## **CITY OF HOUSTON**

## **HIGH-RISE OFFICE BUILDING**

## FIRE SAFETY PLAN







August 3, 2019

DATE

Anessa Sillman

PROPERTY MANAGER

1001 McKinney

ADDRESS Houston, Texas <u>77002</u>

713-333-1001

PHONE NUMBER

LIFE SAFETY IS THE GOAL OF THIS PLAN. ALL DUTIES CALLED FOR HEREIN SHOULD BE DONE FROM A SAFE LOCATION IF POSSIBLE.

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### **PROCEDURES FOR REPORTING FIRES & FIRE ALARMS**

#### I. NOTIFICATION

# A. If The Following Is Reported to you, Or If You See Smoke, Or See Flames, Or Smell Something Burning, Or Hear A Fire Alarm, <u>IMMEDIATELY</u>:

- Call the Fire Department Dial: **9-1-1**
- Call the Fire Safety Director Management: <u>713-333-1001</u>
- Activate the Fire Alarm Pull Station if the Fire Alarm is not sounding.
- Report any change in conditions to the Fire Department and the Fire Safety Director.

#### B. If You Think You Smell A Peculiar Or Unfamiliar Odor, <u>IMMEDIATELY</u>:

• Call the Fire Safety Director - Management: 713-333-1001

#### C. Information To Be Given To The Fire Department:

- What is the Emergency: (Alarm, Smoke, Flames, Etc.?)
- Address: <u>1001 McKinney</u> (Closest Cross Street) <u>Main</u>
- Type of Occupancy: (High-rise Office Building)
- What Floor: Room # \_\_\_\_\_, Telephone # calling from \_\_\_\_\_\_
   (Let The Fire Department Hang Up First!)

#### II. EMERGENCY PROCEDURE PRIORITIES

# A. If The Following Is Reported To You, Or If You See Smoke, Or See Flames, Or Smell Something Burning, IMMEDIATELY:

- **Isolate** the fire (close the door if you can do so safely)
- **Call the Fire Department**, Fire Safety Director, and Activate the Fire Alarm Pull Station, if the Fire Alarm is not sounding.
- **Evacuate** Using Exit/Stairs to a safe area. Relocation and reentry into the building at least 3 or more levels below the fire floor is generally adequate.
- **Fire Extinguishment** (is optional and only if all of the above has been completed)

#### **B.** Emergency procedures – in the event of an <u>alarm only</u>:

- Call the Fire Department and the Fire Safety Director.
- <u>Minimum procedure</u>: Prepare to evacuate by going to the Exit/Stair door, if there is any evidence of <u>unwanted</u> fire, evacuate the floor to a safe area.
- Report any change in conditions to the Fire Department and the Fire Safety Director.

#### C. Fire Safety Director:

- Call the Fire Department, and have someone meet the Fire Department upon their arrival. Any unwanted fire shall be reported to the Fire Department, <u>no matter how small</u>, even if extinguished.
- Recall all elevators that access the floor of incident by turning the Elevator Fire Service Recall Switch to the "**ON**" position.
- Direct evacuation procedures utilizing the public address, if available.

### FIRE SAFETY TEAM ORGANIZATIONAL CHART

FIRE SAFETY DIRECTOR

Engineer Manager

#### ASSISTANT FIRE SAFETY DIRECTORS

**Operations Engineer** 

Security Supervisor

Console Security Officer on Duty

FIRE WARDENS

See Appendix IV

\_\_\_\_\_

Building Name: \_\_\_\_\_\_ Date: \_\_\_\_\_ HFD/LSB Revised **11/20/2012** Page 4 of 13

#### EMERGENCY PROCEDURES

#### I. <u>FIRE SAFETY DIRECTOR</u>

In the event of an unwanted fire or fire alarm:

