

FIRE SAFETY INSPECTION REPORT

ELITE GARMENTS INDUSTRIES LTD.

ACCORD ID: 9576

BADE KALMESWAR, BOARD BAZAR, GAZIPUR

OTHER FACTORIES: NONE



ACCORD
on Fire and Building Safety in Bangladesh

May 9, 2015

SUMMARY

Elite Garments Industries Ltd. was surveyed for fire safety on 5/9/2015 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.

Tables 1 - 4 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	Unsealed penetrations and openings are located in the internal exit stair enclosure.	Seal all penetrations and openings in exit stair enclosure walls to maintain the fire separation.	Within 3 months
				
F-2	Fire Rated Construction	Electrical panels were located in the exit stair enclosure.	Remove and re-locate all electrical panels from exit stair enclosures.	Within 3 months



F-3	Fire Rated Construction	Areas used for combustible storage open to the factory are not separated by fire-rated construction on the ground floor.	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 (1,000 ft²) Separate areas of unenclosed combustible storage by a minimum clear distance of 3m (10ft.).	Within 3 months
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F-4	Fire Rated Construction	The exterior exit stairs are not properly separated from the building.	Exterior exit stairs shall be separated from the building with a rating requirement of 1 hr. fire rating for 3 or fewer stories. The rating of the exterior wall shall extend 3.05 m (10ft) beyond the ends of the stair structure.	Within 6 months
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F-5	Egress	Building did not have stair designation signs at exit stairs and occupant load signs on factory floors.	Provide stair designation signs and occupant load signs at required locations.	Immediately
F-6	Egress	Storage and obstructions were located in the egress paths on the second floor.	Keep egress paths and stairs clear of storage.	Immediately
				
F-7	Egress	Sliding doors are provided at building exits, exit stairs and along egress routes.	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



F-8	Egress	Handrails are not provided on both sides of the interior exit stair.	Provide handrails on both sides of the exit stair. 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-9	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
F-10	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-11	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

Elite Garments Inds. Ltd.
Rohit Garments, Road No. 1, Sector 17B

Fire Alarm & Detection System Inspection Check List

System Information: Conventional Addressable

Type of System: (1) Smoke detector (conventional) 334
(2) Heat detector 05
(3) Beam detector 01A
(4) Smoke detector (addressable) 100

Alarm sounder with flasher 07
Alarm sounder without flasher 20
Other specs: 4, 14

Sl. No.	Description	Comments		
		Yes	No	NA
1	A copy of the on-site fire alarm system (drawing signed by a competent body) is available on site.		✓	
2	The system manual, a copy of the manufacturer's instruction, written, sequence of operation are available on site.	✓		
3	For addressable system, a list of each device with the corresponding location is provided. The device addressing shall reflect actual room names or numbers that are current to the building use.	✓		
4	Fire alarm control panel receive the current information when device has been activated (2 or device location, device type/alarm type).	✓		
5	Fire alarm system is monitored by a monitoring station.	✓		
6	Primary communication line is tested & monitoring station received the proper information from the fire alarm system.	✓		
7	Secondary communication line is tested & monitoring station received the proper information from the fire alarm system.	✓		

F-12	Fire Protection	Fire department connection is not provided.	Provide fire department connection in accordance with ACCORD standard 5.5.4.	Within 3 months
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F-13	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.	Within 3 months
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Elite Garments Inds. Ltd.
Rohit Garments, Road No. 1, Sector 17B

Fire Pump System Inspection Check Log

Sl. No.	Inspection, Testing & Maintenance	Scope	Action Taken		
			Yes	No	NA
1	Tank Level	Visual inspection	✓		
2	Isolated Valve Operation	Visual inspection	✓		
3	Water in system	Checking, Cleaning	✓		
4	Flexible hoses & connections	Visual inspection	✓		
5	Oil level	Visual inspection	✓		
6	Level (Cooling system)	Visual inspection	✓		
7	Adequate cooling water to heat exchanger	Checking	✓		
8	Condition of flexible hoses & connections	Visual inspection	✓		
9	Leakage (Exhaust system)	Visual inspection	✓		
10	Drain condensate trap	Checking	✓		
11	Electricity Level (Battery system)	Checking	✓		
12	General inspection	Visual inspection	✓		
13	Excessive switching switch & circuit breaker	Visual inspection	✓		
14	Case exterior clean & dry (Battery system)	Checking	✓		
15	Specific gravity or state of charge (Battery system)	Visual inspection	✓		
16	Charger and charge rate (Battery system)	Checking	✓		
17	Recharger charge (Battery system)	Checking	✓		
18	Circuit breakers or fuses (electrical system)	Visual inspection	✓		
19	Check accuracy of pressure gauges	Checking	✓		

This check list is to be filled up by the fire officer of the building.

