

FIRE SAFETY INSPECTION REPORT

DENITEX LIMITED

ACCORD ID: 12477

ADDRESS: 9/1, Karnapara, Savar, Dhaka-1340, Bangladesh.

Other Factories: None



Inspected By: Md. Mah mudur Rahman & Raju Ahmed

Date: March 22, 2016

Fire Safety Inspection Report

DENITEX LIMITED

Summary:

DENITEX Limited was surveyed for fire safety on 22th March 2016 by The Accord 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 Accord. The scope of this initial fire safety inspection was limited to the review and identification of major fire safety issues. The inspection did not include identification of minor deficiencies, which will be further addressed as part of follow-up inspections. Table 1 summarizes the major fire safety issues identified during the inspection.

Recommendations have been provided to address each issue.



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 Accord for approval.

SI No.	Category	Findings	Required Action	Remediation Time Frame	Pictorial Evidence
1	Fire Rated Construction	Generators, Transformer & Switchgears room are not properly separated by fire rated construction from each others. Location: Ground Floor, South Side.	Generator, Transformer & Switchgear room shall be separated from each other by a minimum 2-hr fire rated construction (wall, floor, slab etc.). Seal all penetrations and to maintain required fire separation provide 1.5-hr fire rated materials in the openings (door, window etc.) if required. All exhaust systems shall discharge to the exterior of the building in a safe location.	Within 3 months	



Sl No.	Category	Findings	Required Action	Remediation Time Frame	Pictorial Evidence
2	Fire Rated Construction	Fire pump room is not separated by fire rated construction.	The Pump room shall be separated from Transformer/Sub-station room by a minimum 2-hr fire rated construction (wall, floor, slab etc.). Seal all penetrations and openings (door, window etc.) 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. & Provide a safe exit to directly out site of the building.	Within 3 months	 The top photograph shows an interior room with several large electrical cabinets. A black arrow points to a specific area labeled 'Pump Room', and a white arrow points to another area labeled 'Oil Filled Transformer'. A timestamp '22/03/2016 11:49' is visible in the bottom right corner of the photo. The bottom photograph shows a concrete staircase with metal grates leading downwards, providing an exit from the room.



Sl No.	Category	Findings	Required Action	Remediation Time Frame	Pictorial Evidence
3	Fire Rated Construction	The exit stairs are not separated from work areas on each floor by fire-rated construction.	For non-sprinklered Building: Stair shall be enclosed with a minimum 2-hr fire-rated construction. Seal all unprotected openings and provide minimum 1.5-hr fire rated doors to separate the exit stairs from work areas and other building spaces on all floor levels. Ensure that the fire doors are self-closing, 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	



Sl No.	Category	Findings	Required Action	Remediation Time Frame	Pictorial Evidence
4	Fire Rated Construction	Rooms used for storage of combustible materials are not separated from the surrounding occupancy/areas.	Rooms used for storage of combustible materials shall be separated from the surrounding occupancy with a minimum 1 hour construction.	Within 3 months	

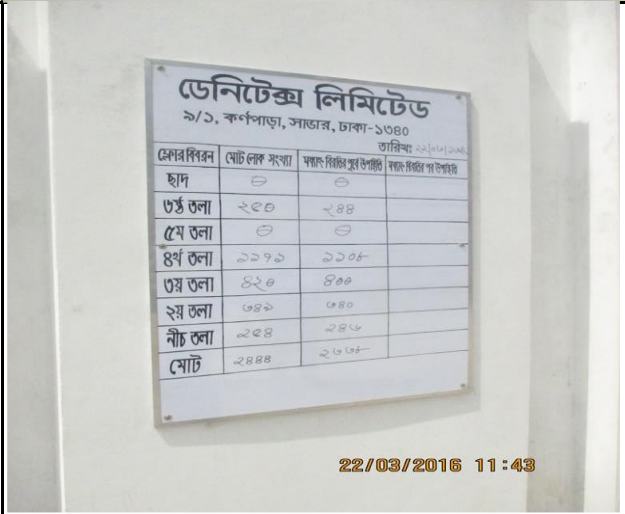


Sl No.	Category	Findings	Required Action	Remediation Time Frame	Pictorial Evidence
5	Fire Rated Construction	Areas used for in-process storage of combustible materials are open to the surrounding production areas	Provide defined storage areas and limit the storage arrangement as follows:- 1. General 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 1 month	

