

HALL B WORKER SAFETY AWARENESS TRAINING (SAF111)

Purpose

Familiarize users with safety hazards and protection systems in the Counting House and Hall.

Training

All users should take guided walkthrough covering the Hall B Counting House, labyrinth and Hall B using the latest update of the Emergency Response Guidelines (ERG) document for the hall.

For this, the user should contact the person responsible for the training,

Hall B/SAF111 - Stepan Stepanyan (x-7196, stepanya@jlab.org)

Doug Tilles (cell:757 810-9576, <mailto:tilles@jlab.org>)

The guided training will, at a minimum, go over the likely hazards as well as the protection & emergency systems and procedures outlined in Appendix A of the ERG that one finds in the Counting House, personnel access stairs/tunnel and the hall. The JLab Skill Requirements List (SRL) tracking system (i.e. training) will be used to track the training status.

The SAF111 training does not have an expiration date. If however, the conditions of a hall are deemed to have changed sufficiently by the Division Safety Officer, the SAF111 training will be invalidated (forced to expire). The training tracking system will, like with any other training, notify all those affected so that they can make arrangements to take again the guided SAF111 training.

SAF111 training is required for unescorted access to the hall and to be able to take shifts in the Counting House – “escorting” of shift personnel is not allowed.

Emergency Response Guidelines (ERG)

As part of the Experiment Readiness Review Process and Approval, every experiment is required to submit, in addition to the Conduct-of-Operations (COO), Experiment Safety Assessment Document (ESAD) and, Radiation Safety Assessment Document (RSAD), a document that summarizes the location of major hazards in the hall, the location of the various emergency systems as well as emergency procedures and egress routes during that experiment: the Emergency Response Guidelines (ERG) – this document. Shift personnel and anyone else wishing access to the hall during the duration of the experiment, must read and sign to indicate they have understood the COO, ESAD, RSAD and ERG of the experiment. Anyone feeling in doubt with the information contained in the ERG should contact the person responsible for the Hall Worker Awareness Training and schedule guided refresher training.

Purpose

Familiarize users with safety hazards and protection systems in the Counting House and Hall.

Prerequisites to access the halls without escort

ES&H Orientation (SAF100)

Rad Worker I Training or equivalent (must have been issued a dosimeter by JLab)

ODH training (SAF103)

General Access Radiological Work Permit [RWP] (SAF801kd)

Hall B Worker Safety Awareness Training (SAF111)

Reminder

- **No one under 18 years may enter the halls**
- **No sandals or open toe shoes in any hall**
- **No shorts, long pants are required in the hall**
- **No food or drinking inside the halls**
- **Check postings at the entrance to the hall for special requirements** (e.g. hardhats are mandatory in Hall B and often required in the other halls). ***If in doubt, please contact the Hall Work Coordinator or his/her designee,***
Hall B - D. Tilles [cell (757) 810-9576, tilles@jlab.org]
- Check that all work or test set ups follow the work controls indicated in the ESH&Q manual (<http://www.jlab.org/ehs/ehsmanual/index.html>) and on the supplemental [Physics Division Work Planning Guidance](http://www.jlab.org/div_dept/physics_division//work_guidance_final.pdf) (http://www.jlab.org/div_dept/physics_division//work_guidance_final.pdf). **If in doubt, consult the Safety Warden of the area in which the work will take place, the Physics Division ESH&Q coordinator (B. Manzlak) or the Physics Division Safety Officer (P. Rossi).**

The two-person rule (“Buddy Rule”)

Accessing the halls or performing work in the halls may require that personnel work on teams of at least two people. The two-person rule must be followed when entering Hall B or when performing a task in any of the halls that requires two-persons as indicated by the applicable general JLab safety rules or task OSP/TOSP. Examples of tasks that require two-persons would be operation of the hall crane, use of a man-lift, performing cryogenic, electrical or welding work. **Check postings at the entrance to the hall for special requirements. If in doubt, please contact the Hall Work Coordinator or his/her designee.**

Undergraduate Students in the Experimental Halls

Regardless of hall or task, undergraduate students must follow the two-person rule during their first three-months at JLab. During that period, undergraduate students are allowed to work in the hall if (a) their work in the hall is always under the supervision of a hall-authorized “buddy” (the “buddy” can not be another undergraduate) and, (b) a permanent JLab staff member is cognizant of the work to be done, has supervisory responsibility for their work and approves the “buddy”.

