

INITIAL FIRE SAFETY INSPECTION REPORT

Northern Corporation Ltd- Sreepur

RSC ID: 24125

Tepirbari, Sreepur, Gazipur, Bangladesh
Google Coordinates: 24.240190, 90.418861

Other Factories: Northern Garments Limited



Inspected By: Mohammad Atick Al Zaman & Md. Kamrul Hasan

Date: 05 January 2021

Fire Safety Inspection Report

Factory Name: Northern Corporation Ltd- Sreepur

Introduction:

Northern Corporation Ltd- Sreepur was surveyed for fire safety on 5 January, 2020 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 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.

Table-1:

SI No.	Category	Findings	Required Action	Remediation Time Frame
1	Fire Rated Construction	Exit stairs are not separated from work areas and other spaces on each floor by fire rated construction due to unprotected openings and penetrations.	Separate the exit stairs from work areas and other building spaces on all floor levels by minimum 2-hr fire rated construction. Provide minimum 1.5-hr fire rated doors and seal all unprotected openings and penetrations to maintain the fire separation. Ensure that all fire doors are self-closing and positive latching, and are provided with fire exit (panic) hardware where serving production floors or assembly occupancies. 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



2	Emergency Egress Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes. Location:-Throughout all the building.	Test the emergency lighting system on each floor and provide additional emergency fixtures to provide adequate illumination along the means of egress. Provide a minimum illumination of 10 lux at the floor level within exit stairs and exit discharge paths and minimum 2.5 lux along exit access aisles.	Within 3 months
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3	Storage in Exit Stair	Storage was located in exit stair (Production building ground floor).	Remove storage from the exit stairs and egress path.	Immediate
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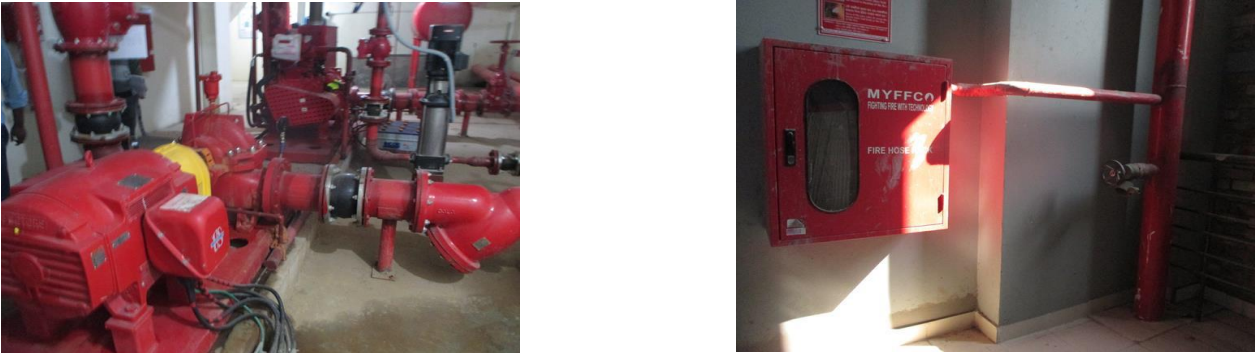
4	Opening/Penetration through Floor/Ceiling	Penetrations through floor/ceiling assemblies are found unsealed (production building 2nd floor to 3rd floor).	Seal all penetrations and openings in floor/ceiling (full thickness of the floor/ceiling) assemblies by fire rated materials to maintain the fire resistance rating. Provide a minimum 2-hr fire rated shaft to separate the utility risers from each floor if required.	within 3 months
 				

5	Elevator shaft	Elevator shaft is not separated by proper fire rated construction with production area in production building.	Provide a minimum 2-hr fire rated elevator shaft to separate it from each floor. Seal and/or protect all openings to maintain fire separations	within 3 months
				

6	Storage Areas	Areas used for in-process storage of combustible materials are open to the surrounding occupancy (Ground floor Production Building)	Provide defined storage areas and limit the storage arrangement as follows:- 1. General Condition: Maximum height of 2.4m and maximum area of 23m². Separate areas of unenclosed combustible storage by a minimum clear distance of 3m. 2. If sprinkler protected: maximum height of 3.66m and maximum area of 93m². Separate areas of unenclosed combustible storage by a minimum clear distance of 3m. or 3. Enclose the storage area from the surrounding occupancy with a minimum 1 hour construction.	within 3 months
 				

7	Fire Alarm & Detection system	Provide automatic alarm and notification features consistet with acceptable standards throughout the building. Fire detection system installation requires detailed review to confirm compliance with NFPA 72 and ACCORD standards.	Configure the fire alarm system to initiate automatic occupant notification on all floor levels to facilitate whole-building evacuation upon any manual fire alarm station activation. Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review and approval.	Within 6 months
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8	Fire Alarm & Detection system	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
9	Fire Protection	The existing factory building with an occupiable floor greater than 10 m (33 ft) above the finished grade is not protected with an approved standpipe system. Standpipe system installation requires detailed review to confirm compliance with NFPA 14.	Provide standpie system throughout the building in accordance with NFPA 14. Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review and approval.	Within 6 month
				

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 onsite, in accordance with NFPA 10.	Within 3months
11	Interior Exit Discharge	Exit stair(s) is discharge the occupants inside the building. Exit passageway is not separated by fire rated construction (Production building).	1. Modify stair to discharge directly outside. Or 2. Provide 2-hr fire-rated exit passageway leading directly outside (vestibules to separate any storage areas). Or 3. Provide sprinkler protection for discharge floor in accordance with NFPA 13.	within 3 months
 				

12	Connecting Bridge	The raised walkways between production building and warehouse building are not separated by fire-rated construction.	Provide 2 Hour fire rated construction or 1.5 hour fire-rated door. Seal all penetrations and openings to the interior of the building along the raised walkway up to a distance of 10 ft. to providing a minimum 1-hr fire separation.	Within 3 months
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