- A. <u>Ensure</u> that the Fire Department has been notified immediately whenever an unwanted fire of any size occurs and/or fire alarm of any nature.
  - 1. Have someone knowledgeable of the building meet the Fire Department upon their arrival.
  - 2. Advise the Fire Department in the operation of the building's fire and life-safety equipment.
  - 3. Report any known conditions on the fire floor or alarm floor to the Fire Department upon their arrival.
- B. Manning the Fire Command Station.
  - 1. Ascertain the floor in alarm and report any additional alarms to the Fire Department.
  - 2. Ensure that all elevators serving the floor of incident are removed from service from the general public and made available to the Fire Department. Specific operating instructions will depend on the individual building. The specific instructions for this building are located in Appendix III and the Fire Depository Box.
  - 3. Direct evacuation procedures utilizing the public address, if available.
    - a) Be familiar with the location of all Exits/Stairs and select the safest Exit/Stair to use for evacuation on the basis of the location of the fire and any information available. If affected by smoke, an alternate Exit/Stair shall be selected.
    - b) The priority floors for immediate evacuation are the fire floor, one floor above and one floor below the fire. Relocation and reentry into the building at least 3 or more levels below the fire floor is generally adequate.
    - c) Evacuation from other floors shall be instituted when conditions indicate such action or when instructed by the Fire Department or the Fire Safety Director. Evacuation should be via uncontaminated Exit/Stairs.
    - d) Relocation and reentry into the building at least 3 or more levels below the fire floor is generally adequate.

e) Mobility-Impaired occupants may require special assistance in the event of a fire. Occupants not requiring assistance should evacuate first. This avoids the possibility of persons in need of assistance being bumped and/or falling down, thus slowing evacuation and/or causing injury. If there is evidence of fire, the person having mobility impairments should be positioned near the Exit/Stair that is located farthest away from the fire. If fire conditions pose personal threat, the person having mobility impairment, Fire Warden or any other person assisting, should be positioned within the Exit/Stair and wait for the Fire Department. If fire conditions pose a personal threat in the Exit/Stairs, the mobility-impaired person should be evacuated to a safe location. If the mobility-impaired person enters the Exit/Stairs, someone should notify the Fire Department of their location in the Exit/Stairs and that the mobility impaired person requires special assistance with evacuating.

#### II. ASSISTANT FIRE SAFETY DIRECTOR

- A. Assist the Fire Safety Director to ensure the effective implementation of the Fire Safety Plan.
- B. In the absence of the Fire Safety Director, assume the full duties and the responsibilities of that position.

#### III. <u>ANSWERING SERVICE</u>

In cases where a building answering service is made aware of a fire or suspected fire situation in a building they should be instructed to:

- A. Have the caller immediately notify the fire department by dialing 911.
- B. Notify the building Fire Safety Director or some other building emergency contact person of the situation.

The building Fire Safety Director shall ensure that their answering service is provided with up to date emergency contact information at all times.

#### IV. <u>FIRE WARDENS</u>

- A. Each floor of a building shall be under the direction of the Fire Wardens for the evacuation of occupants in the event of an unwanted fire or fire alarm, where applicable.
- B. Each Fire Warden shall be familiar with the Fire Safety Plan, the location of Exits/Stairs and the location of, and how to activate, the fire alarm.

- C. In the event of an unwanted fire or fire alarm the Fire Warden, <u>when it can be done</u> <u>safely</u>, shall:
  - 1. Notify the Fire Department, as specified in the approved Fire Safety Plan.
  - 2. <u>When it can be done safely</u>, should see that other occupants are notified of the fire or fire alarm, and should instruct occupants as per the Fire Safety Plan. If fire conditions do pose a personal threat, The Fire Warden should activate the fire alarm pull station and evacuate to a safe location.
  - 3. Direct the evacuation of the floor in accordance with directions received and the following guidelines:

(a) The Fire Warden shall select the Exit/Stairs furthest away from the fire to use, on the basis of the location of the fire and any information received. If Exit/Stairs is affected by smoke, an alternate Exit/Stairs shall be selected. If fire conditions do pose a personal threat, The Fire Warden should activate the fire alarm pull station and evacuate to a safe location.

