

# **FIRE SAFETY INSPECTION REPORT**

**PIONEER KNITWEARS (BD) LTD.**  
**JAMIRDIA, HABIRBARI, VALUKA**

**OTHER FACTORIES: NONE**



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

April 28, 2014

## **SUMMARY**

**Pioneer Knitwears (BD) Ltd. was surveyed for fire safety on 4/28/2014 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 - 10 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 - Wash & Attachment Section (Bld. 1)**

| No. | Category                | Finding                                                                                                                                                       | Recommendation                                                                                                                                                      | Remediation Timeframe |
|-----|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| F-1 | Fire Rated Construction | Flammable liquid storage area is not separated by fire-rated construction (openings, non-rated doors, penetrations). It was sitting behind flammable storage. | Separate the 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-2 | Fire Rated Construction | Areas used for combustible storage 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-3 | Egress | <p>Egress doors / gates with locking features are provided at building exits.</p> <p>Gates were open 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-4 | Egress | Collapsible gates / sliding doors are provided at building exits. | 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-5 | Egress | The width of egress aisles is less than 36-in along the interior walls. | Provide minimum aisle widths of 36-in. | Within 3 months |
|-----|--------|-------------------------------------------------------------------------|----------------------------------------|-----------------|



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|-----|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| F-6 | 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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|     |                 |                                                                                                                                                                                  |                                                                                                                                 |                 |
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| F-7 | 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-8 | Fire Protection | The building is equipped with single-station smoke alarms. Smoke alarm activation sounds only a local alarm and does not provide automatic fire alarm notification of occupants. | Replace the single-station smoke alarms. Provide automatic smoke detection throughout the building in accordance with NFPA 72." | Within 6 months |



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| F-9 | Egress Lighting | Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes. | Test the emergency lighting system on each floor and provide additional emergency fixtures to provide adequate illumination along the means of egress. Provide a minimum illumination of 10 lux at the floor level within exit stairs and exit discharge paths and minimum 2.5 lux along exit access aisles. | Within 3 months |
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| 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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**Table 2. Findings And Recommendations - Iron Section (Bld. 2)**

| No. | Category                | Finding                                                                          | Recommendation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Remediation Timeframe |
|-----|-------------------------|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| F-1 | Fire Rated Construction | Areas used for combustible storage 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-2 | Egress | Egress doors / gates with locking features are provided at building exits.<br><br>Gates were open 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-3 | Egress | Collapsible gates / sliding doors are provided at building exits. | 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-4 | Egress | The width of egress aisles is less than 36-in along the interior walls. | Provide minimum aisle widths of 36-in. | Within 3 months |
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|-----|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| F-5 | 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-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 |
| F-7 | Fire Protection | The building is equipped with single-station smoke alarms. Smoke alarm activation sounds only a local alarm and does not provide automatic fire alarm notification of occupants. | Replace the single-station smoke alarms. Provide automatic smoke detection throughout the building in accordance with NFPA 72." | Within 6 months |



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| F-8 | Egress Lighting | Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes. | Test the emergency lighting system on each floor and provide additional emergency fixtures to provide adequate illumination along the means of egress. Provide a minimum illumination of 10 lux at the floor level within exit stairs and exit discharge paths and minimum 2.5 lux along exit access aisles. | Within 3 months |
| F-9 | 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 |

**Table 3. Findings And Recommendations - Finishing Section 1-2 (Bld. 3)**

| No. | Category                | Finding                                                                          | Recommendation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Remediation Timeframe |
|-----|-------------------------|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| F-1 | Fire Rated Construction | Areas used for combustible storage 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-2 | Egress | Egress doors / gates with locking features are provided at building exits.<br><br>Gates were open 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-3 | Egress | Collapsible gates / sliding doors are provided at building exits. | 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-4 | Fire Protection | The fire alarm system is antiquated, not a listed system, and does not provide alarm and notification features consistent with acceptable standards. | Replace the fire alarm system with a new, listed addressable fire alarm system in accordance with NFPA 72. | Design within 4 months, install within 9 months |
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| 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 |
|-----|-----------------|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------|