Appendix A

This appendix lists likely hazards, protection & emergency systems used and emergency procedures to be reviewed during the Hall Worker Awareness Training

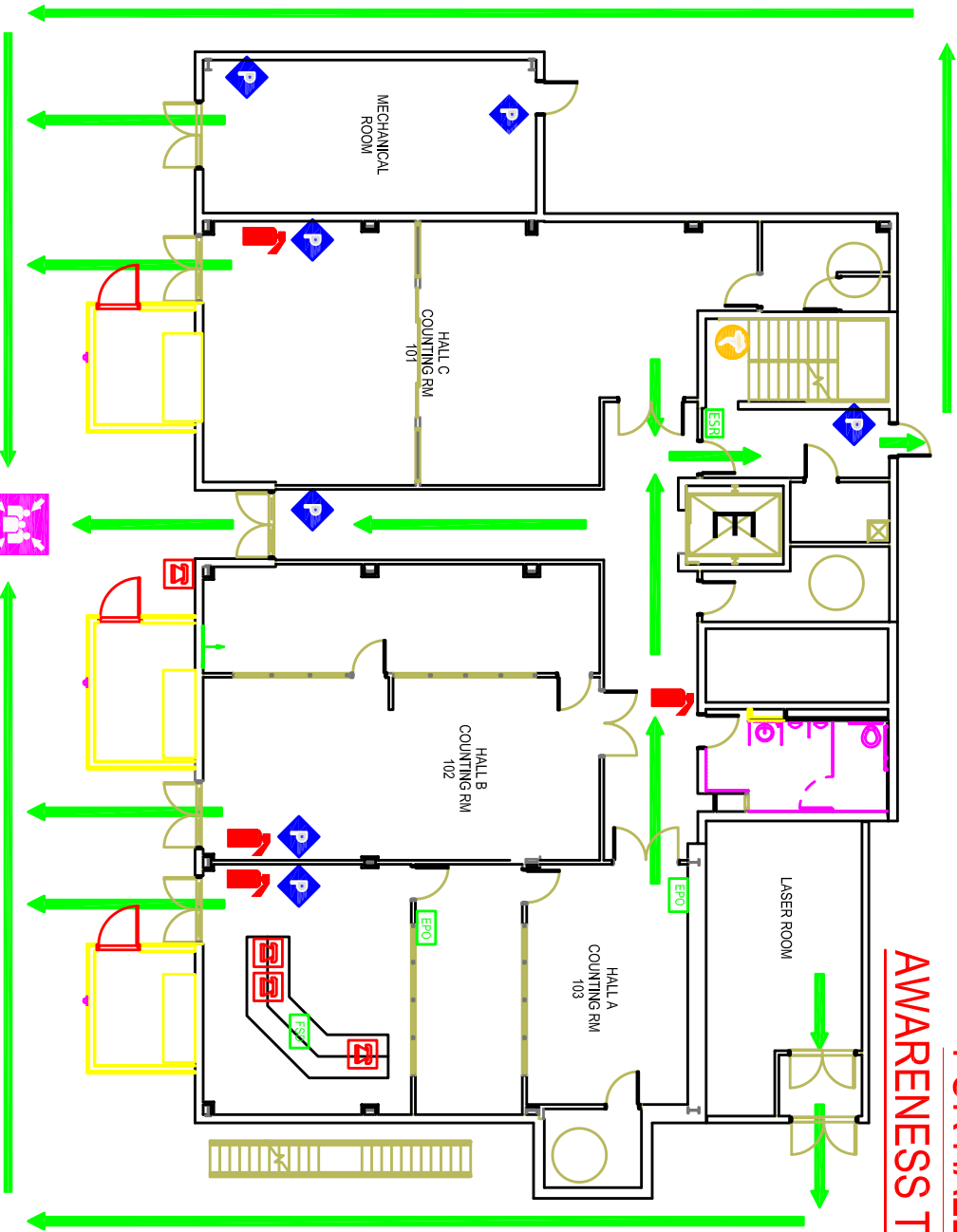
Hazards:

- Fire (electrical equipment, breaker panels, paper, trash, cables)
- Tripping and overhead hazards
- Falling hazards
- Elevated work
- High-pressure systems including low-conductivity water distribution
- Radiation hazards (beam-on, contaminated and activated areas)
- Loud noise hazards (thin vacuum windows)
- Flammable gasses
- Cryogenic (ODH and “cold-bite”)
- Magnets and magnetic fields
- Electrical
 - AC & DC (various voltages)
 - Magnet power supplies and their current distribution systems
 - High-Voltage supplies

Protection & Emergency systems and procedures:

- Signs and postings,
 - Radiation areas
 - Hearing protection requirements
 - Exit signs
 - Exit routes (evacuation plans)
 - Oxygen Deficiency Hazards
- Personnel Protection Requirements (e.g. hardhat, safety glasses, ...)
- First Aid kit and Emergency Defibrillator
- Telephone locations with emergency numbers
- Fire
 - Detection systems (e.g. the Very Early Smoke Detection Apparatus [VESDA])
 - Alarm pull boxes
 - Fire alarm bells
 - Extinguishers and escape equipment (Hall B only)
 - Evacuation routes and muster points

- Electrical
 - Power shutoff switches
 - Circuit breaker panels
- Weather related hazards
 - Tornado emergency response
- Emergency lights
- Beam status, interlock and abort
 - Machine State Status Indicators,
 - Magenta/purple beacons,
 - Access doors to hall
 - Key interlocks
 - Run/Safe boxes
- Oxygen Deficiency Hazard condition detection
 - Sensors locations
 - Blue beacons & alarms locations
- Radiation Monitors (Controlled Area Radiation Monitors – CARMs)
- RadCon staging areas for equipment to be removed from hall
- Red beacons for hazards (e.g. energized magnets and cranes)
- Yellow beacons for warning or caution (e.g. energized lasers, forklifts)
- Cabinets for storing flammable materials
- Lockout/Tagout Stations
- Eye wash stations



