

# **FIRE SAFETY INSPECTION REPORT**

## **ESQUIRE KNIT COMPOSITE LTD**

**22/58, KANCHPUR, SONARGAON, NARAYANGONJ**



March 12, 2014

## **SUMMARY**

**Esquire Knit Composite Ltd was surveyed for fire safety on 3/12/2014 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 - 4 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 - Esquire Knit Composite(12Stories)**

| No.                                                                                                                                                                                                                                       | Category                | Finding                                                                                                             | Recommendation                                                                                                                                                | Remediation Timeframe |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| F-1                                                                                                                                                                                                                                       | Fire Rated Construction | Unsealed penetrations and openings are located in exit stair enclosures at the 12th floor.                          | Seal all penetrations and openings in exit stair enclosure walls to maintain the fire separation.                                                             | Within 3 months       |
| <div style="display: flex; justify-content: space-around;">   </div> |                         |                                                                                                                     |                                                                                                                                                               |                       |
| F-2                                                                                                                                                                                                                                       | Fire Rated Construction | The elevator mechanical room is not separated by fire-rated construction (openings, non-rated doors, penetrations). | Separate the elevator mechanical room 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-3 | Fire Rated Construction | The exit stairs are not separated from work areas and other spaces 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 |
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| F-4 | Fire Rated Construction | Unsealed penetrations and openings in the 12th floor 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-5 | Fire Rated Construction | Unsealed penetrations and openings are located in the fire-rated floor/ceiling assemblies at the 11th floor. | Provide a minimum 2-hr fire-rated shaft to separate the utility risers from each floor level.<br><br>Seal all penetrations and openings in floor/ceiling assemblies to maintain the fire separation. | Within 3 months |
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| F-6 | Fire Rated Construction | Areas used for combustible storage several floors are not separated by fire-rated construction. | <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-7 | 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-8 | Fire Rated Construction | Hazardous materials / flammable liquid storage area is not separated by fire-rated construction (openings, non-rated doors, penetrations). | Separate the hazardous materials / flammable liquid storage room 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-9 | Fire Rated Construction | Unsealed penetrations and openings in the 6th floor are located in the fire-rated floor/ceiling assemblies. | <p>Provide a minimum 2-hr fire-rated shaft to separate the utility risers from each floor level.</p> <p>Seal all penetrations and openings in floor/ceiling assemblies to maintain the fire separation.</p> | Within 3 months |
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| F-10 | Fire Rated Construction | Hazardous materials / flammable liquid storage area in the 6th floor is not separated by fire-rated construction (openings, non-rated doors, penetrations). | Separate the hazardous materials / flammable liquid storage room 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-11 | Fire Rated Construction | The compressor room is not separated by fire-rated construction (openings, non-rated doors, penetrations). | Separate the compressor room 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-12 | Fire Rated Construction | Unsealed penetrations and openings in the 1st floor 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><br>Seal all penetrations and openings in floor/ceiling assemblies to maintain the fire separation. | Within 3 months |
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| F-13 | Fire Rated Construction | Storage rooms used for combustible storage in several floors are not separated by fire-rated construction. | Provide dedicated storage rooms separated by minimum 1-hr fire-rated construction. | Within 3 months |
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| F-14 | Egress | Egress doors / gates with locking features are provided at building exits and exit stairs<br><br>All gates/doors were open and unlocked during the inspection. | 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 |
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| F-15 | Egress | Storage was located in the egress path at the 11th floor. | Keep egress paths and stairs clear of storage. | Immediate |
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| F-16 | Egress | A single means of egress in the 6th floor is provided from area where the occupant load exceeds 49 persons. | Reduce occupant load to not more than 49 persons and Provide additional means of egress in the future to increase capacity. | Immediate |
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| F-17 | Egress | Storage in the 3rd floor was located in the egress path. | Keep egress paths and stairs clear of storage. | Immediate |
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| F-18 | Egress | Exit stair door / egress door serving 50 or more occupants does not swing in the direction of egress travel at the 12th floor. | Modify the egress door to swing in the direction of egress travel. | Within 3 months |
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| F-19 | Egress | Common path of egress travel exceeds 30 m. in the 5th floor. | Reconfigure the egress arrangement to reduce the maximum common path of travel to not more than 30 m. | Within 3 months |
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| F-20 | Egress | Exit stair door / egress door serving 50 or more occupants does not swing in the direction of egress travel at the 1st floor. | Modify the egress door to swing in the direction of egress travel. | Within 3 months |
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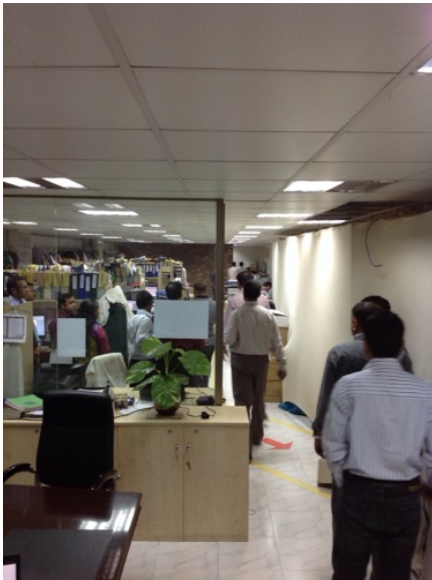
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| F-21 | Egress | Common path of egress travel exceeds 30 m. in the ground floor. | Reconfigure the egress arrangement to reduce the maximum common path of travel to not more than 30 m. | Within 3 months |
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| F-22 | Egress | The width of egress aisles is less than 36-in. at the 1st floor. | Provide minimum aisle widths of 36-in. | Within 3 months |
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| F-23 | Egress | Exit stair door / egress door serving 50 or more occupants does not swing in the direction of egress travel at the ground floor. | Modify the egress door to swing in the direction of egress travel. | Within 3 months |
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| F-24 | Egress | The exits are not remotely located from each other such that a single fire event could compromise both exits at the ground floor. | Modify exit arrangement or<br>Provide additional exit(s) or<br>Provide sprinkler protection in accordance with NFPA 13. | Within 3 months |
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| F-25 | Egress | Storage was located in the exit stair. | Remove all storage from exit stairs and egress paths. | Within 3 months |
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| F-26 | Egress | Exit stairs discharge inside the building. | Provide 2-hr fire-rated exit passageway leading directly outside (vestibules to separate any storage areas) or Provide sprinkler protection for discharge floor in accordance with NFPA 13. | Within 6 months |
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| F-27 | 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-28 | Fire Protection | Activation of the fire alarm system by a manual fire alarm station provides automatic occupant notification only on the floor of alarm and not throughout the building.                                                                          | Configure the fire alarm system to initiate automatic occupant notification on all floor levels to facilitate whole-building evacuation upon any manual fire alarm station activation. | Within 1 months                                  |
| F-29 | 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                                  |

