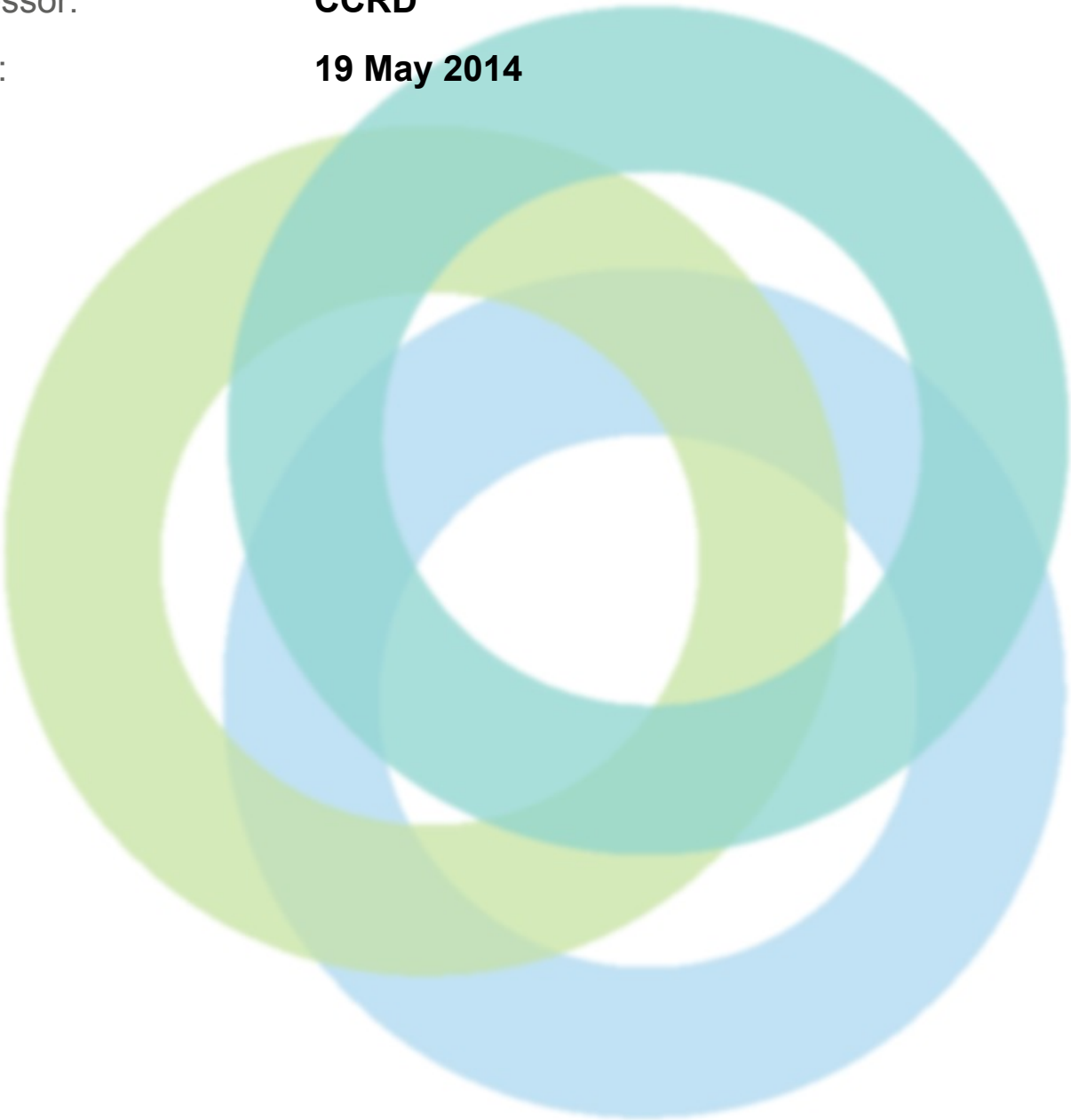


# INITIAL FIRE ASSESSMENT REPORT (FAR)

Factory Name: **Peninsula Garments Ltd. (Sunman)**  
Address: **Sector #1, Plot #46-48 CEPZ, Chittagong Chittagong  
Chittagong Bangladesh**  
Assessor: **CCRD**  
Date: **19 May 2014**



