

BUILDING EVACUATION PLAN

DOW

Responsible Person

Montadar al Ashoor and Nora Bougliaia

BUILDING LIAISON TEAM

KAUST Fire Services: Nicholas Cheadle

KAUST Campus and Community:

EHS&S DOW: Montadar al Ashoor 0567396795

DOW Building manager: Nora Bougliaia 0508500028

Date last updated: 13/10/2024

Introduction

The purpose of this Emergency Evacuation Plan is to provide for the safe and efficient evacuation of the building in the event of an Emergency Evacuation. This plan is an essential part the KAUST Building Emergency Evacuation Program which covers the following areas:

- Identifying all who are affected by an Emergency Evacuation
- Identifying roles and responsibilities of personnel before, during and after an Emergency Evacuation

Persons who are affected by an Emergency Evacuation

All occupants of the building at the time of an Emergency Evacuation are affected including:

- Persons working in the building.
- Persons visiting the building for any reason.

Roles and Responsibilities

This section identifies the roles and responsibilities of any person/department that is involved in the provision and execution of the Building Emergency Evacuation Plan.

- KAUST Fire Department
- KAUST Security
- Supervisors/Managers/Building Managers/etc.
- All occupants of a building
- Fire Warden

KAUST Fire Department will:

- Provide, maintain and periodically test the Emergency Evacuation Plans of the Campus Buildings.
- Other than Campus Buildings, provide advice on the provision and periodically test the Emergency Evacuation Plans for all other buildings in KAUST.
- Provide all necessary Fire Safety/Warden Training and give any required advice/assistance.
- Provide (Orange) Fire Warden Jackets for all areas, which should be used in the event of an Emergency Evacuation.
- Respond to all Emergency Evacuations, deal with the cause of the evacuation and ensure that the building is safe to be re-occupied as efficiently as possible.
- Endeavor to keep all concerned informed of the progress of the incident and/or when it is safe to re-enter the building.

KAUST Security will:

- On arrival at the scene of an Emergency Evacuation, secure the main entrance to the building and ensure that nobody enters/re-enters without the Fire Officer in Command giving permission.
- Where possible, ensure that the approach to the scene is kept clear for the responding Emergency Services.
- Provide to the Fire Officer in Command extra personnel, if available, when requested in order to secure the rest of the building/incident.
- If requested to do so by the Fire Officer in Command, inform all concerned that it is safe to re-enter the building or keep them informed as to the progress of the incident.

Responsible Person

- Will delegate duties as they see fit to LSRs/Supervisors/Managers/Building Managers/etc.
- Ensure that all personnel/visitors in their area of responsibility are aware of what they must do in the event of an Emergency Evacuation.
- Nominate/identify sufficient persons/volunteers, in their area of responsibility, to perform the roles of Fire Wardens. There should be sufficient numbers to cover for any type of absence, whether of a long or short duration.
- Ensure that the list of Fire Wardens, as identified in this Building Evacuation Plan, is updated by emailing BEP@KAUST.EDU.SA as changes in personnel occur.
- Ensure that each Fire Warden knows the extent of the area that they are responsible for.
- Organize Emergency Evacuation Drills at least two times annually which should be recorded along with all actual Emergency Evacuations.

All occupants of the building

On hearing the alarm they will:

- Stop work and immediately begin to evacuate the building using the nearest exit and proceed to your designated Assembly Area.
- Providing it is safe to do so, make any areas or processes safe which have been agreed as part of the building or area Evacuation Plan.
- Never assume a false alarm. Continue to evacuate **even if the alarm stops sounding**.
- Use the nearest escape exit or stairs - **DO NOT** use the elevators.
- Keep doors in stairways closed and close all doors behind you unless there are persons directly behind you evacuating.
- Proceed in an orderly manner until you reach your designated Assembly Area.
- Assist anyone who appears to be having difficulty evacuating, but **DO NOT** place yourself at risk.
- If you are assisting a person who is mobility impaired and has difficulty descending the stairs, assist them to the nearest Safe Refuge Point, e.g. a protected staircase landing and immediately on exiting the building inform a member of the emergency services of their location.
- If you cannot assist someone who requires assistance, report their location to the nearest Fire Warden, Security Officer, Fire Officer or call 911 (**012 8080911** if calling on mobile) and inform them of the situation.
- Remain in the Assembly Area and do not re-enter the building, **even if the alarm has stopped sounding**, until the "All Clear" is announced by the Fire Department or Security Personnel.
- If you have any relevant information regarding the incident or information which you feel is important to the emergency responders, pass the information to the nearest Security Officer, Fire Officer or call 911 (**012 8080911** if calling on mobile) and pass the information on to them for onward dispatch to the Fire Department Incident Commander.
- If the incident is likely to be protracted information will be provided to the building occupants which may include informing the occupants to return to the assembly point at a later time or leave the area altogether depending on the nature and severity of the incident. Information may be provided by the Fire Department or the Security Department.

