

# **FIRE SAFETY INSPECTION REPORT**

**SHANTA DENIMS LTD**

**GANAKBARI, ASHULIA DHAKA-1349, BANGLADESH**

**OTHER FACTORIES: NONE**



April 30, 2014

## **SUMMARY**

**Shanta Denims Ltd was surveyed for fire safety on 4/30/2014 by Hughes Associates, Inc. This summary identifies the major deficiencies that were identified during the inspection.**

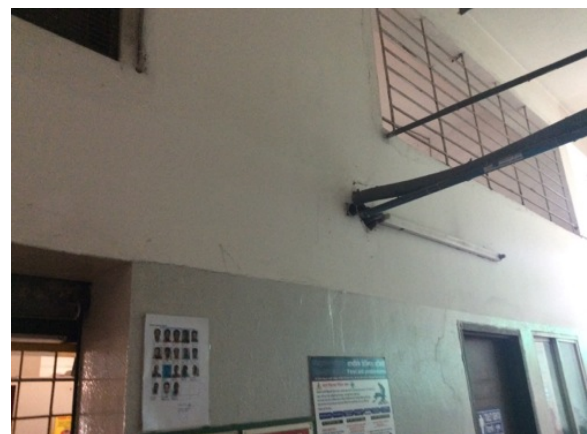
**The purpose of this survey was to identify significant fire safety issues and to provide recommendations for remediation based on applicable standards specified by the Accord. The scope of this initial fire safety inspection was limited to the review and identification of major fire safety issues. 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 Timeframe |
|-----|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| F-1 | Fire Rated Construction | The boiler / generator / transformer / EMR rooms are not separated by fire-rated construction (openings, non-rated doors, penetrations) on the ground floor and rooftop. | Separate the boiler / generator / transformer / EMR 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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|-----|-------------------------|---------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| F-2 | Fire Rated Construction | Areas used for combustible storage are not separated by fire-rated construction on the 1st and ground floors. | <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 Maximum height of 2.4m and maximum area of 23m<sup>2</sup></p> <p>or</p> <p>Separate areas of unenclosed combustible storage by a minimum clear distance of 3m.</p> <p>or</p> <p>Enclose the storage area with fire-rated construction from the factory area.</p> <p>or</p> <p>Provide an automatic sprinkler system.</p> | Within 3 months |
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|-----|-------------------------|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| F-3 | Fire Rated Construction | The exit stairs are not separated from work areas on each floor by fire-rated construction on every floor. | 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. 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. | Within 3 months |
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If fire doors are required to be held open for functional reasons, provide automatic-closing devices tied to the fire alarm system.



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| F-4 | Fire Rated Construction | Unsealed penetrations and openings are located in the fire-rated floor/ceiling assemblies. | Provide a minimum 2-hr fire-rated shaft to separate the utility risers from each floor level.<br>or<br>Seal all penetrations and openings in floor/ceiling assemblies to maintain the fire separation. | Within 3 months |
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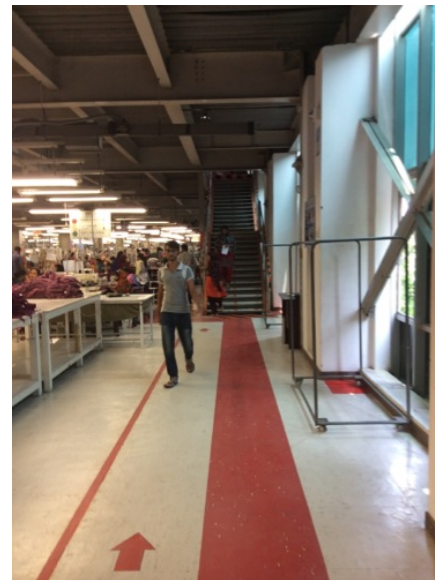
|     |                         |                                                                                         |                                                                                                   |                 |
|-----|-------------------------|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-----------------|
| F-5 | Fire Rated Construction | Unsealed penetrations and openings are located in exit stair enclosures on every floor. | Seal all penetrations and openings in exit stair enclosure walls to maintain the fire separation. | Within 3 months |
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| F-6 | Fire Rated Construction | Exit stair is not enclosed with fire-rated construction in the middle of the building | Enclose the exit stair with fire-rated construction. | Within 3 months |
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| F-7 | Fire Rated Construction | Covered discharge path to assembly point, with than 10 ft. building separation, has unprotected openings at a height of less than 10 ft on the N, S and E side of the building. | Remove the roof and seal all penetrations and openings to the interior of the building, up to a height of 10 ft., to maintain the fire separation. Alternately, provide a 2-hr fire rated enclosure (exterior building wall and roof). | Within 3 months |
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| F-8 | Egress | Storage was located in the exit stair on every floor. | Remove all storage from exit stairs and egress paths. | Immediate |
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| F-9 | Egress | Exit stair door does not swing in the direction of egress travel on every floor. | Modify the egress door to swing in the direction of egress travel. | Within 3 months |
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| F-10 | Egress | Exit capacity is not adequate for the occupant load every floor except the ground floor. | Reduce occupant load to not more than available exit capacity. | Within 3 months |
|------|--------|------------------------------------------------------------------------------------------|----------------------------------------------------------------|-----------------|

or

Provide additional exits.

or

Provide automatic sprinkler system.

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| F-11 | Egress | Handrails are not provided in the exit stair on 3rd floor. | Provide handrails on at least one side of exit stair. | Within 3 months |
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| F-12 | Fire Protection | Inspection, testing, and maintenance for the fire alarm system are not in compliance with NFPA72 | Inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72. | Within 3 months |
|------|-----------------|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------|