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| F-30 | Egress Lighting | Manual on-off switch in several floors is provided for emergency lighting / exit signage units. | Remove manual on/off switches from emergency lighting / exit signage units to prevent them from being switched off. | Within 1 month |
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| F-31 | Egress Lighting | Exit sign not provided at the 5th floor exit. | Provide exit signs above all exits to the exterior and all doors to the exit stairs. | Within 3 months |
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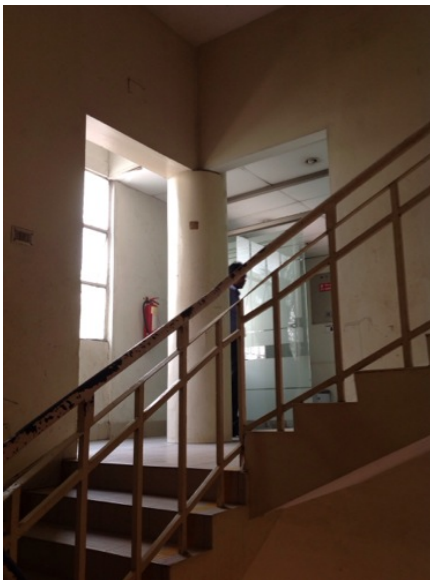
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| F-32 | Egress Lighting | Inspection, testing, and maintenance for the emergency lighting system were in accordance with the ACCORD standard. | Inspect, test and maintain the emergency lighting system in accordance with The ACCORD standard. Keep written records on-site. | Within 3 months |
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**Table 2. Findings And Recommendations - Fabric Dyeing Shed**

