

INITIAL FIRE SAFETY INSPECTION REPORT

Factory Name: Integra Design Ltd.

Factory ID: 24406

Address: 522, Dhour, Nishatnagar, Turag, Dhaka.

Google Coordinate: 23.892902, 90.377119

Other Factories: N/A



Inspected By: Nirmal Chandra Sinha and Md. Khalaquzzaman

Date: 16 May 2022

Introduction:

Integra Design Ltd. complex was surveyed for fire safety on 16/05/2022 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.

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 Findings & Recommendations:

SI No.	Category	Findings	Required Action	Remediation Time Frame
1	Fire Rated Construction	Building-2: The exit stairs are not separated from work areas and other spaces on first 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
 				

2	Fire Rated Construction	The exit discharge path serving west exit is less than 10 ft wide and is not separated from the building-1 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. Alternatively, provide a second remote discharge path to the public way (only include this if feasible).	Within 6 months
				

3	Fire Rated Construction	Generator and transformer rooms are not separated from each other by fire rated construction (openings, non-rated doors, penetrations) in utility & substation building-5.	Separate generator and transformer rooms by a minimum 2-hr fire-rated construction. Seal and/or protected all openings to maintain the required fire separations.	Within 3 months
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4	Fire Rated Construction	Gas cylinders (CNG) are not separated by fire-rated construction located near the boiler room on the ground floor.	The factory Shall follow TECHNICAL GUIDANCE NOTE FOR USE OF LIQUIFIED OR COMPRESSED FLAMMABLE GAS IN THE FACTORY PREMISES. LPG/CNG cylinders are permitted to be stored in a separate dedicated building on the factory premises within its boundaries if the building meets the following conditions. 1. The storage building must be at least 3 meters away from any other building and boundaries. 2. The exterior walls of the building must have a fire resistance rating of 3 hours using noncombustible construction. 3. Doors and other openings in the exterior walls must be protected with suitable closing devices having a fire protection rating of 3 hours. 4. The building is to be used for no other purpose than the storage of LPG/CNG cylinders. 5. The building must be mechanically ventilated to control the accumulation of flammable vapors. 6. The installations must be approved and accepted by the requirements of the AHJ, Gas supply company regulations, manufacturers/supplier's instructions/guidance, CIOB and all other applicable agencies, codes and standards.	Within 3 months
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5	Egress	Building-1: Egress doors with locking features are provided along egress routes. Egress gates with locking features are provided at building exits, exit stairs and exit discharge. All 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 RSC Technical Guidelines Standard (standard) 6.8.2.	Immediately
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6	Egress	Parapet height was found 28 inches in the building-1 on mezzanine.	Provide parapets or guards for all occupied roofs of a minimum height of 1067 mm (42 in.) as required.	Within 3 months



7	Fire Detection & Alarm System	<u>All buildings in the factory premises:</u> An addressable fire alarm system has installed in the factory building premises. Fire detection system installation requires to detailed review to confirm compliance with NFPA 72 and Accord standard for all buildings in the factory premises.	Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review and approval.	Design submission (Within 2 months), Modification within 4 months (if required)
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8	Inspection, Testing, and Maintenance of the Fire Detection & 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.	Within 1 months (after complete installation of listed fire alarm system)
9	Egress lighting	<u>All buildings in the factory premises:</u> Directional signs are not provided where direction of the path of travel to an exit has changed. Location: Production building-1 & 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.	Within 1 month

10	Emergency Lighting	<u>All buildings in the factory premises:</u> 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
11	Inspection, testing, and maintenance of Emergency light and Exit Sign	<u>All buildings in the factory premises:</u> Inspection, testing and maintenance for the emergency lighting system was not in accordance with the RSC standard.	Inspect, test and maintain the emergency lighting system in the accordance with the RSC standard. Keep written records on-site.	Within 3 months
12	Inspection, testing, and maintenance of Fire Extinguisher	<u>All buildings in the factory premises:</u> 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 3 months