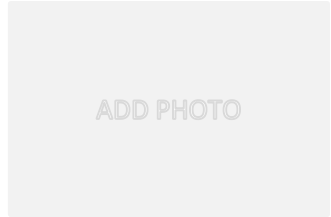


Sl No.	Category	Findings	Required Action	Remediation Time Frame	Pictorial Evidence
6	Fire Rated Construction	Unsealed Penetrations through floor/ceiling assemblies are observed. Location(s): Inside the production floor near South middle exit stair	Provide a minimum 2-hr fire rated shaft to separate the utility risers from each floor if required. Or 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.	Within 3 months	 



Sl No.	Category	Findings	Required Action	Remediation Time Frame	Pictorial Evidence
7	Egress	Exit capacity is not adequate for the occupant load. Floor: 3rd Floor Present Occupant Loads: 1171	1. Reduce occupant load to not more than available exit capacity. Or 2. Provide additional exits to increase exit capacity. Or 3. Provide an automatic sprinkler protection throughout the building in accordance with NFPA 13.	Within 3 months	
8	Egress	Each exit stairs serve more than 5 stories and do not have required re-entry provisions.	Every door in a stair enclosure serving more than 5 stories shall be provided with re-entry	Within 3 months	



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9	Egress	Dead-end corridor/aisle exceeds 15 m (50 ft) limit in fabric store room at ground floor.	Reconfigure the egress arrangement to reduce the maximum dead-end distance to not more than 15 m (50 ft) for non sprinklered building and Not more than 100 ft. for sprinklered building.	Within 03 Months	



Sl No.	Category	Findings	Required Action	Remediation Time Frame	Pictorial Evidence
10	Egress Lighting	Manual on-off switch is provided for [emergency lighting / exit signage] units.	Remove manual on/off switches from emergency lighting / exit signage units to prevent them from being switched off.	Within 1 month	



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11	Egress Lighting	Exit sign not provided on many exits.	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. And 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.	Immediately	

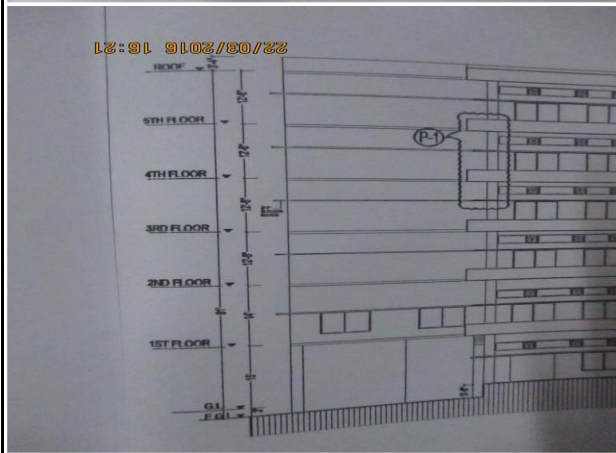


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12	Fire Detection System	The existing fire detection system is not a listed system and does not provide automatic alarm and notification features consistent with acceptable standards.	Replace the fire detection system with a new, listed addressable fire alarm system in accordance with NFPA 72.	Design within 04 Months & Installation Within 09 Months	



Sl No.	Category	Findings	Required Action	Remediation Time Frame	Pictorial Evidence
13	Fire Alarm System	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 3 months	



Sl No.	Category	Findings	Required Action	Remediation Time Frame	Pictorial Evidence
14	Fire Protection System	The existing high-rise building with an occupiable floor greater than 23 m (75 ft) (Based on Architectural Drawing) above the finished grade is not protected with an approved automatic sprinkler system. The large occupant loads, heavy fuel loading, and anticipated extended egress times warrant sprinkler protection.	Provide an automatic sprinkler protection throughout the building in accordance with NFPA 13. Note: If the 06 story existing building is not extend vertically, this issue will not be applicable. In that case The factory have to Provide a standpipe system (Class-III) throughout the building in accordance with NFPA 14.	Design within 06 Months & Installation Within 09 Months	 



Sl No.	Category	Findings	Required Action	Remediation Time Frame	Pictorial Evidence
15	Emergency Planning	Emergency evacuation plan have not found.	Develop an emergency evacuation plan	Within 01 Month	