| No.                                                                                                                                                                                                                                       | Category                | Finding                                                                                                                                    | Recommendation                                                                                                                                                                            | Remediation Timeframe |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| F-1                                                                                                                                                                                                                                       | Fire Rated Construction | The boiler room is not separated by fire-rated construction (openings, non-rated doors, penetrations).                                     | Separate the boiler room by a minimum 2-hr fire-rated construction. Seal and/or protected all openings to maintain the required fire separations                                          | Within 3 months       |
| <div style="display: flex; justify-content: space-around;">   </div> |                         |                                                                                                                                            |                                                                                                                                                                                           |                       |
| F-2                                                                                                                                                                                                                                       | Fire Rated Construction | Hazardous materials / flammable liquid storage area is not separated by fire-rated construction (openings, non-rated doors, penetrations). | Separate the hazardous materials / flammable liquid storage room 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-3 | Fire Rated Construction | The exit stairs are not separated from work areas and other spaces 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 |
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|-----|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| F-4 | Fire Rated Construction | Areas used for combustible storage in the 1st floor are not separated by fire-rated construction.                                                                      | <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 |
| F-5 | Egress                  | <p>Egress doors / gates with locking features are provided at building exits and exit stairs.</p> <p>All gates/doors were open and unlocked during the inspection.</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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| F-6 | Egress | Storage was located in the exit stair. | Remove all storage from exit stairs and egress paths. | Immediate |
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| F-7 | Egress | Collapsible gates / sliding doors are provided at building exits and exit stairs. | Replace all gates / sliding doors along the means of egress with side-hinged, swinging egress doors. | Within 1 month |
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If locks are required for security reasons, utilize special door locking features complying with NFPA 101.





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| F-8 | Egress | No emergency evacuation plan was provided in the building.   | Provide Emergency Evacuation Plans.                                                                   | Within 1 month  |
| F-9 | Egress | Common path of egress travel exceeds 30 m. in the 1st floor. | Reconfigure the egress arrangement to reduce the maximum common path of travel to not more than 30 m. | Within 3 months |



|      |                 |                                                                                                                                                      |                                                                                                            |                                                 |
|------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| 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 | Activation of the fire alarm system by a manual fire alarm station provides automatic occupant notification only on the floor of alarm and not throughout the building. | Configure the fire alarm system to initiate automatic occupant notification on all floor levels to facilitate whole-building evacuation upon any manual fire alarm station activation. | Within 1 months |
|------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|

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| F-12 | 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 |
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| F-13 | 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. | Remove single-station smoke alarms. Provide automatic smoke detection throughout the building, tied into the fire alarm system, in accordance with NFPA 72. | Within 6 months |
|------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|

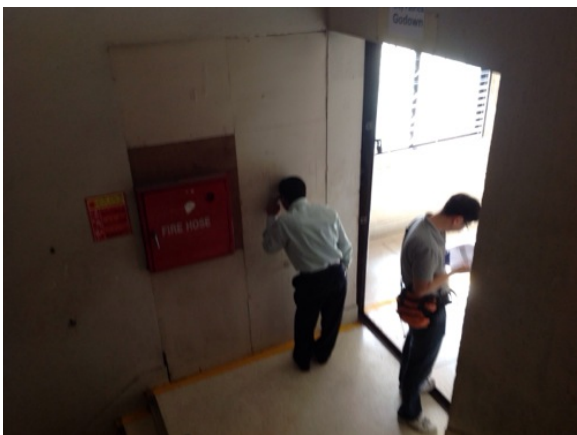


|      |                 |                                                                               |                                                                                                                     |                |
|------|-----------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|----------------|
| F-14 | Egress Lighting | Manual on-off switch is provided for emergency lighting / exit signage units. | Remove manual on/off switches from emergency lighting / exit signage units to prevent them from being switched off. | Within 1 month |
|------|-----------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|----------------|