## Introduction to the Report

The following report contains a site profile and summary of non-conformities identified during an onsite assessment commissioned by the Alliance for Bangladesh Worker Safety (Alliance) and conducted by a third-party Qualified Assessment Firm (QAF). The assessment was conducted against the Alliance for Bangladesh Worker Safety Assessment Protocols (APs) and Fire Safety and Structural Integrity Standard, which is harmonized with the factory assessment guidelines developed by Bangladesh University of Engineering and Technology (BUET) for the Bangladesh National Tripartite Plan of Action (NTPA). The goal of the Alliance process is to provide clear and practical technical requirements by which Bangladeshi Ready Made Garment (RMG) Factories producing for Alliance members may be consistently and fairly evaluated for fire, structural, and electrical safety in a non-duplicative manner. Each assessment will prompt action plans that will be used by RMG factories to systematically and sustainably improve safety conditions for garment workers. Beyond tracking and reporting on action steps taken in a transparent manner, the Alliance organization and its members will seek to further support factory improvements through technical assistance, training, implementation support for functional Worker Committees, and in some cases financial assistance and wage support for workers if factories are closed for remediation.

The contents of the report do not constitute a guarantee of compliance with the applicable laws, the Alliance Standard or the absolute or continued safety against fire, electrical and/or structural integrity issues that may lead to injury or loss of life. The report is designed to provide a non-exhaustive summary of risk issues, based on a limited sampling and duration of time onsite by the named QAF. Neither the QAF nor the Alliance can certify or guarantee the quality, outcome, or effectiveness of actions taken in response to the report.

For more information and report feedback please go to: [www.bangladeshworkersafety.org](http://www.bangladeshworkersafety.org).



Factory Name: Peninsula Garments Ltd. (Sunman)  
 Address: Sector #1, Plot #46-48 CEPZ, Chittagong Chittagong Chittagong Bangladesh

Assessor: CCRD  
 Date: 19 May 2014



## GENERAL INFORMATION

General Information	
Factory Name:	Peninsula Garments Ltd. (Sunman)
Address:	Sector #1, Plot #46-48 CEPZ, Chittagong Chittagong Chittagong Bangladesh
Country:	Bangladesh
Province:	Chittagong
City:	Chittagong
Zip Code:	
Audit Duration:	
Re-Audit:	Re-Audit After 0 Months
Draft Report Date:	June 26, 2014
Final Report Date:	June 30, 2014
Are all Action Items From Previous Assessment Completed?:	N/A
Buildings in Complex:	Garment factory
Is the building(s) owned or rented by the Factory:	Owned
Number of Building Levels (Stories):	5
Approximate Building Area (SF):	31,300 SF * 5
Date of Building Construction:	1999
Date of Last Building Renovation/Addition:	2004
Ancillary Structures in Complex:	Washing Shed
Approximate Ancillary Structures Area (SF):	unknown
Number of Occupants:	3000

Factory Name: **Peninsula Garments Ltd. (Sunman)**  
Address: **Sector #1, Plot #46-48 CEPZ, Chittagong Chittagong Chittagong Bangladesh**

Assessor: **CCRD**  
Date: **19 May 2014**



**ALLIANCE**  
FOR BANGLADESH WORKER SAFETY

Number of Ancillary Levels (Stories):	1
Occupancy Type:	Sewing Factory, Child Care located on 1st Floor
Construction Type:	Reinforced concrete
Height of Highest Occupied Floor Level Above Grade:	45 ft