(b) The priority floors for immediate evacuation are the fire floor, one floor above and one floor below the fire. Evacuation from other floors shall be instituted when conditions indicate such action or when instructed by the Fire Department or the Fire Safety Director. Evacuation should be via uncontaminated Exit/Stairs. In the event of a fire alarm only, the minimum procedures are to prepare to evacuate by relocating occupants to the nearest Exit/Stair door.

(c) Relocation and reentry into the building at least 3 or more floors below the fire floor is generally adequate.

(d) Fire Wardens on the fire floor shall, as soon as practical, notify the Fire Safety Director of the conditions on that floor.

(e) Mobility-Impaired occupants may require special assistance in the event of a fire. Occupants not requiring assistance should evacuate first. This avoids the possibility of persons in need of assistance being bumped and/or falling down, thus slowing evacuation and/or causing injury. If there is evidence of fire, the person having mobility impairments should be positioned near the Exit/Stair that is located farthest away from the fire. If fire conditions pose personal threat, the person having mobility impairment, Fire Warden or any other person assisting, should be positioned within the Exit/Stair and wait for the Fire Department. If fire conditions pose a personal threat in the Exit/Stairs, the mobility-impaired person should be evacuated to a safe location. If the mobility-impaired person enters the Exit/Stairs and that the mobility-impaired person requires special assistance with evacuating.

**NOTICE TO ALL FIRE WARDENS** - It is your responsibility to inform the Fire Safety Director in the event of vacation, leave of absence, transfer, sickness, etc., in order to make necessary provisions regarding replacements or substitutes.

Building Name:	
Date:	

### **GENERAL DUTIES**

I. All owners, managers and tenants of high-rise buildings shall comply with all applicable provisions of the City of Houston Fire and Construction Codes.

II. Fire Safety Team: A Fire Safety Team is hereby defined as the Fire Safety Director, Assistant Directors and such other persons specified in the approved plan. The members of the Fire Safety Team shall possess a certificate signed by persons, institutions, or companies approved by the Fire Marshal to do certification training.

- A. The training required for a certificate shall include organizing and training to conduct fire drills, evacuations and related activities. Such training shall be approved by the Fire Marshal and may include a written test and demonstrations of individual proficiency.
- B. Required training for certification shall be done by persons, institutions or companies approved by the Fire Marshal according to regulations established by the Fire Marshal.
- C. Certificates shall be valid for a period of <u>5 years</u> from the date of training.

III. Fire Safety Plan Procedure for Evacuation, Submission and Implementation

- A. The process to receive an approved Fire Safety Plan consists of the 3 following essential training elements conducted by persons, institutions or companies approved by the Fire Marshal according to regulations established by the Fire Marshal:
  - 1. Consultation with building's upper management,
  - 2. High-rise Certification Training class, and
  - 3. A fire drill supervised by persons, institutions or companies approved by the Fire Marshal.
- B. The owner, management or designated representative of a high-rise building shall <u>possess</u> and <u>maintain</u> only the standard City of Houston, Texas, Fire Safety Plan, approved by the Fire Marshal according to regulations established by the Fire Marshal. The emergency plan shall include the following:
  - 1. Identify the responsible person designated as the "Fire Safety Director" and their duties.
  - 2. List of sufficient alternates shall be provided for each Fire Safety Director and Assistant Directors.
  - 3. Provide approved procedures for reporting all unwanted fires and/or fire alarms.
  - 4. Narrative on the Fire Alarm system.
  - 5. Procedures for evacuation.
  - 6. Identify the building fire safety features.

7. Maps with means of egress. A means of egress comprises the vertical and horizontal ways of travel to a public way.

a) The maps shall also indicate those Exit/stair doors through which, under emergency conditions, exit and re-entry may be made.