Inspected By: *[Signature]* Date: *[Signature]*
 Approved By: *[Signature]* (Manager)
 Maintained By: *[Signature]* (Maintenance)

F-14	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
F-15	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
F-16	Fire Protection	Fire pump did not meet ACCORD standard 5.5.1 and 5.5.1.1.	Update current fire pump or provide a new fire pump that meets ACCORD standard 5.5.	Within 6 months



F-17	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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Elite Garments Industries Limited
Daily Maintenance Check Report
For The Month of - March 2015

Building No.	Location	Fire Alarm	Exit Sign	Fire Alarm	Emergency Light	Smoke and Heat Detector	Remarks
Building # 1	General Store	15	15	3	10-12	15	OK
	Store	15	15	3	10-12	15	OK
	Store	15	15	3	10-12	15	OK
	Store	15	15	3	10-12	15	OK
Building # 2	General Store	15	15	3	10-12	15	OK
	Store	15	15	3	10-12	15	OK
	Store	15	15	3	10-12	15	OK
	Store	15	15	3	10-12	15	OK
Building # 3	General Store	15	15	3	10-12	15	OK
	Store	15	15	3	10-12	15	OK
	Store	15	15	3	10-12	15	OK
	Store	15	15	3	10-12	15	OK
Building # 4	General Store	15	15	3	10-12	15	OK
	Store	15	15	3	10-12	15	OK
	Store	15	15	3	10-12	15	OK
	Store	15	15	3	10-12	15	OK
Building # 5	General Store	15	15	3	10-12	15	OK
	Store	15	15	3	10-12	15	OK
	Store	15	15	3	10-12	15	OK
	Store	15	15	3	10-12	15	OK
Building # 6	General Store	15	15	3	10-12	15	OK
	Store	15	15	3	10-12	15	OK
	Store	15	15	3	10-12	15	OK
	Store	15	15	3	10-12	15	OK
Building # 7	General Store	15	15	3	10-12	15	OK
	Store	15	15	3	10-12	15	OK
	Store	15	15	3	10-12	15	OK
	Store	15	15	3	10-12	15	OK
Grand Total		110	110	40	127	445	

Signature: [Signature]
Inspector

Signature: [Signature]
Plant Manager

Signature: [Signature]
Maintenance

Table 2. Findings And Recommendations - Building 2

No.	Category	Finding	Recommendation	Remediation Timeframe
F-1	Fire Rated Construction	Liquefied or compressed gas cylinders were located within the factory on the ground floor.	The storage or use of liquefied or compressed flammable gas cylinders shall be prohibited within the factory building.	Immediately



F-2	Fire Rated Construction	The interior exit stair is not separated from work areas and other spaces on each floor by fire-rated construction.	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.	Within 3 months
 				
F-3	Fire Rated Construction	Electrical panels were located in the exit stair enclosure.	Remove and re-locate all electrical panels from exit stair enclosures.	Within 3 months



