

FIRE SAFETY INSPECTION REPORT

**AMAN GRAPHICS & DESIGNS LTD.
NAZIMNAGAR, HEMAYETPUR, SAVAR**

OTHER FACTORIES: NONE



ACCORD
on Fire and Building Safety in Bangladesh

May 5, 2014

SUMMARY

Aman Graphics & Designs Ltd. was surveyed for fire safety on 5/5/2014 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 - 6 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 - Building 1

No.	Category	Finding	Recommendation	Remediation Timeframe
F-1	Fire Rated Construction	The exit stairs are not separated from work areas and other spaces on each floor by fire-rated doors.	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-2	Egress	Egress doors and gates with locking features are provided at most exit stair openings.	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.	Immediate
-----	--------	--	--	-----------



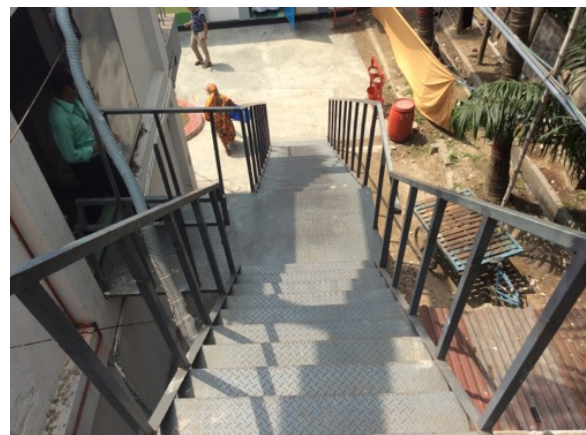
F-3	Egress	Sliding doors are provided at most exit stair openings.	Replace all gates and sliding doors along the means of egress with side-hinged, swinging egress doors. If locks are required for security reasons, utilize special door locking features complying with NFPA 101.	Within 1 month
-----	--------	---	--	----------------



F-4	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
-----	-----------------	--	---	-----------------

Table 2. Findings And Recommendations - Building 2

No.	Category	Finding	Recommendation	Remediation Timeframe
F-1	Fire Rated Construction	The exit stairs are not separated from work areas and other spaces on each floor by fire-rated doors.	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-2	Fire Rated Construction	Areas used for combustible storage are not separated by fire-rated construction. Combustible storage room on the ground floor is not separated from adjacent work areas by fire-rated construction.	Provide dedicated storage rooms separated by minimum 1-hr 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 23m² - 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.	Within 3 months
-----	-------------------------	---	--	-----------------



F-3	Egress	Egress doors and gates with locking features are provided at exit stair openings.	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.	Immediate
-----	--------	--	---	-----------



F-4	Egress	Exit capacity is not adequate for the occupant load. The dining area on the 2nd floor has a reported capacity of 350 occupants. The total exit stair capacity is 266 occupants.	Reduce occupant load to not more than available exit capacity immediately. If a greater occupant load is desired, provide additional exits.	Immediate
F-5	Egress	Sliding doors are provided at most exit stair openings.	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



F-6	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
-----	-----------------	--	---	-----------------

Table 3. Findings And Recommendations - Building 3

No.	Category	Finding	Recommendation	Remediation Timeframe
F-1	Egress	Egress doors and gates with locking features are provided at exit stair openings.	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.	Immediate



F-2	Egress	Exit capacity is not adequate for the occupant load. The dining room on 1st floor will reportedly have 350 occupants, and the exit stairs serving the 1st floor have a total capacity of 288 occupants.	Reduce occupant load to not more than available exit capacity immediately. If a greater occupant load is desired, provide additional exits.	Immediate
-----	--------	---	--	-----------

F-3	Egress	Sliding doors are provided at most exit openings.	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-4	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
-----	-----------------	--	---	-----------------

Table 4. Findings And Recommendations - Shed 1

No.	Category	Finding	Recommendation	Remediation Timeframe
F-1	Fire Rated Construction	Areas used for combustible storage are not separated by fire-rated construction. Finished goods storage is not separated from adjacent work areas by fire rated construction.	Provide dedicated storage rooms separated by minimum 1-hr 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 23m² - 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.	Within 3 months



F-2	Egress	Egress doors and gates with locking features are provided at all exit openings.	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.	Immediate
-----	--------	---	--	-----------



F-3	Egress	Sliding doors are provided at multiple exit openings.	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
-----	--------	---	--	----------------



F-4	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
-----	-----------------	--	---	-----------------

Table 5. Findings And Recommendations - Shed 2/Office Building

No.	Category	Finding	Recommendation	Remediation Timeframe
F-1	Fire Rated Construction	Areas used for combustible storage are not separated by fire-rated construction. Finished goods storage is not separated from adjacent work areas by fire rated construction.	Provide dedicated storage rooms separated by minimum 1-hr 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 23m² - 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.	Within 3 months



F-2	Fire Rated Construction	The transformer room is not separated by fire-rated construction from the adjacent work areas due to a partial-height wall.	Separate the transformer room by a minimum 2-hr fire-rated construction. Seal and/or protected all openings to maintain the required fire separations	Within 3 months
-----	-------------------------	---	---	-----------------



F-3	Egress	Egress doors and gates with locking features are provided at building exits.	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.	Immediate
-----	--------	--	---	-----------



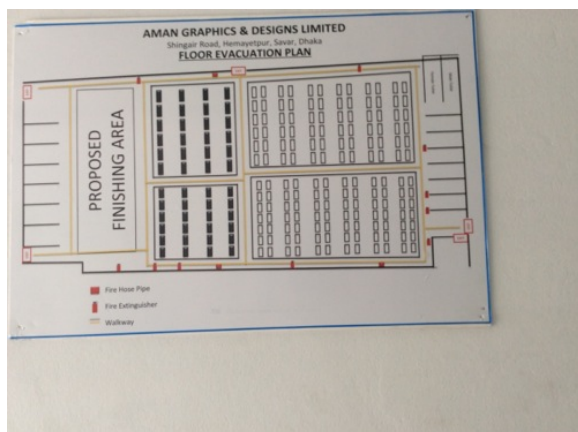
F-4	Egress	Sliding doors are provided at most exit openings.	Replace all gates and sliding doors along the means of egress with side-hinged, swinging egress doors. If locks are required for security reasons, utilize special door locking features complying with NFPA 101.	Within 1 month
-----	--------	---	--	----------------



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
-----	-----------------	--	---	-----------------

Table 6. Findings And Recommendations - Shed 3

No.	Category	Finding	Recommendation	Remediation Timeframe
F-1	Fire Rated Construction	Areas intended for future combustible storage are not separated by fire-rated construction.	Provide dedicated storage rooms separated by minimum 1-hr 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 23m² - 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.	Within 3 months



F-2	Egress	Egress doors and gates with locking features are provided at building exits.	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.	Immediate
-----	--------	--	--	-----------



F-3	Egress	Sliding doors are provided at most building exits.	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
-----	--------	--	--	----------------



F-4	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-5	Fire Protection	No fire detection system was provided in the building at the time of the inspection. Smoke detectors tied-up to the fire alarm panel were being installed.	Provide automatic smoke detection throughout the building in accordance with NFPA 72.	Within 6 months