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|-----|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-----------------|
| F-6 | Fire Protection | The building is equipped with single-station smoke alarms. Smoke alarm activation sounds only a local alarm and does not provide automatic fire alarm notification of occupants. | Replace the single-station smoke alarms. Provide automatic smoke detection throughout the building in accordance with NFPA 72.” | Within 6 months |
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| F-7 | Egress Lighting | Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes. | Test the emergency lighting system on each floor and provide additional emergency fixtures to provide adequate illumination along the means of egress. Provide a minimum illumination of 10 lux at the floor level within exit stairs and exit discharge paths and minimum 2.5 lux along exit access aisles. | Within 3 months |
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| F-8 | 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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**Table 4. Findings And Recommendations - Finished Goods Godown (Bld. 4)**

| No.                                                                                | Category | Finding                                                                                                                         | Recommendation                                                                                                                                                                                                                | Remediation Timeframe |
|------------------------------------------------------------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| F-1                                                                                | Egress   | <p>Egress doors / gates with locking features are provided at building exits.</p> <p>Gates were open 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             |
|  |          |                                                                                                                                 |                                                                                                                                                                                                                               |                       |
| F-2                                                                                | Egress   | <p>Collapsible gates / sliding doors are provided at building exits.</p>                                                        | <p>Replace all gates / sliding doors along the means of egress with side-hinged, swinging egress doors.</p> <p>If locks are required for security reasons, utilize special door locking features complying with NFPA 101.</p> | Within 1 month        |



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|-----|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| F-3 | 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-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 |
|-----|-----------------|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------|

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|-----|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-----------------|
| F-5 | Fire Protection | The building is equipped with single-station smoke alarms. Smoke alarm activation sounds only a local alarm and does not provide automatic fire alarm notification of occupants. | Replace the single-station smoke alarms. Provide automatic smoke detection throughout the building in accordance with NFPA 72.” | Within 6 months |
|-----|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-----------------|



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| F-6 | Egress Lighting | Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes. | Test the emergency lighting system on each floor and provide additional emergency fixtures to provide adequate illumination along the means of egress. Provide a minimum illumination of 10 lux at the floor level within exit stairs and exit discharge paths and minimum 2.5 lux along exit access aisles. | Within 3 months |
|-----|-----------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|

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|-----|-----------------|----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-----------------|
| 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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**Table 5. Findings And Recommendations - Embroidery Section (Bld. 6)**

| No. | Category                | Finding                                                                          | Recommendation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Remediation Timeframe |
|-----|-------------------------|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| F-1 | Fire Rated Construction | Areas used for combustible storage 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-2 | Egress | Egress doors / gates with locking features are provided at building exits.<br><br>Gates were open 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-3 | 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-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 | The building is equipped with single-station smoke alarms. Smoke alarm activation sounds only a local alarm and does not provide automatic fire alarm notification of occupants. | Replace the single-station smoke alarms. Provide automatic smoke detection throughout the building in accordance with NFPA 72." | Within 6 months |



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| F-6 | Egress Lighting | Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes. | Test the emergency lighting system on each floor and provide additional emergency fixtures to provide adequate illumination along the means of egress. Provide a minimum illumination of 10 lux at the floor level within exit stairs and exit discharge paths and minimum 2.5 lux along exit access aisles. | 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 |

