

FIRE SAFETY INSPECTION REPORT

NAFISA APPARELS LIMITED

ACCORD ID: 11945

**PLOT NO: A-9/10/11, BSCIC I/A, KALURGHAT,
CHANDGAON, CHITTAGONG.**

OTHER FACTORIES: NONE



ACCORD
on Fire and Building Safety in Bangladesh

April 4, 2015

SUMMARY

Nafisa Apparels Limited was surveyed for fire safety on 4/4/2015 by Jensen Hughes. This summary identifies the major deficiencies that were identified during the inspection.

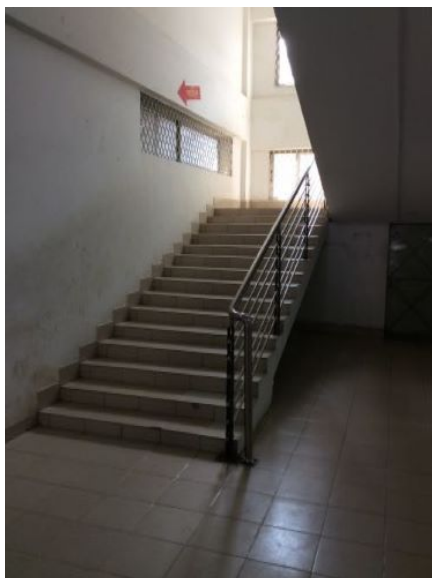
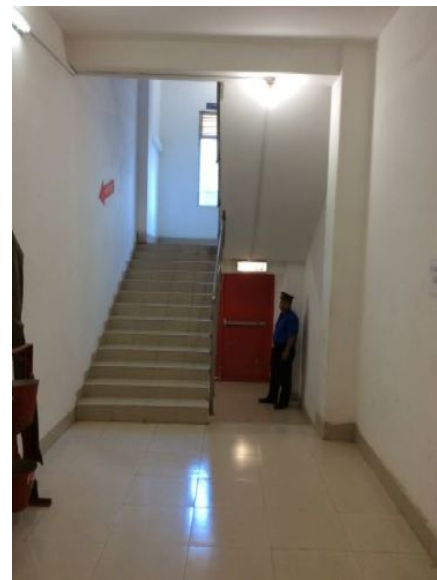
The purpose of this survey was to identify significant fire safety issues and to provide recommendations for remediation based on applicable standards specified by the Accord. The scope of this initial fire safety inspection was limited to the review and identification of major fire safety issues. The 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.

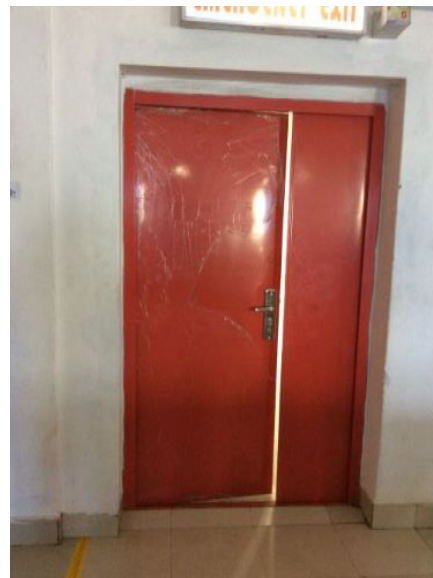
An implementation schedule shall be developed by the factory to remediate each of the findings. The specific timing of improvements, including any requested extensions due to design / installation constraints, shall be submitted to the Accord for approval.

