

INITIAL FIRE SAFETY INSPECTION REPORT

AKH Outwear Ltd.

RSC ID: 26659

Geographical Coordinates: 23.78806913687271, 90.24615683628991

Address: Holding No-19, Tenny Road, Horindhara, Hemayetpur, Savar, Dhaka-1340, Bangladesh.

Other Factories: None.



Inspected By: Md. Kawsar Rubaiat

Date: 08-July-2026

Fire Safety Inspection Report

AKH Outwear Ltd.

Introduction:

AKH Outwear Ltd. complex was surveyed for fire safety on **08-July-2026** by the RSC Inspection Team. The purpose of the survey was to identify significant fire safety issues and to provide recommendations for remediation based on applicable standards specified by the RSC. The scope of this initial fire safety inspection was limited to the review and identification of major fire safety issues. The inspection did not include identification of minor deficiencies, which will be further addressed as part of follow-up inspections.

Limitations

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

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

General Factory Information

Structures covered under this RSC ID-26659, along with a Fire Panel Room & Steel Connecting Corridor, are as follows:

SL No	Building Name	Building Area (Sq.ft)	Number of Stories	Building Height	Building Construction Period	Occupied	Approval Date & Authority	Structure type	Construction Category
1	Production Building-1	75,073	G+3	Occ. H.: 40 ft Build. H: 61 ft	Jul-2022 to Dec-2023	Feb-24	Approved By Savar Upazilla Engineer, 08-Feb-2017	RCC	New [See Note 1]
2	Production Building-2	63,583	G+2 with UG Fire Pump Room	Occ. H.: 29 ft Bld. H: 50 ft	Jul-2022 to Dec-2023	Feb-24	Approved By Savar Upazilla Engineer, 08-Feb-2017	RCC	New [See Note 1]
3	Medical & Child Care Room	1,000	G	As per Permit drawing	Jun-2025 to Dec-2025	Jan-26	No Approval	RCC	New
4	RMS Room	300	G	As per Permit drawing	Mar-2016 to Jul-2016	Sep-16	No Approval	RCC	New
5	Security Room	127	G	As per Permit drawing	Mar-2026 to Jun-2026	Jun-26	No Approval	RCC	New

Factory Address: Holding No-19,Tennary Road, Horindhara, Hemayetpur, Savar,Dhaka-1340, Bangladesh.

Findings & Recommendations :

Table-1 & 2 summarize 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 RSC for review.

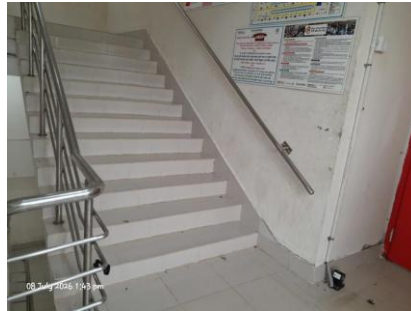
Table-1: Production Building-1

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-01	Means of Egress	The exit stair enclosures are not separated from work areas and other spaces on each floor by fire-rated construction. Location(s): Production Building-1. Non-Compliance: Unprotected openings from floor areas within 10 ft, Fire door accessories were not properly functional, etc.	The exit stair enclosure shall be provided with a minimum of 2- hr. fire resistance rating for buildings 4 or more stories. Provide a 1.5-hour fire-rated door and seal all penetrations and openings by 2 hr. fire rated fire rated barrier construction for buildings with 4 or more stories in accordance with section 6.3.1.2 of RSC Technical Guidelines (Standard). Provide a fire-resistive rated assembly between the exterior exit stairs and the building up to 10 ft. beyond the end of the stair to achieve the required separation. The rated assembly shall be approved and/or designed by a qualified fire protection engineer. 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. Keep proper datasheet & certifications for installed fire doors & accessories on-site for verification. The clearance under the bottom of a door shall be a maximum of 3/4 in. (19 mm).	Within 3 Months



F-02	Means of Egress	Aisles were found missing in several locations throughout the building. Location(s): Production Building-1.	Provide minimum aisle widths of 36-in. Aisles mark shall be clearly visible.	Within 1 Month
 				