- b) The locations of <u>all</u> of the following components shall be required on the maps:
  - 1. Fire Alarm Pull Stations
  - 2. Fire Extinguishers and Fire Hose Cabinets
  - 3. Elevator Lobbies
  - 4. Exit/Stairs Identification
  - 5. Re-entry floors

### **RESPONSIBILITIES**

#### I. The Fire Safety Director shall:

- A. Maintain current Fire Safety Team training records. Records shall be made available to the Fire Marshal upon request.
- B. Notify an on-site management representative who shall be the Acting Fire Safety Director and be capable of directing an evacuation as provided for in the Fire Safety Plan when the Fire Safety Director is not available in the building. The training and related activities of the Acting Fire Safety Director shall be under the direction of the Fire Safety Director. Such activities shall be subject to Fire Department control.
- C. Distribute the approved Fire Safety Plan to all tenants, Fire Wardens and building management employees who are staff and/or contracted personnel.
- D. Be familiar with the approved Fire Safety Plan, and conduct a fire drill at least <u>every 6</u> <u>months</u>. The Fire Marshal, upon survey of conditions, may require additional drills. A written record of such drills shall be kept on the premises and shall be readily available for Fire Department inspection.
- E. Select, organize, train and supervise qualified Fire safety Directors and be responsible for their availability and state of readiness.
- F. Implement an approved training program to provide fire prevention and emergency procedures for all building management employees who are staff and/or contracted personnel.
  - Ensure that each employee is familiar with the Fire Safety Plan, the location of Exit/Stairs and the location and activation of any available fire alarm pull stations.

- G. Be responsible for installation and maintenance of the Fire Depository Box and its contents, including Mobility Impaired Lists. (See Houston Fire Department LSB Standard No. 06, "Fire Depository Boxes")
- H. Provide facilities and assistance as needed by the Fire Marshal to obtain approval for the Fire Safety Plan.
- I. The building manager or owner of a high-rise office building, who has employed or contracted with an answering service, shall provide instructions to the answering service located within the City of Houston/Harris County "9-1-1" service area to call **9-1-1** when any unwanted fire, the smell of smoke, or a fire alarm is reported to them.

Answering services <u>outside</u> of the City of Houston/Harris County "9-1-1" service area shall call the Houston Fire Department Office of Emergency Communications telephone number: **713-884-3143.** 

Answering services shall instruct the caller that, from a safe place, to dial **9-1-1**, to report the fire conditions to the Fire Department as well.

- J. Notify the tenant when any employee of the tenant or individual is neglecting their responsibilities stated in the Fire Safety Plan. If the tenant fails to correct the condition, the owner or person in charge of the building shall notify the Fire Marshal.
- K. Understand the purpose and operation of all fire- and life-safety systems located in the building under the control of the building owner or manager.

#### II. Answering Service

- A. Answering services <u>within</u> the City of Houston/Harris County "9-1-1" service area shall notify the Fire Department by calling **9-1-1** when <u>any</u> unwanted fire, or sight or smell of smoke, or flames, and/or hear any fire alarm is reported.
- B. Answering services <u>outside</u> of the City of Houston/Harris County "9-1-1" service area shall call the Houston Fire Department Office of Emergency Communications telephone number, **713-884-3143**. Answering services shall instruct the caller who is reporting any unwanted fire, or sight or smell of smoke, or flames, and/or hear any fire alarm, to dial **9-1-1** from a safe location to report the conditions to the Fire Department as well.

#### III. Fire Wardens

- A. Each floor of a building shall be under the direction of the certified Fire Wardens for the evacuation of occupants when it can be done safely in the event of a fire and/or fire alarm.
- B. Each Fire Warden shall be familiar with the Fire Marshal approved Fire Safety Plan, the location of Exit/Stairs and the location and operation of any available fire alarm systems.

#### **IV.** Assistant Fire Safety Directors

- A. Shall be trained in accordance with regulations established by the Fire Marshal.
- B. Duties and responsibilities shall be in accordance with regulations established by the Fire Marshal.
- C. Shall be familiar with the Fire Safety Plan, the location of Exit/Stairs and the location and activation of any available fire alarm systems.