Table 1. Findings And Recommendations

No.	Category	Finding	Recommendation	Remediation Timeframe
F-1	Fire Rated Construction	The exit stair enclosures are not separated from the ground floor by fire-rated construction.	The exit stair enclosure shall be provided with a minimum 2-hr fire resistance rating for buildings 4 or more stories.	Within 3 months



F-2	Fire Rated Construction	The fire-rated doors may not provide adequate separation from work areas and other spaces on each floor to the exit stairs.	Provide minimum 1.5-hr fire rated doors for buildings that are 4 or more stories. 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. 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.	Within 3 months
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F-3	Fire Rated Construction	Electric Pump was located in the south exit stair.	Remove the pump from exit stair.	Within 3 months
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F-4	Fire Rated Construction	Exit access corridors are not provided with 1 hr. fire resistance rating or approved NFPA 13 sprinkler system on the ground floor.	Provide exit access corridors with 1 hr. fire resistance rating or approved NFPA 13 sprinkler system.	Within 3 months
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F-5	Fire Rated Construction	Storage room discharges directly into exit access corridor serving south exit stair.	Openings from exit enclosure to storage spaces shall be provided with a vestibule with fire rated construction and openings. Provide a 1-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 access corridor.	Within 3 months
F-6	Fire Rated Construction	The compressor room is not separated by fire-rated construction due to non-rated doors on the ground floor.	Separate the compressor room by a minimum 1-hr fire-rated construction for non-high rise. Seal and protect all openings to maintain the required fire separations. When located to the exterior of a building, 3m (10 ft.) separation is required. Provide proper ventilation and consult a qualified engineer.	Within 3 months



F-7	Fire Rated Construction	Areas used for combustible storage open to the factory are not separated by fire-rated construction on the fourth and fifth floors.	Provide defined storage areas and limit the storage arrangement as follows: - Maximum height of 2.45m (8ft.) and maximum area of 23m² (250 ft²) - If sprinkler protected: maximum height of 3.66m (12ft.) and maximum area of 93m² (305ft²) Separate areas of unenclosed combustible storage by a minimum clear distance of 3m (10ft.).	Within 3 months
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F-8	Fire Rated Construction	Rooms used for combustible storage are not separated by fire-rated construction on the ground floor.	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 2.45m (8ft.) and maximum area of 23m² (250 ft²) - If sprinkler protected: maximum height of 3.66m (12ft.) and maximum area of 93m² (305ft²) Separate areas of unenclosed combustible storage by a minimum clear distance of 3m (10ft.).	Within 3 months
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F-9	Fire Rated Construction	Existing atrium in factory connecting ground and first floors is not properly protected.	Provide proper fire protection in accordance with ACCORD standard 3.7.	Within 6 months
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F-10	Egress	Building did not have stair designation signs at exit stairs. Building did not have occupant load signs at factory floors.	Provide stair designation signs and occupant load signs at required locations.	Immediately
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F-11	Egress	Egress doors with locking features are provided at exit discharge. 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 and ACCORD standard 6.8.2.	Immediately
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F-12	Egress	Sliding doors are provided at along egress routes and exit discharge.	Replace all 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-13	Egress	The day-care room does not meet ACCORD standard 3.4.2.1.1. on the ground floor. The travel distance is more than 9 m. (30 ft.)	Day-care shall be located on the ground floor with a maximum travel distance of 9 m (30 ft) or located one story above level of exit discharge with direct access to an exit enclosure.	Within 3 months
			If the above is not possible provide a minimum 2-hr fire-rated exit corridor between the day-care room and exit stair with ACCORD approval.	



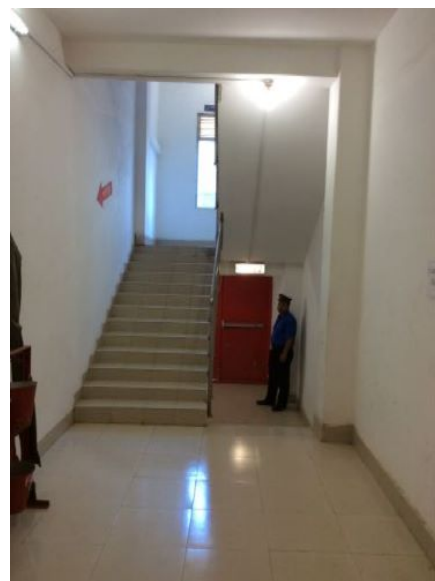
F-14	Egress	Egress door on the exit discharge serving 50 or more occupants does not swing in the direction of egress travel.	Modify the egress door to swing in the direction of egress travel.	Within 3 months
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F-15	Egress	The clear height of egress door on the exit discharge is less than 2.03 m.	Provide minimum clear height of 2.03 m. in all means of egress.	Within 3 months
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F-16	Egress	Handrails are not provided on both sides of all exit stairs.	Provide handrails on both sides of the exit stairs. 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
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F-17	Fire Protection	The fire alarm system is antiquated, not a listed system and does not provide alarm and notification features consistent with acceptable standards.	Complete the fire alarm system installation 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-18	Fire Protection	The required no smoking signs are not present in the factory.	Smoking is prohibited in any garment factory building or separate storage building. Signs shall be posted in Bengali and English at all building entrances. If the factory creates a designated smoking area outside the building, information of these areas will be posted on the signs.	Within 1 months
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F-19	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.	Within 3 months
F-20	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.	Within 3 months
F-21	Fire Protection	Fire department connection is not provided.	Provide fire department connection in accordance with ACCORD standard 5.5.4.	Within 3 months