On discovering a Fire they should, without putting themselves in danger and only if possible:

- Isolate any power, gas, fuel, etc.
- Close the door, once all occupants have evacuated the room, to stop the spread of the fire.
- If the Fire Alarm has not been automatically activated, raise the alarm by activating the nearest "Manual Pull Station" and evacuate the building.

Note: The Building Evacuation Alarm can be activated by any, all or a combination of the following means:

- Manually, by the operation of a Manual Pull Station.

- Automatically, by activation of a Smoke Detector, Heat Detector or Toxic Gas Monitoring (TGM) Alarm.

Sound of the Alarm

The sound of the alarm will be in the form of an “Electronic Whistle”.



- Call for assistance and attack the fire with the extinguishing equipment provided, but only if you are trained and confident to do so. If you are not trained to use a Fire Extinguisher you should close the door to the room where the fire is, once all occupants have evacuated the room, leave the building immediately and proceed to the nearest Assembly Area. **(See Appendix 1 for maps of Assembly Areas and Emergency Exits.)**
- DO NOT** put yourself or others in danger!



Fire Wardens will:

Before assuming the role of Fire Warden

- Ensure that they are trained, equipped, fully understand what is required of them as a Fire Warden and It is recommended that Fire Wardens request refresher training every two years.
- Ensure that they are fully aware of the area in which they work including Escape Routes, locations and types of Fire Extinguishers, Assembly Points, Emergency Pull Stations, how and when to contact the Emergency Services, their exact location, (e.g. Building, Floor, Area, Lab) etc.
- Identify any person in their area of responsibility who may need assistance in the event of an Emergency Evacuation and using a Personal Emergency Evacuation Plan (PEEP) make arrangements to assist that person. (Examples are attached to this Building Evacuation Plan)

Note: Issues that each Fire Warden should be constantly aware of in their areas

Fire Exits:

- Are the exits clear of all obstructions, both inside and outside?
- Are the Emergency Exit doors in proper working order?

Escape Routes:

- Are all Escape Routes clear of obstructions?
- Are escape routes clearly marked?

Fire Doors:

- Are all Fire Doors closed and in good working order?

Signage:

- Is the emergency signage sufficient for the risks in your area?
- Is the emergency lighting sufficient for the area and in working order?

Fire Detection System:

- Do all components of the Fire Alarm System in your area appear to be in good order with no sign of obvious damage or obstruction?

Sprinkler System:

- Do all components of the Sprinkler System in your area appear to be in good order with no sign of obvious damage or obstruction?

Fire Extinguishers:

- Do any Fire Extinguishers need to be replaced for any reason?
- Are there any missing Fire Extinguishers from their positions?
- Are the Fire Extinguishers clearly visible to anyone who needs to use them?
- Are the Fire Extinguishers appropriate for the types of hazard present?

Evacuation Equipment:

- Is all of the evacuation equipment required during an Emergency Evacuation present and in good working order? (e.g. Evacuation Chairs)

Storage:

- Is any equipment/stock stored in such a way as to cause a Fire Risk or to impede an Emergency Evacuation, or to increase the danger during a fire? (e.g. Gas Cylinders, Wooden Packaging, Chemicals)
- Are there any items being stored that could potentially be dangerous if they were to interact with each other in the event of an incident?
- Are there any items being stored in such volumes or of a dangerous nature that in the event of an incident they could be dangerous to Fire fighters or increase the danger of fire?

