

FIRE SAFETY INSPECTION REPORT

**AMAN SWEATERS LTD.
RAJAGHAT, RAJFULBARIA, SAVAR, DHAKA**

OTHER FACTORIES: NONE



ACC  **RD**
on Fire and Building Safety in Bangladesh

March 24, 2014

SUMMARY


Aman sweaters Ltd. was surveyed for fire safety on 3/24/2014 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.

Tables 1 - 2 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 - Aman Sweaters building 1.

| No. | Category | Finding | Recommendation | Remediation Timeframe |
|--|-------------------------|--|---|-----------------------|
| F-1 | Fire Rated Construction | Areas used for combustible storage in ground floor are not separated by fire-rated construction. | Provide dedicated storage rooms separated by minimum 1-hr fire-rated construction. Seal all penetrations and openings to the interior of the building in wall assemblies to maintain the fire separation | Within 3 months |
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| F-2 | Fire Rated Construction | Unsealed penetrations and openings are located in exit stair enclosures. | Seal all penetrations and openings in exit stair enclosure walls to maintain the fire separation. | Within 3 months |



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|-----|-------------------------|---|--|-----------------|
| F-3 | Fire Rated Construction | The exit stairs are not separated from work areas, other spaces on each floor by fire-rated construction. | 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 |
| | | | 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 | The generator room is not separated by fire-rated construction, openings, non-rated doors and penetrations. | Separate the generator room by a minimum 2-hr fire-rated construction. Seal and protected all openings to maintain the required fire separations | Within 3 months |
|-----|-------------------------|---|--|-----------------|



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|-----|--------|---|---|-----------|
| F-5 | Egress | Storage was located in all the exit stairwells. | Remove all storage from exit stairs and egress paths. | Immediate |
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| F-6 | Egress | Egress doors and gates with locking features are provided at building exits, exit stairs and exit discharge. | 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. | Immediat |
|-----|--------|--|--|----------|



F-7 Egress

Collapsible gates and sliding doors are provided at building exits, exit stairs, exit discharge.

Replace all gates and sliding doors along the means of egress with side-hinged, swinging egress doors.

Within 1 month

If locks are required for security reasons, utilize special door locking features complying with NFPA 101.



F-8 Egress

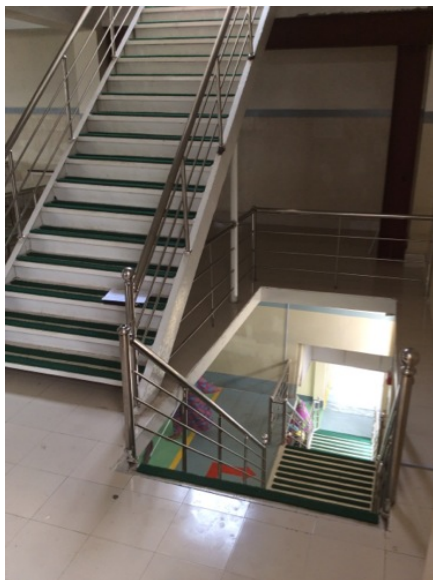
Fire doors were not provided with self closing device.

Provide fire doors with self closing device hardware already installed to all egress doors.

Within 1 month



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|-----|--------|---|--|-----------------|
| F-9 | Egress | The SE exit stair serving from the 4th floor is not continuously going down to the exit discharge floor and is finished on the 2nd floor. | Provide 2 hours fire rated and separated corridor from the landing area of SE exit stair to the NE exit stair on 2nd floor to provide continuous exit discharge. | Within 3 months |
|-----|--------|---|--|-----------------|



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|------|-----------------|--|--|---|
| F-10 | Fire Protection | The fire alarm system is antiquated, not a listed system, and does not provide alarm and notification features consistent with acceptable standards. | Replace the fire alarm system with a new, listed addressable fire alarm system in accordance with NFPA 72. | Design within 4 months, install within 9 months |
|------|-----------------|--|--|---|

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|------|-----------------|--|---|-----------------|
| F-11 | Fire Protection | Inspection, testing, and maintenance for the fire alarm system was not 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 |
| F-12 | Fire Protection | The building is equipped with single-station smoke alarms. Smoke alarm activation sounds only a local alarm and does not provide automatic fire alarm notification of occupants. | Replace the single-station smoke alarms with automatic smoke detectors tied into the fire alarm system. Configure the fire alarm system to initiate occupant notification upon activation of any two smoke detectors in addition to the manual fire alarm stations. | Within 6 months |



Table 2. Findings And Recommendations - Aman Sweaters building 2.

| No. | Category | Finding | Recommendation | Remediation Timeframe |
|-----|-------------------------|--|--|-----------------------|
| F-1 | Fire Rated Construction | Areas used for combustible storage in ground floor are not separated by fire-rated construction. | Where separate storage rooms are not feasible, provide defined storage areas and limit the storage arrangement as follows: - Maximum height of 2.4m and maximum area of 23m ² - If sprinkler protected: maximum height of 3.66m and maximum area of 93m ² Separate areas of unenclosed combustible storage by a minimum clear distance of 3m. | Within 3 months |



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|-----|-------------------------|---|---|-----------------|
| F-2 | Fire Rated Construction | The exit stairs are not separated from all floors by fire-rated construction. | 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. 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 |
| | | | | |
| F-3 | Egress | Sliding doors are provided at north exit stair. | Replace all gates and sliding doors along the means of egress with side-hinged, swinging egress doors. If locks are required for security reasons, utilize special door locking features complying with NFPA 101. | Within 1 month |



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|-----|-----------------|--|---|---|
| F-4 | Fire Protection | The fire alarm system is antiquated, not a listed system, and does not provide alarm and notification features consistent with acceptable standards. | Replace the fire alarm system with a new, listed addressable fire alarm system in accordance with NFPA 72. | Design within 4 months, install within 9 months |
| F-5 | 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 |
| F-6 | Fire Protection | The building is equipped with single-station smoke alarms. Smoke alarm activation sounds only a local alarm and does not provide automatic fire alarm notification of occupants. | Replace the single-station smoke alarms with automatic smoke detectors tied into the fire alarm system. Configure the fire alarm system to initiate occupant notification upon activation of any two smoke detectors in addition to the manual fire alarm stations. | Within 6 months |