F-03	Means of Egress	Fire evacuation maps is not posted at the entrance of all exit stair. Location(s): All Buildings.	Fire evacuation maps shall be posted at the entrance to each exit stair in accordance with RSC Technical Guidelines (Standard), Section 13.3.	Within 1 Month
F-04	Means of Egress	Electrical panels, water pump room were located in the exit stair enclosure. Location(s): Ground floor, South stair, Production Building-1.	Remove and relocate all Electrical panels/water pumps from the exit stair enclosures. Or, Provide fire separation with stair enclosure in accordance with Section 6.3.1 of RSC Technical Guidelines (Standard).	Within 3 Months
				

F-05	Means of Egress	Stair clear width was found less than 60 in. Available: N-E: 55"; South: 57" Location(s): Production Building-1.	Stairs shall have a minimum clear width of 60 in. for all industrial occupancies as per RSC Technical Guideline (Standard), Section 6.5.6.	Within 3 Months
 				
F-06	Means of Egress	Building does not have occupant load signs at the required locations on all floors. Location(s): All Buildings.	Post the occupant load for every assembly and production floor in a facility in a conspicuous space near the main exit or exit access doorway for the space, in accordance with RSC Technical Guidelines (Standard), Section 6.4.4.	Within 1 Month

F-07	Means of Egress	Building does not have stair/floor level designation signs at the required locations on all floors. Location(s): All Buildings.	Provide stair designation sign at each floor entrance from the stair to the floor in English and Bengali. Signs shall indicate the name of the stair and the floor level. Signs shall be posted adjacent to the door in accordance with RSC Technical Guidelines (Standard), Section 6.9.3.	Within 1 Month
F-08	Means of Egress	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes. Location(s): All floors, Production Building-1.	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. Illumination on means of egress shall meet in accordance with RSC Technical Guidelines (Standard), Section 10.12.2.	Within 3 Months
				

F-09	Means of Egress	Directional signs are not provided where direction of the path of travel to an exit has changed. Location(s): All floors, Production Building-1.	Illuminated directional signs shall be provided where there is a change in the direction for the path of travel and the direction to an exit is not obvious in accordance with RSC Technical Guidelines (Standard), Section 6.11.3.	Within 1 Month
				

F-10	Means of Egress	Minimum ceiling height of the production floor is less than 3.3 meter for New Building. Location(s): Production Building-1.	The ceiling height of a production floor shall not be less than 3.3 meter as per article 1.2, chapter 1, part III and article 2.11, Part III, Chapter -2, BNBC 2020. 1.	Within 3 Months
 				

F-11	Means of Egress	Manual on-off switch is provided for emergency lighting / exit signage units. Location(s): All buildings.	Remove manual on/off switches from emergency lighting/exit signage units to prevent them from being switched off.	Within 3 Months
				

F-12	Means of Egress	Parapets height is not as per the requirement. Available: 39 inches. Location(s): Production Building-1.	Provide parapets or guards with a minimum height of 1067mm (42 inch.) in accordance with RSC Technical Guidelines (Standard) Section 6.12.	Within 3 Months
				

F-13	Fire Rated Construction	A non-rated connecting corridor (not used for horizontal exit) has been constructed between two buildings, which is not fire-separated from the adjacent building. Location(s): Between Production Building-1 & 2.	Separate the buildings with a minimum 2-hour fire-rated construction on both sides of the connecting corridor. Opening protection extending up to 10 feet beyond the connecting corridor shall meet section 4.6 of RSC Technical Guidelines (Standard).	Within 3 Months
				