On hearing the alarm Fire Wardens should:

- Put on their **Yellow** Fire Warden vest and then instruct/assist occupants to evacuate the building through the nearest Emergency Exit and proceed to the nearest Assembly Area.

- Assist, when designated to do so, a person with a Personal Emergency Evacuation Plan (PEEP). This may involve the use of an Evac Chair.
- **DO NOT USE THE ELEVATORS**
- Without putting themselves in danger, they should carry out a “Quick Sweep” of their area of responsibility to ensure that all occupants have evacuated.
- If possible ensure any heat generating equipment is isolated.
- They should ensure that all doors are closed (**not locked**) on the way out of the building.
- On exiting the building, if they see that there is no Fire Warden or Security present, they should take up position at the door to ensure that the emergency services have access to the building to deal with the emergency.
- On exiting the building the Fire Warden should, if possible, confirm that someone has called 911 (**012 8080911** *if calling on mobile*). The Fire Alarms are constantly monitored by 911 Control but a phone call confirmation from the scene is an essential backup and may provide extra useful information.
- On reaching the designated Assembly Point, stay there with the rest of the occupants until the Fire Department declares that it is safe to return to the building.
- When possible, a Fire Warden from the area in which the alarm activated should make themselves available to the emergency services to provide any local or technical knowledge they may have to offer.

On discovering a small fire a Fire Warden should only attempt to tackle the fire with an appropriate Fire Extinguisher if:

- They are trained to use that extinguisher.
- They do NOT put themselves in any danger whatsoever.
- They are fully confident that they can extinguish the fire.
- They are not alone.
- The alarm has been raised to alert other building occupants and the Fire Department.

If they discover a fire that they are **not** going to attempt to extinguish they should, without putting themselves in danger and only if possible:

- Isolate any power, gas, fuel, etc.
- Close the door to stop the spread of the fire unless, of course, there are persons directly behind you evacuating.
- Raise the alarm by activating the nearest “Manual Pull Station” and assist in the Emergency Evacuation of the building.

Special Requirements

Should it be identified that in the event of an Emergency Evacuation any occupants will require special assistance or equipment, the details of the requirements and provisions should be clearly outlined in the form of a Personal Emergency Evacuation Plan (PEEP).

PERSONAL EMERGENCY EVACUATION PLAN (PEEP)

A Personal Emergency Evacuation Plan (PEEP) is a tailored escape plan for individuals who may not be able to reach an ultimate place of safety unaided or within a satisfactory period of time in the event of any emergency.

Who needs a PEEP?

A PEEP may be required for staff with:

- Mobility impairments
- Sight impairments
- Hearing impairments
- Cognitive impairments
- Other circumstances

A temporary PEEP may be required for:

- Short term injuries (i.e. broken leg)
- Temporary medical conditions
- Those in the later stages of pregnancy

The underlying question in deciding whether a PEEP is necessary is "can the person evacuate the building unaided and in a prompt manner during an emergency situation?" If the answer is "no", then it is likely that a PEEP is required. If an individual feels that a PEEP is necessary for them they should contact their Fire Warden and ask that a PEEP be put in place.

On the following pages there are examples of both a blank PEEP and a completed PEEP.

Example of a blank PEEP (No staff required to be within the PEEP)

| PERSONAL EMERGENCY EVACUATION PLAN | | | |
|---|--------------------------|-------------------------|--------------------------|
| Name | | | |
| Department | | | |
| Building Floor and Area | | | |
| Phone Number | | | |
| AWARENESS OF PROCEDURE | | | |
| _____ is informed of an Emergency Evacuation by: (please tick X relevant box) | | | |
| Fire Alarm system: | <input type="checkbox"/> | Visual Alarm System: | <input type="checkbox"/> |
| Fire Warden: | <input type="checkbox"/> | Other (please specify): | |
| DESIGNATED ASSISTANCE | | | |
| The following have been designated to give _____ assistance to get out of the building in an emergency. | | | |
| Name | | | |
| Contact Details (Floor, Area & Phone) | | | |
| Name | | | |
| Contact Details (Floor, Area & Phone) | | | |
| METHODS OF ASSISTANCE (e.g. Transfer procedures, methods of guidance etc) | | | |
| | | | |
| EQUIPMENT PROVIDED (including means of communication) | | | |
| | | | |
| PERSONALISED EVACUATION PROCEDURE (A step by step account beginning with the first alarm) | | | |
| 1 | | | |
| 2 | | | |
| 3 | | | |
| 4 | | | |
| MONITOR AND REVIEW | | | |
| | | | |
| Signed by Manager | | Date | |
| Signed by Individual | | Date | |

