

# **FIRE SAFETY INSPECTION REPORT**

## **S-21 APPARELS**

**276, NARSHINGHAPUR, ASHULIA, DHAKA-1341**

**OTHER FACTORIES: FARIHA ACCESSORIES &  
TRADING INT. LTD.**



**ACCORD**  
on Fire and Building Safety in Bangladesh



June 10, 2014

## **SUMMARY**

**S-21 Apparels was surveyed for fire safety on 6/10/2014 by Hughes Associates, Inc. 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.**

**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.**

**Table 1. Findings And Recommendations**

| No. | Category                   | Finding  | Recommendation   | Remediation<br>Timeframe |
|-----|----------------------------|--|--|--------------------------|
| F-1 | Fire Rated<br>Construction | Storage rooms used for combustibles were not separated by fire-rated construction on Floors G, 1, and 2. | Provide dedicated storage rooms separated by minimum 1-hr fire-rated construction. | Within 3<br>months       |



|     |                         |  |   |                 |
|-----|-------------------------|--|---|-----------------|
| F-2 | Fire Rated Construction | The boiler, generator and transformer were not separated from the egress paths by fire-rated construction. The boiler room is open to production areas on Floor 1 and the generator/transformer room is open to the West exit stair on the ground floor. | Separate the boilers, generator and transformer by a minimum 2-hr fire-rated construction. Seal and/or protect all openings to maintain the required fire separations | Within 3 months |
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| F-3 | Fire Rated Construction | The exit stairs were not separated from work or storage areas on each floor by fire-rated construction. | <p>Provide minimum 1.5-hr fire rated doors and seal all unprotected openings to separate the exit stairs from work areas and other building spaces on all floor levels. Provide vestibules to separate storage areas from egress paths. 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.</p> <p>If fire doors are required to be held open for functional reasons, provide automatic-closing devices tied to the fire alarm system.</p> | Within 3 months |
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| F-4 | Fire Rated Construction | Areas used for combustible storage were open to the factory floor on Floors G, 1, and 2. | <p>Provide dedicated storage rooms separated by minimum 1-hr fire-rated construction.</p> <p>Where separate storage rooms are not feasible, provide defined storage areas and limit the storage arrangement as follows:</p> <ul style="list-style-type: none"> <li>- Maximum height of 2.4m and maximum area of 23m<sup>2</sup></li> <li>- If sprinkler protected: maximum height of 3.66m and maximum area of 93m<sup>2</sup></li> </ul> <p>Separate areas of unenclosed combustible storage by a minimum clear distance of 3m.</p> | Within 3 months |
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| F-5 | Fire Rated Construction | Unsealed penetrations and openings are located in exit stair enclosures. An electrical parts room is open to the West exit stair on the first floor landing. | Remove electrical parts room from exit stair enclosure and seal all penetrations. | Within 3 months |
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| F-6 | Egress | <p>Egress doors / gates with locking features are provided at building exits, exit stairs, and exit discharge. Not locks were present, however the capability to lock the doors remained.</p> | <p>Remove locking features from all egress doors / gates.</p> <p>If locks are required for security reasons, utilize special door locking features complying with NFPA 101.</p> | Immediate |
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All gates/doors were open and unlocked during the inspection.



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| F-7 | Egress | <p>Storage was located on the ground floor of the West exit stair and Floors 1, 2, and 3 of the East exit stair.</p> | <p>Remove all storage from exit stairs.</p> | Immediate |
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| F-8 | Egress | Storage was located in the egress path on Floor 2. | Keep egress paths and stairs clear of storage. | Immediate |
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| F-9 | Egress | Collapsible gates / sliding doors are provided at building exits, exit stairs, and exit discharges. | <p>Replace all gates / sliding doors along the means of egress with side-hinged, swinging egress doors.</p> <p>If locks are required for security reasons, utilize special door locking features complying with NFPA 101.</p> | Within 1 month |
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| F-10 | Egress | The width of egress aisles was less than 36-in. on Floor 3. | Provide minimum aisle widths of 36-in. | Within 3 months |
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F-11 Egress

The day-care room does not have direct access to an exit stair and was not separated from the storage area.

Provide a minimum 2-hr fire-rated exit corridor between the day-care room and exit stair.

Within 3 months

-OR-

Relocate day-care room to ground floor with maximum travel distance of 9m (30 ft).



F-12 Egress

Both exit stairs discharge inside the building on the ground floor. Discharge is not separated from parking area, a storeroom, and the generator/transformer room.

Provide 2-hr fire-rated exit passageway leading directly outside (vestibules to separate any storage areas).

Within 6 months

-OR-

Provide sprinkler protection for discharge floor in accordance with NFPA 13.



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| F-13 | Fire Protection | Inspection, testing, and maintenance for the fire alarm system was 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 |
|------|-----------------|--|---|-----------------|



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| F-14 | Fire Protection | Inspection, testing, and maintenance of the automatic sprinkler system is not in accordance with NFPA 25. | Inspect, test and maintain the automatic sprinkler system, and keep written records on-site, in accordance with NFPA 25. | Within 3 months |
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| F-15 | Fire Protection | Sprinkler system is designed for upright sprinkler heads, however pendant type sprinkler heads area installed. | Install upright sprinkler heads in the sprinkler system. | Within 3 months |
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| F-16 | Fire Protection | Antiquated "dead-man" switches connected to a siren are provided on each floor in addition to the manual pull stations connected to the fire alarm panel. | Remove "dead-man" switches from factory floors. | Within 3 months |
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| F-17 | Egress Lighting | Manual on-off switch is provided for all battery backup emergency lighting units. | Remove manual on/off switches from emergency lighting units to prevent them from being switched off. | Within 1 month |
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| F-18 | Egress Lighting | Inspection, testing, and maintenance for the emergency lighting system was not in accordance with The ACCORD Standard. | Inspect, test and maintain the emergency lighting system in accordance with The ACCORD standard. Keep written records on-site. | Within 3 months |
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| F-19 | Egress Lighting | Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes on all floors. | 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 |
|------|-----------------|--|--|-----------------|