|      |                 |                                                                                                                     |                                                                                                                                |                 |
|------|-----------------|---------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-----------------|
| F-15 | Egress Lighting | Inspection, testing, and maintenance for the emergency lighting system were 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 |
|------|-----------------|---------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-----------------|

**Table 3. Findings And Recommendations - Esquire Knit Composite(4Stories)**

| 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 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 | Unsealed penetrations and openings are located in the fire-rated floor/ceiling assemblies at the 2nd floor. | Provide a minimum 2-hr fire-rated shaft to separate the utility risers from each floor level. | Within 3 months |
|-----|-------------------------|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------|



|     |                         |                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |
|-----|-------------------------|----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| F-3 | Fire Rated Construction | Areas used for combustible storage in several floors are not separated by fire-rated construction. | <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-4 | Egress | Storage was located in the exit stair. | Remove all storage from exit stairs and egress paths. | Immediate |
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|-----|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| F-5 | Egress | Egress doors / gates with locking features are provided at building exits and exit stairs.<br><br>All gates/doors were open and unlocked during the inspection. | 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-6 | Egress | Exit capacity in the 3rd floor(346persons) is not adequate for the occupant load (720persons). | Reduce occupant load to not more than available exit capacity and<br>Provide additional exits in the future to increase capacity. | Immediate       |
| F-7 | Egress | Handrails are not provided in the exit stair at the ground floor.                              | Provide handrails on at least one side of exit stair.                                                                             | Within 3 months |



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| F-8 | Egress | Exit stair landing is not provided on both sides of doors. | A landing shall be provided on both sides of doors used in the means of egress. | Within 3 months |
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|-----|--------|--------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-----------------|
| F-9 | Egress | The exits are not remotely located from each other such that a single fire event could compromise both exits at the 3rd floor. | Modify exit arrangement or<br>Provide additional exits or<br>Provide sprinkler protection in accordance with NFPA 13. | Within 3 months |
|-----|--------|--------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-----------------|



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|------|--------|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-----------------|
| F-10 | Egress | Common path of egress travel exceeds 30 m in the 3rd floor. | Reconfigure the egress arrangement to reduce the maximum common path of travel to not more than 30 m. | Within 3 months |
|------|--------|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-----------------|



|      |        |                                                             |                                                                                                       |                 |
|------|--------|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-----------------|
| F-11 | Egress | Common path of egress travel exceeds 30 m in the 2nd floor. | Reconfigure the egress arrangement to reduce the maximum common path of travel to not more than 30 m. | Within 3 months |
|------|--------|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-----------------|



|      |                 |                                                                                                                                                      |                                                                                                            |                                                 |
|------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| F-12 | 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-13 | Fire Protection | Activation of the fire alarm system by a manual fire alarm station provides automatic occupant notification only on the floor of alarm and not throughout the building.          | Configure the fire alarm system to initiate automatic occupant notification on all floor levels to facilitate whole-building evacuation upon any manual fire alarm station activation. | Within 1 months |
| F-14 | 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-15 | 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. | Remove single-station smoke alarms. Provide automatic smoke detection throughout the building, tied into the fire alarm system, in accordance with NFPA 72.                            | Within 6 months |



|      |                 |                                                                                                                     |                                                                                                                                |                 |
|------|-----------------|---------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-----------------|
| F-16 | Egress Lighting | Manual on-off switch in several floors is provided for emergency lighting / exit signage units.                     | Remove manual on/off switches from emergency lighting / exit signage units to prevent them from being switched off.            | Within 1 month  |
| F-17 | Egress Lighting | Inspection, testing, and maintenance for the emergency lighting system were 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 |