Example of a completed PEEP

| PERSONAL EMERGENCY EVACUATION PLAN | | | |
|---|---|-------------------------|--------------------------|
| Name | Seamus Murphy | | |
| Department | Engineering | | |
| Building Floor and Area | Floor 2 Area 4 | | |
| Phone Number | 12345678 | | |
| AWARENESS OF PROCEDURE | | | |
| Seamus Murphy is informed of an Emergency Evacuation by: (please tick X relevant box) | | | |
| Fire Alarm system: | <input checked="" type="checkbox"/> | Visual Alarm System: | <input type="checkbox"/> |
| Fire Warden: | <input type="checkbox"/> | Other (please specify): | |
| DESIGNATED ASSISTANCE | | | |
| The following have been designated to give (Seamus Murphy) assistance to get out of the building in an emergency. | | | |
| Name | James Rogers | | |
| Contact Details (Floor, Area & Phone) | Floor 2 Area 4 01234567 | | |
| Name | Melanie Smith | | |
| Contact Details (Floor, Area & Phone) | Floor 2 Area 4 02345678 | | |
| METHODS OF ASSISTANCE (e.g. Transfer procedures, methods of guidance etc) | | | |
| Seamus can walk to the stairwell where he will require 2 persons and the EVAC Chair to go down the stairs. | | | |
| EQUIPMENT PROVIDED (including means of communication) | | | |
| EVAC Chair which is located on the wall in stairwell "A". Communications will be by mobile phone to other Fire Wardens as required. | | | |
| PERSONALISED EVACUATION PROCEDURE (A step by step account beginning with the first alarm) | | | |
| 1 | On activation of the alarm Seamus will make his way to stairwell "A". | | |
| 2 | James and Melanie will meet Seamus in the stairwell and, when the stairwell is clear of other evacuees, assist him down the stairs using the EVAC Chair. James or Melanie will first inform another Fire Warden by mobile that they are proceeding down the stairs. | | |
| 3 | The Fire Warden downstairs will inform the Fire Department about Seamus and they may offer assistance. | | |
| 4 | | | |
| MONITOR AND REVIEW | | | |
| This plan will be reviewed annually. | | | |
| Signed by Manager | | Date | |
| Signed by Individual | | Date | |

To be completed by the Manager.

(If the individual works in more than one building, then it may be necessary to prepare a separate PEEP for each building)

Specific risks or concerns and mitigation measures (if any).

In the case where there are special risks or concerns associated with an Emergency Evacuation they should be identified here along with any mitigating measures put in place to address them.

| Type of Risk | Location | Mitigation Measures (If any) | Responsible Person | Contact Details |
|-----------------|---------------------------|--|----------------------|------------------|
| Gas Release | Labs and service corridor | Oxygen monitoring system provided on all labs. | Montadar Al Ashoor | +966 56 739 6795 |
| Chemical spills | Lab 1 & 4 | Secondary containments and storage cabinets | Rugayyah Al Mahmoudi | +966 55 400 9942 |
| Chemical spills | Lab 2 & 3 | Secondary containments and storage cabinets | Muhanna Aljadani | +966 50 850 0028 |
| Chemical spills | Lab 5 & high bay area | Secondary containments and storage cabinets | AldHhri, Ghaddaf | +966 54 568 0638 |
| General Fire | Building | Fire system and smoke detectors | Montadar Al Ashoor | +966 56 739 6795 |
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Emergency contact numbers related to this building should be entered in the chart below.

| Department | Name | Phone Number | Email Address |
|----------------------------|---------------------|---|----------------------|
| 911 Emergency Control Room | Operator | Landline 911 From a Mobile 0128080911 | N/A |
| MEIC Director | Khaled Abou Ghoneim | +966 53 547 9715 | kaboughoneim@dow.com |
| EH&S Specialist | Montadar Al Ashoor | +966 56 739 6795 | malashoor@dow.com |
| Building Manager | Nora Bouglaia | +966 50 850 0028 | nmbouglaia@dow.com |
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Record of Emergency Evacuations (Real or Practice)

“Date” and “Location” should be recorded by the department involved.