## ASSESSMENT FINDINGS

### Fire Protection Construction

Question:	Are openings and penetrations through rated walls and/or assemblies protected?	
Priority Level:	High	
Non-Compliance Level:	3	
Description:	Wall penetrations and openings are not protected with firestop systems.	
Source of Findings:	Photograph: Unprotected penetrations and openings	
Suggested Plan of Action:	Install listed firestop systems at every penetration through fire rated walls and assemblies.	
Suggested Deadline Date:	31 Dec 2014	
Standard:	Includes doors, windows, ducts, piping, etc. Reference Alliance Standards Part 4 Section 4.6 Opening Protectives and Section 4.7 Penetrations	
Question:	Is each floor separated with a fire-resistive rated construction barrier?	
Priority Level:	High	
Non-Compliance Level:	3	
Description:	Floor penetrations are not protected with firestop systems.	
Source of Findings:	Visual Assessment: Unprotected penetrations	
Suggested Plan of Action:	Install listed firestop systems at every penetration through floors.	
Suggested Deadline Date:	31 Dec 2014	
Standard:	Reference Alliance Standards Part 4 Section 4.5 Separation	
Question:	Are exit enclosures provided with fire-resistive rated construction barriers?	
Priority Level:	High	
Non-Compliance Level:	3	
Description:	Exit stairs are not separated from the building levels with fire rated separation.	
Source of Findings:	Photograph: Stairs include openings to floors.	
Suggested Plan of	Protect all egress stairs with a shaft enclosure including 2-hour fire-rated	




Action:	construction. Install fire rated doors.
Suggested Deadline Date:	31 Dec 2014
Standard:	Reference Alliance Standards Part 4 Section 4.5 Separation
Question:	Are separations between hazards provided with fire-resistive rated construction barriers.
Priority Level:	Medium
Non-Compliance Level:	3
Description:	Storage areas and hazardous areas are open to rest of building.
Source of Findings:	Visual Assessment: Storage not separated
Suggested Plan of Action:	Provide fire-resistive rated construction barriers between hazard types in accordance with Alliance Standard Sections 3.4.2 and 4.5. Consult a qualified fire protection engineer to design the required rated construction barrier.
Suggested Deadline Date:	31 Dec 2014
Standard:	Reference Alliance Standards Part 4 Section 4.5 Separation

**Fire Protection Systems**

Question:	Does the building have a fire pump?
Priority Level:	High
Non-Compliance Level:	3
Description:	No fire pump was installed
Source of Findings:	Visual Assessment: No fire pump
Suggested Plan of Action:	Install a listed, approved fire pump to supply the demand of the standpipe system, per NFPA 20.
Suggested Deadline Date:	31 Dec 2014
Standard:	Alliance Standard Part 5 Fire Protection Systems
Question:	Does the building have a Standpipe System?
Priority Level:	High
Non-Compliance Level:	2
Description:	Hose stations were installed on each floor for use by building occupants.
Source of Findings:	Visual Assessment: Small hose stations



Suggested Plan of Action:	Install a Class III standpipe system at required locations. Standpipe system must comply with NFPA 14.	
Suggested Deadline Date:	31 Dec 2014	
Standard:	Does the building have a standpipe system installed where required. Alliance Standard Part 5 Section 5.4.2	
Question:	Are notification and initiation devices for the fire alarm system installed at required locations based on occupancy type?	
Priority Level:	High	
Non-Compliance Level:	2	
Description:	A manual fire alarm system is installed.	
Source of Findings:	Photograph: Non automatic fire alarm	
Suggested Plan of Action:	Install fire alarm system per NFPA 72. Include pull stations at all entrances to exit stairs. Install strobes and horns for complete notification on all floors. Install smoke detectors that are part of the fire alarms system in locations required by Alliance standards.	
Suggested Deadline Date:	31 Dec 2014	
Standard:	Pull stations at egress points, smoke detectors in air handling equipment, visual and audible devices spaced appropriately based on occupancy type. Reference NFPA 72	
Question:	Is the fire alarm and detection system monitored by a central station monitoring service or directly connected to the Fire Service and Civil Defense?	
Priority Level:	Medium	
Non-Compliance Level:	3	
Description:	No central reporting system was installed.	
Source of Findings:	Visual Assessment: No central fire alarm reporting	
Suggested Plan of Action:	Arrange for direct connection of the fire alarm and detection system to a central station monitoring service or the Fire Service and Civil Defense. Assign a person to contact the fire department in the event of fire alarm activation until this connection is set up. Locate an annunciator to alert this person in a constantly attended location (such as a fire control room).	
Suggested Deadline Date:	31 Dec 2014	
Standard:	Alliance Standard Part 5 Section 5.7.5 Monitoring	
<b>Means of Egress</b>		