**Table 6. Findings And Recommendations - Knitting-2 (Bld. 20)**

| No. | Category                | Finding                                                                          | Recommendation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Remediation Timeframe |
|-----|-------------------------|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| F-1 | Fire Rated Construction | Areas used for combustible storage 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-2 | Egress | Egress doors / gates with locking features are provided at building exits.<br><br>Gates were open 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-3 | Egress | Collapsible gates / sliding doors are provided at building exits. | 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-4 | Egress | Storage was located in the egress path. | Keep egress paths and stairs clear of storage. | Within 3 months |
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|-----|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| F-5 | 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-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 |
| F-7 | Fire Protection | The building is equipped with single-station smoke alarms. Smoke alarm activation sounds only a local alarm and does not provide automatic fire alarm notification of occupants. | Replace the single-station smoke alarms. Provide automatic smoke detection throughout the building in accordance with NFPA 72." | Within 6 months |



|     |                 |                                                                                                                                      |                                                                                                                                                                                                                                                                                                              |                 |
|-----|-----------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| F-8 | Egress Lighting | Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes. | Test the emergency lighting system on each floor and provide additional emergency fixtures to provide adequate illumination along the means of egress. Provide a minimum illumination of 10 lux at the floor level within exit stairs and exit discharge paths and minimum 2.5 lux along exit access aisles. | Within 3 months |
| F-9 | 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 |

**Table 7. Findings And Recommendations - Linking 1 & 2 (Bld. 19)**

| No. | Category                | Finding                                                                          | Recommendation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Remediation Timeframe |
|-----|-------------------------|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| F-1 | Fire Rated Construction | Areas used for combustible storage 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-2 | Egress | Egress doors / gates with locking features are provided at building exits.<br><br>Gates were open 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-3 | Egress | Collapsible gates / sliding doors are provided at building exits. | 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-4 | Egress | Storage was located in the egress path. | Keep egress paths and stairs clear of storage. | Within 3 months |
|-----|--------|-----------------------------------------|------------------------------------------------|-----------------|



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|-----|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| F-5 | 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-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 |
| F-7 | Fire Protection | The building is equipped with single-station smoke alarms. Smoke alarm activation sounds only a local alarm and does not provide automatic fire alarm notification of occupants. | Replace the single-station smoke alarms. Provide automatic smoke detection throughout the building in accordance with NFPA 72." | Within 6 months |



|     |                 |                                                                                                                                      |                                                                                                                                                                                                                                                                                                              |                 |
|-----|-----------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| F-8 | Egress Lighting | Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes. | Test the emergency lighting system on each floor and provide additional emergency fixtures to provide adequate illumination along the means of egress. Provide a minimum illumination of 10 lux at the floor level within exit stairs and exit discharge paths and minimum 2.5 lux along exit access aisles. | Within 3 months |
| F-9 | 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 |

**Table 8. Findings And Recommendations - Knitting 1 (Bld. 18)**

| No. | Category                | Finding                                                                          | Recommendation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Remediation Timeframe |
|-----|-------------------------|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| F-1 | Fire Rated Construction | Areas used for combustible storage 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-2 | Egress | Egress doors / gates with locking features are provided at building exits.<br><br>Gates were open 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-3 | Egress | Collapsible gates / sliding doors are provided at building exits. | 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-4 | Egress | Storage was located in the egress path. | Keep egress paths and stairs clear of storage. | Within 3 months |
|-----|--------|-----------------------------------------|------------------------------------------------|-----------------|



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|     |                 |                                                                                                                                                      |                                                                                                            |                                                 |
|-----|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| F-5 | 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-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 |
| F-7 | Fire Protection | The building is equipped with single-station smoke alarms. Smoke alarm activation sounds only a local alarm and does not provide automatic fire alarm notification of occupants. | Replace the single-station smoke alarms. Provide automatic smoke detection throughout the building in accordance with NFPA 72." | Within 6 months |



|     |                 |                                                                                                                                      |                                                                                                                                                                                                                                                                                                              |                 |
|-----|-----------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| F-8 | Egress Lighting | Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes. | Test the emergency lighting system on each floor and provide additional emergency fixtures to provide adequate illumination along the means of egress. Provide a minimum illumination of 10 lux at the floor level within exit stairs and exit discharge paths and minimum 2.5 lux along exit access aisles. | Within 3 months |
| F-9 | 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 |