“Cause” should be recorded by whichever department is responsible for investigating and rectifying the cause

| Date | Location | Cause |
|-------------|--------------|---|
| 18 Sep 2023 | Dow Building | Gas release drill + man down medical drill. |
| 04 Nov 2022 | Dow Building | False Alarm |
| 13/10/2024 | Dow Building | Building Evacuation drill |
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Active Fire Warden List for Dow Middle East Innovation Centre

| Building Fire Wardens | | | | |
|-----------------------|--|---|---------|---------------|
| Fire Warden Name | Training Date | Area | Offices | Location Name |
| Muhanna Aljadani | Local training, will be enrolled with KAUST Training | First floor lab and office area | | |
| Asif Nawaz | | Backup for First floor lab and office area | | |
| Ahmed Qamar | | Reception area | | |
| Imran Liyakat Ali | | Backup for Reception area | | |
| Rugayyah Al Mahmoudi | | Service corridor and high bay area | | |
| AldHhri, Ghaddaf | | Backup for Service corridor and high bay area | | |

Fire Warden Training

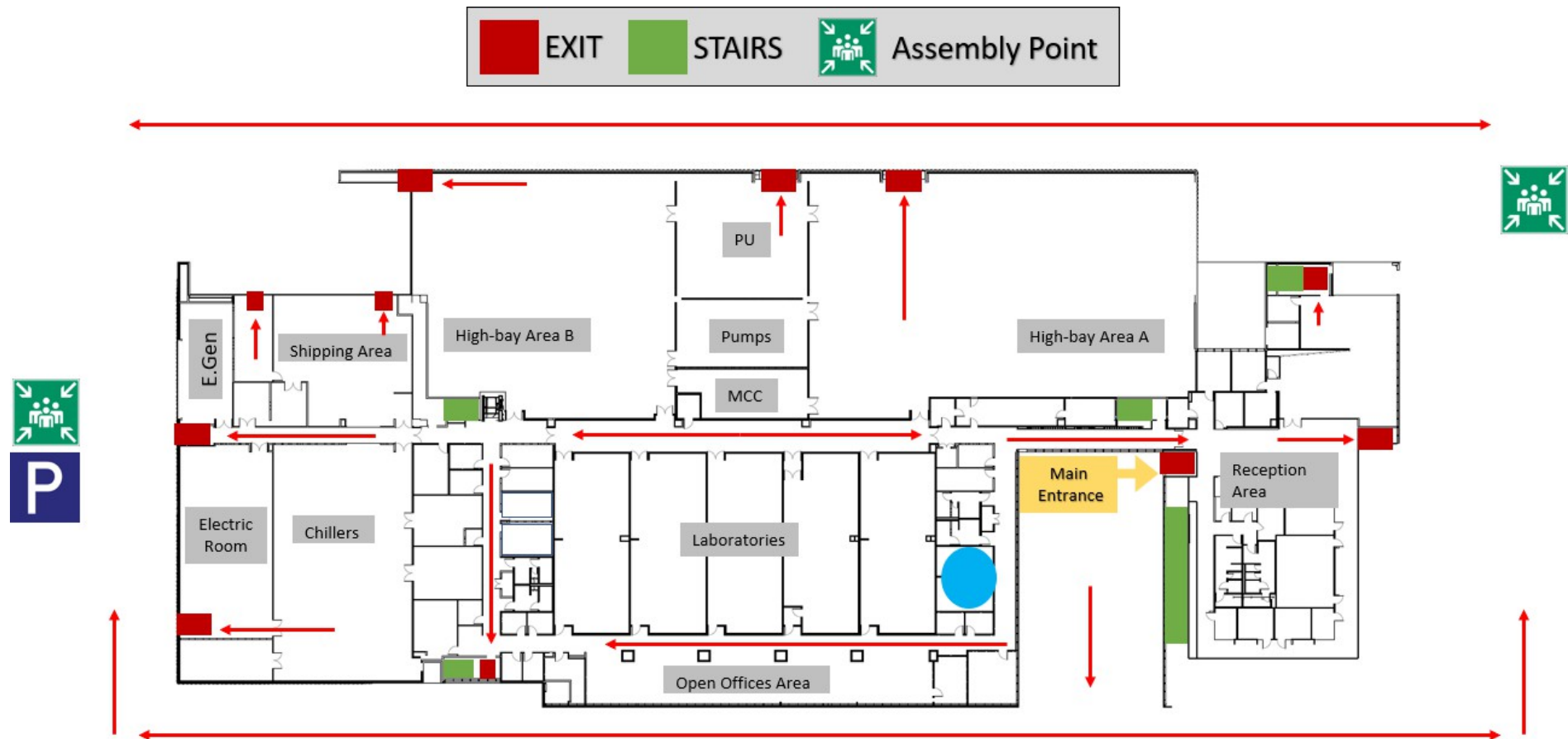
Fire Warden training is provided by the Fire Department at the Fire Station. It is free of charge and places on the courses can be reserved by accessing the web address below. Click on the desired course on the calendar and complete the registration form. The training courses are usually held on Monday and Wednesday mornings starting at 8.30 am and lasting approximately 2 hours.