#### V. Tenants

- A. Each tenant shall be required to comply with the Fire Marshal approved Fire Safety Plan.
- B. Upon the request of the building owner, manager or designated representative, the tenants shall provide certified Fire Wardens. Tenants shall make responsible and dependable employees available for high-rise certification training towards approval and implementation of the Fire Safety Plan.
  - 1. A certified Fire Warden shall be provided for each tenancy per floor. When the floor area of a tenancy exceeds 7,500 square feet of occupiable space, a certified Warden shall be assigned for each such 7,500 square feet or part thereof.
  - 2. Each floor of a building shall have a minimum of 2 certified Fire Wardens, even if there less than 7,500 sq. ft occupied on the floor.
- C. The Fire Marshal approved Fire Safety Plan shall be distributed by the tenants to all their employees.
- D. Advise the Fire Safety Director of any employees that may wish to have special assistance in evacuation so that the building's Mobility-Impaired List can be updated in the building's Fire Depository Box.

#### FIRE DRILLS

- I. A fire drill shall be conducted at least <u>every 6 months</u>.
- II. All occupants shall be notified prior to the fire drill.
- III. <u>All occupants</u> of the building shall participate in the fire drill as required by the Fire Marshal.
- IV. The Fire Marshal, upon survey of conditions, may require additional drills.
- V. A written record of such drills shall be kept on the premises and shall be <u>readily</u> available for Fire Department inspection.

### **SPECIAL INSTRUCTIONS - ASSISTING THE MOBILITY IMPAIRED**

Persons having any mobility impairment need to be considered prior to any need for evacuation. It is necessary for tenants and mobility-impaired persons to notify the Fire Safety Director of any mobility-impaired person that may wish to have special assistance in the event of an evacuation. A list must be maintained and <u>updated at least every 6 months or as necessary</u>.

Mobility-Impaired occupants may require special assistance in the event of a fire. Occupants not requiring assistance should evacuate first. This avoids the possibility of persons in need of assistance being bumped and/or falling down, thus slowing evacuation and/or causing injury. If there is evidence of fire, the person having mobility impairments should be positioned near the Exit/Stair that is located farthest away from the fire. If fire conditions pose personal threat, the person having mobility impairment, Fire Warden or any other person assisting, should be positioned within the Exit/Stair and wait for the Fire Department. If fire conditions pose a personal threat in the Exit/Stairs, the mobility-impaired person should be evacuated to a safe location. If the mobility-impaired person enters the Exit/Stairs, someone should notify the Fire Department of their location in the Exit/Stairs and that the mobility-impaired person requires special assistance with evacuating.

#### PUBLIC ADDRESS ANNOUNCEMENTS

# I. IN CASE OF **<u>FIRE ALARM</u>**, RECITE THE FOLLOWING TO THE FLOOR OF ALARM, THE FLOOR ABOVE, AND THE FLOOR BELOW:

"This is the Building Management; we have an alarm on # \_\_\_\_\_floor.

The Fire Department has been notified.

Floors \_\_\_\_, \_\_\_, and \_\_\_\_ please prepare to evacuate by going to the Exit/Stair door, if there is any evidence of fire, please evacuate the floor to a safe area."

# II. IN CASE OF **FIRE**, RECITE THE FOLLOWING TO THE FLOOR OF INCIDENT, THE FLOOR ABOVE, AND THE FLOOR BELOW:

"This is the Building Management; we have an emergency on # \_\_\_\_\_ floor.

The Fire Department has been notified.

Floors \_\_\_\_\_, \_\_\_\_, and \_\_\_\_\_ evacuate the floor to a safe area using the Exit/Stairs."

**NOTE:** The Fire Safety Director and/or the Fire Department will make additional announcements as conditions warrant.

#### FIRE ALARM RECORDING

- I. **English Version:** An alarm has been reported. Please prepare to evacuate by going to the Exit/Stair door. If there is any evidence of fire, evacuate the floor using the Exit/Stairs to a safe area.
- II. **Spanish Version:** Se ha reportado una alarma. Por favor, prepárense para evacuar yendo a la salida de emergencia o la puerta de las escaleras. Si hay cualquier evidencia de fuego, evacuen el piso a un lugar seguro.

#### **APPENDIX I**

#### FIRE ALARM SYSTEM OPERATIONS

The following is a narrative of the fire alarm system and its method of operation.