F-4	Fire Rated Construction	The industrial dryers are not separated by fire-rated construction on the ground floor.	Separate the industrial dryer area by a minimum 2-hr fire-rated construction. Seal and/or protect all openings to maintain the required fire separations. Provide proper ventilation and consult with a qualified engineer.	Within 3 months
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F-5	Fire Rated Construction	The exterior exit stair is not properly separated from the building.	Exterior exit stairs shall be separated from the building with a rating requirement of 2 hr. fire rating for 4 or more stories. The rating of the exterior wall shall extend 3.05 m (10ft) beyond the ends of the stair structure.	Within 6 months
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F-6	Fire Rated Construction	The exit discharge path serving the south exit is less than 3 m (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.	Within 6 months
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F-7	Egress	Building did not have stair designation signs at exit stairs and occupant load signs on factory floors.	Provide stair designation signs and occupant load signs at required locations.	Immediately
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F-8	Egress	Storage was located in the egress paths on the ground floor.	Keep egress paths and stairs clear of storage.	Immediately
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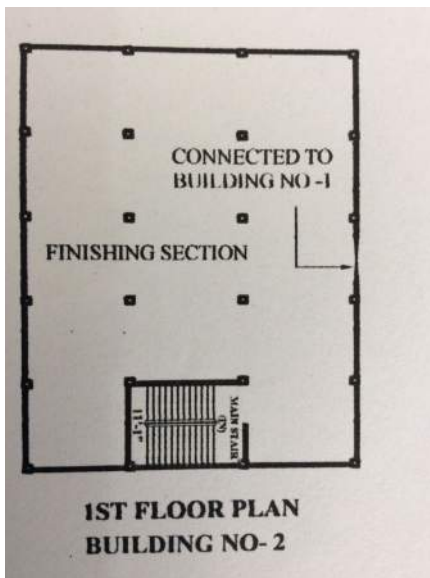
F-9	Egress	Sliding doors are provided at exit stairs.	Replace all sliding doors along the means of egress with side-hinged, swinging egress doors in accordance with ACCORD standard 6.8.1.	Within 1 month
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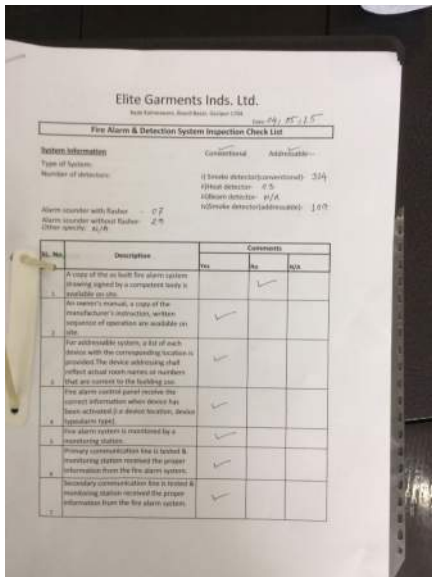
F-10	Egress	Handrails are not provided on both sides of the interior exit stair.	Provide handrails on both sides of the exit stair. New handrails shall have a minimum height of 865 mm (34 in.) and a maximum height of 965 mm (38 in.) as measured from the leading edge of the tread. Intermediate handrails shall be provided when the stair width exceeds 2.2 m (87 in.)	Within 3 months
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F-11	Egress	The exits are not remotely located from each other such that a single fire event could compromise both exits on first floor.	Provide additional exit to meet ACCORD standard 6.6.6.	Within 6 months
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F-12	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
F-13	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-14	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-15	Fire Protection	Fire department connection is not provided.	Provide fire department connection in accordance with ACCORD standard 5.5.4.	Within 3 months
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F-16	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.	Within 3 months
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Elite Garments Inds. Ltd.
Rohini Park, Road No. 1, Sector 10, Dhaka-1204

Fire Pump System Inspection Check Log

Sl. No.	Inspection, Testing & Maintenance	Scope	Action Taken		
			Yes	No	N/A
1	Check Level	Visual inspection	✓		
2	Isolated Valve Operation	Visual inspection	✓		
3	Water in system	Checking, Cleaning	✓		
4	Flexible hoses & connections	Visual inspection	✓		
5	Oil level	Visual inspection	✓		
6	Level (Cooling system)	Visual inspection	✓		
7	Advisable cooling water to heat exchanger	Checking	✓		
8	Condition of flexible hoses & connections	Visual inspection	✓		
9	Drainage (Exhaust system)	Visual inspection	✓		
10	Drain condensate trap	Checking	✓		
11	Electrode level (Battery system)	Checking	✓		
12	General inspection	Visual inspection	✓		
13	Electric isolation switch & circuit breaker	Visual inspection	✓		
14	Case exterior clean & dry (Battery system)	Checking	✓		
15	Specific gravity or state of charge (Battery system)	Visual inspection	✓		
16	Charge and charge rate (Battery system)	Checking	✓		
17	Equalizer charge (Battery system)	Checking	✓		
18	Circuit breakers or fuses (Electrical system)	Visual inspection	✓		
19	Check accuracy of pressure gauges	Checking	✓		

This check list is to be filled up by the fire officer or the fire department.

Inspected By: *[Signature]*
Asst. Manager (Safety)

Manager (Maintenance)

F-17	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-18	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-19	Fire Protection	Fire pump did not meet ACCORD standard 5.5.1 and 5.5.1.1.	Update current fire pump or provide a new fire pump that meets ACCORD standard 5.5.	Within 6 months
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F-20	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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Elite Garments Industries Limited Daily Maintenance Check Report For The Month of - <i>March 2021</i>									
Building No.	Location	Fire Light	Exit Sign	Fire Alarm Buzzer	Emergency Light	Heat and Smoke Detector	Status	Remarks	
Building # 1	General Store	12	12	2	12-12	21	OK		
	Store 1	12	2	2		21	OK		
	Store 2	12	2	2		21	OK		
	Store 3	12	2	2		21	OK		
Building # 2	General Store	12	12	2	12-12	21	OK		
	Store 1	12	2	2		21	OK		
	Store 2	12	2	2		21	OK		
	Store 3	12	2	2		21	OK		
Building # 3	General Store	12	12	2	12-12	21	OK		
	Store 1	12	2	2		21	OK		
	Store 2	12	2	2		21	OK		
	Store 3	12	2	2		21	OK		
Building # 4	General Store	12	12	2	12-12	21	OK		
	Store 1	12	2	2		21	OK		
	Store 2	12	2	2		21	OK		
	Store 3	12	2	2		21	OK		
Building # 5	General Store	12	12	2	12-12	21	OK		
	Store 1	12	2	2		21	OK		
	Store 2	12	2	2		21	OK		
	Store 3	12	2	2		21	OK		
Building # 6	General Store	12	12	2	12-12	21	OK		
	Store 1	12	2	2		21	OK		
	Store 2	12	2	2		21	OK		
	Store 3	12	2	2		21	OK		
Building # 7	General Store	12	12	2	12-12	21	OK		
	Store 1	12	2	2		21	OK		
	Store 2	12	2	2		21	OK		
	Store 3	12	2	2		21	OK		
Total		112	112	48	112	112			