F-22	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.	Within 3 months
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F-23	Fire Protection	Visible notification was not provided for the building in accordance with NFPA 72.	Provide visible notification for the building in accordance with NFPA 72.	Within 3 months
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F-24	Fire Protection	The required standpipe system is not installed in accordance with the ACCORD standard.	Install a new standpipe system in accordance with ACCORD standard 5.4 and NFPA 14.	Within 6 months
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A class III system shall be installed in buildings with the highest occupiable floor 10 m (33 ft.) above grade or more. A class I system shall be permitted in buildings protected throughout by an approved automatic sprinkler system.





F-25	Fire Protection	The building is not equipped with fire detection system.	Complete the installation of automatic smoke detection throughout the building, tied into the fire alarm system, in accordance with NFPA 72.	Within 9 months
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F-26	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 the accordance with The ACCORD standard. Keep written records on-site.	Within 3 months
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Monthly Emergency Light & Exit Light Box Inspection Record

Sl. No.	Type of Light	Location of Light Box	Power	Inspection Date	Test Result			Remarks	Inspector's Signature	Date
					Tested	Pass	Fail			
1	Exit Light Box	1st Floor	Emergency	20/01/20	✓	✓	✓	✓	✓	✓
2	Exit Light Box	1st Floor	Emergency	20/01/20	✓	✓	✓	✓	✓	✓
3	Exit Light Box	1st Floor	Emergency	20/01/20	✓	✓	✓	✓	✓	✓
4	Exit Light Box	1st Floor	Emergency	20/01/20	✓	✓	✓	✓	✓	✓
5	Exit Light Box	1st Floor	Emergency	20/01/20	✓	✓	✓	✓	✓	✓
6	Exit Light Box	1st Floor	Emergency	20/01/20	✓	✓	✓	✓	✓	✓
7	Exit Light Box	1st Floor	Emergency	20/01/20	✓	✓	✓	✓	✓	✓
8	Exit Light Box	1st Floor	Emergency	20/01/20	✓	✓	✓	✓	✓	✓
9	Exit Light Box	1st Floor	Emergency	20/01/20	✓	✓	✓	✓	✓	✓
10	Exit Light Box	1st Floor	Emergency	20/01/20	✓	✓	✓	✓	✓	✓
11	Exit Light Box	1st Floor	Emergency	20/01/20	✓	✓	✓	✓	✓	✓
12	Exit Light Box	1st Floor	Emergency	20/01/20	✓	✓	✓	✓	✓	✓
13	Exit Light Box	1st Floor	Emergency	20/01/20	✓	✓	✓	✓	✓	✓
14	Exit Light Box	1st Floor	Emergency	20/01/20	✓	✓	✓	✓	✓	✓
15	Exit Light Box	1st Floor	Emergency	20/01/20	✓	✓	✓	✓	✓	✓
16	Exit Light Box	1st Floor	Emergency	20/01/20	✓	✓	✓	✓	✓	✓
17	Exit Light Box	1st Floor	Emergency	20/01/20	✓	✓	✓	✓	✓	✓
18	Exit Light Box	1st Floor	Emergency	20/01/20	✓	✓	✓	✓	✓	✓