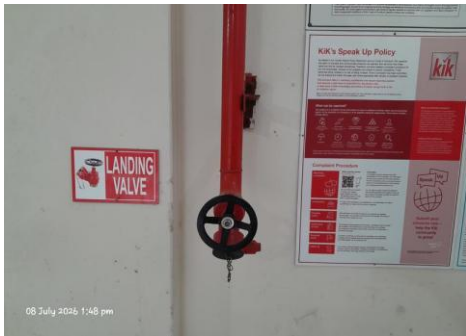
F-14	Fire Rated Construction	Penetrations through floor/ceiling assemblies are found unsealed due to plastic pipes. Location(s): Production Building-1.	Seal all penetrations and openings in floor/ceiling assemblies by a listed through-penetration fire stop system tested in accordance with ASTM E814 or approved alternative standard to maintain a minimum 3-hr. fire resistance rating. Installation shall be as per the manufacturer's published installation guideline and the certification authority guideline to ensure the fire-rating in accordance with Section 4.7 of RSC Technical Guideline (Standard). Or, Provide a minimum 2-hour fire-rated shaft to separate the penetration from each floor if required.	Within 3 Months
				

F-15	Fire Rated Construction	The dining area is located on the same floor as the idle machine store, which is not permitted in accordance with BNBC 2020. Location(s): Production Building-1.	Either relocate or rearrange mixed occupancies applicable for providing fire rated separation as per BNBC 2020 Part 3 Table 3.2.1.	Within 3 Months
 				

F-16	Fire Rated Construction	Unprotected openings in the exterior wall on two consecutive floors lying within 1.5 m, and vertical spread of fire is not restricted. Location(s): Production Building-1.	Provide flame barriers as similar as sunshades or cornices or projected wall at least 750 mm from the external face of the exterior wall. The flame barrier shall have a fire resistance rating of not less than three-fourths hour. For new building, BNBC 2020 Part III chapter 3 clause 3.1.9.2	Within 6 Months

F-17	Fire Rated Construction	The required fire separation distance for Production Building-01 does not comply with the requirements of BNBC 2020. Location(s): Production Building-1.	The exterior walls shall have a fire resistance and opening protection as specified in BNBC 2020 Part 3 Table 3.2.2 & 3.2.3 and BNBC 2020 Part 3 Section 2.4.1.3.	Within 6 Months
				

F-18	Fire Alarm & Detection System (FADS)	The factory has installed a fire alarm and detection system that requires a detailed review to confirm compliance with NFPA 72 and RSC Technical Guidelines (Standard). Location(s): Production Building-1.	Submit the fire alarm and detection system design to RSC for review. Once the design is reviewed, install and modify the fire detection and alarm system throughout the building in accordance with review comment, RSC Technical Guidelines (Standard) and NFPA 72. After installation, the owner shall conduct internal testing and commissioning and then contact the RSC for witness of final acceptance testing.	Design within 2 Months and modification/ installation within 4 Months
				

F-19	Fire Suppression System (SUPS)	The factory has installed a standpipe & Hose system that requires a detailed review to confirm compliance with NFPA 14,20, 24 and RSC Technical Guidelines (Standard). Location(s): Production Building-1.	Submit the standpipe system drawing to RSC for review. Once reviewed, install or modify the standpipe system throughout the building in accordance with RSC Technical Guidelines (Standard). and NFPA 14, 20,22 and 24. After installation the owner shall contact the RSC for witness of conducting the final acceptance testing of the standpipe system.	Design within 2 Months and modification/ installation within 4 Months
				

F-20	Inspection, Testing & Maintenance (Fire)	Inspection, testing and maintenance of the fire pump system is not in accordance with NFPA 25. Location(s): Production Building-1.	Inspect, test and maintain the fire pump system and keep written records on-site, in accordance with NFPA 25 and RSC Technical Guidelines (Standard).	Within 1 Month after installation.
F-21	Inspection, Testing & Maintenance (Fire)	Inspection, testing, and maintenance of the standpipe system are not in accordance with NFPA 25. Location(s): Production Building-1.	Inspect, test, and maintain the standpipe system and keep written records on-site, in accordance with NFPA 25 and RSC Technical Guidelines (Standard).	Within 1 Month after installation.