Table 3. Findings And Recommendations - Building 3

No.	Category	Finding	Recommendation	Remediation Timeframe
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F-1	Fire Rated Construction	The north exit stair is not separated from work areas and other spaces on each floor by fire-rated construction.	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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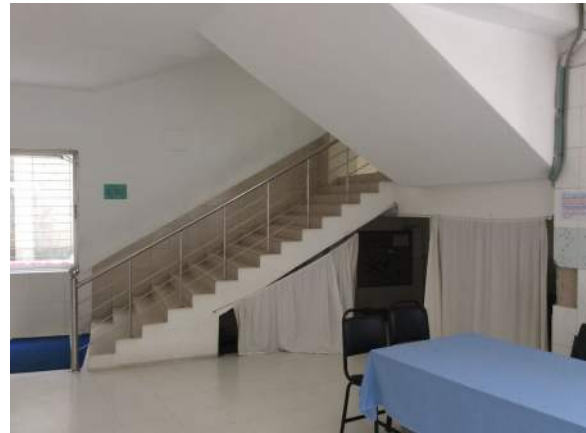
F-2	Fire Rated Construction	Electrical panels were located in the exit stair enclosures.	Remove and re-locate all electrical panels from exit stair enclosures.	Within 3 months
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F-3	Fire Rated Construction	Unsealed electrical shafts are located in the fire-rated floor/ceiling assemblies.	Provide a minimum 2-hr fire-rated shaft to separate the utility risers from each floor level and seal all penetrations in floor/ceiling assemblies to maintain the fire separation.	Within 3 months
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F-4	Fire Rated Construction	The south exit stair enclosure is not separated from work areas and other spaces on each 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
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F-5	Fire Rated Construction	Unsealed penetrations and openings are located in north exit stair enclosure.	Seal all penetrations and openings in exit stair enclosure walls to maintain the fire separation.	Within 3 months
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F-6	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-7	Fire Rated Construction	The exterior exit stair is not properly separated from the building.	Exterior exit stairs shall be separated from the building with a rating requirement of 2 hr. fire rating for 4 or more stories. The rating of the exterior wall shall extend 3.05 m (10ft) beyond the ends of the stair structure.	Within 6 months
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F-8	Egress	Building did not have stair designation signs at exit stairs and occupant load signs on factory floors.	Provide stair designation signs and occupant load signs at required locations.	Immediately
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F-9	Egress	Storage was located in the egress paths on the ground floor.	Keep egress paths and stairs clear of storage.	Immediately
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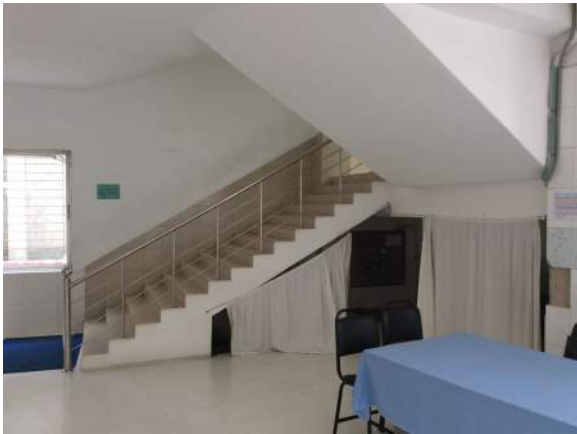


F-10	Egress	Egress gates with locking features are provided at building exits. All gates and doors were open and unlocked during the inspection.	Remove locking features from all egress doors and gates. If locks are required for security reasons, utilize special door locking features complying with NFPA 101 and ACCORD standard 6.8.2.	Immediately
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F-11	Egress	Storage was located in the interior exit stairs.	Remove all storage from exit stairs and egress paths.	Immediately
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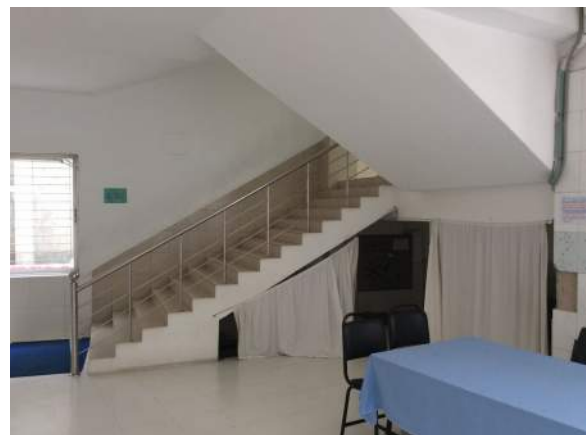