**FOR HALL WORKER
AWARENESS TRAINING ONLY**

COUNTING HOUSE
BUILDING 97, FLOOR 1
EMERGENCY PLAN

- IN CASE OF FIRE:**
- STAY CALM
 - WALK, DO NOT RUN
 - CLOSE YOUR DOOR
 - ACTIVATE NEAREST PULL BOX, FOLLOW ARROWS IN DIAGRAM, & MEET AT MUSTER POINT

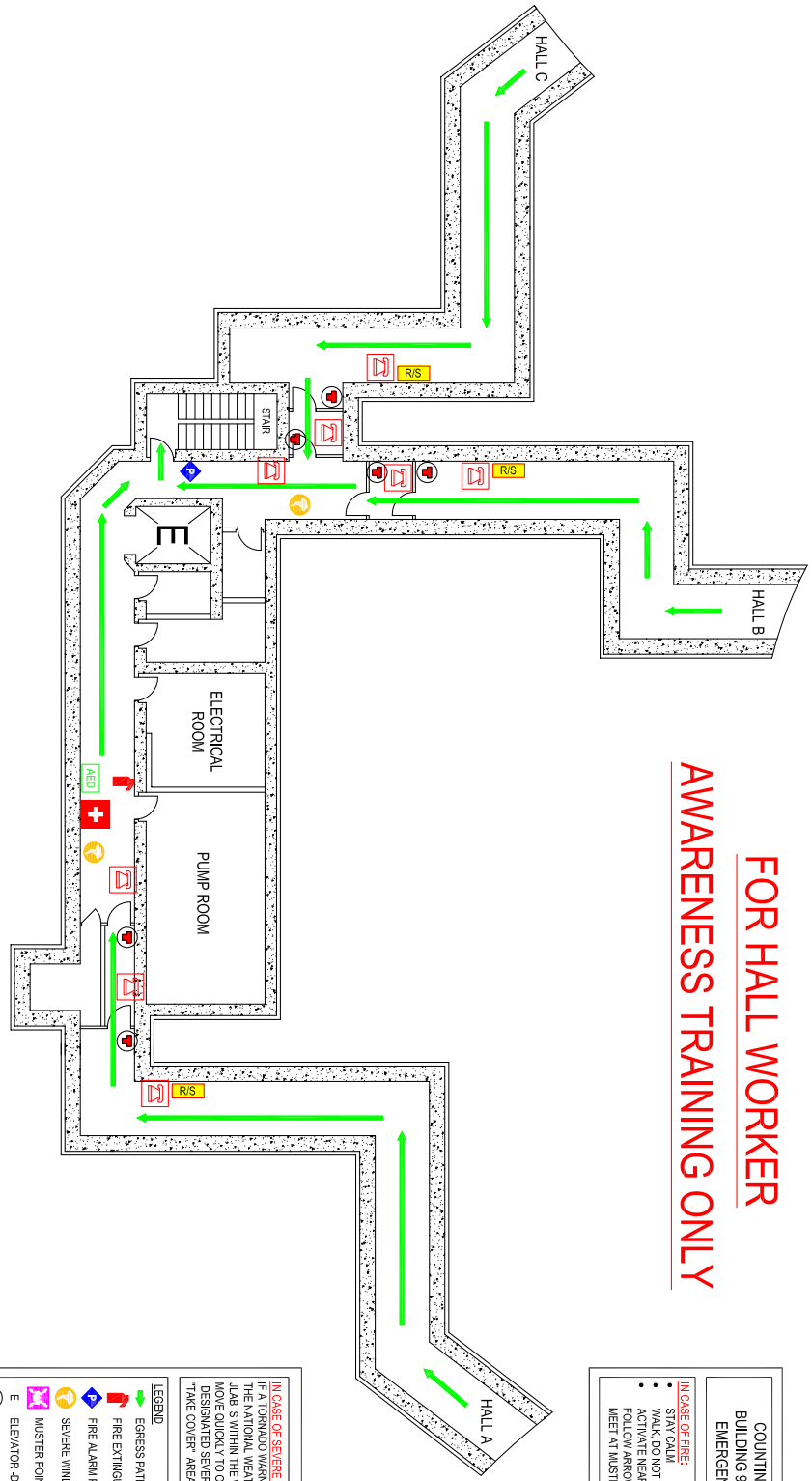
IN CASE OF SEVERE WIND:

IF A TORNADO WARNING IS ISSUED BY THE NATIONAL WEATHER SERVICE AND LAB IS WITHIN THE WARNING AREA, MOVE QUICKLY TO THE LOWER LEVEL BY WAY OF STAIRS IN THE COUNTING HOUSE AND REMAIN IN THE LOWER LEVEL CORRIDOR AREA.

