

INITIAL FIRE SAFETY INSPECTION REPORT

Russel Apparels & Ekram Sweater Ltd (New Building)

RSC ID: 24262

ADDRESS: Kathali, Bhaluka, Mymensingh-2240

Geographical Coordinates of factory building: 24.380189,90.377680

Other Factories: Russel Apparels & Ekram Sweater Ltd- 9610



Inspected By: Mohammad Atick Al Zaman & Md. Anisuzzaman

Date: 14-November-2021

Fire Safety Inspection Report

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Introduction:

Russel Apparels & Ekram Sweater Ltd (New Building) was surveyed for fire safety on 14th November, 2021 by The RSC Inspection Team. 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 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. 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 RSC for approval

Findings & Recommendations :

Table 1- summarizes the fire safety non-compliant issues identified during the inspection. Recommendations have been provided to address each issue with specific remediation timeline.

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 approval.

Table-1: Findings & Recommendations for Factory building-2(new), Dining building & Utility

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire Rated Construction	Fire doors has been installed in the openings of required fire rated assemblies (Exit stairs, Storage rooms, and other occupancy separations), However, fire door were found with following issues- 1. Doors were kept open by means of door wedges. 2. Fire door smoke seal are damaged 3. Doors were found with excessive clearance. 4. Fire doors frames were found with holes that could impact the fire protection rating. Location: Exit stairs, Storage rooms of Factory building-2(New) & Dining building	Install the fire door as per NFPA 80. 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. The clearance under the bottom of a fire door shall be a maximum of 19mm. From edges and top shall be limited to a maximum 4.8 mm. All measurement shall be taken from the "pull side" of the door. Any modification of fire doors beyond the job site preparation shall be approved by the door manufacturer.	Within 3 months



F-2	Fire Rated Construction	Elevator shafts are directly open into the exit Enclosure. Location: Factory building-2(new) & Dining building	Modify the stair enclosure and elevator opening arrangement in a way to satisfy Accord standard 6.14.3. For new construction, elevators shall not open into an exit enclosure as per ACCORD-6.14.3. Elevator landing door shall be of 1.5-hr fire rated as per Accord standard 4.6 and shall be open in factory floor .	Within 3 months

F-3	Fire rated construction.	Storage room discharges directly into exit stair enclosure. Location: First floor of factory building-2(new)	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
F-4	Fire rated construction	Areas used for in-process storage of combustible materials are open to the surrounding occupancy. Location: Ground floor of factory building-2.	Provide defined storage areas and limit the storage arrangement as follows: Maximum height of 2.45 m and maximum area of 23 m ² and is separated by a minimum 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. If sprinkler protected, Maximum height 12 ft (3.66 m) and maximum area of 1000 ft ² (93 m ²) and separated by a at least 25 ft (7.62 m) from other storage areas and does not constitute more than 10 percent of the building area or 4000 ft ² (372 m ²) of the sprinklered area, whichever is greater. or, Enclose the storage area from the surrounding occupancy with a minimum 1 hour construction.	Within 3 months



F-5	Fire Rated Construction	Penetrations through fire rated floor/ceiling/wall assemblies are not properly sealed all floor of each level. Locations: Electrical riser ,Shaft enclosures	Seal all penetrations and openings in floor/ceiling (full thickness of the floor/ceiling) assemblies by minimum 3-hr fire-rated materials to maintain the required fire-resistance rating. If fire stopping materials with proprietary design are used for seal, then it shall be classified for the purpose it is used for. Also the installation shall be as per the proprietary design it has been tested with.	Within 3 months
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F-6	Fire rated construction.	Unsealed penetrations and openings are located in exit stair enclosures. Location: Dining building & Factory building -2	Seal all penetrations and openings in the wall of exit enclosure walls (full thickness of the wall) by fire rated materials to maintain the fire resistance rating.	Within 3 months
 				

F-7	Means of Egress	Exit stairs do not discharge directly to the outside. Location: Dining Building	Modify stair to discharge directly outside. Or Provide 2-hr fire-rated exit passageway leading directly outside (vestibules to separate any storage areas). Or Provide sprinkler protection for discharge floor in accordance with NFPA 13 meeting Accord 6.17.3..	Within 3months
				