Question:	Occupant loads on each level (floor) do not exceed the capacity of the available means of egress.
Priority Level:	High
Non-Compliance Level:	3
Description:	2nd floor load=900 capacity=695, 3rd floor load=900 capacity=695, 4th floor load=930 capacity=695.
Source of Findings:	Visual Assessment: Occupant load exceeded
Suggested Plan of Action:	Add another exit stair to the building to increase the number of allowable occupants per floor to 930 as reported for the 4th floor level. Alternately, limit the number of occupants on each floor to 695 or less.
Suggested Deadline Date:	31 Dec 2014
Standard:	Alliance Standard Part 6 Section 6.4 Occupant Load
Question:	The path of egress along the means of egress is not reduced at any point along the path of travel and is sufficient for the occupant load.
Priority Level:	High
Non-Compliance Level:	3
Description:	Stair 3 discharge is restricted to 4'-1" in the alley by the arrangement of exterior stair 4.
Source of Findings:	Photograph: Stair 3 discharge is restricted.
Suggested Plan of Action:	Rearrange the alley and stair 4 discharge to maximize the alley width available for stair 3 discharge.
Suggested Deadline Date:	31 Dec 2014
Standard:	Alliance Standard Part 6 Section 6.5 Egress Width and BNBC Table 4.3.2
Question:	Doors along the path of egress have a minimum width of 0.8 m (32 in) and have required ratings.
Priority Level:	High
Non-Compliance Level:	3
Description:	All doors are unrated.
Source of Findings:	Visual Assessment: Unrated doors
Suggested Plan of Action:	Remove all existing gates and doors. Install fire doors at the stairs that and are listed, approved, swinging, automatic-closing, in compatible fire rated frames with latching panic hardware.









Suggested Deadline Date:	31 Dec 2014
Standard:	Alliance Standard Part 6 Section 6.5.6 Minimum Widths. Increased occupant loads will require a door width greater than 0.8 m.
Question:	All doors in a means of egress are of the side-hinged swinging type.
Priority Level:	High
Non-Compliance Level:	3
Description:	Sliding gates and doors, and roll up doors were installed.
Source of Findings:	Photograph: Sliding door with track tripping hazard.
Suggested Plan of Action:	Remove all existing gates and doors. Install fire doors at the stairs that and are side-hinged and swing in the direction of egress.
Suggested Deadline Date:	31 Dec 2014
Standard:	Alliance Standards Part 6 Section 6.8 Doors and Gates
Question:	Exterior exit stairs are separated from the building with the required rating. The rating of the exterior wall shall extend 3.05 m (10 ft) beyond the ends of the stair structure.
Priority Level:	High
Non-Compliance Level:	3
Description:	Windows from the building create exposure to the exterior exit stairs.
Source of Findings:	Visual Assessment: Exposed exterior stairs
Suggested Plan of Action:	Provide required fire rated construction 10 ft beyond the ends of the exterior stairs. Enclose any openings (windows, etc.) with required fire rated construction within that 10 ft wall section.
Suggested Deadline Date:	31 Dec 2014
Standard:	Alliance Standard Part 6 Section 6.3.1.2. Three stories or less 1-hr rating. Four stories of more 2-hr rating
Question:	Means of egress are free from impediments, obstructions, and stored materials.
Priority Level:	High
Non-Compliance Level:	2
Description:	Stairs include sliding door tracks, a few stored batteries and boxes, and 11000V electrical panels.









Source of Findings:	Photograph: Electrical equipment in stairs	
Suggested Plan of Action:	Remove all impediments including tracks, all temporary and permanent storage, all electrical panels and other foreign equipment.	
Suggested Deadline Date:	31 Dec 2014	
Standard:	Alliance Standard Part 6 Section 6.3.8 Impediments to means of egress and Section 6.3.9 Reliability	
Question:	Doors are not locked in the direction of egress under any conditions. All hasps, locks, slide bolts, and other locking devices have been removed where required.	
Priority Level:	High	
Non-Compliance Level:	2	
Description:	Stairs included sliding gates and doors with hasps.	
Source of Findings:	Photograph: Locking devices on doors	
Suggested Plan of Action:	Remove all hasps and other locking devices. Remove all existing doors from the stairs and replace with approved, compliant fire doors.	
Suggested Deadline Date:	31 Dec 2014	
Standard:	Alliance Standards Part 6 Section 6.8 Doors and Gates	
Question:	Landings are provided on both sides of doors used along the path of egress. Doors do not swing out over stairs.	
Priority Level:	High	
Non-Compliance Level:	2	
Description:	A landing is not provided at the door from the roof level.	
Source of Findings:	Photograph: Door to roof	
Suggested Plan of Action:	Rearrange door to provide proper landing on both sides of door.	
Suggested Deadline Date:	31 Dec 2014	
Standard:	Alliance Standards Part 6 Section 6.8 Doors and Gates	