**Table 4. Findings And Recommendations - Esquire Knit Composite(5Stories)**

| No.                                                                                                                                                                                                                                       | Category                | Finding                                                                                                                                    | Recommendation                                                                                                                                                                            | Remediation Timeframe |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| F-1                                                                                                                                                                                                                                       | Fire Rated Construction | Hazardous materials / flammable liquid storage area is not separated by fire-rated construction (openings, non-rated doors, penetrations). | Separate the hazardous materials / flammable liquid storage room by a minimum 2-hr fire-rated construction. Seal and/or protected all openings to maintain the required fire separations. | Within 3 months       |
| <div style="display: flex; justify-content: space-around;">   </div> |                         |                                                                                                                                            |                                                                                                                                                                                           |                       |
| F-2                                                                                                                                                                                                                                       | Fire Rated Construction | The electric panel and transformer rooms are not separated by fire-rated construction (openings, non-rated doors, penetrations).           | Separate the EMR and transformer rooms 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 | Fire Rated Construction | The boiler and generator rooms are not separated by fire-rated construction (openings, non-rated doors, penetrations). | Separate the boiler and generator rooms by a minimum 2-hr fire-rated construction. Seal and/or protected all openings to maintain the required fire separations | Within 3 months |
|-----|-------------------------|------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|



|     |                         |                                                                                                      |                                                                                                                                                |                 |
|-----|-------------------------|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| F-4 | Fire Rated Construction | The pump room is not separated by fire-rated construction (openings, non-rated doors, penetrations). | Separate the pump 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-5 | Fire Rated Construction | The exit stairs are not separated from work areas and other spaces 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 |
|-----|-------------------------|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|



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|-----|-------------------------|---------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------|
| F-6 | Fire Rated Construction | Rooms used for combustible storage in the 4th floor are not separated by fire-rated construction. | Provide dedicated storage rooms separated by minimum 1-hr fire-rated construction. | Within 3 months |
|-----|-------------------------|---------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------|

|     |        |                                                                                                |                                                                                                                                                                                                                        |                |
|-----|--------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| F-7 | Egress | Exit capacity in the 4th floor(670persons) is not adequate for the occupant load (326persons). | Reduce occupant load to not more than available exit capacity or<br>Provide additional exits in the future to increase capacity.                                                                                       | Immediate      |
| F-8 | Egress | Collapsible gates / sliding doors are provided at building exits and exit stairs.              | Replace all gates / sliding doors along the means of egress with side-hinged, swinging egress doors.<br><br>If locks are required for security reasons, utilize special door locking features complying with NFPA 101. | Within 1 month |



|     |        |                                                                                                                                |                                                                                                                         |                 |
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| F-9 | Egress | The exits are not remotely located from each other such that a single fire event could compromise both exits at the 3rd floor. | Modify exit arrangement or<br>Provide additional exit(s) or<br>Provide sprinkler protection in accordance with NFPA 13. | Within 3 months |
|-----|--------|--------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-----------------|



|      |                 |                                                                                                                                                      |                                                                                                            |                                                 |
|------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| 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 |
|------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-------------------------------------------------|



|      |                 |                                                                                                                                                                                  |                                                                                                                                                                                        |                 |
|------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| F-11 | Fire Protection | Activation of the fire alarm system by a manual fire alarm station provides automatic occupant notification only on the floor of alarm and not throughout the building.          | Configure the fire alarm system to initiate automatic occupant notification on all floor levels to facilitate whole-building evacuation upon any manual fire alarm station activation. | Within 1 months |
| F-12 | 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-13 | 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. | Remove single-station smoke alarms. Provide automatic smoke detection throughout the building, tied into the fire alarm system, in accordance with NFPA 72.                            | Within 6 months |



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| F-14 | Egress Lighting | Manual on-off switch in several floors is provided for emergency lighting / exit signage units.                     | Remove manual on/off switches from emergency lighting / exit signage units to prevent them from being switched off.            | Within 1 month  |
| F-15 | Egress Lighting | Inspection, testing, and maintenance for the emergency lighting system were 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 |