LEGEND

	EGRESS PATH
	FIRE EXTINGUISHER
	FIRE ALARM PULL STATION
	SEVERE WIND "TAKE COVER" AREA
	MUSTER POINT
	ELEVATOR - DO NOT USE IN A FIRE
	ACCELERATOR FAST SHUT DOWN
	TELEPHONE

FOR HALL WORKER AWARENESS TRAINING ONLY



FIRST LEVEL
OUTSIDE

**COUNTING HOUSE
BUILDING 97, FLOOR 0
EMERGENCY PLAN**

IN CASE OF FIRE:

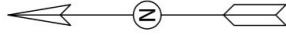
- STAY CALM
- TAKE COVER
- ACTIVATE NEAREST PULL BOX
- FOLLOW ARROWS IN DIAGRAM, & MEET AT MUSTER POINT

IN CASE OF SEVERE WIND:

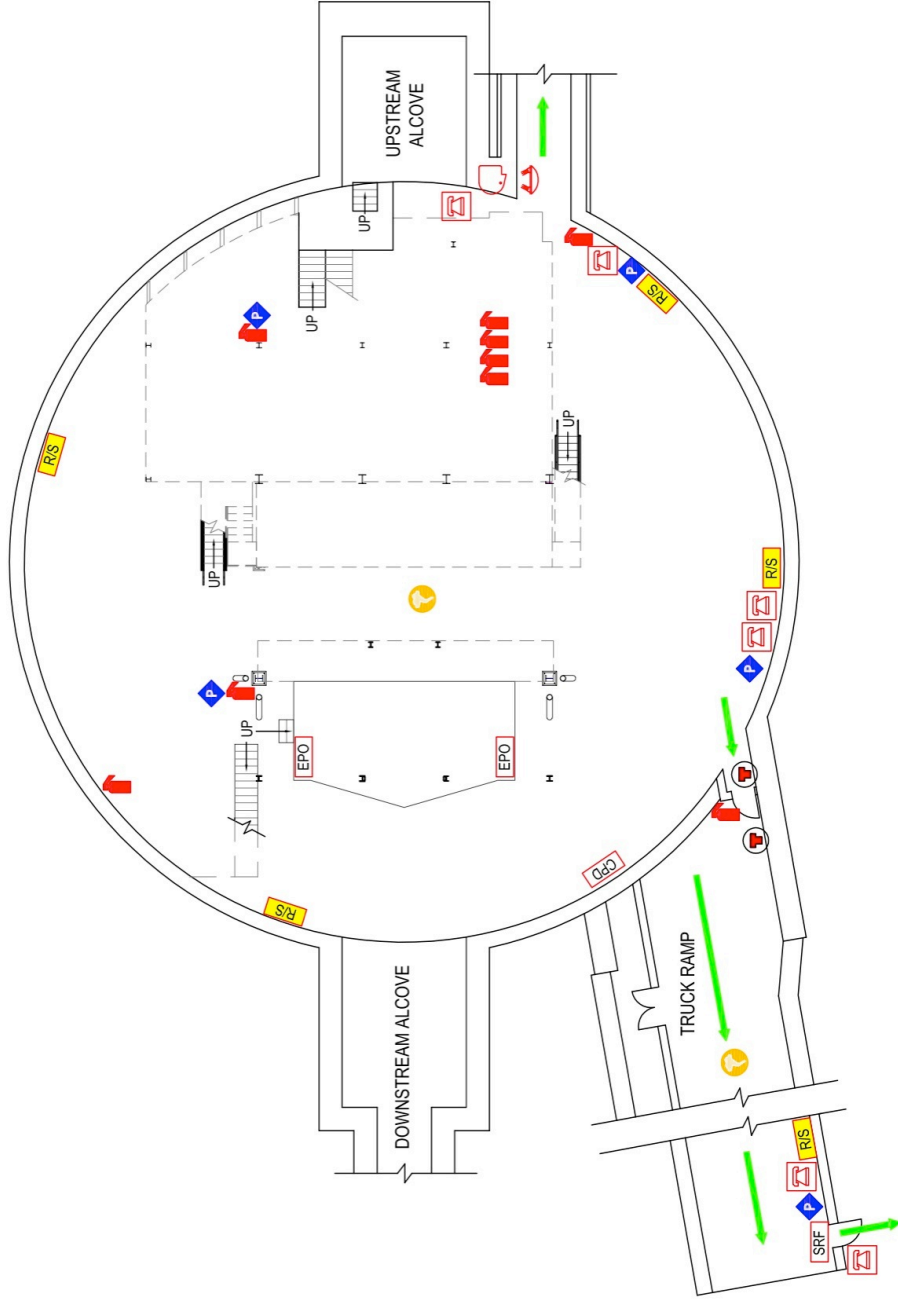
IF A TORNADO WARNING IS ISSUED BY THE NATIONAL WEATHER SERVICE, AND YOU ARE WITHIN THE WARNING AREA, MOVE QUICKLY TO ONE OF THE DESIGNATED SEVERE WIND TAKE COVER AREAS.