Question:	Stairwells are not utilized as storage spaces.
Priority Level:	High
Non-Compliance Level:	2
Description:	There was some storage in the bottom of the stairs.
Source of Findings:	Visual Assessment: Storage in stairs
Suggested Plan of Action:	Permanently remove all storage, combustibles and other foreign objects from the stairs.
Suggested Deadline Date:	31 Dec 2014
Standard:	Alliance Standard Part 13 Section 13.9 Safety Inspections
Question:	Occupant loads are posted for every assembly and production floor in a conspicuous space near the main point of egress.
Priority Level:	Medium
Non-Compliance Level:	3
Description:	No occupant load signs are posted.
Source of Findings:	Visual Assessment: No signage provided
Suggested Plan of Action:	Post the occupant load for all assembly and production floor areas in a conspicuous space near the main exit or exit access doorway for the space.
Suggested Deadline Date:	31 Dec 2014
Standard:	Alliance Standards Part 6 Section 6.4.4 Posting of Occupant Load
Question:	Every door in a stair enclosure serving more than 5 stories is provided with re-entry unless it meets the requirements of Alliance Standards Part 6 Section 6.8.3.1.
Priority Level:	Medium
Non-Compliance Level:	3
Description:	Fire doors were not installed. Required hardware was not installed.
Source of Findings:	Visual Assessment: No re-entry provided
Suggested Plan of Action:	Install the required fire doors and hardware. Provide re-entry to floor levels from the stairwells according to the standard.
Suggested Deadline Date:	31 Dec 2014
Standard:	Alliance Standards Part 6 Section 6.8 Doors and Gates





Question:	Changes in elevation of walking surfaces do not exceed 6.35 mm (1/4 in) unless provided with a beveled slope of 1 in 2 that does not exceed 12.7 mm (1/2 in).	 
Priority Level:	Medium	
Non-Compliance Level:	2	
Description:	Stair 2 discharges to a muddy alley with bricks and blocks placed as stepping stones. There are numerous abrupt changes at doors/gates throughout the factory which create tripping hazards.	
Source of Findings:	Photograph: (1) muddy alley with bricks and blocks placed as stepping stones, (2) large elevation change at threshold	
Suggested Plan of Action:	Renovate the alley to create a smooth, dry, full width walking surface. Reconfigure floor at doors to provide level surface.	
Suggested Deadline Date:	31 Dec 2014	
Standard:	Alliance Standard Part 6 Section 6.3.4 Walking Surfaces	
Question:	Stair treads are of nominal uniformity.	
Priority Level:	Medium	
Non-Compliance Level:	2	
Description:	Stair 4 discharge includes uneven riser heights 10" and then 3".	
Source of Findings:	Photograph: Stair 4 discharge	
Suggested Plan of Action:	Rework the stair to create nominally uniform treads and risers.	
Suggested Deadline Date:	31 Dec 2014	
Standard:	Alliance Standards Part 6 Section 6.9 Stairs. Any tread height exceeding more than 50% of the adjacent tread heights or 75 mm (3 in.), whichever is less, shall be modified to be within this tolerance	
Question:	Handrails are provided on both sides of each stairway. Intermediate handrails are provided when the stair width exceeds 2.2 m (87 in.). Handrails are not mounted lower than 760 mm (30 in.) or higher than 1100 mm (44 in.).	
Priority Level:	Medium	
Non-Compliance Level:	2	
Description:	Handrails were either not provided or installed on the inside only.	
Source of Findings:	Photograph: Handrails not provided	