F-12	Egress	Collapsible gates are provided at building exits and exit stairs. Sliding doors are provided at building exits, exit stairs and along egress routes.	Replace all gates and sliding doors along the means of egress with side-hinged, swinging egress doors in accordance with ACCORD standard 6.8.1.	Within 1 month
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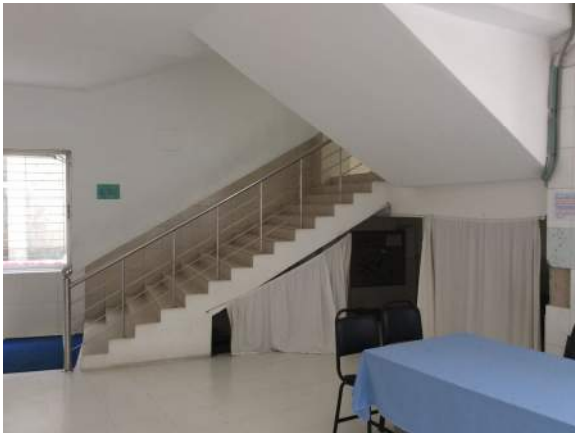




F-13	Egress	Handrails are not provided on both sides of the exit stairs.	Provide handrails on both sides of the exit stair. New handrails shall have a minimum height of 865 mm (34 in.) and a maximum height of 965 mm (38 in.) as measured from the leading edge of the tread. Intermediate handrails shall be provided when the stair width exceeds 2.2 m (87 in.)	Within 3 months
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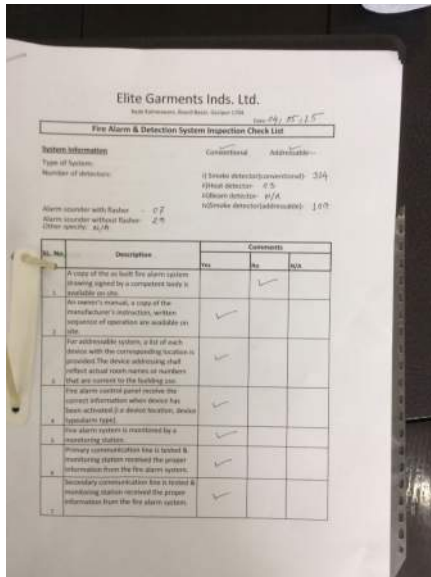
F-14	Egress	Interior exit stairs discharge inside the building on the ground floor. The interior discharge path is open to storage.	Provide 2-hr fire-rated exit passageway leading directly outside (vestibules to separate storage areas).	Within 6 months
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F-15	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-16	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
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F-17	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
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F-18	Fire Protection	Fire department connection is not provided.	Provide fire department connection in accordance with ACCORD standard 5.5.4.	Within 3 months
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F-19	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.	Within 3 months
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Elite Garments Inds. Ltd.
Badda, Dhaka, Bangladesh. Phone: 1704

Fire Pump System Inspection Check Log

Sl. No.	Inspection, Testing & Maintenance	Scope	Action Taken		
			Yes	No	N/A
1	Stand Level	Visual inspection	✓		
2	Isolated Valve Operation	Visual inspection	✓		
3	Water in system	Checking, Cleaning	✓		
4	Flexible hoses & connections	Visual inspection	✓		
5	Oil level	Visual inspection	✓		
6	Power (Cooling system)	Visual inspection	✓		
7	Adequate cooling water to heat exchanger	Checking	✓		
8	Conditions of flexible hoses & connections	Visual inspection	✓		
9	Leaks (Exhaust system)	Visual inspection	✓		
10	Drain condensate trap	Checking	✓		
11	Electrolyte Level (Battery system)	Checking	✓		
12	General inspection	Visual inspection	✓		
13	Examine isolating switch & circuit breaker	Visual inspection	✓		
14	Case exterior clean & dry (Battery system)	Checking	✓		
15	Specific gravity or state of charge (Battery system)	Visual inspection	✓		
16	Charge and charge rate (Battery system)	Checking	✓		
17	Recharge (Battery system)	Checking	✓		
18	Circuit breakers or fuses (Electrical system)	Visual inspection	✓		
19	Check accuracy of pressure gauges	Checking	✓		

This check list is to be filled up by the fire officer or the fire inspector.