[Fire Safety Training](#)

Appendix 1

Evacuation Map

Dow Middle East Innovation Center- First Floor



Dow Middle East Innovation Center- Second Floor- Unoccupied



Appendix 2: Sweep Card Instructions and Action Plans

Sweep cards

During an evacuation the sweep card will be used to ensure complete evacuation of the designated area of a floor.

- During the evacuation alarm the designated floor warden will take the sweep card out of its holder.
- The designated area will be checked along the sweep card. All persons present will be directed to the nearest emergency exit.
- The building doors will be closed after inspection.
- The sweep cards will be handed over to area emergency leader as soon as the emergency response leader and his group have arrived at the Assembly Point. This will provide evidence that the designated area has been fully evacuated.
- The emergency response leader checks whether all sweep cards have been handed over, and if necessary takes action.

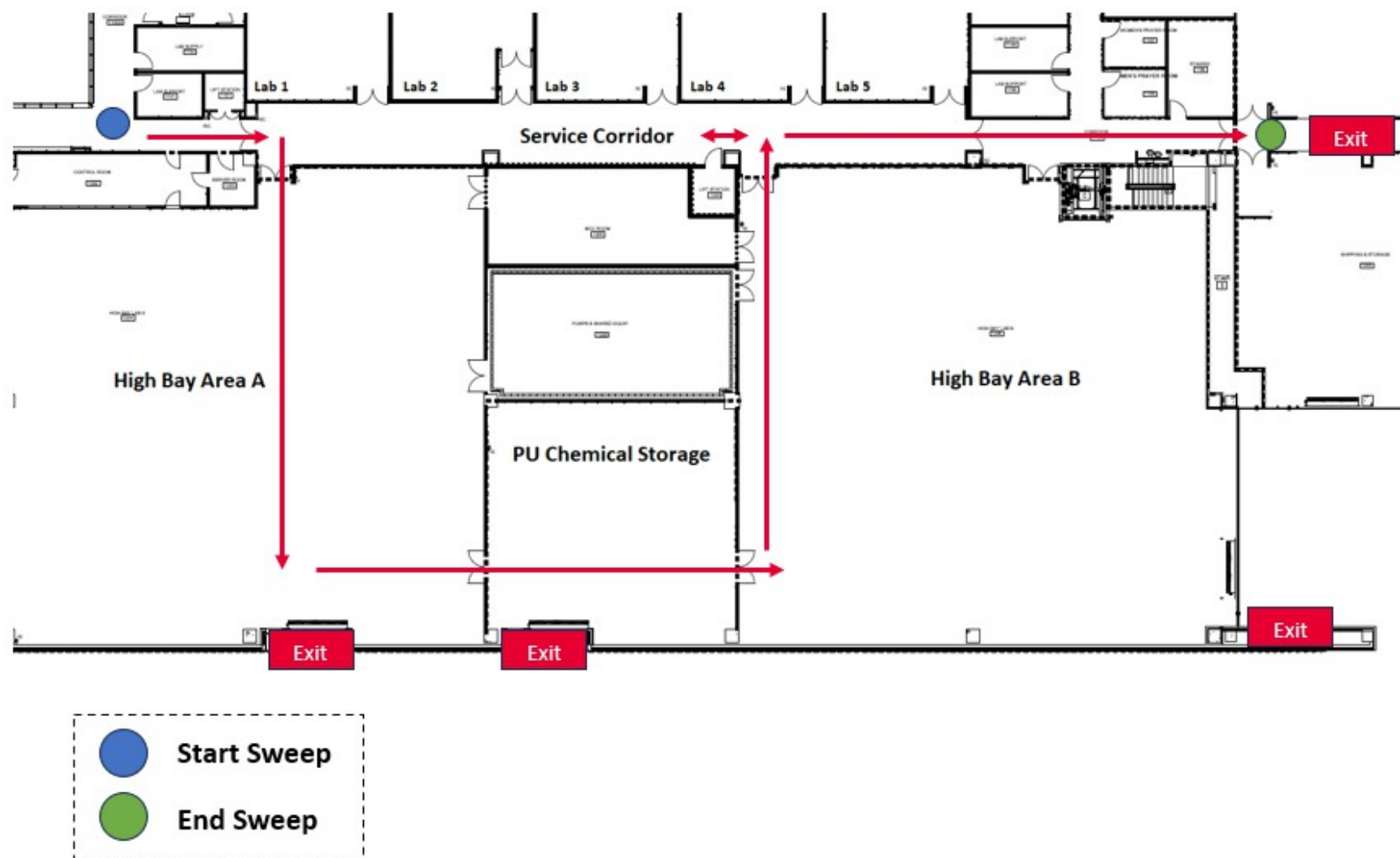
How to use

When the attention or the evacuation signal sounds, the designated floor warden will take the cards from the holder and checks all the spaces as indicated on the map. The person conducting the sweep is the last to leave the area and hands over the sweep card to the emergency response leader in the assembly point.





Service Corridor and High Bay Areas Sweep Card



General Business



Appendix 3: Assembly Points

DOW

ASSEMBLY POINTS



Appendix 4: Fire Alarm Panel Locations

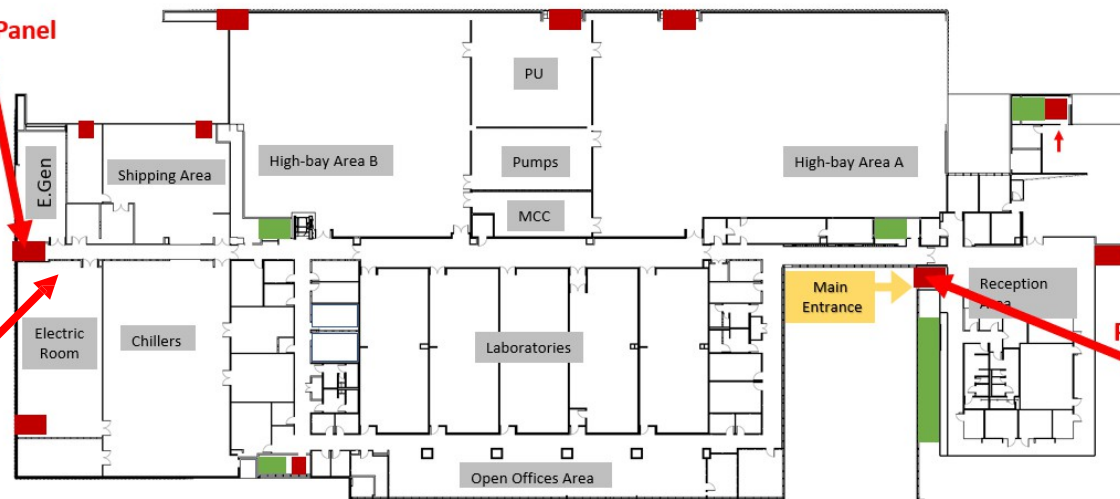


Fire Alarm Panel



Main Fire Alarm Panel

In the electrical room



Fire Alarm Panel