- LEGEND**
- EGRESS PATH
 - FIRE EXTINGUISHER
 - FIRE ALARM PULL STATION
 - SEVERE WIND TAKE COVER AREA
 - MUSTER POINT
 - ELEVATOR - DO NOT USE IN A FIRE
 - EMERGENCY EXIT SWITCH
 - RUN/SAFE BOX
 - FIRST AID
 - AUTOMATED EXTERNAL DERIVILLATOR
 - TELEPHONE

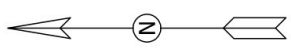
FOR HALL WORKER AWARENESS TRAINING ONLY



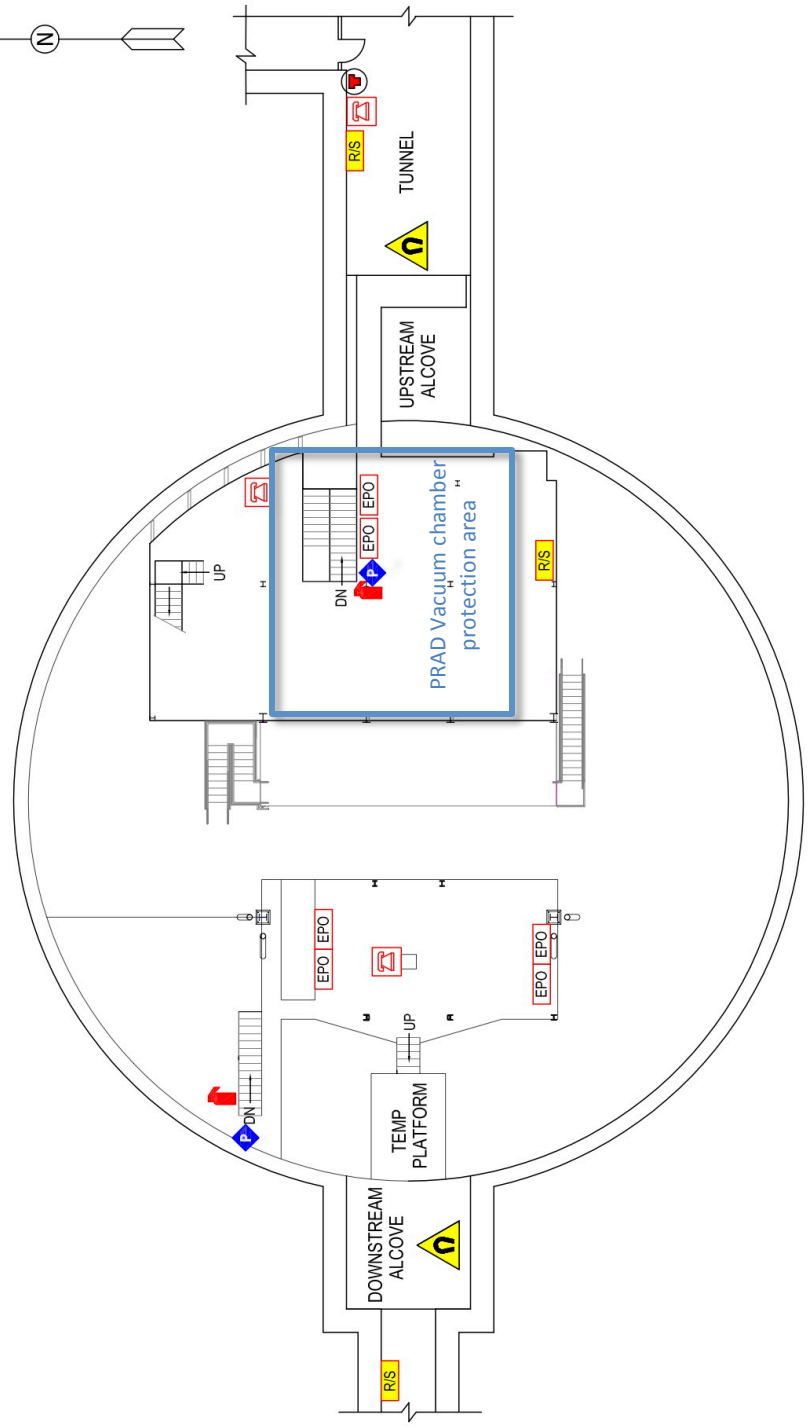
<p>EXPERIMENTAL HALL B BUILDING 94, FLOOR 0 EMERGENCY PLAN</p>	<p>IN CASE OF FIRE:</p> <ul style="list-style-type: none"> • STAY CALM • WALK, DO NOT RUN • ACTIVATE NEAREST PULL BOX • FOLLOW ARROWS IN DIAGRAM, & MEET AT MUSTER POINT 	<p>IN CASE OF SEVERE WIND:</p> <p>IF A TORNADO WARNING IS ISSUED BY THE NATIONAL WEATHER SERVICE, AND JLAB IS WITHIN THE WARNING AREA, MOVE QUICKLY TO ONE OF THE DESIGNATED SEVERE WIND "TAKE COVER" AREAS.</p>	<p>LEGEND</p> <ul style="list-style-type: none"> EGRESS PATH FIRE EXTINGUISHER FIRE ALARM PULL STATION SEVERE WIND "TAKE COVER" AREA MUSTER POINT TELEPHONE EMERGENCY EXIT SWITCH RUNSAFE BOX CRANE POWER DISCONNECT SMOKE REMOVAL FAN EMERGENCY POWER OFF MAGNETIC FIELD ELECTRONICS / POWER EYE WASH
---	---	---	---



