

# **FIRE SAFETY INSPECTION REPORT**

## **APEX TEXTILE PRINTING MILLS CHANDORA, POST SHAFIPUR, THANA, KAILAKOIR DISTRICT**

**OTHER FACTORIES: NONE**



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

March 27, 2014

## **SUMMARY**

**Apex Textile Printing Mills** was surveyed for fire safety on 3/27/2014 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 - Building 15**

| No. | Category                | Finding                                                                                     | Recommendation                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Remediation Timeframe |
|-----|-------------------------|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| F-1 | Fire Rated Construction | The exit stairs are not separated from work 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. 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       |



|     |                         |                                                                                                            |                                                                                    |                 |
|-----|-------------------------|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------|
| F-2 | Fire Rated Construction | Storage rooms used for combustible storage on floors 2 and 6 are not separated by fire-rated construction. | Provide dedicated storage rooms separated by minimum 1-hr fire-rated construction. | Within 3 months |
|-----|-------------------------|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------|



|     |        |                                                                                                                        |                                                                                                                                                                          |           |
|-----|--------|------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| F-3 | Egress | Sliding gates, sliding doors and rollup doors with locking features are provided at building exits and exit discharge. | Remove locking features from all egress doors / gates.<br><br>If locks are required for security reasons, utilize special door locking features complying with NFPA 101. | Immediate |
|-----|--------|------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|



|     |        |                                                  |                                                       |           |
|-----|--------|--------------------------------------------------|-------------------------------------------------------|-----------|
| F-4 | Egress | Storage was located in the Southeast exit stair. | Remove all storage from exit stairs and egress paths. | Immediate |
|-----|--------|--------------------------------------------------|-------------------------------------------------------|-----------|



|     |        |                                                                     |                                                                                                      |                |
|-----|--------|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|----------------|
| F-5 | Egress | Collapsible gates / sliding doors are provided along egress routes. | Replace all gates / 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.

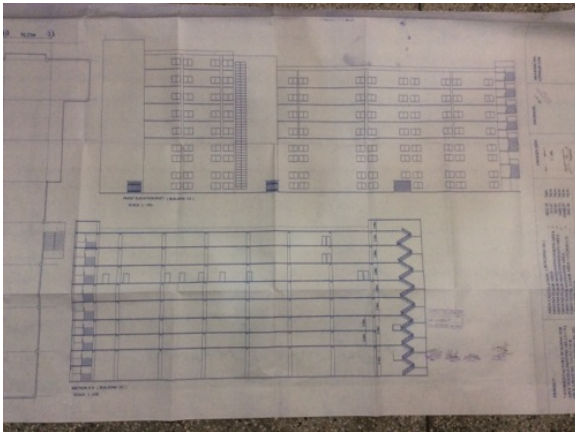


|     |        |                                                                                        |                                        |                 |
|-----|--------|----------------------------------------------------------------------------------------|----------------------------------------|-----------------|
| F-6 | Egress | The width of egress aisles is less than 36-in. adjacent to printing tables on floor 4. | Provide minimum aisle widths of 36-in. | Within 3 months |
|-----|--------|----------------------------------------------------------------------------------------|----------------------------------------|-----------------|



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|-----|--------|----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| F-7 | Egress | Exit capacity is not adequate on floors 3, 4, and 5 for the occupant load. | <p>Immediately reduce occupant load to not more than available exit capacity.</p> <p>If possible, provide additional exits for increased exit capacity.</p> | Within 3 months |
|-----|--------|----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|

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|-----|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------|
| F-8 | Fire Protection | The high-rise building has an occupied floor greater than 23m (75 ft) and is not provided with automatic sprinkler protection. The large occupant loads, heavy fuel loading, and anticipated extended egress times warrant sprinkler protection. | Provide automatic sprinkler protection throughout the building in accordance with NFPA 13. | Design within 6 months, install within 12 months |
|-----|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------|



|     |                 |                                                                                                  |                                                                                                                 |                 |
|-----|-----------------|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------|
| F-9 | Fire Protection | Inspection, testing, and maintenance of the fire alarm system is 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-10 | Egress Lighting | Inspection, testing, and maintenance records for the emergency lighting system were not available. | 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-11 | Egress Lighting | Exit signage not illuminated on floor 6. | Regularly inspect all exit signage and replace/install lights as needed to illuminate signs. | Within 3 months |
|------|-----------------|------------------------------------------|----------------------------------------------------------------------------------------------|-----------------|



**Table 2. Findings And Recommendations - Building 16**

| No. | Category                | Finding                                                                                                 | Recommendation                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Remediation Timeframe |
|-----|-------------------------|---------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| F-1 | Fire Rated Construction | The exit stairs are not separated from work 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. 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       |
| F-2 | Egress                  | Sliding gates and rollup doors with locking features are provided at building exits and exit discharge. | <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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|     |        |                                                                     |                                                                                                            |                |
|-----|--------|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|----------------|
| F-3 | Egress | Collapsible gates / sliding doors are provided along egress routes. | Replace all gates / 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. |                |

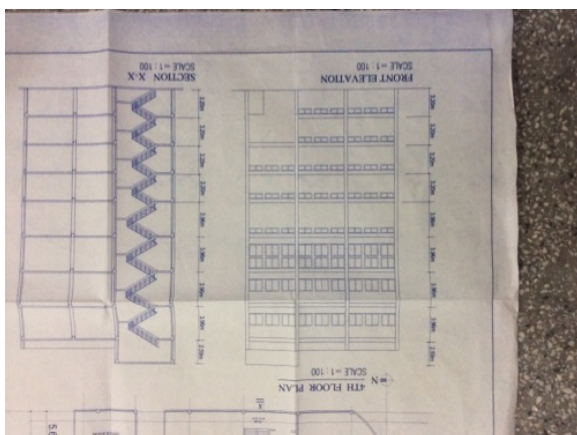


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|     |        |                                             |                                                       |                 |
|-----|--------|---------------------------------------------|-------------------------------------------------------|-----------------|
| F-4 | Egress | Storage was located in the East exit stair. | Remove all storage from exit stairs and egress paths. | Within 3 months |
|-----|--------|---------------------------------------------|-------------------------------------------------------|-----------------|



|     |                 |                                                                                                                                                                                                                                                                       |                                                                                                   |                                                         |
|-----|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------|
| F-5 | Fire Protection | <p>The high-rise building has an occupied floor greater than 23m (75 ft) and is not provided with full building automatic sprinkler protection. The large occupant loads, heavy fuel loading, and anticipated extended egress times warrant sprinkler protection.</p> | <p>Provide automatic sprinkler protection throughout the building in accordance with NFPA 13.</p> | <p>Design within 6 months, install within 12 months</p> |
|-----|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------|



|     |                 |                                                                                                  |                                                                                                                 |                 |
|-----|-----------------|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------|
| F-6 | Fire Protection | Inspection, testing, and maintenance of the fire alarm system is 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-7 | Egress Lighting | Inspection, testing, and maintenance records for the emergency lighting system were not available. | 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-8 | Egress Lighting | Emergency lighting did not function in test mode (burned out, broken, etc.). in multiple locations. | Regularly test the emergency lighting system on each floor and replace/repair lights as needed. | Within 3 months |
|-----|-----------------|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-----------------|