Table-2: Production Building-2

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-22	Means of Egress	The exit stairs are not separated from work areas on each floor by fire-rated construction. Location(s): Production Building-2. Non-Compliance: Fire doors were not properly functional, gap below fire doors were more than 19 mm, etc.	The exit stair enclosure shall be provided with a minimum 1-hr fire resistance rating for buildings with 3 or fewer stories. Provide 1-hr. fire-rated door and seal all penetrations and openings by 1 hr. fire rated fire rated barrier construction for buildings with 3 or fewer stories. Ensure that the fire doors are self-closing and positive latching, and that they are provided with fire exit (panic) hardware where serving floors. If fire doors are required to be held open for functional reasons, provide automatic closing devices tied to the fire alarm system. Keep proper datasheet & certifications for installed fire doors & accessories on-site for verification. The clearance under the bottom of a door shall be a maximum of 3/4 in. (19 mm). Ensure that the listing labels are clearly visible for the installed fire doors.	Within 3 Months

  				
F-23	Means of Egress	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes. Location(s): All floors, Production Building-2.	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. Illumination on means of egress shall meet in accordance with RSC Technical Guidelines (Standard), Section 10.12.2.	Within 3 Months
 				

F-24	Means of Egress	Unprotected opening within 10 ft horizontal distance from the discharge point where the elevation of the unprotected opening is less than 10 ft. Location(s): Both stairs; Production Building-2.	Provide protection of unprotected openings within 10 ft horizontal distance from discharge point where elevation of unprotected opening is less than 10 ft. The fire separation rating shall not be less than that of the exit stair enclosure.	Within 3 Months
				

F-25	Means of Egress	Storage areas discharge directly into the exit stair enclosure. Location(s): Both Exit Stairs, Production Building-2.	Openings from the exit enclosure to Storage areas shall be provided with a vestibule with fire-rated construction and openings in accordance with section 6.14.3 of RSC Technical Guidelines (Standard). Provide a min 1-hr fire-rated door on the exit stair side and a 1-hr fire-rated door on the Store, generator, sub-station room side. Ensure that the fire rating of the vestibule construction matches that of the exit stair enclosure as per RSC Technical Guidelines (Standard). section 6.14.3. The minimum width for vestibules shall not be less than 1.1m, and the length shall be 1.8m.	Within 3 Months
 				

F-26	Means of Egress	The common path of egress travel exceeds 23 meters (75 ft). Available: 85 ft. Location(s): 1st floor, Production Building-2.	Reconfigure the egress arrangement to reduce the maximum common path of travel to not more than 23 m. The common path of egress travel shall not exceed 23 m (75 ft). Section 6.13.2 of RSC Technical Guidelines (Standard) shall meet.	Within 3 Months
				
				

F-27	Means of Egress	The exits are not remotely located from each other such that a single fire event could compromise both exits of the building. Diagonal distance: 260 ft (approx.) Exit distance: 95 ft (less than 130 ft) Location(s): All floors, Production Building-2.	Provide additional exit or reconfigure the exit arrangement to ensure that the exit doors or means of egress openings are located a distance apart as per RSC Technical Guideline (Standard) section of 6.6.6.	Within 3 Months
 				

F-28	Means of Egress	Minimum ceiling height of the production floor is less than 3.3 meter for New Building. Location(s): Production Building-2.	The ceiling height of a production floor shall not be less than 3.3 meter as per article 1.2, chapter 1, part III and article 2.11, Part III, Chapter -2, BNBC 2020. 1.	Within 3 Months
				

F-29	Means of Egress	Directional signs are not provided where direction of the path of travel to an exit has changed. Location(s): Production Building-2.	Illuminated directional signs shall be provided where there is a change in the direction for the path of travel and the direction to an exit is not obvious in accordance with RSC Technical Guidelines (Standard) Section 6.11.3.	Within 1 Month
 				

F-30	Means of Egress	The exit ramp slope ratio does not comply with the RSC Technical Guidelines (Standard). Location(s): Both exits, Production Building-2.	The construction of slope in the direction of travel shall comply with the RSC Technical Guidelines (Standard), Section 6.10.	Within 3 Months
				