**Table 9. Findings And Recommendations - Zipper Section (Bld. 21)**

| No. | Category                | Finding                                                                          | Recommendation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Remediation Timeframe |
|-----|-------------------------|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| F-1 | Fire Rated Construction | Areas used for combustible storage 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-2 | Egress | Egress doors / gates with locking features are provided at building exits.<br><br>Gates were open 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-3 | Egress | The width of egress aisles is less than 36-in along the interior walls. | Provide minimum aisle widths of 36-in. | Within 3 months |
|-----|--------|-------------------------------------------------------------------------|----------------------------------------|-----------------|

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|     |        |                                         |                                                |                 |
|-----|--------|-----------------------------------------|------------------------------------------------|-----------------|
| F-4 | Egress | Storage was located in the egress path. | Keep egress paths and stairs clear of storage. | Within 3 months |
|-----|--------|-----------------------------------------|------------------------------------------------|-----------------|



|     |                 |                                                                                                                                                      |                                                                                                            |                                                 |
|-----|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| F-5 | 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-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 |
| F-7 | Fire Protection | The building is equipped with single-station smoke alarms. Smoke alarm activation sounds only a local alarm and does not provide automatic fire alarm notification of occupants. | Replace the single-station smoke alarms. Provide automatic smoke detection throughout the building in accordance with NFPA 72." | Within 6 months |



|     |                 |                                                                                                                                      |                                                                                                                                                                                                                                                                                                              |                 |
|-----|-----------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| F-8 | Egress Lighting | Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes. | Test the emergency lighting system on each floor and provide additional emergency fixtures to provide adequate illumination along the means of egress. Provide a minimum illumination of 10 lux at the floor level within exit stairs and exit discharge paths and minimum 2.5 lux along exit access aisles. | Within 3 months |
|-----|-----------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|

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|     |                 |                                                                                                    |                                                                                                                                |                 |
|-----|-----------------|----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-----------------|
| F-9 | 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 |
|-----|-----------------|----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-----------------|

**Table 10. Findings And Recommendations - Printing Section (Bld. 9)**

| No. | Category                | Finding                                                                          | Recommendation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Remediation Timeframe |
|-----|-------------------------|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| F-1 | Fire Rated Construction | Areas used for combustible storage 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-2 | Egress | Egress doors / gates with locking features are provided at building exits.<br><br>Gates were open 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-3 | Egress | Collapsible gates / sliding doors are provided at building exits. | 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-4 | Fire Protection | The fire alarm system is antiquated, not a listed system, and does not provide alarm and notification features consistent with acceptable standards. | Replace the fire alarm system with a new, listed addressable fire alarm system in accordance with NFPA 72. | Design within 4 months, install within 9 months |
|-----|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-------------------------------------------------|



|     |                 |                                                                                                    |                                                                                                                 |                 |
|-----|-----------------|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------|
| F-5 | Fire Protection | Inspection, testing, and maintenance for the fire alarm system was not in accordance with NFPA 72. | Inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72. | Within 3 months |
|-----|-----------------|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------|

|     |                 |                                                                                                                                                                                  |                                                                                                                                 |                 |
|-----|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-----------------|
| F-6 | Fire Protection | The building is equipped with single-station smoke alarms. Smoke alarm activation sounds only a local alarm and does not provide automatic fire alarm notification of occupants. | Replace the single-station smoke alarms. Provide automatic smoke detection throughout the building in accordance with NFPA 72.” | Within 6 months |
|-----|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-----------------|



|     |                 |                                                                                                                                      |                                                                                                                                                                                                                                                                                                              |                 |
|-----|-----------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| F-7 | Egress Lighting | Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes. | Test the emergency lighting system on each floor and provide additional emergency fixtures to provide adequate illumination along the means of egress. Provide a minimum illumination of 10 lux at the floor level within exit stairs and exit discharge paths and minimum 2.5 lux along exit access aisles. | Within 3 months |
|-----|-----------------|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|

|     |                 |                                                                                                    |                                                                                                                                |                 |
|-----|-----------------|----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-----------------|
| F-8 | 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 |
|-----|-----------------|----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-----------------|