**FOR HALL WORKER
AWARENESS TRAINING ONLY**



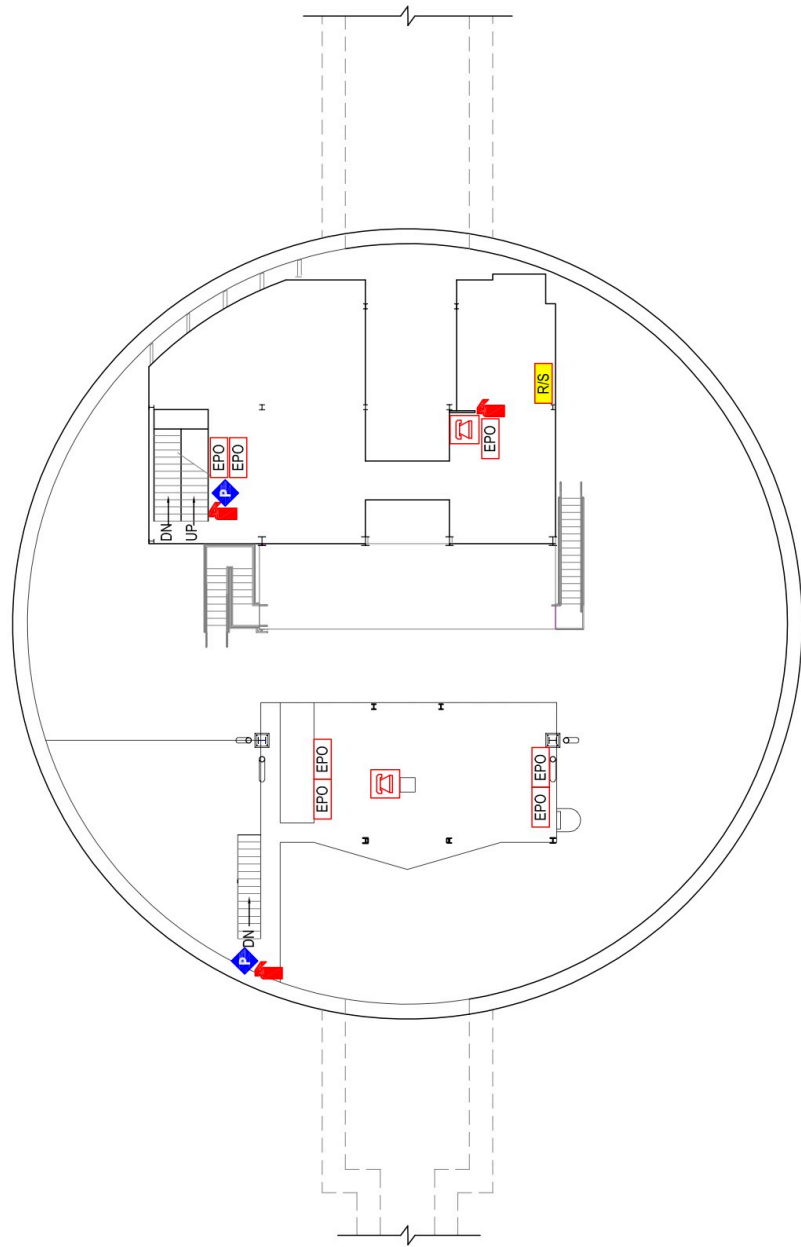
<p>EXPERIMENTAL HALL B BUILDING 94, FLOOR 1 EMERGENCY PLAN</p>	<p>IN CASE OF FIRE:</p> <ul style="list-style-type: none"> • STAY CALM • WALK, DO NOT RUN • ACTIVATE NEAREST PULL BOX. • FOLLOW ARROWS IN DIAGRAM, & MEET AT MUSTER POINT 	<p>IN CASE OF SEVERE WIND: IF A TORNADO WARNING IS ISSUED BY THE NATIONAL WEATHER SERVICE, AND JLAB IS WITHIN THE WARNING AREA, MOVE QUICKLY TO ONE OF THE DESIGNATED SEVERE WIND "TAKE COVER" AREAS.</p>	<p>LEGEND</p> <ul style="list-style-type: none"> EGRESS PATH FIRE EXTINGUISHER FIRE ALARM PULL STATION SEVERE WIND "TAKE COVER" AREA MUSTER POINT TELEPHONE EMERGENCY EXIT SWITCH R/S RUNSAFE BOX CPD CRANE POWER DISCONNECT SRF SMOKE REMOVAL FAN EPO EMERGENCY POWER OFF MAGNETIC FIELD ELECTRONICS / POWER EYE WASH
--	--	--	---