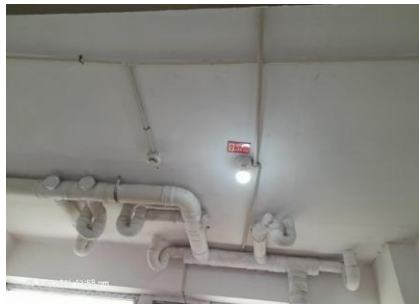
F-31	Means of Egress	Doors swing out over the stairs. Location(s): Ground floor, Utility Area. Production Building-2.	A landing shall be provided on both sides of doors used in the means of egress to facilitate uninterrupted egress of occupants. Door shall not swing out over stairs. Landings with same width as the stair clear width shall be provided at each level and at intermediate landings.	Within 3 Months
				

F-32	Fire Rated Construction	Generator & Compressor room is not properly separated by fire-rated construction from the surrounding Occupancies. Location(s): Ground floor, Production Building-2.	Generator room shall be separated from other occupancies by a minimum 2-hr fire-rated construction (wall, floor, slab, etc.). Seal all penetrations and openings (door, window, etc.), which should be protected by 1.5-hr fire-rated materials to maintain the fire separation if required. All exhaust systems shall discharge to the exterior of the building in a safe location. Or Relocate it to the exterior of the building and maintain a minimum 3m (10 ft.) spatial separation distance from the building. Generator room separation shall meet section 3.4.2.1.2 of RSC Technical Guideline (Standard)	Within 3 Months
 				

F-33	Fire Rated Construction	The fire pump room is not provided with adequate fire separation from the transformer room. Location(s): Ground floor, Production Building 2.	Provide fire pump room with 2 hr. rated fire separation when building is not fully sprinklered and 1 hr. rated fire separation when the building is provided with automatic sprinklers in accordance with NFPA 13. Or, Physically separate the pump room from the protected building by a minimum of 50 ft. (15.3 m) in accordance with NFPA 20. Provide direct access from the outside or provide a 2-hr enclosed passageway from an enclosed stairway or exterior exit.	Within 3 Months
				

F-34	Fire Rated Construction	Penetrations through floor/ceiling assemblies are found unsealed due to plastic pipes. Location(s): All floors, Production Building-2.	Seal all penetrations and openings in floor/ceiling assemblies by a listed through-penetration fire stop system tested in accordance with ASTM E814 or approved alternative standard to maintain a minimum 2-hr. fire resistance rating. Installation shall be as per the manufacturer's published installation guideline and the certification authority guideline to ensure the fire-rating in accordance with Section 4.7 of RSC Technical Guideline (Standard). Or, Provide a minimum 2-hour fire-rated shaft to separate the penetration from each floor if required.	Within 3 Months
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F-35	Fire Rated Construction	Penetrations through floor/ceiling assemblies are found unsealed due to BBT. Location(s): All floors, Production Building-2.	Seal all penetrations and openings in floor/ceiling assemblies by a listed through-penetration fire stop system tested in accordance with ASTM E814 or approved alternative standard to maintain a minimum 2-hr. fire resistance rating. Installation shall be as per the manufacturer's published installation guideline and the certification authority guideline to ensure the fire-rating in accordance with Section 4.7 of RSC Technical Guideline (Standard). Or, Provide a minimum 2-hour fire-rated shaft to separate the penetration from each floor if required.	Within 3 Months
 08 July 2026, 1:16 pm  08 July 2026, 1:15 pm				

F-36	Fire Rated Construction	Rooms used for storage of combustible materials are not separated from the surrounding production areas. Location(s): 1st & 2nd floors, Production Building-2.	Rooms used for storage of combustible materials shall be separated from the surrounding occupancy with a minimum 1 hour construction in accordance with section 3.4.2.1.5 of RSC Technical Guideline (Standard).	Within 3 Months
  				

F-37	Fire Rated Construction	Areas used for in-process storage of combustible materials are open to the surrounding occupancy. Location(s): 1st floor, Production Building-2.	Provide defined storage areas and limit the storage arrangement as follows: Maximum height of 2.45 m and maximum area of 23 m², and is separated by a minimum of 3.0 m (10ft) from other storage areas, and they do not exceed 10 percent of the building area of the story in which they occur. or, Enclose the storage area from the surrounding occupancy with a minimum 1-hour construction.	Within 3 Months
 08 July 2016 1:14 pm  08 July 2016 12:57 pm				

