



CITY OF MADISON FIRE DEPARTMENT

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RE: Guide for the Development of Fire Evacuation Plans

Attached is a guide for the development of fire evacuation plans. This guide is to be used for all emergency, safety, and evacuation plans. Following the guide will meet the requirements of the International Fire Code.

Once you have finalized the plan(s) for your facility, please forward a copy to the City of Madison Fire Department. The fire department will review the plan to ensure it satisfies the requirements of the guide.

Planning is only the first step in emergency preparedness. Employees and managers need to be trained on how to respond to emergencies. Responsibilities, accountability methods and consequences must be conveyed. Finally, the plan must be practiced to ensure that the plan works. The fire department's Community Education Unit can assist with staff training and can help coordinate a fire drill. Please contact our Community Education Unit at 608-266-4420.

In conclusion, this guide has been forwarded to assist in developing fire safety plans. It is the responsibility of every property owner to make sure employees, occupants, residents, and guests have a plan for responding to emergencies.

HOW TO DEVELOP YOUR EMERGENCY EVACUATION PLAN

I. The Fire Evacuation Plan (Section 404.3.1, IFC)

A. Fire evacuation plans shall include the following:

1. Emergency egress or escape routes and whether the evacuation of the building is to be complete or, where approved, by selected floors or areas only (such as for a hospital or nursing home).
2. Procedures for accounting for employees and occupants after the evacuation has been completed.
3. Identification and assignment of personnel responsible for rescue or emergency medical aid.
4. The preferred and any alternative means of notifying occupants of a fire or emergency.
5. The preferred and any alternative means of reporting fires and any other emergencies to the fire department or designated emergency response organization.
6. Identification and assignment of personnel who can be contacted for further information or explanation of duties under the plan.

II. The Fire Safety Plan (Section 404.3.2, IFC)

A. Develop floor plans for each level of your building. These plans will need to show:

1. Walls, partitions, corridors, doors, and exits.
2. Locations of all manual fire alarm boxes and portable fire extinguishers.
3. Identification of all four-hour rated firewalls.
4. In buildings three or more stories high, include the location of the standpipe and external fire department connection.
5. The location of fire alarm annunciators and controls.
6. Areas of refuge for employees, customers, visitors, residents and patients who are disabled must be indicated on the plan.
7. Paths of primary and secondary egress (exit) must be shown, the primary path should be the most direct path of exit.
8. Exit paths cannot be directed through “areas of hazard”, such as commercial kitchens, garages or labs.
9. All doors designated as emergency exit doors shall open toward the natural means of egress, if capacity exceeds 25 persons.
10. Exits through a four-hour rated firewall may be considered a horizontal exit. Horizontal exits are acceptable in some occupancies.
11. Directional compass for orientation should be located in a corner of the page.
12. Plans should be of a workable size, such as 8 ½” x 11”.

B. Plans must be posted in conspicuous places, allowing all occupants, including visitors to easily locate a plan in the event of an emergency.

1. Distribute the floor plan, showing evacuation paths, to all employees.
2. Plans should include the following supplementary instructions:
 - a) Isolate the fire by closing doors.
 - b) Active the internal fire alarm system.
 - c) Notify 911
 - d) Evacuate the building.
3. The designated meeting place outside and away from the building for each department work area or section must be stated on the floor plan.

III. Planning for the Disabled

- A. Consult the *Americans with Disabilities Act (ADA)* for specific rules and regulations. The following information is advisory and may not comply with the ADA requirements for your business:
1. Areas of refuge should be located in rooms with:
 - a) Fire rated walls, floors, ceilings and door.
 - b) Street frontage for fire department access.
 - c) Windows.
 - d) Communications equipment, a telephone and “HELP” sign, which can be posted in the window.
 - e) Post instructions on use of the communications system, location of “HELP” sign and any other information, which may help to reassure the person and improve their protection.
 2. Compile a list of disabled persons and areas where they are likely to seek refuge in a fire emergency.

IV. Outside Meeting Places (Section 404.3, IFC)

- A. All evacuation plans require a predetermined meeting place away from the building.
1. The meeting place must be at least 200 feet away from the building to allow for access of fire department personnel and to ensure the safety of building personnel.
 2. An accurate head count and list of missing employees, customers, visitors, residents and patients must be given to fire personnel. Include information on the most likely place missing persons may be located.
 3. Personnel must be prohibited from leaving the meeting area until the head count is completed.

V. Fire Department Response (Section 401 & 404.3, IFC)

- A. The average response time for the Madison Fire Department is 4 to 6 minutes.
- B. The evacuation of the building(s) should be completed or in progress upon arrival of the fire department.
- C. The head count, list of missing persons and list of differently abled personnel as well as areas of refuge should be given to fire department personnel as soon as possible.
- D. Designate an employee to meet the firefighters. This employee must have a working knowledge of the building, building systems, fire alarm systems, fire sprinkler systems, any hazards or hazardous materials and keys to all areas of the building(s).

