lighting	An exit sign at the east mezzanine was 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-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
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F-15	Egress Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along all 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
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Table 7. Findings And Recommendations - Shade 2

No.	Category	Finding	Recommendation	Remediation Timeframe
F-1	Fire Rated Construction	Areas used for combustible storage, open to the factory on the ground floor, were 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



F-2	Fire Rated Construction	Rooms used for combustible storage on the ground floor (finished fabrics store, yarn store/chemical store) were not separated by fire-rated construction.	Provide dedicated storage rooms separated by minimum 1-hr fire-rated construction. The chemical store does not need to be separated since access to the room is through the yarn store.	Within 3 months
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F-3	Fire Rated Construction	The yarn singeing operation room is not separated by fire-rated construction due to unprotected openings. The room is also provided with an exit sign above one of the two (2) doors that provide access to the room.	Separate the yarn singeing operation room by a minimum 2-hr fire-rated construction. Seal and/or protected all openings to maintain the required fire separations. Remove the exit sign above the entrance to the yarn singeing operation room.	Within 3 months
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F-4	Egress	Egress doors with locking features are provided 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	Sliding doors are provided at building exits and along egress routes.	Replace all gates 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-6	Egress	Egress travel distance exceeds 200 ft. from a remote location on the east side of the building.	Reconfigure the egress arrangement to reduce the travel distance to not more than 200 ft. in both areas.	Within 3 months
F-7	Egress	Exit signs were provided above the entrances to the finished fabrics store and the yarn store. Both of these rooms were dedicated storage rooms.	Provide 2-hr fire-rated exit passageways through the storage rooms to the exterior exit discharge. Alternately, remove the exit signs above the entrances to the storage rooms. Ensure that the exit capacity for the building is still adequate and that travel distance is not exceeded.	Within 3 months

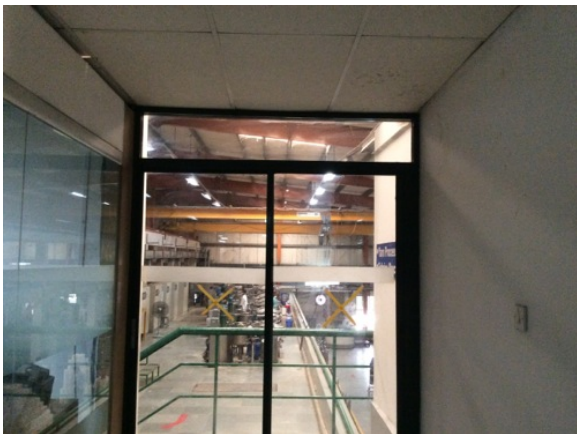


F-8	Fire Protection	Inspection, testing, and maintenance of the fire alarm system is not in accordance with NFPA 72.	Inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72.	Within 3 months
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F-9	Fire Protection	Based off observations, the existing smoke detectors tied to the fire alarm were not adequately provided.	Based on ceiling configuration, provide additional detectors where needed, and space them in accordance with NFPA 72.	Within 3 months
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F-10	Egress Lighting	A lighted exit sign was not provided from the west mezzanine office area.	Provide exit signs above all exits to the exterior and all doors to the exit stairs.	Within 1 month
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F-11	Egress Lighting	Emergency lighting on the factory floor did not function in test mode (burned out, broken, etc.).	Regularly test the emergency lighting system on each floor and replace/repair lights as needed.	Within 1 month
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F-12	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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F-13	Egress Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along all 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
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Table 8. Findings And Recommendations - Shade 3

No.	Category	Finding	Recommendation	Remediation Timeframe
F-1	Egress	Egress doors with locking features are provided at building exits.	Remove locking features from all egress doors. If locks are required for security reasons, utilize special door locking features complying with NFPA 101.	Immediate
				
F-2	Egress	Sliding doors are provided at building exits.	Replace all gates 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



F-3	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
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F-4	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
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F-5	Egress Lighting	A lighted exit sign was not provided to the north building exit.	Provide exit signs above all exits to the exterior and all doors to the exit stairs.	Within 1 month
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F-6	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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F-7	Egress Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along all 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
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