Inspected By: *[Signature]*
Asst. Manager (Maintenance)

Manager (Maintenance)

F-20	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
F-21	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
F-22	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
F-23	Fire Protection	Fire pump did not meet ACCORD standard 5.5.1 and 5.5.1.1.	Update current fire pump or provide a new fire pump that meets ACCORD standard 5.5.	Within 6 months



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
			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	Egress Lighting	Exit signage was not provided at a floor exit.	Provide exit signs above all building exits to the exterior, all doors to the exit stairs and along all paths of travel where a change of direction is not obvious.	Within 1 month
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F-26	Egress Lighting	Exit signage not illuminated above south exit stair entrance on the fourth floor and north exit on the ground floor.	Regularly inspect all exit signage and replace/install lights as needed to illuminate signs. The source of illumination shall provide not less than 50 lux at the illuminated surface with a contrast of not less than 0.5. Approved self luminous signs which provide evenly illuminated letters having a minimum luminance of 0.2 cd/m ² may also be used.	Within 1 month
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F-27	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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Elite Garments Industries Limited
Daily Maintenance Check Report
For The Month Of - March 2018

Building No.	Location	Fire Alarm	Exit Sign	Fire Alarm	Emergency Light	Smoke and Heat Detector	Remarks
Building # 1	Ground Floor	11	11	3	12-12	11	OK
	1st Floor	11	11	3	12-12	11	OK
	2nd Floor	11	11	3	12-12	11	OK
	3rd Floor	11	11	3	12-12	11	OK
Building # 2	Ground Floor	11	11	3	12-12	11	OK
	1st Floor	11	11	3	12-12	11	OK
	2nd Floor	11	11	3	12-12	11	OK
	3rd Floor	11	11	3	12-12	11	OK
Building # 3	Ground Floor	11	11	3	12-12	11	OK
	1st Floor	11	11	3	12-12	11	OK
	2nd Floor	11	11	3	12-12	11	OK
	3rd Floor	11	11	3	12-12	11	OK
Building # 4	Ground Floor	11	11	3	12-12	11	OK
	1st Floor	11	11	3	12-12	11	OK
	2nd Floor	11	11	3	12-12	11	OK
	3rd Floor	11	11	3	12-12	11	OK
Building # 5	Ground Floor	11	11	3	12-12	11	OK
	1st Floor	11	11	3	12-12	11	OK
	2nd Floor	11	11	3	12-12	11	OK
	3rd Floor	11	11	3	12-12	11	OK
Building # 6	Ground Floor	11	11	3	12-12	11	OK
	1st Floor	11	11	3	12-12	11	OK
	2nd Floor	11	11	3	12-12	11	OK
	3rd Floor	11	11	3	12-12	11	OK
Building # 7	Ground Floor	11	11	3	12-12	11	OK
	1st Floor	11	11	3	12-12	11	OK
	2nd Floor	11	11	3	12-12	11	OK
	3rd Floor	11	11	3	12-12	11	OK
Grand Total		110	110	40	127	441	

Signature:
Inspector

Signature:
Plant Manager

Signature:
Safety Officer

F-28	Egress Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes on factory floors.	Test the emergency lighting system on each floor and provide additional emergency fixtures to supply adequate illumination along the means of egress. Provide a minimum illumination of 10 lux at the floor level within exit stairs and along exit discharge paths and a minimum 2.5 lux along exit access aisles.	Within 3 months
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Table 4. Findings And Recommendations - Building 7

No.	Category	Finding	Recommendation	Remediation Timeframe
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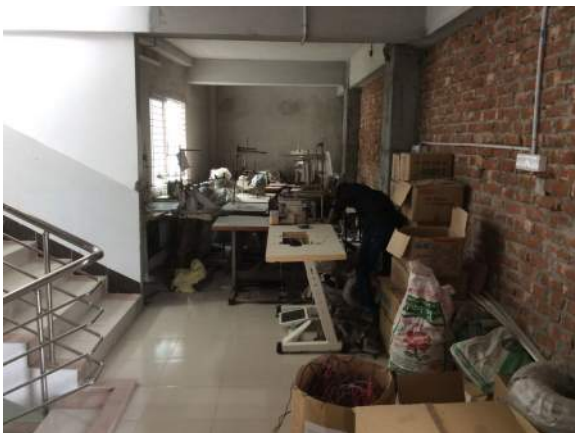
F-1	Fire Rated Construction	The exit stairs are not separated from work areas and other spaces on each floor by fire-rated construction.
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Provide minimum 1.5-hr fire rated doors for buildings that are 4 or more stories. Seal all unprotected openings 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.