VI. Evacuation Procedures (Section 401, IFC)

- A. Isolate the fire by closing doors as you leave the building.
- B. Activate the internal alarm systems. All personnel must be familiar with the sound of the fire alarm system and learn to recognize the evacuation signal. Install alarm system horns and strobe lights as necessary to ensure that all employees, customers, visitors, residents and patients can be alerted.
- C. Notify 911. Provide as much information as possible to the dispatcher. Be prepared to answer questions. Don't hand-up until told to do so by the 911 Center. Not all alarm systems automatically relay the alarm to the 911 Center; your call may be their only notification.
- D. Evacuate the building. Do not waste time turning off equipment, collecting papers or gathering personal property. Feel the doors to see if they are hot before opening them. If smoke is present, crawl low where the air is fresher and cooler. No one should reenter the building after evacuation without fire department approval.

VII. Other Emergencies

- A. Evacuation plans and fire safety plans should include procedures for other emergencies and directions for employees. Procedures and directions should address the following emergencies:
 - 1. Medical emergencies
 - 2. Bomb threats
 - 3. Severe ^{weather}
 - 4. Chemical releases
 - 5. Others as appropriate

VIII. Emergency Evacuation Drills (Section 405, IFC)

- A. Upon completion, the evacuation plan must be practiced and evaluated. Any problems must be corrected and, if necessary, the plan revised to reflect any changes.
- B. Fire drills must be conducted at intervals specified in the table below or more frequently to familiarize occupants with the plan. (If you wish you may contact the Madison Fire Department Community Education Unit to schedule fire department personnel for the purpose of witnessing the drill.)

<u>Type of Occupancy</u>	<u>Frequency of the drills</u>	<u>Participation</u>
○ Group A	Quarterly	Employees
○ Group E	Monthly	All occupants
○ Group I	Quarterly on each shift	Employees
○ Group R-1	Quarterly on each shift	Employees
○ Group R-4	Quarterly on each shift	Employees

Group A are assembly occupancies. Group E are educational occupancies through the 12th grade. Group I are institutional occupancies. Group R-1 are residential occupancies where occupants stay less than 30 days. Group R-4 are Residential Care/Assisted Living Facilities with more than five but not more than 16 occupants, excluding staff. (Table 405.2, IFC)

- C. Drills shall be held at unexpected times and under varying conditions to stimulate the unusual conditions that occur in case of a fire.
- D. Records of the required emergency evacuation drills shall be maintained and include the following information.
 - 1. Identity of the person conducting the drill
 - 2. Date and time of the drill
 - 3. Notification method used
 - 4. Number of staff members participating
 - 5. Number of occupants evacuated
 - 6. Any special conditions simulated
 - 7. Any problems encountered
 - 8. Weather conditions when occupants were evacuated
 - 9. Time required to accomplish the complete evacuation
- E. Where a fire alarm system is provided, emergency evacuation drills shall be initiated by activating the fire alarm system.
- F. Fire extinguishers should only be used by properly trained persons. Do not endanger employees by telling them to use fire extinguishers. It should be understood that extinguisher use is voluntary. The fire department should be notified in all cases of fire, even if the fire has been put out.
- G. Building personnel must **never** reset alarm panels without fire department approval.

IX. Maintenance

- A. All exit signs and emergency lighting must be maintained in working order to assist in the prompt evacuation of the building.
- B. Recommended maintenance must be performed and records kept for all fire protection, suppression and alarm systems in accordance with NFPA 25 and NFPA 72.
- C. All fire doors must be maintained in working order, remain in the closed position and be unobstructed at all times.
- D. All fire walls and fire separation assemblies must be maintained in accordance with fire safety codes.
- E. Remove snow, ice and all other objects from outside landings so that fire exit doors may open freely and to their maximum width.

X. Review and Updates (Section 404.4, IFC)

- A. Fire safety and evacuation plans must be reviewed and updated annually or more often, if needed, to determine the need of revision. Revisions must be made to reflect the following:
 - 1. Changes in occupancy.
 - 2. Building additions and/or remodeling which affects the floor plan.
 - 3. An increase in personnel or relocation of personnel to include persons with disabilities.
 - 4. Changes in staff assignments

XI. Availability (Section 404.5, IFC)

- A. Fire safety and evacuation plans shall be available in the workplace for reference and review by employees. All copies shall be provided to the code official for review upon request.

XII. Employee Training (Section 406.2, IFC)

- A. Employees shall receive training in the contents of fire safety and evacuation plans and their duties as part of new employee orientation and at least annually thereafter. Records shall be kept and made available to the code official upon request.

XIII. References

- A. For additional references, please consult Chapter 4 of the International Fire Code or your local code enforcement official.

XIV. Madison Fire Department Support

- A. The Madison Fire Department will review the plan to ensure compliance with the Madison Fire Code. If you are interested in a department review, please submit it to the following address:

City of Madison Fire Department
Fire Prevention Division
325 W. Johnson St
Madison, WI 53703-1153

- B. The Madison Fire Department will support evacuation drills through the on-site presence of fire personnel. Please contact the Community Education Unit at (608) 266-4420.
- C. The Madison Fire Department will support employee training for the fire safety and evacuation plans through on-site instruction, training, and/or videos. Please contact the Community Education Unit at (608) 266-4420.