Suggested Plan of Action:	Provide handrails on both sides of each stairway. Mount handrails at a height between 30 in. and 44 in.	
Suggested Deadline Date:	31 Dec 2014	
Standard:	Alliance Standard Part 6 Section 6.9 Stairs and 6.12 Handrails and Guards	
Question:	All paths of egress are provided with compliant means of illumination.	
Priority Level:	Medium	
Non-Compliance Level:	1	
Description:	Some emergency lights were installed and were on emergency power.	
Source of Findings:	Visual Assessment: Insufficient exit lighting	
Suggested Plan of Action:	Install emergency lighting for all paths of egress. Illumination needs to be a minimum of 10 lux for all corridors, exit doors and stairways. Illumination for aisles needs to be a minimum of 2.5 lux.	
Suggested Deadline Date:	31 Dec 2014	
Standard:	Alliance Standards Part 6 Section 6.7 Egress Illumination and Part 10 Section 10.12 Illumination of Exit Signs and Means Of Escape	
Question:	Illuminated exit signs are placed at entrances to exits and along the path of egress anywhere the continuation of egress is not obvious or there is a change in the direction of the path of travel.	
Priority Level:	Medium	
Non-Compliance Level:	1	
Description:	Lighted exit signs were installed only at the exits.	
Source of Findings:	Photograph: Exit sign at stair	
Suggested Plan of Action:	Provide continuously illuminated exit signs. Signs shall be placed at all required exits and along egress paths, especially where there is a change in direction for the path of travel.	
Suggested Deadline Date:	31 Dec 2014	
Standard:	Alliance Standard Part 6 Section 6.11 Exit Signs	
Question:	Stair designation signs are provided at each floor entrance from the stair to the floor in English and Bengali. Signs indicate the name of the stair and the floor level. Signs are posted adjacent to the door.	
Priority Level:	Low	
Non-Compliance Level:	3	




Description:	Stair designation signs are not provided.
Source of Findings:	Visual Assessment: No signage provided
Suggested Plan of Action:	Install signage adjacent to each stair door indicating the stair name and the floor level in both English and Bengali.
Suggested Deadline Date:	31 Dec 2014
Standard:	Alliance Standard Part 6 Section 6.9 Stairs

### Fire Safety Programs

Question:	Storage areas underneath the cutting tables are clear of combustibles.
Priority Level:	Medium
Non-Compliance Level:	3
Description:	Combustibles are stored under tables.
Source of Findings:	Visual Assessment: Storage under tables
Suggested Plan of Action:	Remove all storage from under cutting tables and similar obstructions.
Suggested Deadline Date:	31 Dec 2014
Standard:	Alliance Standard Part 17 Section 13.7.2 Cutting tables.

Question:	Emergency egress maps are posted at the entrance to each exit stair or main point of egress.
Priority Level:	Medium
Non-Compliance Level:	2
Description:	Egress maps are not posted at every entrance to the stairs.
Source of Findings:	Visual Assessment: factory visit
Suggested Plan of Action:	Install additional emergency egress maps as required.
Suggested Deadline Date:	31 Dec 2014
Standard:	Alliance Standards Part 13 Section 13.4 Evacuation Plan



Question:	A written housekeeping policy is established and enforced.	
Priority Level:	Low	
Non-Compliance Level:	3	
Description:	There was some storage in the stairs and corridors. Warehouse areas were piled to the ceiling with no clear aisles in places.	
Source of Findings:	Photograph: Warehouse areas included storage piled to the ceiling with no clear aisles.	
Suggested Plan of Action:	Maintain storage height limits and clear aisles in storage areas. Keep stairs and means of egress free of storage and other foreign objects.	
Suggested Deadline Date:	31 Dec 2014	
Standard:	Alliance Standards Part 13 Section 13.6 Housekeeping	
Question:	A hot-work permit program has been established.	
Priority Level:	Low	
Non-Compliance Level:	3	
Description:	No hot work program was in place.	
Source of Findings:	Document Review: No documented program	
Suggested Plan of Action:	Implement a hot work permit program. Comply with the requirements of NFPA 51B.	
Suggested Deadline Date:	31 Dec 2014	
Standard:	Alliance Standards Part 13 Section 13.4 Hot Work Permit and NFPA 51B	