- I. What automatic building features are initiated when:
  - A. One smoke detector in the corridor is activated?

HVAC shuts down on floor of alarm

Audible alarms sound on floor of alarm, floor directly below and directly above (3 floors total)

The pre-recorded message that gives evacuation instructions through the Public Address System

Strobe lights flash on floor in alarm, directly below and directly above (3 floors total)

All doors on the buildings magnetic lock access will unlock

Off-site alarm monitoring service receives fire alarm

## Note: In many buildings the fire alarm tones can be faintly heard on other floors than the actual alarm floors because the fire alarm bleed through the stairwell wall, elevator shaft, floors and ceilings.

- B. Second smoke detector is activated in the corridor?
   See Item A above
   Offsite alarm monitoring company receives second alarm
- C. One smoke detector is activated in the elevator lobby? See Item A above.
- D. Second smoke detector is activated in the elevator lobby? See Item A above.
   Passenger elevators will recall to 5rd floor.
- E. A fire alarm pull station is activated on an above the ground floor? See Item A above.
- F. A fire alarm pull station is activated on the ground floor? See Item A above.
- G. How do you activate a general alarm (alarm tone audible on all floors)?
  Push the "All Evac" button. message This will set the alarm off on all floors and a pre-recorded will be activated.

#### **APPENDIX II**

#### **BUILDING SAFETY FEATURES**

FIRE COMMAND CENTER Located on the 1<sup>st</sup> floor to the North of the elevator Lobby Location of Fire Panel Location of Main Elevator Panel

COMMUNICATIONS / PA SYSTEM

100% Public Address System throughout building Pre-recorded message that gives instructions through the Public Address System when building has a fire alarm Elevator phones – automatically ring to 24-hour monitoring company Intercoms in the Loading Dock area, Parking Garage and perimeter ring to Security

STAIRWELLS Three stairwells – A, B, C Stairwells B & C open to roof for ventilation Re-entry to building from the stairwell on floors 1, 4, 9, 14, 19, 22 Stairwells shafts are 2-hour fire rated

#### CORRIDORS

All corridors have smoke detectors, strobe lights and emergency lighting All multi-tenant corridors have one or more Fire Extinguishers 2-hour fire wall construction on floor and ceiling

ELECTRONIC LOCKS

All magnetic locks are programmed to unlock upon receipt of a fire alarm.

#### ELEVATORS

Phones in each cab automatically ring to 24-hour monitoring company Recall to 5<sup>th</sup> floor upon activation of two smoke detectors Modernized in 1999

HEATING, VENTILATION, AND AIR CONDITIONING System shuts down upon receipt of fire alarm to prevent smoke distribution.

SPRINKLER SYSTEM / STANDPIPE Building is 100% sprinkled Standpipe outlets are located inside each stairwell

EXTINGUISHING SYSTEMS

Fire Extinguisher located on every floor within 75-foot radius.

EMERGENCY GENERATOR

Powers emergency lighting, one building/garage elevator at a time and fire panel. Powers fire pump and jockey fire pump.

#### **APPENDIX III**

#### ELEVATOR EMERGENCY / FIRE SERVICE OPERATIONS

Phase I(Elevator Fire Service Recall)

- Key Off: Normal elevator operation
- Key On: Recalls elevators to this floor
- Key By-Pass:
   Overrides heat and smoke sensors to allow normal elevator operation

Phase II (Elevator Fire Service In Car)

- To operate car: Insert fire key in switch located inside elevator and turn to "on" position. Press desired floor button located inside elevator.
- To cancel floor selection: Press "call cancel" button located inside elevator
- To close door: Press and hold "door close" button.
- To open door: Press and hold "door open" button.
- To hold car at floor: With door open turn key to "hold"
- To cancel floor selection: Press "call cancel" button located inside elevator.
- To return car to designated or alternate landing: With doors open turn key to "off'



Houston, Texas 77002





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PLAN NORTH

1001 McKinney

Level 19

Houston, Texas 77002



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