F-8	Means of Egress	Aisles are not marked at 2nd floor of Factory building-2(new).	Aisles shall be provided with a minimum unobstructed clear- with of 0.9m (36 in). Means of egress shall be maintained continuously free and clear of all obstructions/storage.	within 3 month



F-9	Means of Egress	Parapets or guards are provided in occupied roof which is less than 1067mm (42 inch) Location: Factory building -2 new.	Provide parapets or guards with a minimum height of 1067mm (42 inch.).	Within 3 months
				

F-10	Means of Egress	Building did not have stair designation signs & exit designation signs at required locations.	Provide stair designation sign & exit 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.	Within 1 month
F-11	Means of Egress	Building did not have occupant load signs at required locations.	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.	Within 1 month
F-12	Means of Egress	Guards are not provided at falling hazards located at stair-2 of the dining building .	Provide all guards with a minimum height of 1067mm (42 inch.).	Within 1 month



F-13	Fire Rated Construction	The exit discharge path (Egress Court) was less than 10 ft wide and was not separated from the building interior. Location: North side of Factory building-2	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 2-hr fire separation. Means of egress shall be maintained continuously free and clear of all obstructions	Within 3 months
				
F-14	Egress Lighting	Exit sign not provided at required location at exit at required location. Location : Factory building-2(new) and Dining building.	Lighted exit signs shall be placed at entrance to an exit. Additional exit signs shall be placed throughout the facility anywhere the continuation of the egress is not obvious. Lighted exit signs shall be provided with either battery backup or uninterruptable power supply systems and shall be continuously illuminated.	Within 3 months

F-15	Egress lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes.	Test the emergency lighting system on each floor and provide additional emergency fixtures to provide adequate illumination along the means of egress. Provide a minimum illumination of 10 lux at the floor level within exit stairs and exit discharge paths and minimum 2.5 lux along exit access aisles.	Within 3 months
F-16	Egress lighting(ITM)	Inspection, testing, and maintenance for the exit sign and emergency lighting system was not in accordance with The ACCORD standard.	Inspect, test and maintain the exit sign and emergency lighting system in the accordance with The ACCORD standard. Keep written records on-site.	Within 3 months
F-17	Fire Alarm & Detection System (FADS)	The fire alarm and detection system installation requires detailed review to confirm compliance with NFPA 72. Location: all building.	Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review and approval/acceptance test.	Design within 2 months, Install within 4 months.

F-18	Fire Protection System(Standpipe)	Standpipe system installation requires detailed review to confirm compliance with NFPA 14 Location: All building	Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review and approval/acceptance test.	Design within 2 months, Install within 4 months.
F-19	Protection System(Pump)	Fire pump installation requires detailed review to confirm compliance with NFPA 20 and ACCORD standards.	Submit as-built drawings, testing records, equipment certification and other relevant documentation to the ACCORD for review and approval.	Design within 2 months, Install within 4 months.
F-20	Fire Protection System(ITM of Standpipe)	Inspection, testing, and maintenance for the Standpipe system is not in accordance with NFPA 14, 25 or as per Accord standard.	Inspect, test and maintain the Standpipe system, and keep written records on-site, in accordance with NFPA 14, 25 or as per Accord standard.	Within 1 month after installation.

F-22	Fire Protection System(ITM of Fire Pump)	Inspection, testing, and maintenance for the fire pump is not in accordance with NFPA 20, 25 or as per Accord standard.	Inspect, test and maintain the fire pump, and keep written records on-site, in accordance with NFPA 20, 25 or as per Accord standard.	Within 1 month after installation.
F-23	Fire Detection System (ITM of FADS)	Inspection, testing, and maintenance for the fire alarm system is not in accordance with NFPA 72 or as per Accord standard.	Inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72 or as per Accord standard.	Within 1 month after installation.
F-24	Fire Protection System(ITM of Extinguisher)	Inspection, testing, and maintenance of the extinguisher system is not in accordance with NFPA 10 or as per Accord standard.	Inspect, test and maintain the extinguisher system, and keep written records on-site, in accordance with NFPA 10 or as per Accord standard.	Within 3 months