F-38	Fire Rated Construction	Storages were found underneath the cutting tables. Location(s): 2nd floor, Production Building-2.	Storage underneath the cutting tables shall be kept clear of combustibles at all time, except as provided for miscellaneous storage in accordance with 3.4.2.1.6 or , Where an automatic sprinkler system is installed sprinklers are required to be installed beneath cutting tables greater than 4 ft in width that are used for storage of combustibles.	Within 3 Months
				

F-39	Fire Rated Construction	Unprotected openings in the exterior wall on two consecutive floors lying within 1.5 m, and vertical spread of fire is not restricted. Location(s): Production Building-2.	Provide flame barriers as similar as sunshades or cornices or projected wall at least 750 mm from the external face of the exterior wall. The flame barrier shall have a fire resistance rating of not less than three-fourths hour. For new building, BNBC 2020 Part III chapter 3 clause 3.1.9.2	Within 6 Months
				

F-40	Fire Rated Construction	The required fire separation distance for Production Building-02 does not comply with the requirements of BNBC 2020. Location(s): Production Building-2.	The exterior walls shall have a fire resistance and opening protection as specified in BNBC 2020 Part 3 Table 3.2.2 & 3.2.3 and BNBC 2020 Part 3 Section 2.4.1.3.	Within 6 Months
				

F-41	Fire Alarm & Detection System (FADS)	The factory has installed a fire alarm and detection system that requires a detailed review to confirm compliance with NFPA 72 and RSC Technical Guidelines (Standard). Location(s): Production Building-2.	Submit the fire alarm and detection system design to RSC for review. Once the design is reviewed, install and modify the fire detection and alarm system throughout the building in accordance with review comment, RSC Technical Guidelines (Standard) and NFPA 72. After installation, the owner shall conduct internal testing and commissioning and then contact the RSC for witness of final acceptance testing.	Design within 2 Months and modification/ installation within 4 Months
				

F-42	Fire Suppression System (SUPS)	Fire extinguishers were found in several areas, but were placed on the floors. Location(s): All Buildings.	Install fire extinguishers at locations and heights in accordance with section 5.6 of RSC Technical Guideline (Standard).	Within 1 Month
				

F-43	Inspection, Testing & Maintenance (Fire)	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. Smoking sign shall post in accordance with section 13.5 of RSC Technical Guideline (Standard)	Within 1 Month
F-44	Inspection, Testing & Maintenance (Fire)	Fire drills are not conducted according to section 13.2 of RSC Technical Guidelines (Standard). Location(s): All Buildings.	Fire drills shall be conducted according to section 13.2 of RSC Technical Guidelines (Standard). Fire drills shall be conducted on a monthly basis as outlined in BNBC 2020 Part 4 Appendix A.	Within 1 Month
F-45	Inspection, Testing & Maintenance (Fire)	Inspection, testing, and maintenance for the fire alarm system are not in accordance with NFPA 72. Location(s): All Buildings.	Inspect, test and maintain the fire alarm system and keep written records on-site, in accordance with NFPA 72 and RSC Technical Guidelines (Standard).	Within 1 Month after installation

F-46	Inspection, Testing & Maintenance (Fire)	Inspection, testing, and maintenance of portable fire extinguishers is not in accordance with NFPA 10. Location(s): All Buildings.	Inspect, test and maintain the portable fire extinguishers and keep written records on- site, in accordance with NFPA 10 and RSC Technical Guidelines (Standard).	Within 1 Month
F-47	Inspection, Testing & Maintenance (Fire)	Inspection, testing, and maintenance for the exit sign and emergency lighting system were not in accordance with the RSC Technical Guidelines (Standard). Location(s): All Buildings.	Inspect, test and maintain the exit sign and emergency lighting system in the accordance with the RSC Technical Guidelines (Standard). Keep written records on-site.	Within 1 Month
F-48	Inspection, Testing & Maintenance (Fire)	The Building approval from the appropriate authority is not available/not updated. Location(s): All buildings.	Get all the required licenses and permits from the proper issuing authority and keep it at site.	Within 1 Month