Within 3 months

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-2	Fire Rated Construction	Electrical panels were located in the west exit stair enclosure.	Remove and re-locate all electrical panels from exit stair enclosures.	Within 3 months
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F-3	Fire Rated Construction	Unsealed electrical shafts are located in the fire-rated floor/ceiling assemblies on the first and fifth floors.	Provide a minimum 2-hr fire-rated shaft to separate the utility risers from each floor level and seal all penetrations in floor/ceiling assemblies to maintain the fire separation.	Within 3 months
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F-4	Fire Rated Construction	The east exit stair enclosure is not separated from work areas and other spaces on 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
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F-5	Fire Rated Construction	Unsealed penetrations and openings are located in west exit stair enclosure.	Seal all penetrations and openings in exit stair enclosure walls to maintain the fire separation.	Within 3 months
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F-6	Fire Rated Construction	Exit access corridors are not provided with 1 hr. fire resistance rating or approved NFPA 13 sprinkler system on the first 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-7	Fire Rated Construction	Storage room discharges directly into east 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-8	Fire Rated Construction	The compressor room is not separated by fire-rated construction due to openings on the first floor.	Separate the compressor room by a minimum 1-hr fire-rated construction for non-high rise. Seal and/or 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
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F-9	Egress	Building did not have stair designation signs at exit stairs and occupant load signs on factory floors.	Provide stair designation signs and occupant load signs at required locations.	Immediately
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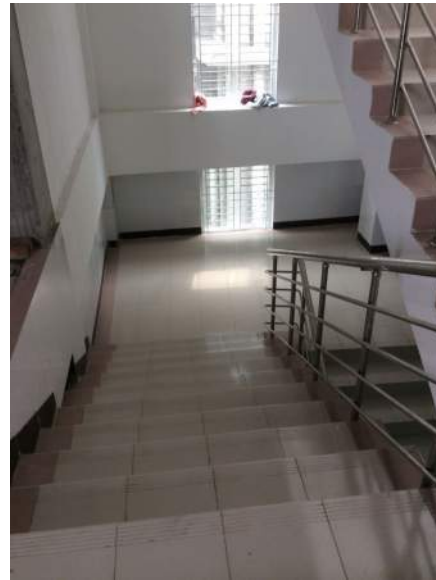
F-10	Egress	Storage was located in the east exit stair.	Remove all storage from exit stairs and egress paths.	Immediately
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F-11	Egress	Exit capacity (372) is not adequate for the occupant load (400) on the fifth floor.	Reduce occupant load immediately to not more than available exit capacity (372). Provide additional exits in the future to increase exit capacity.	Immediately
F-12	Egress	Sliding doors are provided at building exit.	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



F-13	Egress	Handrails are not provided on both sides of the exit stairs.	Provide handrails on both sides of the exit stair. 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-14	Egress	The occupiable roof was not provided with an adequate parapet / guard rail.	All occupiable roofs shall be provided with parapets or guards with a minimum height of 1067 mm (42 in.)	Within 3 months
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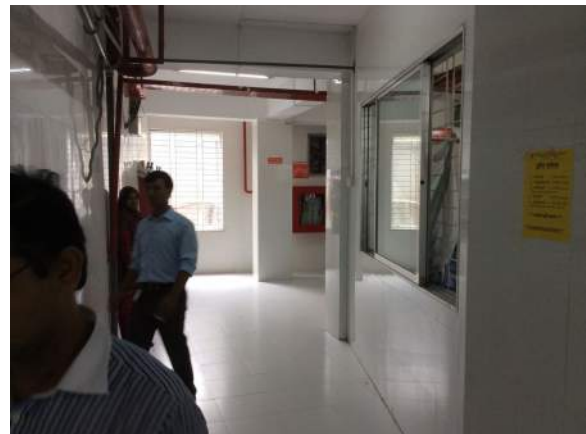
F-15	Egress	The width of egress aisles is less than 36-in. on the first floor.	Provide minimum aisle widths of 36-in.	Within 3 months
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F-16	Egress	West exit stair door does not swing in the direction of egress travel on the roof top.	Modify the egress door to swing in the direction of egress travel.	Within 3 months
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F-17	Egress	Exit stairs discharge inside the building on the ground floor. The discharge paths are open to production area.	Provide 2-hr fire-rated exit passageway leading directly outside (vestibules to separate storage areas).	Within 6 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
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

Elite Garments Inds. Ltd.
Bata Garment, Bata Road, Sector 17B

Fire Alarm & Detection System Inspection Check List

System Information

Type of System: Conventional

Number of detectors: 334

Alarm sounder with flasher: 27

Alarm sounder without flasher: 27

Other specs: 4/14

Comments

1. A copy of the on-site fire alarm system (drawing signed by a competent body) is available on site. ✓

2. The system manual, a copy of the manufacturer's instruction, written sequence of operation are available on site. ✓

3. For addressable system, a list of each device with the corresponding location is provided. The device addressing shall reflect actual room names or numbers that are current to the building use. ✓