**FOR HALL WORKER
AWARENESS TRAINING ONLY**



<p>EXPERIMENTAL HALL B BUILDING 94, FLOOR 2 EMERGENCY PLAN</p>	<p>IN CASE OF FIRE:</p> <ul style="list-style-type: none"> • STAY CALM • WALK, DO NOT RUN • ACTIVATE NEAREST PULL BOX, FOLLOW ARROWS IN DIAGRAM, & MEET AT MUSTER POINT 	<p>IN CASE OF SEVERE WIND:</p> <p>IF A TORNADO WARNING IS ISSUED BY THE NATIONAL WEATHER SERVICE, AND JLAB IS WITHIN THE WARNING AREA, MOVE QUICKLY TO ONE OF THE DESIGNATED SEVERE WIND "TAKE COVER" AREAS.</p>	<p>LEGEND</p> <ul style="list-style-type: none"> EGRESS PATH FIRE EXTINGUISHER FIRE ALARM PULL STATION SEVERE WIND "TAKE COVER" AREA MUSTER POINT TELEPHONE EMERGENCY EXIT SWITCH R/S RUN/SAFE BOX CPD CRANE POWER DISCONNECT SRF SMOKE REMOVAL FAN EPO EMERGENCY POWER OFF MAGNETIC FIELD ELECTRONICS / POWER EYE WASH
--	---	---	--



**FOR HALL WORKER
AWARENESS TRAINING ONLY**



EXPERIMENTAL HALL B
BUILDING 94, FLOOR 3
EMERGENCY PLAN

IN CASE OF FIRE:

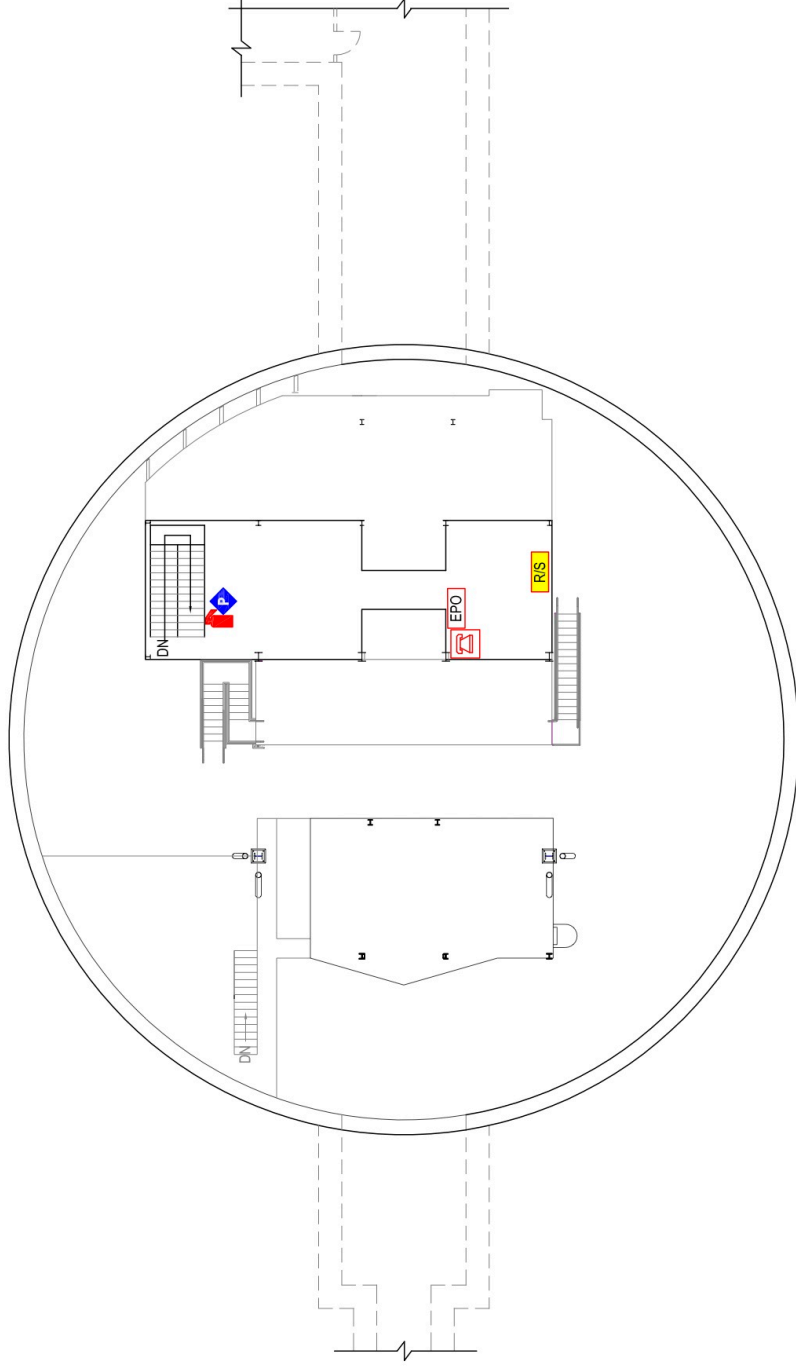
- STAY CALM
- WALK, DO NOT RUN
- ACTIVATE NEAREST PULL BOX
- FOLLOW ARROWS IN DIAGRAM, & MEET AT MUSTER POINT

IN CASE OF SEVERE WIND:





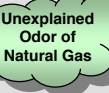







IF A TORNADO WARNING IS ISSUED BY THE NATIONAL WEATHER SERVICE, AND JLAB IS WITHIN THE WARNING AREA, MOVE QUICKLY TO ONE OF THE DESIGNATED SEVERE WIND "TAKE COVER" AREAS.