4. Fire alarm control panel receive the current information when device has been activated (i.e. device location, device type). ✓

5. Fire alarm system is monitored by a monitoring station. ✓

6. Primary communication line is tested & monitoring station received the proper information from the fire alarm system. ✓

7. Secondary communication line is tested & monitoring station received the proper information from the fire alarm system. ✓

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 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. Within 3 months

Elite Garments Inds. Ltd.
Bata Garment, Bata Road, Sector 17B

Fire Pump System Inspection Check Log

Inspection, Testing & Maintenance

Scope

Action Taken

1. Tank Level: Visual inspection ✓

2. Isolated Valve Operation: Visual inspection ✓

3. Water in system: Checking, Cleaning ✓

4. Flexible hoses & connections: Visual inspection ✓

5. Oil level: Visual inspection ✓

6. Level (Cooling system): Visual inspection ✓

7. Adequate cooling water to heat exchanger: Checking ✓

8. Condition of flexible hoses & connections: Visual inspection ✓

9. Leaking (Exhaust system): Visual inspection ✓

10. Drain condensate trap: Checking ✓

11. Electrically Isolated (Battery system): Checking ✓

12. General inspection: Visual inspection ✓

13. Remote switching switch & circuit breaker: Visual inspection ✓

14. Case exterior clean & dry (Battery system): Checking ✓

15. Specific gravity or state of charge (Battery system): Visual inspection ✓

16. Charger and charge rate (Battery system): Checking ✓

17. Recharger charge (Battery system): Checking ✓

18. Circuit breakers or fuses (electrical system): Visual inspection ✓

19. Check accuracy of pressure gauges: Checking ✓

This check list is to be filled up by the fire officer of the building.

Inspected By: [Signature]

Approved By: [Signature]

Manager: [Signature]

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.	Within 3 months
F-24	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
				
F-25	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
F-26	Fire Protection	Fire pump did not meet ACCORD standard 5.5.1 and 5.5.1.1.	Update current fire pump or provide a new fire pump that meets ACCORD standard 5.5.	Within 6 months



F-27	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
			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-28	Egress Lighting	Exit signage was not provided at floor and building exits.	Provide exit signs above all building exits to the exterior, all doors to the exit stairs and along all paths of travel where a change of direction is not obvious.	Within 1 month
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F-29	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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Elite Garments Industries Limited
Daily Maintenance Check Report
For The Month Of - March 2015

Building No.	Location	Fire Light	Exit Sign	Fire Alarm	Emergency Light	Smoke and Heat Detector	Remarks
Building # 1	Ground Floor	15	15	3	10-12	15	OK
	1st Floor	15	15	3	10-12	15	OK
	2nd Floor	15	15	3	10-12	15	OK
	3rd Floor	15	15	3	10-12	15	OK
Building # 2	Ground Floor	15	15	3	10-12	15	OK
	1st Floor	15	15	3	10-12	15	OK
	2nd Floor	15	15	3	10-12	15	OK
	3rd Floor	15	15	3	10-12	15	OK
Building # 3	Ground Floor	15	15	3	10-12	15	OK
	1st Floor	15	15	3	10-12	15	OK
	2nd Floor	15	15	3	10-12	15	OK
	3rd Floor	15	15	3	10-12	15	OK
Building # 4	Ground Floor	15	15	3	10-12	15	OK
	1st Floor	15	15	3	10-12	15	OK
	2nd Floor	15	15	3	10-12	15	OK
	3rd Floor	15	15	3	10-12	15	OK
Building # 5	Ground Floor	15	15	3	10-12	15	OK
	1st Floor	15	15	3	10-12	15	OK
	2nd Floor	15	15	3	10-12	15	OK
	3rd Floor	15	15	3	10-12	15	OK
Building # 6	Ground Floor	15	15	3	10-12	15	OK
	1st Floor	15	15	3	10-12	15	OK
	2nd Floor	15	15	3	10-12	15	OK
	3rd Floor	15	15	3	10-12	15	OK
Building # 7	Ground Floor	15	15	3	10-12	15	OK
	1st Floor	15	15	3	10-12	15	OK
	2nd Floor	15	15	3	10-12	15	OK
	3rd Floor	15	15	3	10-12	15	OK
Grand Total		110	110	40	107	440	

Signature: 
Inspector

Signature: 
Sub-Inspector

Signature: 
Inspector

F-30	Egress Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes on factory floors.	Test the emergency lighting system on each floor and provide additional emergency fixtures to supply adequate illumination along the means of egress. Provide a minimum illumination of 10 lux at the floor level within exit stairs and along exit discharge paths and a minimum 2.5 lux along exit access aisles.	Within 3 months
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