LEGEND

- EGRESS PATH
- FIRE EXTINGUISHER
- FIRE ALARM PULL STATION
- SEVERE WIND "TAKE COVER" AREA
- MUSTER POINT
- TELEPHONE
- EMERGENCY EXIT SWITCH
- RUN/SAFE BOX
- CRANE POWER DISCONNECT
- SMOKE REMOVAL FAN
- EMERGENCY POWER OFF
- MAGNETIC FIELD
- ELECTRONICS / POWER
- EYE WASH



Emergency Response Procedures

EVENT	ACTION 1	ACTION 2	ACTION 3
<p>Important information DIAL 9-911 or 911</p> <p>Both numbers will connect you to: City of Newport News' Emergency Dispatch Center</p> <p>If dialed from a land-line phone the following are automatically alerted: <ul style="list-style-type: none"> • JLab Security • Occupational Medicine • Other key JLab Responders. </p> <p>If dialed from a cell phone you will also need to call: JLab Security @ 269-5822</p>			
<p>Injury or acute illness</p> 	<p>Call 9-911 or 911</p>	<ul style="list-style-type: none"> • Stay with the victim while awaiting emergency responders • Do not move the victim unless they are endangered at location • Administer first aid/CPR if willing and trained • Avoid contact with other's blood 	<p>If possible send someone to flag down the ambulance</p>
<p>Direct minor injuries to Occupational Medicine (Support Service Center, Bldg 28, Room 22) during regular business hours. Most buildings have one or more first-aid cabinets and AEDs for your convenience. There are pamphlets at these locations to assist you.</p>			
	<p>Sound Alarm (use the nearest pull box)</p> 	<p>Evacuate to Muster Point (refer to the evacuation map for your location)</p>	<p>Await "All-Clear Notification" From Fire Protection Engineer or Building Drill Coordinator before re-entry.</p>
 <p>Fire Alarm</p>	<p>Evacuate to Muster Point (refer to the evacuation map for your location)</p>	<p>Await "All-Clear Notification" From Fire Protection Engineer or Building Drill Coordinator before re-entry.</p>	
	<p>Sound Alarm (use the nearest pull box)</p> 	<p>Evacuate to Muster Point (refer to the evacuation map for your location)</p>	<p>Call JLab Security @ 269-5822</p>
<p>Severe Weather Warning (via weather alert radio, outdoor siren, or other official source)</p>	<p>Immediately:</p> <ul style="list-style-type: none"> • Pass the Word • Taking Cover <p>(refer to the evacuation map for your location)</p>		
<p>Earthquake</p>	<p>Do Not Evacuate Building</p>	<p>Protect Yourself from Falling Objects (get under a desk or table)</p>	<p>If there are injuries or damage Call JLab Security @ 269-5822</p>
<p>Bomb Threat</p> 	<p>Write Down:</p> <ul style="list-style-type: none"> • Any demands/instructions • Caller's number if available • Vocal characteristics • Any other relevant details to identify the caller 	<p>Call JLab Security @ 269-5822 or Sound Alarm (use the nearest pull box)</p> 	<p>Evacuate to Muster Point (refer to the evacuation map for your location)</p>
	<p>Call JLab Security @ 269-5822</p>	<p>Cordon Off Area Keep people away</p> 	<p>Wait for trained and equipped staff to control and contain the spill</p>
<p>ODH Alarm or visible plume</p> 	<p>Evacuate to Muster Point (refer to Supervisor's instructions for your location)</p>	<p>Call JLab Security @ 269-5822</p>	<p>Call Crew Chief @ 269-7045</p>
<p>Radiation Alarm</p> 	<p>Hit "Push to Safe" RED Button</p>	<p>Evacuate to Muster Point (refer to the evacuation map for your location)</p>	<p>Call Crew Chief @ 269-7045</p>
<p>Automobile Accident</p>	<p>If anyone is injured. Call 9-911 or 911</p>	<p>Call JLab Security @ 269-5822</p>	<p>Call Facilities Management @ 269-7400</p>
<p>Intruders, Threatening or Abusive Behavior other unauthorized conduct</p>	<p>Call JLab Security @ 269-5822</p>	<p>Ensure Your Personal Safety! Run, Hide, Fight (See ES&H Manual Chapter 3510-T5 Active Threat Emergency Procedure and HR Workplace Harassment and Violence Policy)</p>	
<p>Trouble Indication audible alert in fire alarm panel</p>	<p>Call Facilities Management @ 269-7400</p>		
<p>Requests to Serve Summons or other legal documents</p>	<p>Call JLab Security @ 269-5822</p>		
<p>Requests for Personal Information about JLab staff or visitors</p>	<p>You are not authorized to provide any information about JLab staff members Refer Requestor to Human Resource Representative @ 269-7068</p>		
<p>Requests for passwords or other Computer-Access information</p>	<p>You are not authorized to provide any information about computer accounts, passwords, user names, and so forth Refer Requestor to Computer Center Help Desk @ 269-7155</p>		
<p>Requests for JLab News, Status, or other information</p>	<p>You are not authorized to provide any information regarding JLab status or conditions Refer Requestor to JLab Public Information Office @ 269-7689</p>		